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# PART 1
# 1973

MICRO PHOTO DIVISION

BELL & HOWELL

CAG

A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

# Index of Patents

Issued from
THE UNITED STATES PATENT OFFICE

PART 1

LIST OF PATENTEES

U.S. DEPARTMENT OF COMMERCE
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# INDEX OF PATENTS

Part I, List of Patentees

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Abler, Norman C.; and Hardt, David R., to Faustel, Inc. Doctor blade assembly. 3,780,670, 12-25-73, Cl. 101-363.000.
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Abnett, Albert C.; and Boley, Robert A., to Reliance Electric Company. Vibration analyzer probe with reduced temperature sensitivity. 3,750,010, 7-31-73, Cl. 324-34.00d.
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Abramitis, Walter W., to Akzona Incorporated. Mosquito larvicide compositions. 3,755,597, 8-28-73, Cl. 424-304.000.
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Abrams, Ralph; and Cary, Harry W., Jr. Integral one-piece key ring or locking ring. 3,719,974, 3-13-73, Cl. 24-237.000.
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Abramson, Stanley L. Roof gutter and protector. 3,741,398, 6-26-73, Cl. 210-474.000.
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A.C. Manufacturing Company: *See—*
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Acaba, Peter. Air pollution control device. 3,732,075, 5-8-73, Cl. 23-284.000.
Academic Associates, Inc.: *See—*
Moore, Thomas W.; Dimeo, Frank N.; and Collins, Richard E., 3,762,420.
Acampora, Ferdinando M.: *See—*
Rosevear, Allan F.; and Acampora, Ferdinando M., 3,713,909.
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Acciarri, Jerry A.; and Kennedy, Eugene F., to Continental Oil Company. Control of distribution of aluminum alkyls and products derived therefrom. 3,775,456, 11-27-73, Cl. 260-448.00a.
Accles & Shelvoke Limited: *See—*
Hancox, Roger John, 3,727,337.
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Accountius, Oliver E., to North American Rockwell Corporation. Carbonaceous material and method of preparation. 3,719,452, 3-6-73, Cl. 423-449.000.
Accumed, Inc., mesne: *See—*
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Accurate Manufacturing Co.: *See—*
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Ace Controls, Inc.: *See—*
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Ace General Corporation: *See—*
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Ace Glass Co.: *See—*
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A.C.E. Machinery Limited: *See—*
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Ace, Ronald S., to Ace Sophisticates Inc. Internal cooling for photodectors. 3,757,151, 9-4-73, Cl. 313-39.000.
Ace Sophisticates Inc.: *See—*
Ace, Ronald S., 3,757,151.
Ace Tank and Heater Company: *See—*
Cancilla, Edward; and Lanahan, Bernard E., 3,734,064.
Acepcion, Antonio T.: *See—*
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ACF Industries, Incorporated: *See—*
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Bordeaux, Jean, 3,741,009.
Carney, John L., Jr.; and Duggi, Richard H., 3,778,114.
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Cook, Robert M.; and Goldman, Charles B., 3,709,151.
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Achler, Howard S.; and Kaufmann, Harold, to Houdaille Industries, Inc. Universal urethane die assembly and apparatus for using same. 3,765,285, 10-16-73, Cl. 83-128.000.
Achterberg, Dieter Christian. Electrical alternating contact switch. 3,752,943, 8-14-73, Cl. 200-166.0bb.
ACI Operations Pty. Limited: *See—*
Corderoy, Henry Morgan, 3,780,492.
A.C.I. Trust: *See—*
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Acieries Reunies de Burbach-Eich-Dudelange S.A., ARBED: *See—*
Liesch, Jean; and Removille, Jacques, 3,711,993.
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Acker, Ellsworth; and Winyall, Milton Edward, to Grace, W. R., & Co. Process for making fine sized low density silica. 3,716,493, 2-13-73, Cl. 252-317.000.
Acker, Morris: *See—*
Ikrath, Kurt; and Acker, Morris, 3,718,932.
Acker, Noel T.; and Radice, John G., to Singer Company, The. Gear shift mechanism. 3,740,870, 6-26-73, Cl. 35-11.000.
Acker, Richard C., to Weatherhead Company, The. Welding head drive unit. 3,708,647, 1-2-73, Cl. 219-60.00a.
Acker, Robert H.; and Murphy, Francis H., to Singer Company, The, mesne. Star tracker system. 3,731,544, 5-8-73, Cl. 74-5.220.
Acker, William F., to Honeywell Information Systems, Inc. Precision variable-gain amplifier with linear log-gain versus control-voltage characteristic. 3,736,520, 5-29-73, Cl. 330-29.000.
Acker, William F.; and Bremer, Gordon F., to Honeywell Information Systems, Inc. Voltage controlled oscillator. 3,736,528, 5-29-73, Cl. 331-143.000.
Ackeret, Peter, to Provalor A.G. Money box. 3,747,838, 7-24-73, Cl. 232-4.000.
Ackerfeldt, Bo Ingemar, to U.S. Natural Resources, Inc. Sawing system for sawing of logs sorted to diameter class. 3,731,578, 5-8-73, Cl. 83-731.000.
Ackerfeldt, Bo Ingemar, to U.S. Natural Resources, Inc. Log rotating and feeding device with continuous supporting device. 3,733,067, 5-15-73, Cl. 269-295.000.
Ackerfeldt, Bo Ingemar, to U.S. Natural Resources, Inc. Device for feeding logs through a processing machine. 3,756,296, 9-4-73, Cl. 143-125.000.
Ackerman, Bernard, to Electro-Catheter Corporation. Method of making a catheter. 3,731,376, 5-8-73, Cl. 29-624.000.
Ackerman, Daniel W., to Universal Instruments Corporation. Wire wrap tool for hand gun application. 3,756,522, 9-4-73, Cl. 242-7.170.
Ackerman, Francis R., to Addressograph-Multigraph Corporation. Travelling cylinder printer with means for locking the platen and associated handle in retracted position. 3,735,701, 5-29-73, Cl. 101-269.000.
Ackerman, Frank M. Food grinder. 3,744,729, 7-10-73, Cl. 241-239.000.
Ackerman, Irving. Envelope-type package for fold-over type coffee filter sheets. 3,716,131, 2-13-73, Cl. 206-57.000.
Ackerman, James H., to Sterling Drug Inc. Iodinated bis(aminobenzoic acids) and esters thereof. 3,732,293, 5-8-73, Cl. 260-516.000.
Ackerman, James H. Iodinated anilic acids. 3,770,820, 11-6-73, Cl. 260-516.000.
Ackerman, James H., to Sterling Drug Inc. N(2,4,6-triiodo-3 acetylamino methyl)phenyl glutarimide or succinimide. 3,780,041, 12-18-73, Cl. 260-281.000.
Ackerman, Joseph Francis; Beerli, George; Savageau, Robert George; and Weisfeld, Joseph, to Inmont Corporation. Method of printing or coating using actinic radiation setting of applied coating and coated product. 3,713,864, 1-30-73, Cl. 117-38.000.
Ackerman, Martin S.; and Hardy, George, to Perfect Film & Chemical Corporation. Camera with built-in stroboscopic flash. 3,763,752, 10-9-73, Cl. 95-11.50r.
Ackerman, Myron: *See—*
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Ackerman, William H., Jr.; Fischer, Emery; and Caruso, Gerald L., to United States of America, Navy. Removable weapons rail. 3,771,416, 11-13-73, Cl. 89-1.50r.
Ackermann, Ernst: *See—*
Espeel, Frans Joris; and Ackermann, Ernst, 3,729,903.
Ackermann, Hans; and Creutzburg, Gerhard, to Ciba-Geigy Corporation. Brighteners of the bis-s-triazinylaminostilbene series. 3,723,425, 3-27-73, Cl. 260-240.00b.





Ackermann, Hans; Sciler, Herbert; and Dussy, Paul, to Ciba-Geigy AG. Triazinylsanthraquinones. 3,758,470, 9-11-73, Cl. 260-249.000.
Ackermann, Herman, to Velten & Pulver, Inc. Convey system and attachments therefor. 3,708,059, 1-2-73, Cl. 198-189.000.
Ackermann, Jacob: *See—*
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Ackermann, Josef: *See—*
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Ackermann, Karl, to Bosch, Robert, Photokino G.m.b.H. Automatically terminating battery charging arrangement with means for decreasing ripple effect. 3,748,568, 7-24-73, Cl. 320-31.000.
Ackermann, Karl; Uecker, Siegfried; Socha, Rudolf; and Reiber, Heinz-Joachim, to Bosch, Robert, Photokino G.m.b.H. Electronic flash unit with flash tube ignition circuit mounted on back of reflector. 3,767,908, 10-23-73, Cl. 240-1.300.
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Acket, Gerard Adriaan; and Vlaardingerbroek, Marinus Teunis, to U.S. Philips Corporation. Semiconductor device for amplifying micro-wave. 3,754,191, 8-21-73, Cl. 330-5.000.
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Ackley, Kenneth E.; and Sparks, Arnold F., to Mobil Oil Corporation. Quilted laminar films comprising at least two layers of dissimilar material. 3,743,172, 7-3-73, Cl. 229-5.00r.
Ackley, Richard H., to PPG Industries, Inc. Composite mat structure. 3,713,962, 1-30-73, Cl. 161-154.000.
Ackrell, Jack; Edwards, John A.; and Fried, John H., to Syntex Corporation. Novel C-16, 17 spiro-orthoester steroids and preparation. 3,716,529, 2-13-73, Cl. 260-239.55d.
Ackroyd, Ronald Tunstall; and Mann, Charles Alan, to United Kingdom Atomic Energy Authority. Conveyors. 3,756,380, 9-4-73, Cl. 198-184.000.
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Acle, Luis, Jr.; Boram, William R.; and Long, John V., to International Harvester Company. Process for preparing polyimides from amino aromatic dicarboxylic acids and ester derivatives of said acids. 3,726,831, 4-10-73, Cl. 260-47.0cp.
Acle, Luis Jr., to International Harvester Company. Thermoplastic copolyimides. 3,726,834, 4-10-73, Cl. 260-65.000.
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Acme Highway Products Corporation: *See—*
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Shappe, James F., 3,777,353.
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Acme Paper Products Company Limited: *See—*
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Cini, Adrian V., 3,743,457.
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Acoustic Fiber Sound Systems, Inc.: *See—*
Everitt, Scott F.; Croup, Robert E.; and Strawn, Alvin A., 3,749,198.
Everitt, Scott F., 3,757,889.
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Acquavia, Thomas J., Jr., to Xerox Corporation. Control circuit for sorting system. 3,709,485, 1-9-73, Cl. 271-57.000.
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Acre, Thomas R.; Gimbel, Frederick M.; and Ramachandran, Sundaresan, to Allegheny Ludlum Industries, Inc. Method and apparatus for determining the depth of submerged lances and the like. 3,780,581, 12-25-73, Cl. 73-302.000.
Acree, William L., to Burlington Industries, Inc. Continuous solvent dyeing process. 3,762,872, 10-2-73, Cl. 8-176.000.
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Acti Products, Inc.: *See—*
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Action, Floyd; Cochran, Paul E.; and Moore, William G., to Kinnear Corporation. Electronic interlock for door operator. 3,781,622, 12-25-73, Cl. 318-466.000.
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Acton, Daniel D.; and Foss, George J., to Anchor Hocking Corporation. Press-on twist lift-off container sealing means. 3,741,423, 6-26-73, Cl. 215-40.000.
Acton, Edward M.; Leaffer, Morris A.; and Stone, Herbert, to Sanford Research Institute. Alpha, beta-Unsaturated aldoxime sweeteners. 3,780,194, 12-18-73, Cl. 426-342.000.
Actor, Philip P.; Parish, Roger C.; and Theodorides, Vassilios J., to Smith Kline & French Laboratories. Coccidiostat compositions and methods using aminobenzonitriles. 3,716,641, 2-13-73, Cl. 424-251.000.
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Acushnet Company: *See—*
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ADAC Co., Ltd.: *See—*
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Adachi, Iwao P., to Itek Corporation. Triple-layer anti-reflection coating design. 3,712,711, 1-23-73, Cl. 350-164.000.
Adachi, Kazuo; Tai, Akira; and Higashi, Fukuji, to Tekkosha Co., Ltd. High polymer having the structure of poly-(imino) 2,5-dialkoxycarbonyl-1,4-phenylene)-1,4-phenylen) iminoalkylen. 3,733,303, 5-15-73, Cl.-260-47.0cp.
Adachi, Kazuo; Tai, Akira; Higashi, Fukuji; and Shibata, Katsuya, to Tekkosha Co., Ltd. Poly-(imino(2,5-dialkoxycarbonyl-1,4-phenylene) iminoarylene). 3,746,684, 7-17-73, Cl. 260-47.0cp.
Adachi, Kazutaka: *See—*
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Ishii, Atsushi; Murakami, Masayuki; Hagiwara, Yoichi; Ono, Tomio; Adachi, Kiyoshi; and Hashimoto, Shuji, 3,760,405.
Kosaka, Kenzo; Adachi, Kiyoshi; Kitagawa, Hiroshi; Nakamura, Tunehiko; and Kato, Osami, 3,729,831.
Adachi, Syozo; and Ueyama, Masasi, to Iwatsu Electric Co., Ltd. Electrophotographic liquid developer containing asphalt and modified alkyl resin. 3,714,048, 1-30-73, Cl. 252-62.100.
Adachi, Tadaaki: *See—*
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Adachi, Takeshi; and Suzuki, Syoichi, to Nippon Gakki Seizo Kabushiki Kaisha. Keyboard triggered percussion sound producing device for keyboard electronic musical instrument. 3,720,776, 3-13-73, Cl. 84-1.130.
Adachi, Takeshi, to Nippon Gakki Seizo Kabushiki Kaisha. Bass tone producing device for an electronic musical instrument. 3,723,633, 3-27-73, Cl. 84-1.030.
Adachi, Takeshi, to Nippon Gakki Seizo Kabushiki Kaisha. Mandoline effect producing circuit for electronic musical instrument. 3,746,774, 7-17-73, Cl. 84-1.220.
Adachi, Takeshi. Orchestral effect producing system for an electronic musical instrument. 3,749,807, 7-31-73, Cl. 84-1.170.

Adachi, Takeshi, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument having tone start prominence circuit. 3,762,265, 10i2-73, Cl. 84-1.240.

Adachi, Toshio; and Hayashi, Kiyohide, to Daido Seiko Kabushiki Kaisha. Process for manufacture of low oxygen and low sulphur steel. 3,779,739, 12-18-73, Cl. 75-12.000.

Adachi, Toshio; and Kayashi, Kiyohide, to Daido Seiko Kabushiki Kaisha. Process for manufacture of ultra low carbon steel by means of plasma arc refining. 3,779,740, 12-18-73, Cl. 75-12.000.

Adachi, Tsukasa; and Kasuya, Kazuhiko, to Ricoh Co., Ltd. Device for removing electric potential from an electrically conducting material layer of a recording sheet. 3,757,165, 9-4-73, Cl. 317-2.00r.

Adahan, Careli. Brake control device. 3,746,404, 7-17-73, Cl. 303-21.00f.

Adahan, Carmeli. Skid control module. 3,719,399, 3-6-73, Cl. 303-21.0be.

Adahan, Carmeli, to Ford Motor Company. Differential pressure warning device for dual brake system. 3,772,672, 11-13-73, Cl. 340-242.000.

Adair, Edwin Lloyd. Suprapubic shunt. 3,713,447, 1-30-73, Cl. 128-347.000.

Adair, James Richard, to Wean United, Inc. Retractable gauge control assembly for a rolling mill. 3,713,314, 1-30-73, Cl. 72-19.000.

Adair, James Richard, to United Engineering and Foundry Company. Rolling mill. 3,738,142, 6-12-73, Cl. 72-239.000.

Adair, James Richard, to Wean United, Inc. Roll changing arrangement for a rolling mill. 3,754,426, 8-28-73, Cl. 72-238.000.

Adair, James Richard; and Deems, Ronald Wesley, to Wean United, Inc. Rolling mill control. 3,766,761, 10-23-73, Cl. 72-8.000.

Adair, Leonard T. Swimming pool user warning system. 3,778,804, 12-11-73, Cl. 340-272.000.

Adajian, Michael. Trigger safety for handguns. 3,732,641, 5-15-73, Cl. 42-1.00y.

Adaks Products Incorporated: *See—*
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Adam, Fritz Gunter; and Gollinger, Wolfgang, to ITT Industries, Inc. Integrable IGFEI circuit. 3,757,145, 9-4-73, Cl. 307-304.000.

Adam, Roger Francois Jean. Device for irrigation especially of flower pots. 3,753,315, 8-21-73, Cl. 77-38.000.

Adam, Wolfgang E.; and Barrat, Christian, to Procter & Gamble Company, The. Detergent composition containing enzymes. 3,773,674, 11-20-73, Cl. 252-99.000.

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Adamek, Edward G., to Du Pont of Canada Limited. Preparation of butyralactam and valeralactam. 3,745,164, 7-10-73, Cl. 260-293.520.

Adamian, Michael R. Automatic headlight control. 3,769,519, 10-30-73, Cl. 307-10:01s.

Adamic, Joseph W., Jr., to Motorola, Inc. Increasing field inversion voltage of metal oxide on silicon integrated circuits. 3,753,806, 8-21-73, Cl. 148-188.000.

Adamo, Daniel M. Ground fault circuit interrupter. 3,728,581, 4-17-73, Cl. 317-18.00a.

Adamo, Michael D., to Monsanto Company. Apparatus for removing a hollow article having internal enlargements from an injection mold assembly. 3,718,419, 2-27-73, Cl. 425-438.000.

Adamovske strojirny narodni podnik: *See—*
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Stepanek, Karel; and Jurny, Josef, 3,709,048.

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Adams, Alan Douglas, to Atlas Chemical Industries, Inc. Fuel oil sludge dispersant composition. 3,751,234, 8-7-73, Cl. 44-66.000.

Adams, Alan Douglas, to Atlas Chemical Industries, Inc. Sludge dispersant compositions. 3,751,236, 8-7-73, Cl. 44-66.000.

Adams, Alan Douglas, to Atlas Chemical Industries, Inc. Fuel oil sludge dispersant compositions. 3,762,892, 10-2-73, Cl. 44-72.000.

Adams, Anthony E.; Yearsley, Gerald A.; Simmons, Marion I.; and Yager, Billy P., to Texas Instruments, Incorporated. Automatic semiconductor bonding machine. 3,776,447, 12-4-73, Cl. 228-3.000.

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Adams, Arnold L. Grain dryer. 3,727,556, 4-17-73, Cl. 34-102.000.

Adams, Beatrice N.: *See—*
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Adams, Carlton D. Regenerating desiccator. 3,735,563, 5-29-73, Cl. 55-179.000.

Adams, Cecil E.; Connelly, Joseph J.; and Krehlik, Joseph F., to Abex Corporation. Machines. 3,768,378, 10-30-73, Cl. 308-241.000.

Adams, Charles D.; and Wommack, Joel B., Jr., to Du Pont de Nemours, E. I., and Company. Process for preparing alkyl 2-benzimidazole-carbamates. 3,711,504, 1-16-73, Cl. 260-309.200.

Adams, Charles D.; and Schlatter, Rudolph, to Du Pont de Nemours, E. I., and Company. Solvent process for the preparation of 1-carbamoyl-substituted-2-benzimidazole carbamates. 3,738,995, 6-12-73, Cl. 260-309.200.

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Adams, Charles Wesley; and Meinhardt, Norman Anthony, to Lubrizol Corporation, The. High molecular weight carboxylic acid acylating agents and the process for preparing the same. 3,755,169, 8-28-73, Cl. 252-35.000.

Adams, Clarence L. Rotary fluid-powered apparatus. 3,726,619, 4-10-73, Cl. 415-64.000.

Adams, Clarence R., to Boeing Company, The. Insulation and condensation control system. 3,740,905, 6-26-73, Cl. 52-173.000.

Adams, Clark E.; and House, William T., to Esso Research and Engineering Company. Hydrodesulfurization of residua. 3,770,618, 11-6-73, Cl. 208-216.000.

Adams, Clark F.: *See—*
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Adams Company, The: *See—*
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Adams, Dale C., to Ford Motor Company. Split torque drivetrain for multiple wheel vehicle. 3,768,821, 10-30-73, Cl. 180-7.00a.

Adams, David K.; and Ho, Raymond Y.-C., to Stanford Research Institute. Multiple resonator active filter. 3,723,773, 3-27-73, Cl. 307-295.000.

Adams, David K.; and Ho, Raymond Y.-C., to Stanford Research Institute. Loss cancelling resonator and filters. 3,737,801, 6-5-73, Cl. 331-53.000.

Adams, Don L.; and Cotton, Louis S., to United Aircraft Corporation. Aircraft ground speed control system. 3,724,786, 4-3-73, Cl. 244-77.00g.

Adams, Donald E.; and Vassallo, Franklin A., to Cornell Aeronautical Laboratory, Inc. Heat flux measuring system. 3,720,103, 3-13-73, Cl. 73-190.00h.

Adams, Frank H.: *See—*
Pharis, Joe M.; and Adams, Frank H., 3,723,302.

Adams, Frank H.; and Pharis, Joe M., to Universal Oil Products Company. Process for separating olefins from saturated hydrocarbons. 3,733,261, 5-15-73, Cl. 208-310.000.

Adams, Frank S., to Procter & Gamble Company, The. Chloromethylation process. 3,723,548, 3-27-73, Cl. 260-651.0ha.

Adams, Fred C. Knee aligning instrument. 3,759,251, 9-18-73, Cl. 128-69.000.

Adams, Frederick John, to Cam Gears Limited. Rack and pinion assembly. 3,762,240, 10-2-73, Cl. 74-498.000.

Adams, Frederick John, to Cam Gears Limited. Mechanical drive transmission systems. 3,777,589, 12-11-73, Cl. 74-498.000.

Adams, Gary A.: *See—*
Brown, Gaylord W.; and Adams, Gary A., 3,759,770.

Adams, Gary V., to Thiokol Chemical Corporation. Release mechanism for flare parachute. 3,758,055, 9-11-73, Cl. 244-149.000.

Adams, George; and Hawkins, John, to United Research Laboratory. Removable magnetic head assembly with lifters fingers. 3,710,037, 1-9-73, Cl. 179-100.20r.

Adams, George Edward: *See—*
Beharrell, George David; and Adams, George Edward, 3,730,248.

Adams, Hal M.; Dunlap, Charles K., Jr.; and Harper, William M., to Sonoco Products Company. Textile yarn carrier with circumferential groove. 3,717,291, 2-20-73, Cl. 225-6.000.

Adams, Harold Elwood: *See—*
Kern, William John; Bouton, Thomas Chester; and Adams, Harold Elwood, 3,723,575.

Adams, Harold R. Valve stem seal assembly. 3,738,666, 6-12-73, Cl. 277-58.000.

Adams, Harold R. Repair flange clamp. 3,770,301, 11-6-73, Cl. 285-15.000.

Adams, Henry G. Data transmission system with immunity to circuit faults. 3,716,834, 2-13-73, Cl. 340-147.00r.

Adams, Heribert: *See—*
Koenig, Walter; Adams, Heribert; and Heidjann, Franz, 3,716,104.

Adams, Houston L.: *See—*
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Adams Industries, Inc.: *See—*
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Tilp, George E., 3,728,517.

Adams, Jack J., to Dow Chemical Company, The. Process for polymerizing styrene and maleic anhydride. 3,725,360, 4-3-73, Cl. 260-78.50r.

Adams, Jack S.: *See—*





Blakey, Alexander G.; Adams, Jack S.; and Swarts, James J., 3,711,929.

Blakey, Alexander G.; Adams, Jack S.; and Swarts, James J., 3,722,360.

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Blakey, Alexander G.; Adams, Jack S.; and Swarts, James J., 3,723,928.

Adams, James C., Jr.: *See—*
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Adams, James E.: *See—*
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., 3,779,751.
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Wysocki, Joseph J.; Adams, James E.; Becker, James H.; Madrid, Robert W.; and Haas, Werner E., 3,718,380.
Wysocki, Joseph J.; Adams, James E.; Becker, James H.; Madrid, Robert W.; and Haas, Werner E. L., 3,718,382.

Adams, James E.; and Haas, Werner E., to Xerox Corporation. Method for narrowing the bandwidth of an optical signal. 3,720,456, 3-13-73, Cl. 350-157.00p.

Adams, James E.; and Haas, Werner E. L., to Xerox Corporation. Light modulation system. 3,726,584, 4-10-73, Cl. 350-150.000.

Adams, James E.; and Haas, Werner E. L., to Xerox Corporation. Detection system. 3,744,920, 7-10-73, Cl. 356-256.000.

Adams, James E., Jr.; and Dailey, John L., to Xerox Corporation. Optical notch filter. 3,711,181, 1-16-73, Cl. 350-157.000.

Adams, James P.S.: *See—*
Batistelli, Nello; and Adams, James P.S., 3,734,357.

Adams, James S.: *See—*
Schultz, John R.; Heidacher, John W.; Sharer, John M.; Adams, James S.; and Damico, Frank M., 3,769,502.

Adams, James S., to Adams Brothers Plastic, Inc. Drawer construction including plastic drawer front. 3,767,281, 10-23-73, Cl. 312-330.000.

Adams, James William; and Hoftiezer, Henry Wilbert, to American Can Company. Builder for phosphate-free detergent compositions. 3,721,627, 3-20-73, Cl. 252-89.000.

Adams, Jerry. Coiled material dispenser. 3,709,445, 1-9-73, Cl. 242-55.200.

Adams, Jerry. Artificial holder for a floral accessory. 3,747,269, 7-24-73, Cl. 47-55.000.

Adams, Jim Mills; and Grimmell, William Charles, to Hoffmann-La Roche Inc. Machine color recognition. 3,737,239, 6-5-73, Cl. 356-177.000.

Adams, Jim Mills; and Grimmell, William Charles, to Hoffmann-La Roche Inc. Random flow counter. 3,760,166, 9-18-73, Cl. 235-92.0pk.

Adams, John, to Brown, S. G., Limited. Recoverable shock mounts. 3,734,483, 5-22-73, Cl. 267-65.000.

Adams, John A., Jr., to Stromberg-Carlson Corporation. Attendant to trunk coupler. 3,719,784, 3-6-73, Cl. 179-27.0ca.

Adams, John B., Jr., to Du Pont de Nemours, E. I., and Company. Thiadiazine fungicides and miticides. 3,777,025, 12-4-73, Cl. 424-246.000.

Adams, John F. Book supporting device. 3,740,015, 6-19-73, Cl. 248-445.000.

Adams, John H.: *See—*
Hills, Richard E.; Adams, John H.; Anderson, Lloyd E., Jr.; Bliss, Woodrow E., Jr.; Hamren, Fred W., Jr.; Honath, Harry F.; and Murphy, John C., 3,710,582.

Adams, John Howard, to Chevron Research Company. Normally solid crystalline polypropylene stabilized by aromatic esters of anthranilic acid. 3,758,437, 9-11-73, Cl. 260-45.85a.

Adams, John Howard, to Chevron Research Company. Polypropylene stabilized with substituted chalcones and flavonones. 3,772,243, 11-13-73, Cl. 260-45.80a.

Adams, John Q., IV. Support for clothes and the like. 3,732,987, 5-15-73, Cl. 211-119.130.

Adams, John R.; deceased (by United States National Bank of Oregon; executor). Apparatus for applying putty. 3,775,016, 11-27-73, Cl. 401-263.000.

Adams, Joseph H.; and Kurtz, Leonhard D., to Sutures, Inc. Method of fabricating pliable polyfilamentous plastic strands. 3,754,069, 8-21-73, Cl. 264-131.000.

Adams, Kenneth D.: *See—*
Herron, William L.; and Adams, Kenneth D., 3,739,735.

Adams, Kenneth D., to Singer Company, The. Sewing machine with hook timing and skip stitch mechanisms. 3,779,187, 12-18-73, Cl. 112-158.00r.

Adams, Ladd M.: *See—*
Scaramucci, Domer; and Adams, Ladd M., 3,741,523.

Adams, Larry D., to Metrologic Instruments Inc. Optical alignment target apparatus. 3,778,169, 12-11-73, Cl. 356-172.000.

Adams, Lawrence D.: *See—*
Brevko, Robert; Viviano, Peter; Rudman, Regis M.; and Adams, Lawrence D., 3,739,547.
Rudman, Regis M.; and Adams, Lawrence D., 3,738,079.

Adams, Leonard, Jr.: *See—*
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Adams, Leslie R., to Motor Wheel Corporation. Composite styled wheel construction. 3,756,658, 9-4-73, Cl. 301-37.00r.

Adams, Leslie R., to Motor Wheel Corporation. Molding apparatus. 3,762,677, 10-2-73, Cl. 249-56.000.

Adams, Lloyd M., to Geotel, Inc. Film drive, and cinematographic apparatus incorporating the same. 3,733,120, 5-15-73, Cl. 352-187.000.

Adams, Lowell K.; and Schump, Mike. Pallet handling apparatus. 3,744,621, 7-10-73, Cl. 198-221.000.

Adams, Lyle C., to Boeing Company, The. Feedrate control system for milling machines. 3,728,595, 4-17-73, Cl. 318-39.000.

Adams, Mitchell L. Shrimp cleaning device. 3,777,333, 12-11-73, Cl. 17-72.000.

Adams, Morris E., to General Motors Corporation. Lead acid storage battery plates and process for pasting them. 3,758,340, 9-11-73, Cl. 136-67.000.

Adams, Nicholas S.: *See—*
Lindner, Ronald J.; Lindner, Allen J.; and Adams, Nicholas S., 3,724,116.

Adams, Patrick James, to Stauffer-Wacker Silicone Corporation, mesne. Acyloxybenzoyloxysilanes. 3,718,681, 2-27-73, Cl. 260-448.20r.

Adams, Philip: *See—*
Merianos, John J.; Shay, Edward Griffin; Adams, Philip; and Petrocci, Alfonso N., 3,763,238.

Adams, Phillip: *See—*
Merianos, John J.; Shay, Edward Griffin; Adams, Phillip; and Petrocci, Alfonso N., 3,733,421.
Merianos, John J.; Shay, Edward Griffin; Adams, Phillip; and Petrocci, Alfonso N., 3,755,448.
Merianos, John J.; Shay, Edward Griffin; Adams, Phillip; and Petrocci, Alfonso N., 3,759,995.
Ramunda, Angelo J.; Adams, Phillip; Beinfest, Sidney; and Gulakowski, Thaddeus A., 3,752,697.

Adams, Phillip; Petrocci, Alfonso N.; and Merianos, John J., to Millmaster Onyx Corporation. Metal-working fluid containing a 2,4,5-trichloroaniline derivative as a microbiocide. 3,714,046, 1-30-73, Cl. 252-51.50r.

Adams, Phillip; Petrocci, Alfonso N.; and Merianos, John J., to Millmaster Onyx Corporation. Biocidal treatment of water using 2,4,5 trichloroaniline derivatives. 3,775,313, 11-27-73, Cl. 210-62.000.

Adams, Raymond J., to Curtis Nuclear Corporation. Method for determination of thyro-binding capacity of blood proteins. 3,711,247, 1-16-73, Cl. 23-230.00b.

Adams, Richard C.: *See—*
Goldman, Irving M.; O'Shea, Daniel P.; Adams, Richard C.; and Nakanishi, Susumu, 3,773,757.
Monahan, Thomas J.; and Adams, Richard C., 3,776,804.

Adams, Richard C., to Schjeldahl, G. T., Company. Method and apparatus for making a profile bag structure. 3,748,205, 7-24-73, Cl. 156-252.000.

Adams, Richard H.: *See—*
Hill, Jacques A. F.; and Adams, Richard H., 3,713,607.

Adams, Richard J.: *See—*
Brafford, Donald A.; and Adams, Richard J., 3,707,752.

Adams Rite Manufacturing Company: *See—*
Geer, Larry A., 3,727,482.

Adams, Robert B., to Moore Products Co. Fluid pressure comparator. 3,738,391, 6-12-73, Cl. 137-823.000.

Adams, Robert B., to Moore Products Co. Heat sensitive detector. 3,754,201, 8-21-73, Cl. 338-28.000.

Adams, Robert P., to Cenco Medical/Health Supply Corporation. Rotating flask culture apparatus. 3,711,379, 1-16-73, Cl. 195-127.000.

Adams, Robert W.: *See—*
Holkesvick, Edgar E.; Hudnall, John; and Adams, Robert W., 3,717,339.

Adams, Roy L.: *See—*
Anderson, Loren E.; Adams, Roy L.; and Welse, Gordon D., 3,776,660.

Adams, Stewart Sanders; Armitage, Bernard John; Nicholson, John Stuart; and Blancafort, Antonio Ribera, to Boote Company, Limited, The. 2-(Mono- and difluoro-4-biphenyl)propionic acids. 3,755,427, 8-28-73, Cl. 260-515.00a.

Adams, Stewart Sanders; Armitage, Bernard John; Bristow, Norman William; and Heathcote, Bernard Vincent, to Boote Company Limited, The. Treatment of peptic ulceration with xanthene derivatives. 3,755,593, 8-28-73, Cl. 424-283.000.

Adams, Stewart Sanders; Armitage, Bernard John; Bristow, Norman William; and Heathcote, Bernard Vincent, to Boots Company Limited, The. Anti-secretory composition containing xanthene derivatives and uses thereof. 3,755,594, 8-28-73, Cl. 424-283.000.

Adams, Stuart Sanders; Armitage, Bernard John; Bristow, Norman William; and Heathcote, Bernard Vincent, to Boots Company Limited, The. Thiaxanthene derivatives. 3,754,005, 8-21-73, Cl. 260-328.000.

Adams, Theodore P.: *See—*
Bowers, David L.; and Adams, Theodore P., 3,726,285.

Adams, Theodore P.; and Bowers, David L., to General Electric Company. Body organ stimulator function control switch. 3,738,369, 6-12-73, Cl. 128-419.00p.

Adams, Thomas Burton, Jr.: *See—*
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Adams, Victor J., to Motorola, Inc. Apparatus for equalizing the flow rate of molding compound into each of a series of mold cavities. 3,779,506, 12-18-73, Cl. 249-110.000.

Adams, Walter P.: *See—*
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Adams, Werner: *See—*
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Adams, Whitney R., to Scott Paper Company. Heat resistant and oxidation resistant structures. 3,778,336, 12-11-73, Cl. 161-168.000.

Adams, William J.; and Ferrari, Eugene A. Closed-damper indicator for fireplace. 3,708,897, 1-9-73, Cl. 40-1.000.

Adams, William J., Jr., to FMC Corporation. Convertible track system for wheeled vehicle. 3,724,580, 4-3-73, Cl. 180-9.200.

Adams, William John Campbell. Bagpipes. 3,756,112, 9-4-73, Cl. 84-380.000.

Adams, William John Pearce, to Girling Limited. Vehicle drum brakes. 3,744,595, 7-10-73, Cl. 188-79.50p.

Adams, William M., to Iowa State University Research Foundation, Inc. Method of inducing labor and parturition in animals. 3,743,730, 7-3-73, Cl. 424-243.000.

Adams, William V., to Durametallic Corporation. Mechanical seal construction. 3,765,689, 10-16-73, Cl. 277-26.000.

Adams, William V., to Durametallic Corporation. Bellows seal. 3,773,337, 11-20-73, Cl. 277-89.000.

Adams-Russell Co., Inc.: *See—*
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Adamski, Raymond. Hinge. 3,747,271, 7-24-73, Cl. 49-340.000.

Adamson, Donald; and Arthur, Frank Henry, to Envopak Limited. Security sealing device. 3,724,890, 4-3-73, Cl. 292-322.000.

Adamson, James Sidney. Continuous feed head drill assembly. 3,708,020, 1-2-73, Cl. 173-7.000.

Adank, Johannes Antonius Marie, to Stork Amsterdam N.V. Device for cutting into slabs a block of not yet entirely solidified cellular concrete or another plastic material. 3,759,366, 9-18-73, Cl. 198-33.0ad.

Adaptive Technology, Inc.: *See—*
Abramson, Carl Newton; and Jones, Douglas George, 3,718,768.
Abramson, Carl Newton; and Jones, Douglas George, 3,754,098.

ADAR (Hauts-de-Seine): *See—*
Legrandgerard, Jean Marcel, 3,779,271.

Adcock, Carolyn P.; and Stewart, Troy L. Educational and recreational device. 3,729,838, 5-1-73, Cl. 35-9.00c.

Adcock, D. L.: *See—*
Wade, Kenneth C.; and Adcock, D. L., 3,741,182.

Adcock, Gerald L., to Pacific Tooling and Engineering Company. Replaceable wear-resistant element assembly. 3,771,612, 11-13-73, Cl. 175-413.000.

Addie, Albert N.; and Freitag, Glenn W., to General Motors Corporation. Engine exhaust turbine inlet screen. 3,735,587, 5-29-73, Cl. 60-13.00r.

Addington, Conley R., Jr. Indirectly lighted panels for walls and ceilings. 3,760,179, 9-18-73, Cl. 240-106.00r.

Addis, Gilbert I.; and Fairbanks, George M., to Thomas & Betts Corporation. Method of joining concentric members. 3,739,460, 6-19-73, Cl. 29-516.000.

Addis, John L.; and Peltola, Ronald W., to Tektronix, Inc. Linear gain control. 3,710,270, 1-9-73, Cl. 330-29.000.

Addis, Kenneth J., to Deering Milliken Research Corporation. Method and apparatus for securing a continuous thread on a support surface. 3,721,599, 3-20-73, Cl. 156-394.000.

Addison, Christopher D., to Sun Oil Company of Pennsylvania. Scraper assembly for process vessels. 3,731,339, 5-8-73, Cl. 15-246.500.

Addison, Frank E., 40% to Montgomery, James Boring, 10% to Plaisance, Anatale J., 10% to Franaques, Howard L., Jr. and 5% to Arabie, Joseph, Jr. Method and apparatus for automatically controlling fluid flow. 3,749,126, 7-31-73, Cl. 137-613.000.

Addison, Frank F. Surface controlled blowout arrester. 3,716,068, 2-13-73, Cl. 137-67.000.

Addmaster Corporation: *See—*
Berry, William A., 3,732,387.
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Addor, Roger Williams; and Drabb, Thomas Walter, Jr., to American Cyanamid Company. Aralkylthiovinyl phosphorothioates. 3,718,718, 2-27-73, Cl. 260-948.000.

Addor, Roger Williams; and Ailman, David Edgar, to American Cyanamid Company. Bisphosphorylated imidodithiocarbonates and methods for their preparation. 3,719,700, 3-6-73, Cl. 260-455.00p.

Addor, Roger Williams; and Ailman, David Edgar, to American Cyanamid Company. Method for utilizing bisphosphorylated imidodithiocarbonates as insecticides or arachnicides. 3,719,757, 3-6-73, Cl. 424-204.000.

Addor, Roger Williams; and Lamb, Glentworth, to American Cyanamid Company. Thiosemicarbazones. 3,761,492, 9-25-73, Cl. 260-327.00m.

Addor, Roger Williams; and Wagner, Frank Albert, Jr., to American Cyanamid Company. Oximecarbamate pesticidal compositions and their use. 3,767,808, 10-23-73, Cl. 424-298.000.

Addressograph-Multigraph Corporation: *See—*
Ackerman, Francis R., 3,735,701.
Arena, Ronald D., 3,738,834.
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Baltazzi, Evan S.; and Printy, Helen C., 3,743,509.
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Abbe, Robert C., 3,775,679.

ADEC Corporation: *See—*
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Adee, Raymond A.; Brooks, Dean P.; and Anderson, John Dale, to Hesston Corporation. Stack forming loader. 3,732,672, 5-15-73, Cl. 56-13.300.

Adee, Raymond A.; Brooks, Dean P.; and Anderson, John Dale, to Hesston Corporation. Stack forming loader. 3,779,158, 12-18-73, Cl. 100-250.000.

Adegeest, Marco, to Corodex N.V. Apparatus for the purification of waste water. 3,741,392, 6-26-73, Cl. 210-180.000.

Adelhed, Ter Je, to Siemens Aktiengesellschaft. Sleeve for measuring blood pressure. 3,760,795, 9-25-73, Cl. 128-2.05c.

Adelizzi, Richard S., to Westinghouse Electric Corporation. Fabricated labyrinth seal structure. 3,720,419, 3-13-73, Cl. 277-53.000.

Adelizzi, Richard S.; and Laurelli, James A., to Westinghouse Electric Corporation. Combustion chamber support structure. 3,742,704, 7-3-73, Cl. 60-39.310.

Adelizzi, Richard S.; and Laurelli, James A., to Westinghouse Electric Corporation. Static seal structure. 3,750,398, 8-7-73, Cl. 60-39.370.

Adelliker, Hans Peter: *See—*
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Adelman, Robert Leonard, to Du Pont de Nemours, E. I., and Company. Ethylene-vinyl acetate-allyl glycidyl ether terpolymer with polyvinyl chloride. 3,723,570, 3-27-73, Cl. 260-836.000.

Adelman, Robert Leonard, to Du Pont de Nemours, E. I., and Company. Conductive systems. 3,746,662, 7-17-73, Cl. 252-513.000.

Adelman, Robert Leonard, to Du Pont de Nemours, E. I., and Company. Cyanide zinc electroplating. 3,769,183, 10-30-73, Cl. 204-55.00y.

Adelmann, Hans-Jurgen: *See—*
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Adelsberger, Klaus; Hahn, Erwin; and Scheuermann, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Pyrazoline derivatives. 3,753,978, 8-21-73, Cl. 260-239.900.

Adenis, Daniel J., to Compagnie Pechiney. Process for the production of composite sheets. 3,717,513, 2-20-73, Cl. 148-11.50a.

Ader, Gary B.: *See—*
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Adey, George R.; and Souder, Wilmer, Jr., to Denton Plastic Products Corporation. Apparatus for continuously making pearlescent plastic sheeting. 3,736,090, 5-29-73, Cl. 425-224.000.

Adey, John S., Jr.; Collins, John T.; and Cino, Peter M., to Bucket Elevator Company, The. Conveyor system. 3,756,382, 9-4-73, Cl. 198-198.000.

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Agnew, Boyd F. Clean air system for hospital operating rooms. 3,721,067, 3-20-73, Cl. 55-97.000.

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Agnew, Thomas I., to Gulton Industries, Inc. Ground continuity monitoring system. 3,728,582, 4-17-73, Cl. 317-18.00c.

Agnone, Frank A. Universal dental extraction forceps. 3,754,331, 8-28-73, Cl. 32-62.000.

Agnone, John L.; Fister, Robert V.; and Sheppard, Jon C., to Eastman Kodak Company. Sputtering apparatus with accordion pleated anode means. 3,767,559, 10-23-73, Cl. 204-298.000.

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Agostinelli, Armand J., to Dart Industries, Inc. Dual finish surgeon's glove and method of making same. 3,740,262, 6-19-73, Cl. 117-94.000.

Agranat, Edward A., to Romicon, Inc., mesne. Filtration device. 3,722,694, 3-27-73, Cl. 210-321.000.

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Agrawal, Govind M.: *See—*
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Agrest, Jacobo. Firing chamber for the combustion of gaseous, liquid or fine-granular fuel. 3,718,122, 2-27-73, Cl. 122-149.000.

Agrest, Jacobo. Steam generator having at least one combustion chamber for burning solid, liquid and/or gaseous fuels. 3,736,907, 6-5-73, Cl. 122-2.000.

Agrico Chemical Company, mesne: *See—*
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Aguadisch, Leon; and Mistou, Michel, to Produits Chimiques Pechiney-Saint-Gobain. Trichloroethylene emulsion based cleaning composition. 3,764,545, 10-9-73, Cl. 252-171.000.

Aguet, Emile, to Sulzer Brothers Limited. Gas/steam turbine plant and a method of operating same. 3,756,029, 9-4-73, Cl. 60-39.18b.

Agui, Hideo: *See—*
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Aguilar, Henry. Suspendiable support for articles and method. 3,709,373, 1-9-73, Cl. 211-113.000.

Aguirre, Jose-Maria Sistiaga; Diaz, Marcelino Torralba; Arribas, Juan-Jose Regidor; and Caride, Miguel Abalie, to Patronato de Investigacion Cientifica Y Tecnica "Juan de la Cierva" Del Consejo Superior de Investigaciones. Process for increasing the mechnical resistance of elements manufactured in alloys of lead and antimony. 3,759,752, 9-18-73, Cl. 148-3.000.

Aguirre, Michael C., to Honeywell Information Systems, Inc. Phase locked oscillator for integer pulse rates. 3,753,143, 8-14-73, Cl. 331-8.000.

Aguirre, Michael C., to Honeywell Information Systems, Inc. Data recovery system having tracking sampling window. 3,755,798, 8-28-73, Cl. 340-174.10h.

Agusa, Kazuo; and Akahide, Kozo, to Kawasaki Steel Corporation. Multiple-wire single-pass submerged-arc welding method for thick plates. 3,748,429, 7-24-73, Cl. 219-73.000.

Agusta, Benjamin; and Lubart, Eneil D., to International Business Machines Corporation. Method of fabricating lateral transistors and complementary transistors. 3,713,908, 1-30-73, Cl. 148-175.000.

Agusta, Benjamin; Bardell, Paul H.; Castrucci, Paul P.; Henle, Robert A.; and Pecorato, Raymond P., to International Business Machines Corporation. Menolithic integrated structure including fabrication and packaging therefor. 3,731,375, 5-8-73, Cl. 29-577.00.

Agusta, Benjamin; and Chang, Joseph J., to International Business Machines Corporation. Storage system having heterojunction-homojunction devices. 3,740,620, 6-19-73, Cl. 317-235.00r.

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Ahamed, Syed Vickar, to Bell Telephone Laboratories, Incorporated. Field-accessed, single-wall domain apparatus utilizing interacting shift register loops. 3,774,153, 11-20-73, Cl. 340-146.1al.

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Ahearn, Thomas P.; Capowski, Robert S.; Christensen, Neal T.; Gannon, Patrick M.; Lee, Arlin E.; and Liptay, John S., to International Business Machines Corporation. Virtual memory system. 3,781,808, 12-25-73, Cl. 340-172.00s.

Ahearn, William E.; Almasi, George Stanley; and Genovese, Eugene Ronald, to International Business Machines Corporation. High-density magneto-optic readout apparatus. 3,729,724, 4-24-73, Cl. 340-174.0yc.

Ahern, Charles J.; Datwyler, Walter F.; and Presley, Rex W., to Bendix Corporation, The. Fluid stepper motor. 3,779,673, 12-18-73, Cl. 418-61.000.

Ahern, Ronald Albert: *See—*
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Ahern, William W., to Geometrics, Inc. Flexible structural panel. 3,740,903, 6-26-73, Cl. 52-81.000.

Ahl, Nils Goran: *See—*
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Ahl, Nils Goran; and Larsson, Lars Herbert, to Conrail AB. Weighing device. 3,714,997, 2-6-73, Cl. 177-136.000.

Ahl, Nils Goran, to Transcale AB. Concrete weigh bridge. 3,770,068, 11-6-73, Cl. 177-134.000.

Ahlberg, Armand, to Aktiebolaget Svenska Flaktfabriken. Arrangement at ventillation installations in rooms with high air comfort requirements. 3,726,202, 4-10-73, Cl. 98-32.000.

Ahlborn, George H.: *See—*
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Ahlborn, John C.: *See—*
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Ahle, James L., to Gulf Research & Development Company. Protection of wheat and grain sorghum from herbicidal injury. 3,719,466, 3-6-73, Cl. 71-88.000.

Ahlegian, Otto A. Optical hole film punch. 3,763,730, 10-9-73, Cl. 83-521.000.

Ahlen, Dan Ragnar, to Aktiebolaget Volvo. Device for cleaning the glass on vehicle headlights. 3,736,617, 6-5-73, Cl. 15-250.220.

Ahlen, Karl Gustav, to S.R.M. Hydromekanik AB. Hydrodynamic torque converters. 3,717,996, 2-27-73, Cl. 60-327.000.

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Ahlgren, Nils Harald; and Jahr, Odd, to Uddemann Byggteknik AB. Gripping device. 3,776,586, 12-4-73, Cl. 294-102.00r.

Ahlquist, Harry Richard, to Erie Development Company. Adjustable skip bridge valving mechanism for disc filter. 3,724,668, 4-3-73, Cl. 210-331.000.

Ahlquist, Norman C.; and Charlson, Robert J., to Battelle Developement Corporation, The. Analog circuits for calculating relative humidity from dew point and dry bulb temperature information. 3,719,810, 3-6-73, Cl. 235-151.300.

Ahlstone, Arthur G., to Vetco Offshore Industries, Inc. Marine riser liner apparatus and methods of installing such apparatus. 3,721,292, 3-20-73, Cl. 166-.500.

Ahlstone, Arthur G.; and Larralde, Edward, to Vetco Offshore Industries, Inc. Compensating and sensing apparatus for well bore drilling vessels. 3,721,293, 3-20-73, Cl. 166-.500.

Ahlstone, Arthur G., to Vetco Offshore Industries, Inc. Light weight marine riser pipe. 3,768,842, 10-30-73, Cl. 285-55.000.

Ahlstrand, Richard G. Model house. 3,751,848, 8-14-73, Cl. 46-19.000.

Ahlstrom, A., Osakeyhtio: *See—*
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Ahlstrom, John F.: *See—*
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Ahlvers, Dieter, to Kabel- und Metallwerke Gutchoffnungshutte Aktiengesellschaft. Apparatus for the production of helically corrugated metal tubing. 3,732,717, 5-15-73, Cl. 72-77.000.

Ahmad, Bashir, to Canadian Westinghouse Company, Limited. Agitator structure for centerpost agitator washing machines. 3,726,114, 4-10-73, Cl. 68-134.000.

Ahmad, Iqbal, to United States of America, Army. Process for forming composite material by electrodeposition under the influence of a centrifugal force field. 3,716,461, 2-13-73, Cl. 204-16.000.

Ahmad, Khurshid: *See—*
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Ahmed, Adel Abdel Azia, to RCA Corporation. Triggered flip-flop. 3,737,682, 6-5-73, Cl. 307-291.000.

Ahmed, Adel Abdel Aziz, to RCA Corporation. Low voltage reference circuit. 3,757,137, 9-4-73, Cl. 307-235.00r.

Ahmed, Mushtaq; and Glazer, Sydney, to National Cash Register Company, The. Carrier detection circuit. 3,746,993, 7-17-73, Cl. 325-320.000.

Ahmed, Samir A.: *See—*
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Ahmedabad Manufacturing and Calico Printing Co., Ltd.: *See—*
Dutta, Subodh Krishna; Shah, Krishnakant Girdharla; and Setalvad, Jagdish Ishwarlal, 3,716,326.

Ahmer, Carl W. Drink caddy. 3,761,044, 9-25-73, Cl. 248-311.000.

Ahmling, Macrus P. Skid pallet. 3,779,571, 12-18-73, Cl. 280-19.000.

Ahn, Junghi; Dewitt, David; Johnson, William S.; and Kleinfelder, Walter J., to International Business Machines Corporation. Proton enhanced diffusion methods. 3,756,862, 9-4-73, Cl. 148-1.500.

Ahnsorge, Jurgen, to Schwarzkopl, Hans, GmbH. Device for testing the tightness of containers. 3,757,587, 9-11-73, Cl. 73-45.400.

Ahonen, George Harvey, to Combustion Engineering, Inc. No-weld refractory covering for water cooled pipes. 3,781,167, 12-25-73, Cl. 432-234.000.

Ahr, Robert L.: *See—*
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Rhodes, Philip H.; and Ahr, Robert L., 3,759,856.

Ahramjian, Leo, to Du Pont de Nemours, E. I., and Company. Safety glass. 3,711,364, 1-16-73, Cl. 161-190.000.

Ahrenberg, Kurt. Apparatus for moistening mixable materials. 3,727,894, 4-17-73, Cl. 259-154.000.

Ahrend, Mary E. Solid waste incinerator and process. 3,713,402, 1-30-73, Cl. 110-8.00r.

Ahrendt & Birkendahl HG: *See—*
Ahrendt, Heinrich; and Birkendahl, Karl oHG, 3,778,220.

Ahrendt, Heinrich; and Birkendahl, Karl oHG, to Ahrendt & Birkendahl HG. Apparatus and method for shrinking plastic sheet material about stacked goods. 3,778,220, 12-11-73, Cl. 432-5.000.

Ahrens, Erhard; Prill, Christian; and Wendorff, Hans H., to Electroacustic GmbH. Method and system for the positionally correct recording of two echo signals from respective echo soundings taken in mutually opposed sounding directions. 3,735,334, 5-22-73, I. 340-3.00r.

Ahrens, Gerhard W. Method of preparing high concentration calcium ascorbate reaction products and products produced by same. 3,755,592, 8-28-73, Cl. 424-280.000.

Ahrens, Kurt-Henning: *See—*
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Ahrens, Paul Raymond; and Bean, Jerome Benjamin, Jr., to RCA Corporation. High voltage hold down circuit for horizontal deflection circuit. 3,749,966, 7-31-73, Cl. 315-27.0td.

Ahrens, Paul Raymond, to RCA Corporation. High voltage regulator. 3,767,960, 10-23-73, Cl. 315-27.0td.

Ahrland, Sten Harald; Carleson, Bengt Goran Fredrik; and Lindhe, Jarl Soren, to Aktiebolaget Atomenergi. Method of purifying water. 3,730,886, 5-1-73, Cl. 210-37.000.

Ahroni, Lee: *See—*
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Ahrweiler, Karl-Heinz, to Kuesters, Eduard, Maschinenfabrik. Method and apparatus for treating a moving web of material. 3,718,427, 2d27-73, Cl. 8-151.000.

Ai, Mitsuo: *See—*
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A.I. Welders Limited: *See—*
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Aiba, Fumio: *See—*
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A.I.C. Approvirgionamenti Industriali Chemici S.p.A.: *See—*
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Aicheles Associates, Inc.: *See—*
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Aichenegg, Paul C.: *See—*
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Emerson, Carl D.; and Aichenegg, Paul C., 3,742,046.
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Aichenegg, Paul C.; and Thornhill, Richard A., to Raychem Corporation, mesne. Methods of combatting fungi, nematodes and insects with sulfinyl thiol- and dithiophosphates. 3,708,582, 1-2-73, Cl. 424-208.000.

Aichenegg, Paul C.; and Thornhill, Richard A., to Chemagro Corporation. Carbalkoxyalkane sulfinic acid halides and esters. 3,726,884, 4-10-73, Cl. 260-481.00r.

Aichenegg, Paul C.; and Bain, Larry M., to Chemagro Corporation. Sulfinyl chlorides. 3,769,340, 10-30-73, Cl. 260-543.00r.

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Aid Corporation, The: *See—*
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Aid For Business, Incorporated: *See—*
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Aida Engineering Ltd.: *See—*
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Aida, Takemi: *See—*
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Aidlin Automation, Inc.: *See—*
Aidlin, Samuel S.; Aidlin, Stephen H.; and Rich, David, 3,722,659.

Aidlin, Samuel S.; Aidlin, Stephen H.; and Rich, David, to Aidlin Automation, Inc. Apparatus for orienting and feeding bottles, or like articles. 3,722,659, 3-27-73, Cl. 198-33.0ac.

Aidlin, Stephen H.: *See—*
Aidlin, Samuel S.; Aidlin, Stephen H.; and Rich, David, 3,722,659.

Aiello, Victor S.; Albanese, Joseph P.; Anderson, Robert V.; and Platt, Frank. Separating apparatus. 3,753,492, 8-21-73, Cl. 210-96.000.

Aigenson, Alexandr Sergeevich; Fryazinov, Vladimir Vasilievich; Malikov, Fatkulla Khairullovich; Sabadash, Julia Sergeevna; Akimov, Vladimir Stefanovich; Dobrozrakova, Natalia Ivanovna; Berg, Genrikh Arturovich; Ezhov, Boris Mikhailovich; Vorms, Georgy Alonsovich; Kubicka, Rudolf; Yaroslav, Veprek; and Cir, Yaroslav, to Bashkirsky Nauchno-Issledovatelsky Institut Po. Method of processing heavy sulfur bearing petroleum residues into low-sulfur motor and boiler plant fuels. 3,714,025, 1-30-73, Cl. 208-86.00.

Aihara, Wataru; and Kawamoto, Takashi, to Shimadzu Seisakusho Ltd. Electronic yarn cleaner. 3,748,707, 7-31-73, Cl. 38-64.000.

All Systems: *See—*
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Aika, Ken-Ichi: *See—*
Ozaki, Atsumu; Aika, Ken-Ichi; Furuta, Akio; and Okagami, Akio, 3,770,658.

Aikawa, Satoru: *See—*
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Aiken, Vivian C.: *See—*
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Aiken, William Ross: *See—*
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Aiken, William Ross, to Display Technology Corporation. Liquid crystal display device having an inclined rear reflector. 3,734,598, 5-22-73, Cl. 350-160.20c.

Aiken, Winthrop J., to Aiken, Vivian C. Fluid pressurizable swab applicator for medicament, antiseptic or the like. 3,757,782, 9-11-73, Cl. 128-269.000.

Aiki, Shigeo; Kito, Masahior; and Ueda, Atumi, to Aisin Seiki Kabushiki Kaisha. Control valve. 3,712,057, 1-23-73, Cl. 60-54.50p.

Aiko, Hideo; Okamoto, Takao; Abe, Eiji; Tsukihashi, Kazunobu; and Yamashita, Koichi, to Shinko Electric Co., Ltd. and Kobe Steel Ltd. Method and device for marking sheets through stencils. 3,777,661, 12-11-73, Cl. 101-114.000.

Aikoh Co., Ltd.: *See—*
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Aikoh Co., Ltd., mesne: *See—*
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Aileo, Jackson A., to Sentex Corporation. Safety helmet with retractable eye shield. 3,748,657, 7-31-73, Cl. 2-6.000.

Aillet, Claude, to Societe Lanniionnaise d'Electronique. Pulse-response measuring apparatus. 3,781,668, 12-25-73, Cl. 324-57.00r.

Ailman, David Edgar: *See—*
Addor, Roger Williams; and Allman, David Edgar, 3,719,700.
Addor, Roger Williams; and Ailman, David Edgar, 3,719,757.

Ailman, David Edgar, to American Cyanamid Company. 4-(Dichloromethyl) cinnoline and process. 3,749,718, 7-31-73, Cl. 260-250.00a.

Ailshie, Roger H., to Cross Manufacturing, Inc. Combined open-center pressure control and regeneration valve. 3,771,558, 11-13-73, Cl. 137-596.130.

Aimo, Karl H.; and Baker, Philip G., to Polaroid Corporation. Lens shade. 3,759,153, 9-18-73, Cl. 95-11.00r.

Aine, Harry E.: *See—*
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Aine, Harry E. Microwave applicator. 3,710,063, 1-9-73, Cl. 219-10.550.

Aine, Harry E. Exhaust emission control means for internal combustion apparatus. 3,739,553, 6-19-73, Cl. 55-158.000.

Ainoura, Masato, to Tsukihoshi Gomu Kabushiki Kaisha and Kabushiki Kaisha Kashifuji Tekkosho. Screw-shaped gear hone and method of forming and using the same. 3,708,925, 1-9-73, Cl. 51-206.00p.

Ainoura, Masato, to Tsukihoshi Gomu Kabushiki Kaisha and Kabushiki Kaisha Kashifuji Tekkosho. Method of honing gear teeth with a resilient worm-shaped hone. 3,740,904, 6-26-73, Cl. 51-287.000.

Ainscough, John Brian: *See—*
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Ainsley-Park Industries Ltd.: *See—*
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Ainslie, Robert E.: *See—*
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Ainsworth, John Desmond, to English Electric Company Limited, The. Power system simulators. 3,775,603, 11-27-73, Cl. 235-185.000.

Ainsworth, Oliver C., Jr.; Lochary, Joseph E.; and Stain, Shelton D., Jr., to Dow Chemical Company, The. Process for improving the color of Ziegler olefin polymers. 3,773,743, 11-20-73, Cl. 260-94.90f.

Ainsworth, Richard: *See—*
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Ainsworth, Sheldon E. Meat flavoring syringe. 3,777,655, 12-11-73, Cl. 99-532.000.

Aintablian, Avedis A., to International Systems Management. Use of composted refuse to make construction products. 3,734,988, 5-22-73, Cl. 264-82.000.

Ainvarg, Arkady Semenovich. Inductor machine. 3,767,950, 10-23-73, Cl. 310-168.000.

Air Advantage (Australia) Pty., Limited: *See—*
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Air Conditioning Corporation: *See—*
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Air Guard Inc.: *See—*
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Akiyama, Jiro, to Kanayawa Kiki Kogyo Co., Ltd. Automatic continuously backflow washing-type filter. 3,734,299, 5-22-73, Cl. 210-333.000.

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Albers, Walter A., Jr.; and Swets, Don E., to General Motors Corporation. Abrasive composition of tetragonal germanium dioxide. 3,751,237, 8-7-73, Cl. 51-309.000.

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Albert, William C., to Singer Company, The. Accelerometer having a liquid proof mass. 3,771,371, 11-13-73, Cl. 73-516.01m.

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Alberti, John, to Boeing Company, The. Cargo handling system side locking device. 3,741,508, 6-26-73, Cl. 248-119.00r.

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Albrecht, Adolf; Von Borcke, Ulruch; Hini, Paul; and Hieronymus, Hans, to Siemens Aktiengesellschaft. Contactless program monitor. 3,720,901, 3-13-73, Cl. 338-32.00r.

Albrecht, Cord, to Siemens Aktiengesellschaft. Device for separating gas bubbles from a liquid. 3,761,852, 9-25-73, Cl. 336-58.000.

Albrecht, David E., mesne: *See—*
Albrecht, David Eugene, 3,740,167.

Albrecht, David Eugene, to Albrecht, David E., mesne and Jensen, Raymond H., mesne. Hydraulic system. 3,740,167, 6-19-73, Cl. 417-218.000.

Albrecht, Ernst, to Pfaff Industriemaschinen GmbH. Tension device for needlethread of a sewing machine. 3,738,298, 6-12-73, Cl. 112-254.000.

Albrecht, Francis E.; Baxter, William D.; De Michiel, John; Duggan, Robert J.; Greenblum, Carl; Grosky, Stephen A.; and Langer, Arthur, to Bunker Ramo Corporation, The. Raster control device for controlling the positioning of the raster at the beginning ofeach new line. 3,742,288, 6-26-73, Cl. 315-18.000.

Albrecht, Francis W.; Baxter, William D.; Duggan, Robert J.; and Grosky, Stephen A., to Bunker Ramo Corporation, The. Method and apparatus for generating a traveling display. 3,742,482, 6-26-73, Cl. 340-324.0ad.

Albrecht, George O.; and Nead, Thomas E., to Cincinnati Milacron Inc. Velocimeter. 3,714,538, 1-30-73, Cl. 321-1.000.

Albrecht, Harry Allen; and Plati, John Thomas, to Hoffmann-La Roche Inc. Intermediates. 3,755,410, 8-28-73, Cl. 260-465.600.

Albrecht, Helmut: *See—*
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Albrecht, Konrad, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Stabilized pesticidal wettable powder formulations. 3,718,454, 2-27-73, Cl. 71-106.000.

Albrecht, Richard E.; and Reeder, Terrence L., to Eastman Kodak Company. Film marking system. 3,757,653, 9-11-73, Cl. 95-1.100.

Albrecht, Robert J.; Griner, Arthur J.; and Hoagland, Frank V. N., to Nabisco, Inc. Continuous motion packaging machine. 3,719,019, 3-6-73, Cl. 53-159.000.

Albrecht, Rudolf: *See—*
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Albrecht, Rudolf; Schroder, Eberhard; and Muftic, Mahmoud, said Albrecht and said Schroder assors. to Schering A.G. 5-Nitro-furfurylidene antimicrobic agents. 3,716,531, 2-13-73, Cl. 260-240.00a.

Albrecht, Rudolf; Kessler, Jans-Joachim; and Schroder, Eberhard, to Schering AG. Tetrahydro-oxofuro quinolinecarboxylic acid derivatives. 3,773,769, 11-20-73, Cl. 260-287.00r.

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Albrecht, Werner, to Klockner-Werke AG. Connecting means. 3,722,846, 3-27-73, Cl. 248-357.000.

Albrecht, Wilhelm, to Daimler-Benz Aktiengesellschaft. Shifting lever for motor vehicle transmissions. 3,757,599, 9-11-73, Cl. 74-473.000.

Albrecht, William L.; Fleming, Robert W.; and Horgan, Stephen W., to Richardson-Merrell, Inc. Bis-basic ethers and thioethers of dibenzothiophene. 3,720,680, 3-13-73, Cl. 260-293.570.

Albright & Wilson Limited: *See—*
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Holker, Kenneth Urmston, 3,778,358.
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Albright, Charles Jere. Method for pressurized cooking of food in high-temperature non-aqueous liquid. 3,734,744, 5-22-73, Cl. 99-107.000.

Albright, Charles Jere; Fitch, Clifford E., Sr.; and Fitch, Clifford E., Jr. Method for closing the opening of a food cooking receptacle. 3,778,524, 12-11-73, Cl. 426-230.000.

Albright, Donald E., to Minnesota Mining and Manufacturing Company. Electrical circuit for providing and maintaining a binary signal change in response to a predetermined change in a sensed analog condition. 3,712,991, 1-23-73, Cl. 307-252.00f.

Albright, James A.: *See—*
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Dorschner, Kenneth P.; and Albright, James A., 3,767,818.

Albright, James A.; and Dorschner, Kenneth P., to SCM Corporation. Meta-ureidophenoxyalkyl carbamates. 3,767,699, 10-23-73, Cl. 260-482.00c.

Albright, Jay Donald: *See—*
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Morlock, Elizabeth Benz; Albright, Jay Donald; and Goldman, Leon, 3,741,992.

Albright, Richard W. Duplex visor. 3,748,658, 7-31-73, Cl. 2-10.000.

Albright, Robert L., to Rohm & Haas Company. Porous polymers with ionic functional groups based on polyfunctional methacrylates. 3,767,600, 10-23-73, Cl. 260-2.20r.

Alburger, James R. Inspection penetrant development process employing fusible waxes. 3,715,227, 2-6-73, Cl. 117-37.00r.

Alburger, James R. Inspection penetrant process and composition for aiding removal of excess penetrant from test part surfaces. 3,751,970, 8-14-73, Cl. 73-36.000.

Alburger, James R. Method and means of selective removal of background indications in stabilized water-washable inspection penetrant processes. 3,770,957, 11-6-73, Cl. 250-71.00t.

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Alburn, Harvey E.; and Fletcher, Horace, III, to American Home Products Corporation. Cyclopentene derivatives. 3,714,248, 1-30-73, Cl. 260-557.00r.

Alburn, Harvey E.; and Fletcher, Horace, III, to American Home Products Corporation. 1,3-diazaspiro[4,4]non-7-ene-2,4-dione. 3,716,553, 2-13-73, Cl. 260-309.500.

Alburn, Harvey E.; and Dvonch, William, to American Home Products Corporation. Carbamates of norbornanes. 3,734,949, 5-22-73, Cl. 260-482.00b.

Alburn, Harvey E.; and Fletcher, Horace, III, to American Home Products Corporation. 3-Oxa-1-azaspiro[4,4]non-7-ene-2,4-dione and derivatives thereof. 3,769,296, 10-30-73, Cl. 260-307.00b.

Alburn, Harvey E.; and Grant, Norman H., to American Home Products Corporation. N-indolylethyl substituted amides of 1-aminocyclo-pentanecarboxylic acid. 3,770,771, 11-6-73, Cl. 260-326.14r.

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Alcivar, Ernesto A., to Johnson, Dennis J. and McCarthy, Brian N. Tissue conduction microphone utilized to activate a voice operated switch. 3,746,789, 7-17-73, Cl. 179-1.0vc.

Alco Standard Corporation: *See—*
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Alcotronics Corporation: *See—*
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Alcott, Frederick S. Exhaust combustion system. 3,741,730, 6-26-73, Cl. 23-277.00c.

Alcott, Graham J.; Bennett, Ian M.; and Secrest, Gerald R., to Fairchild Camera and Instrument Corporation. Graded impurity profile in epitaxial films to improve integrated circuit performance. 3,737,347, 6-5-73, Cl. 148-17.500.

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Aldape, Tony M.; and Aldape, Frank. Champer hitch extension. 3,730,556, 5-1-73, Cl. 280-500.000.

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Aldenhoven, Chislanus Matheus Anthonius Maria, to U.S. Philips Corporation. Tape recorder control with shaft rotation sensing mechanism for actuating switch. 3,737,600, 6-5-73, Cl. 200-61.390.

Alder, Hanspeter, to Du Pont de Nemours, E. I., and Company. Self-sealing battery with nonaqueous electrolyte. 3,752,704, 8-14-73, Cl. 136-6.00b.

Alder, Hanspeter, to Du Pont de Nemours, E. I., and Company. Metallurgically bonded lithium/conductive metal electrode. 3,756,789, 9-4-73, Cl. 29-194.000.

Alderfer, Sterling W. Pneumatic tire without bead reinforcement rings. 3,712,362, 1-23-73, Cl. 152-361.000.

Alderfer, Sterling W., to Steelastic Company, The. Helically formed filaments particularly adapted for reinforcing elastomeric fabric, method and apparatus for producing same. 3,763,683, 10-9-73, Cl. 72-77.000.

Alderfer, Sterling W., to Steelastic Company, The. Reinforced tire fabric of helically formed, laterally spaced, single filament wire. 3,778,329, 12-11-73, Cl. 161-47.000.

Alderman, Roy. Denture adherence device. 3,745,652, 7-17-73, Cl. 32-3.000.

Alders, Lucas; and Zaal, Pieter; deceased (by Zaal, Gijsberdina M., nee Weverling; personal representative), to Shell Oil Company. Process for the removal of acidic gases from a gas mixture. 3,760,564, 9-25-73, Cl. 55-48.000.

Alderson, John M. Compressed air spear projecting device. 3,780,720, 12-25-73, Cl. 124-11.00a.

Alderson Research Laboratories, Inc.: *See—*
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Alderson, Thomas; and Newman, James A., to Du Pont de Nemours, E. I., and Company. Artificial playing surface. 3,740,303, 6-19-73, Cl. 161-67.000.

Alderson, Thomas, to Du Pont de Nemours, E. I., and Company. Process for imparting flame resistance to drawn polyamide filaments. 3,772,067, 11-13-73, Cl. 117-136.000.

Alderton, Howard Kenneth, to Cam Gears Limited. Braking systems. 3,776,607, 12-4-73, Cl. 303-22.00r.

Aldinger, Ulrich, to Bosch, Robert, G.m.b.H. Variable volume hydraulic apparatus. 3,747,477, 7-24-73, Cl. 91-497.000.

Aldinger, Ulrich, to Bosch, Robert, G.m.b.H. Pump pressure and flow volume regulating apparatus. 3,756,749, 9-4-73, Cl. 417-220.000.

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Aldous, Maurice William; and Hitchcock, John Clement. Mixing and supply arrangement for feeding liquid feedstock. 3,720,185, 3-13-73, Cl. 119-51.110.

Aldred, John Phillip; Bastian, James Winslow; and Kleszynski, Richard Raymond, to Armour Pharmaceutical Company. Methods for obtaining diuresis. 3,769,405, 10-30-73, Cl. 424-177.000.

Aldrich, Billy R.; Cooper, Charles R.; and Rasquin, John R., to United States of America, National Aeronautics and Space Administration. Underwater space suit pressure control regulator. 3,720,208, 3-13-73, Cl. 128-142.500.

Aldrich, Charles A.; and Land, Karl M., to Cities Service Oil Company. Forward looking sonic wellbore inspector. 3,735,338, 5-22-73, Cl. 340-18.00r.

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Hopps, Harvey B.; Jackman, Dennis; and Biel, John H., 3,751,390.

Aldrich, Fredric C., to General Motors Corporation. Pitch suppressing system. 3,774,935, 11-27-73, Cl. 280-124.00f.

Aldrich, Paul Edward; and Hermann, Edward Charles. Compositions and methods of use for preventing pregnancy in warm-blooded animals using 4-phenyl-bicyclo 2.2.2 octane, and oct-2-ene,-1-carboxylates. 3,708,588, 1-2-73, Cl. 424-317.000.

Aldrich, Walter S., to Brady, W. H., Co. Adhesive tape dispenser package. 3,743,086, 7-3-73, Cl. 206-52.00r.

Aldrich, William E., to Warnaco Inc. Ear resistant garments and method and composition for production thereof. 3,763,078, 10-2-73, Cl. 260-33.40f.

Aldridge, Clyde L.: *See—*
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Aldridge, Clyde L.; Buben, David; and Goldberg, Ronald S., to Esso Research and Engineering Company. Hydrogen production by catalytic steam gasification of carbonaceous materials. 3,740,193, 6-19-73, Cl. 48-202.000.

Aldridge, Clyde L., to Esso Research and Engineering Company. Low temperature shift reaction involving an alkali metal compound and a hydrogenation-dehydrogenation component. 3,755,556, 8-28-73, Cl. 423-655.000.

Aldridge, Lionel Dennis, to AMP Incorporated. Threaded electrical connections. 3,717,839, 2-20-73, Cl. 339-95.00r.

Aldrop, Lanneau Frazier: *See—*
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Alef, Philip M. Masking devices. 3,752,304, 8-14-73, Cl. 206-58.000.

Aleksoff, Carl C., to Battelle Development Corporation, The, mesne. Time average holographic construction techniques using a modulated beam. 3,762,215, 10-2-73, Cl. 73-71.300.

Alelio, Gaetano F. D. Reactive hydroxyalkyl-onium catalysts for synthesis of polyoxazolidones. 3,721,650, 3-20-73, Cl. 260-47.0ep.

Alelio, Gaetano F. D. Polybenzimidazoles and method of preparation. 3,763,107, 10-2-73, Cl. 260-72.500.

Alesi, John A., to Formex Manufacturing, Inc. Apparatus of vacuum forming. 3,779,687, 12-18-73, Cl. 425-383.000.

Alessio, Aldo M., to California Pellet Mill Company. Traversing roll type extruder. 3,743,462, 7-3-73, Cl. 425-192.000.

Alessio, Dino, to H.G. Enterprises. Heel and ankle protector. 3,721,237, 3-20-73, Cl. 128-149.000.

Alessio, Eugene T. Animal cage. 3,731,657, 5-8-73, Cl. 119-17.000.

Alessio, Ralph D., to Tele-Conn Enterprises, Inc. Burner ignition control system. 3,762,856, 10-2-73, Cl. 431-66.000.

Alessio, Robert M.; Palmer, Myron N.; and Puzniak, Thomas J., to Gulf Research & Development Company. Analyzer for third elements in a hydrocarbon sample. 3,774,027, 11-20-73, Cl. 250-363.000.

Alessio, Sergio A.; and Chow, Weichien, to Bunker-Ramo Corporation, The. Numerically controlled automatic wiring system. 3,710,441, 1-16-73, Cl. 29-624.000.

Alessio, Sergio A.; Chow, Weichien; Kosem, Marion; and Valach, Charles F., to Bunker-Ramo Corporation, The. Combined component and interconnection module and method of making. 3,761,770, 9-25-73, Cl. 317-101.0cc.

Alesson, Thomas; and Dennis, Theodore B., to Datron Systems, Inc. Aerodynamic condensate discharge trap and system. 3,776,254, 12-4-73, Cl. 137-183.000.

Alewitz, Sam, to Perfection Corporation. Pipe fitting. 3,726,548, 4-10-73, Cl. 285-249.000.

Alewitz, Sam, to Perfection Corporation. Anode fitting. 3,753,888, 8-21-73, Cl. 204-197.000.

Alexander, Alan G.: *See—*
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Alexander, Arthur Duane, to International Business Machines Corporation. Digital display device. 3,781,851, 12-25-73, Cl. 340-324.00m.

Alexander, Ben H.: *See—*
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Alexander, Carl J., to Wells Manufacturing Corporation. Support means for reciprocating saw blade. 3,748,738, 7-31-73, Cl. 30-394.000.

Alexander, David George; Lloyd, Anthony Michael; Greensides, Geoffrey Charles; and Thompson, David Harry, to Rose, Down & Thompson Limited. Separation of wax and oil by fractional crystallization. 3,708,512, 1-2-73, Cl. 260-412.800.

Alexander, Emmett L. Load sway control for trailers. 3,778,088, 12-11-73, Cl. 280-406.00a.

Alexander, Ernest John; and Mooradian, Aram, to Sterling Drug Inc. Benzyl 1,2,3,4-tetrahydrocarbozale-3 or 4-carboxylates. 3,758,496, 9-11-73, Cl. 260-315.000.

Alexander, Frank A., Jr., to Morgan Construction Company. Gas treating apparatus. 3,764,259, 10-9-73, Cl. 432-180.000.

Alexander, Frank A., Jr., to Morgan Construction Company. Means and method of heating and handling large coiled billet rod for metal rolling. 3,779,697, 12-18-73, Cl. 432-8.000.

Alexander, George F., to Caterpillar Tractor Company. Dual pitch track links for adjustment of cushioned tracks. 3,712,687, 1-23-73, Cl. 305-19.000.

Alexander, George Sheppard, to Motorola, Inc. Binary to decimal converter circuit. 3,728,530, 4-17-73, Cl. 235-155.000.

Alexander, Granison T., Jr., to Gem Oil Tool Company. Casing stand-off band for use during the running and cementing of casing in wellbores. 3,762,472, 10-2-73, Cl. 166-241.000.

Alexander, Harold M.; Mattimoe, Paul T.; and Hofmann, John J., to Libbey-Owens-Ford Company. Laminated safety float glass windshields. 3,708,386, 1-2-73, Cl. 161-165.000.

Alexander, James, to Scandia Packaging Machinery Company. Machine for securing a package tab. 3,766,707, 10-23-73, Cl. 53-134.000.

Alexander, Joe K.; and Williams, Donald D. Power systems for valve systems. 3,778,021, 12-11-73, Cl. 251-11.000.

Alexander, John; and Adams, Leonard, Jr., to Finn Industries, Inc., The. Assembly for applying coupons to carton blanks. 3,711,358, 1-16-73, Cl. 156-571.000.

Alexander, John A., to TRW Inc. Method of making composites. 3,748,721, 7-31-73, Cl. 29-471.300.

Alexander, John Briar, to South African Sugar Association. Method of preparing a sugar product for refining. 3,723,179, 3-27-73, Cl. 127-63.000.

Alexander, Larry T. Intravenous supply container support. 3,709,372, 1-9-73, Cl. 211-74.000.

Alexander, Paul, Jr.: *See—*
United States of America, National Aeronautics and Space Administration, 3,737,181.

Alexander, Percy P. Alternate action mechanism with plate and dual pin latching means. 3,766,346, 10-16-73, Cl. 200-153.00j.

Alexander, Robert H.; and Ballard, Paul E., to GTE Sylvania Incorporated. Apparatus and method for producing four piece lead wire assemblies. 3,722,046, 3-27-73, Cl. 29-25.190.

Alexander, Robert Warren: *See—*
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Rauscher, David Albert; and Alexander, Robert Warren, 3,754,845.

Alexander, Ronald Crawford. Signal detecting apparatus for use in sound track rerecording. 3,725,604, 4-3-73, Cl. 179-100.1vc.

Alexander, Stephen H., to Tosco-Lion, Inc. Method of treating asphalt. 3,751,278, 8-7-73, Cl. 106-273.00r.

Alexander, Thomas F., to Hughes Aircraft Company. Ballistic trajectory computer. 3,748,440, 7-24-73, Cl. 235-61.50r.

Alexander, Warner; Gosselin, Kenneth F.; and McEvoy, James E., to Air Products and Chemicals, Inc. Amorphous aluminodisilicate supported catalyst. 3,717,588, 2-20-73, Cl. 252-455.00r.

Alexander, Warner; and McEvoy, James E., to Air Products and Chemicals, Inc. Supported silver catalysts. 3,723,352. 3-27-73, Cl. 252-454.000.

Alexander, Wayne K.: *See—*
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Alexander, William M.; and Stancik, Lawrence J. Method and apparatus for towing trailers. 3,751,073, 8-7-73, Cl. 280-482.000.

Alexander, Winser E.: *See—*
Dybwad, Jens P.; Alexander, Winser E.; and Zinnow, Karl P., 3,753,472.

Alexanderson, Ernst F. W. Adjustable speed motor control system. 3,736,481, 5-29-73, Cl. 318-331.000.

Alexandre, Jacques. Window with rotating movable frame. 3,758,991, 9-18-73, Cl. 49-257.000.

Alexandre, Pierre; and Lezy, Renee. Method and means for additionally improving the stability and traction of vehicles especially in braking. 3,768,599, 10-30-73, Cl. 188-5.000.

Alexandre, Pierre E.: *See—*
Morane, Bruno P.; and Alexandre, Pierre E., 3,720,376.

Alexandridis, Nikitas A.; and Klinger, Allen, to United States of America, Air Force. Real time Walsh-Hadamard transformation of two-dimensional discrete pictures. 3,775,602, 11-27-73, Cl. 235-156.000.

Alexandrov, Adolf Moritsovich; Suladze, Ippolit Davidovich; Aglitsky, Vladimir Efimovich; Kakhniashvili, Avtandil Sememovich; Kantor, Ilya Solomonovich; Tsimbler, Jury Abramovich; Rozenfeld, Matvei Iosifovich; and Chidzhavadze, Grigory Yasonovich. Containe for pneumatic conveyance of loads along a pipe conduit. 3,722,428, 3-27-73, Cl. 105-365.000.

Alexandrov, Adolf Moritsovich; Isimbler, Yury Abramovich; Lachinov, Alexandr Alexandrovich; Aglitsky, Vladimir Efimovich; Kantor, Ilya Solomonovich; and Topolyansky, Yury Arnoldovich. Carriage for containers. 3,734,428, 5-22-73, Cl. 243-33.000.

Alexandrov, Adolf Moritsovich; Suladze, Ippolit Davidovich; Dzhangirovich, Ruben; Aglitsky, Vladimir Efimovich; Kakhniashvili, Avtandil Semenovich; Kantor, Ilia Solomonovich; Dzhanelidze, Vazha Venediktovich; and Rozenfeld, Matvei Iosifovich. Gate for pipeconduits of pneumatic rabbit conveyors. 3,738,393, 6-12-73, Cl. 138-94.300.

Alexandrov, Adolf Moritsovich; Suladze, Ippolit Davidovich; Kantor, Ilia Solomonovich; Aglitsky, Vladimir Efimovich; Akhniashvili, Avtandil Semenovich; Tsimbler, Jury Abramovich; Lachinov, Alexandr Alexandrovich; Topolyansky, Jury Arnoldovich; Ivanov, Genndy Nikitich; and Feldman, Mark Abramovich. Container braking device. 3,762,665, 10-2-73, Cl. 243-38.000.





Alexandrov, Adolf Moritsovich; Suladze, Ippolit Davidovich; Kakhniashvili, Avtandil Semenovich; Aglitsky, Vladimir Efimovish; Tsimbler, Jury Abramovich; Kantor, Ilya Solomonovich; Chidzhavadze, Grigory Yasonovich; Dzhanelidze, Vazha Venediktovich; and Gigieria, Abesalom Petrovich. Proportioning and charging apparatus. 3,774,818, 11-27-73, Cl. 222-368.000.

Alexandrov, Albert Ivanovich; Levin, Solomon Isaakovich; Chestnov, Valery Fedorovich; Kovaleva, Raisa Markovna; Birjukova, Tatyana Semenovna; Burko, Albert Ivanovich; and Naumov, Mikhail Grigorievich, to Vsesojuzny Nauchno-Issledovatelsky Institut Istochniov Sveta. Automatic apparatus for welding up and evacuation of electrovacuum devices. 3,728,005, 4-17-73, Cl. 316-31.000.

Alexandrov, Alexandr Sergeevich; Schegolevatykh, Vadim Dmitrievich; Saveliev, Vyacheslav Ivanovich; and Zakharov, Mikahil Fedorovich. Tool outfit for extruding hollow shapes. 3,777,544, 12-11-73, Cl. 72-468.000.

Alexandrov, Nikolai Nikolaevich; and Strukov, Arkady Dmitrievich, to Nauchno-Issledovatelsky Institut Onkologii i Meditsinskoi Radiologii MZ BSSR. Radioactive solutions injector for lymphatic systems. 3,718,138, 2-27-73, Cl. 128-214.00r.

Alexandrovich, Eduard-Gely Vitalievich: *See—*
Belkin, Nikolai Vasilievich; Alexandrovich, Eduard-Gely Vitalievich; Razin, Anatoly Alexandrovich; Kanunov, Mikhail Alexeevich; Tsukerman, Veniamin Aronovich; Sloeva, Galina Nikolaevna; Tsvetkov, Leonard Vasilievich; and Dron, Ninel Alexeevna, 3,716,737.

Alexandrovsky, Nikolai Ivanovich; Pronko, Vadim Fomich; Perepechkin, Mikhail Ivanovich; and Amelchenko, Petr Adamovich. Arrangement for mounting agricultural implements on a tractor with rocking side transmissions. 3,708,017, 1-2-73, Cl. 172-239.000.

Alexeev, Evgeny Stepanovich: *See—*
Fedotov, Alexandr Mikhailovich; Alexeev, Evgeny Stepanovich; Denisov, Genrikh Alexandrovich; Rundkvist, Konstantin Alexandrovich; and Skrunde, Artur Avgustovich, 3,735,868.

Alexeev, Kirill M., 50% to Gourevtich, Jacques. Variable speed reducer. 3,747,424, 7-24-73, Cl. 74-425.500.

Alexeeva, Inna Vladimirovna: *See—*
Chernetsky, Vladimir Panteleevich; and Alexeeva, Inna Vladimirovna, 3,776,899.

Alexeff, Alexander V., to Alexeff-Snyder Enterprises, Inc. Tensioning apparatus. 3,731,889, 5-8-73, Cl. 242-156.200.

Alexeff-Snyder Enterprises, Inc.: *See—*
Alexeff, Alexander V., 3,731,889.

Alexipfe, Stephen T.; and Ollinger, James C., to Armstrong Cork Company. Curved vault luminaire system. 3,780,286, 12-18-73, Cl. 240-78.0ld.

Alexoff, Peter, to Mitchell, George A., Company. Method and apparatus for severing tubing. 3,754,428, 8-28-73, Cl. 72-331.000.

Alexson, Charles E.: *See—*
Burgess, Dennis A.; Alexson, Charles E.; and Jones, Ralph P., 3,775,711.

Alfa Farmaceutici S.p.A.: *See—*
Vitale, Eupremio; and Guerra, Guido, 3,766,009.

Alfa Romeo S.p.A.: *See—*
Garcea, Giampaolo, 3,721,127.
Garcea, Giampaolo, 3,721,220.
Garcea, Giampaolo, 3,731,665.
Garcea, Giampaolo, 3,742,712.
Garcea, Giampaolo, 3,751,917.
Pezza, Salvatore, 3,774,471.
Satta, Orazio, 3,713,425.

Alfa-Laval AB: *See—*
Clark, Reginald Thomas, 3,716,376.
Damerow, Gunter Karl, 3,772,447.
Danielsson, Nils Harry, 3,777,714.
Ehnstrom, Lars Karl Johan, 3,746,550.
Jenssen, Sverre Knut, 3,731,737.
Kjellgren, Ove Allan Valentin, 3,741,467.
Kuellgren, Ove Allan Valentin, 3,777,972.
Larsen, Hans Christian, 3,734,741.
Murkes, Jakob, 3,710,949.
Nilsson, Vilgot Raymond, 3,750,940.
Nilsson, Vilgot Raymond, 3,752,389.
Ridding, Michael John, 3,742,910.
Stenstrom, Lennart Arvid, 3,741,563.
Svensson, Stig Ake Gosta, 3,771,901.
Thylefors, Henric Wilhelm, 3,749,458.
Troberg, Bengt Erik Mikael; and Claesson, Carl Olof, 3,754,532.

Alfa-Laval Bergedorfer Eisenwerke GmbH: *See—*
Hofmann, Gerhard; and Bassing, Friedrich Wilhelm, 3,760,849.
Schlicht, Werner, 3,744,762.

Alfeev, Ivan Ivanovich: *See—*
Daiker, Artur Lvovich; Morozov, Alexandr Nikolaevich; Veis, Anatoly Ivanovich; Kushtuev, Boris Grigorievich; Novoselov, Nikolai Mikhailovich; Zhuravlev, Viktor Nikolaevich; Zinoviev, Alexei Fedorovich; Alfeev, Ivan Ivanovich; Nikitin, Viktor Ivanovich; Kocergin, Alexei Ilich; Matashkov, Vladimir Filippovich; Karelin, Nikolai Ivanovich; Volchematiev, Jury Venediktovich; Zaluzhentsev, Veniamin Fedorovich; and Morozov, Gennady Yakovlevich, 3,730,504.

Alferov, Jury Fedorovich: *See—*
Medovar, Boris Izrailevich; Popov, Viktor Andreevich; Alferov, Jury Fedorovich; Bogachenko, Alexey Georgievich; and Latash, Jury Vadimovich, 3,709,997.
Medovar, Boris Izrailevich; Alferov, Jury Fedorovich; Dubinsky, Rudolf Solomonovich; Latash, Jury Vadimovich; Emelyanenko, July Georgievich; and Baglai, Vitaly Mikhailovich, 3,711,616.
Medovar, Boris Izrailevich; Alferov, Jury Fedorovich; Schupak, Grigory Bentsionovich; Lanevsky, Valery Evgenievich; Dykan, Vitaly Grigorievich; Berezovsky, Mikhail Elevich; Baglai, Vitaly Mikhailovich; Shuruev, Lev Andreevich; Emelyanenko, July Georgievich Khasin, Kim Moiseevich; Lugovsky, Vladimir Ivanovich; Salmin, Valery Vasilievich; Marjuschenko, Vilen Fedorovich; Shaburov, Fedor Fedorovich; Tamozhnikov, Georgy Vasilievich; Popov, Viktor Andreevich; and Semin-Vadov, Gennady Mikhailovich, 3,766,304.
Paton, Boris Evgenievich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Emelyanenko, July Georgievich; Stupak, Leonid Mikhailovich; Baglai, Vitaly Mikhailovich; and Alferov, Jury Fedorovich, 3,713,476.

Alfes, John A., to General Motors Corporation. Energy absorber. 3,717,223, 2-20-73, Cl. 188-1.00c.

Alford & Alder (Engineers) Limited: *See—*
Bunker, Kenneth James; and Wright, Martin Ronald, 3,746,045.

Alford, Derek: *See—*
Hartley, Dennis; Alford, Derek; and Plumpton, Norman Albert, 3,771,830.

Alford, William Douglas, to Bell Canada. Circuit for automatically disconnecting a test set from a telephone line. 3,770,912, 11-6-73, Cl. 179-175.20c.

Alfred, Victor D., to Marathon Oil Company. Rotary hearth calciner having stationary soaking pit. 3,763,011, 10-2-73, Cl. 202-100.000.

Alfredsson, Alf Ingvar: *See—*
Dahlgren, Lennart Gunnar Oskar; and Alfredsson, Alf Ingvar, 3,744,392.

Alfredsson, Alf Ingvar, to Hasselblad, Fritz Victor. Preset diaphragm for interchangeable lenses of single-lens mirror reflex cameras. 3,715,965, 2-13-73, Cl. 95-64.00b.

Alfredsson, Alf Ingvar; and Nilsson, Paul Ingemar, to Hasselblad, Fritz Victor. Shutter release mechanism of photographic cameras, preferably provided with roller-blind shutter. 3,726,199, 4-10-73, Cl. 95-53.0ea.

Alfrey, Turner, Jr.: *See—*
Behr, Raymond D.; Couling, Sidney L.; and Alfrey, Turner, Jr., 3,763,921.
Schrenk, Walter J.; Cleereman, Kenneth J.; Chisholm, Douglas S.; and Alfrey, Turner, Jr., 3,716,612.
Schrenk, Walter J.; Cleereman, Kenneth J.; Chisholm, Douglas S.; and Alfrey, Turner, Jr., 3,737,263.
Schrenk, Walter J.; Chisholm, Douglas S.; Cleereman, Kenneth J.; and Alfrey, Turner, Jr., 3,759,647.

Alfrey, Turner, Jr.; and Schrenk, Walter J., to Dow Chemical Company, The. Highly reflective thermoplastic bodies for infrared, visible or ultraviolet light. 3,711,176, 1-16-73, Cl. 350-1.000.

Alfrey, Turner, Jr.; Behr, Raymond Douglas; and Chisholm, Douglas Stewart, to Dow Chemical Company, The. Solidifying a thin layer of metal on plastic film. 3,751,288, 8-7-73, Cl. 117-114.00b.

Alfs, Helmut: *See—*
List, Ferdinand; and Alfs, Helmut, 3,720,692.
List, Ferdinand; Dodt, Johann; and Alfs, Helmut, 3,721,708.

Alfter, Franz-Werner: *See—*
Wienand, Michael; Jensen, Klaus; Primessing, Franz; and Alfter, Franz-Werner, 3,717,916.
Wienand, Michael; Jensen, Klaus; Primessing, Franz; and Alfter, Franz-Werner, 3,740,294.

Algemene Scandinavische Import Steel Maatschappij (A.S.I. Staal) N.V.: *See—*
Kooiman, Pieter L., 3,738,722.

Alger, Martin J., Jr.; and Dunn, Nelson H., to General Signal Corporation. Steel cylinder barrel having bonded bronze-iron valve plate. 3,709,107, 1-9-73, Cl. 92-169.000.

Alger, Martin J., Jr.; and Dunn, Nelson H., to General Signal Corporation. Steel cylinder barrel having bonded bronze-iron liners. 3,709,108, 1-9-73, Cl. 92-169.000.

Algeri, Harvey R.; and Sandorf, Robert E., to Nordson Corporation. Control circuit for generating output signal of specified duration at specified delay after receiving input signal. 3,775,624, 11-27-73, Cl. 307-293.000.

Algoship International Limited: *See—*
Campbell, George Thomas Richardson; and Wakamatsu, Moritomo, 3,738,305.
Taguchi, Masahiro; and Sasaki, Tetsuo, 3,774,954.

Alheritiere, Louis; Gobron, Georges; Falize, Claude; Diet, Jean; Roux, Bernard; and Bouchet, Roland, to Melle-Bezons.

Hydrogenation of aromatic nitro compounds. 3,761,521, 9-25-73, Cl. 260r580.000.
Ali, Mir Akbar; Bratschun, William R.; and Pincus, Alexis G:, to IIT Research Institute. UV transmitting lanthanum-zinc-borate glass composition. 3,773,528, 11-20-73, Cl. 106-47.00r.
Ali, Syed Aejaz; and Shields, Robert Loren, to General Electric Company. Incinerator. 3,757,686, 9-11-73, Cl. 110-8.00r.
Ali, Syed Aejaz; and Shields, Robert Loren, to General Electric Company. Incinerator. 3,771,469, 11-13-73, Cl. 110-8.00r.
Ali, Syed Aejaz; and Doherty, Orval Austin, to General Electric Company. Incinerator. 3,777,677, 12-11-73, Cl. 110-8.00r.
Ali, Wahid R.; and Bryan, William R., to Texaco Trinidad, Inc. Detergent composition. 3,764,569, 10-9-73, Cl. 252-554.000.
Alice Jewelry Co.: *See—*
Di Stefano, Vincent, 3,760,604.
Alicot, Marie-Josephe Jeanne: *See—*
Roe, Rene Pierre Victor; Levavasseur, Andre Adolphe Rene; Sureau, Robert Frederic Michel; and Alicot, Marie-Josephe Jeanne, 3,734,905.
Sureau, Robert Frederick Michel; and Alicot, Marie-Josephe Jeanne, 3,718,652.
Alie, Gerald, to McConnell, R. H., & Co., Ltd. Medallion applying machine. 3,708,371, 1-2-73, Cl. 156-363.000.
Align-A-Wrist Company, The: *See—*
Benoun, Samuel M.; and David, Roger F., 3,779,550.
Alimanshofer, Robert Dale, to RCA Corporation. Amplitude control circuits. 3,742,126, 6-26-73, Cl. 178-5.40r.
Alimena, James J.: *See—*
Goodwin, Raymond W.; and Alimena, James J., 3,731,107.
Alinari, Carlo. Depth gauges. 3,712,138, 1-23-73, Cl. 73-300.000.
Alinari, Carlo. Depth gauge. 3,717,032, 2-20-73, Cl. 73-300.000.
Alinari, Carlo. Instrument for indicating the length and number of decompression pauses in undersea diving. 3,777,573, 12-11-73, Cl. 73-432.00r.
Alinder, Gilbert L.: *See—*
Anderson, Lloyd E.; and Alinder, Gilbert L., 3,747,169.
Anderson, Lloyd E.; Alinder, Gilbert L.; and Thompson, Donlin, 3,750,811.
Anderson, Lloyd E.; Thompson, Donlin; and Alinder, Gilbert L., 3,772,793.
Alison, Jacques: *See—*
Nicolas, Michel; and Alison, Jacques, 3,749,562.
Alivoivodich, Miro Khristoforovich: *See—*
Brusakov, Jury Ivanovich; Liyshits, Irma Solomonovna; Kiselev, Vasily Pavlovich; Cheltsov, Vasily Mikhailovich; Avdeev, Mikhail Pavlovich; Marin, Semen Panteleevich; Alivoivodich, Miro Khristoforovich; Kulikov, Alexei Kuzmich; Berezhnoi, Ivan Arkhipovich; olpin, Pavel Ilich; Chernyakhovsky, Leonid Vladimirovich; Eltsova, Zoya Vasilievna; Medvedeva, Lidia Nikolaevna; and Kolomitsky, Fedor Mifodievich, 3,775,092.
Alix, Earl G.: *See—*
Kane, James M.; Buehler, Albert H.; and Alix, Earl G., 3,774,765.
Alix, Hans: *See—*
Abendroth, Paul; Alix, Hans; Preuss, Friedrich; and Kunkel, Fred, 3,749,011.
Schuhmann, Siegfried; and Alix, Hans, 3,719,437.
Alkaitis, Anthony; and Thomas, Gordon A., to Mooney Chemicals, Inc. Drying oil compositions, cobalt drier compositions therefor and process of making same. 3,723,152, 3-27-73, Cl. 106-310.000.
Alkan, R., & Cie: *See—*
Savarieau, Henri; and Bourrie, Georges, 3,753,316.
Alkasarov, Jury Innokentievich: *See—*
Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Tkach, Khaim Berkovich; Nazarov, Nikolai Grigorievich; Malbert, Petr Eduardovich; Lavron, Nikolai Sergeevich; Alkasarov, Jury Innokentievich; Legeche, Nikolai Leontievich; Golbinshtein, Alexanr Isovich; Reinsburg, Alexandr Mironovich; Burshtein, Mikhail Vladimirovich; Mikushin, Dmitry Pavlovich; Terskov, Alexei Danilovich; and Belov, Leonid Stepanovich, 3,730,283.
Alkem Alpha-Chemie und-Metallurgie G.m.b.H.: *See—*
Scheffler, Knut; Muller, Henricus M.; and Cappel, Aldo, 3,776,856.
ALKEM GmbH: *See—*
Stoll, Wolfgang, 3,778,885.
Alkema, Henk J.: *See—*
Dautzenberg, Frits M.; and Alkema, Henk J., 3,776,837.
All American Industries, Inc.: *See—*
Carnevale, Umberto A., 3,737,123.
Schlegel, William R., 3,726,498.
Schlegel, William R., 3,737,124.
All-Power Manufacturing Co.: *See—*
Brown, Gordon R.; and Michalek, Margaret E. (said Brown assor. to), 3,710,589.
All-Steel Equipment, Inc.: *See—*
Driscoll, Richard P.; Lannert, James W.; and Beaver, Donald V., 3,778,014.
Powell, James C., 3,735,653.
Powell, James C.; and Treber, Andrew S., 3,748,674.
Swanquist, Wesley W., 3,730,466.
All-Steel Inc.: *See—*
Beaver, Donald V., 3,779,622.
Allaigre, Andre, to Merlin Gerin, Societe Anonyme. Linear induction motor magnetic field assemblage producing constant thrust per unit width of the armature. 3,761,747, 9-25-73, Cl. 310-13.000.
Allain, Charles V. Sugar cane planter. 3,754,682, 8-28-73, Cl. 221-185.000.
Allain, Ronald J.; and Braithwaite, David G., to Nalco Chemical Company. Production of organic amides from organic nitriles. 3,764,494, 10-9-73, Cl. 204-74.000.
Allaire, Joseph P. Miter attachment for a power saw. 3,742,803, 7-3-73, Cl. 83-471.300.
Allais, Andre: *See—*
Nedelec, Lucien; Guillaume, Jacques; and Allais, Andre, 3,767,676.
Rousseau, Genevieve; Allais, Andre; and Poittevin, Andre, 3,769,425.
Allais, Andre; and Girault, Pierre, to Roussel-UCLAF. Method of killing undesired plants and insects. 3,723,091, 3-27-73, Cl. 71-122.000.
Allais, Andre; and Girault, Pierre, to Roussel-UCLAF. Fungicidal 3-amino-4-dihalo pyrazolones. 3,738,987, 6-12-73, Cl. 424-273.000.
Allais, Andre; Meier, Jean; and Dube, Jacques, to Roussel-UCLAF. Novel benzoylphenylacetic acid esters. 3,741,988, 6-26-73, Cl. 260-340.900.
Allais, Andre; and Peterfalvi, Michel, to Roussel-UCLAF. Certain barbituric acid derivatives. 3,749,723, 7-31-73, Cl. 260-256.40c.
Allais, Andre; Meier, Jean; and Dube, Jacques, to Roussel-UCLAF. Tetrahydropyranyl and tetrahydrothiapyranyl phenylacetic acid compounds. 3,772,332, 11-13-73, Cl. 260-327.0th.
Allais, Andre; Nedeleo, Lucine; Guillaume, Jacques; and Frechet, Daniel. Tricyclic ketonic compounds. 3,780,061, 12-18-73, Cl. 260-332.20a.
Allam, James N.; and Bense, William M., to Leesona Corporation. Winding apparatus. 3,733,034, 5-15-73, Cl. 242-18.00r.
Allam, Rodney John, to Air Products and Chemicals, Inc., mesne. Production of oxygen. 3,754,406, 8-28-73, Cl. 62-41.000.
Allamatic Corporation: *See—*
Ottavan, Gerald, 3,732,770.
Allan, Donald R.: *See—*
Hollwedel, Henry C., Jr.; and Allan, Donald R., 3,741,645.
Allan, Donald R. Microfilm transport and enlarger for making prints and plates. 3,752,578, 8-14-73, Cl. 355-63.000.
Allan, Frank V.; and Hsieh, Paul Y., to Olivetti, Ing., C., & C., S.p.A. Liquid crystal display. 3,728,008, 4-17-73, Cl. 350-160.0lc.
Allan, George, to FMC Corporation. Apparatus for clearing the screen of crop-harvesting product. 3,737,035, 6-5-73, Cl. 209-380.000.
Allan, John W.: *See—*
Walden, Ernest J.; and Allan, John W., 3,734,786.
Allan, Robert William; Haigh, Curzon John; and Hamdorf, John, to Electrolytic Zinc Company of Australia, Limited. Method of removing dissolved ferric iron from iron-bearing solutions. 3,781,405, 12-25-73, Cl. 423-142.000.
Allan, William L., to United States of America, Army. Aerial surveillance and fire-control system. 3,715,953, 2-13-73, Cl. 89-36.00m.
Allander, Claes G. Gastaf; and Bengtsson, Lars E., to AB Gutavsbergs Fabriker, mesne. Vacuum water-closet. 3,732,579, 5-15-73, Cl. 4-41.000.
Allard, Charles D.: *See—*
Allard, Eugene R.; and Allard, Charles D., 3,709,556.
Allard, Eugene R.; and Allard, Charles D. Telescoping IV pole attachment and wheel chairs. 3,709,556, 1-9-73, Cl. 297-188.000.
Allard, Gilles; and Lansiart, Alain, to Commissariat a l'Energie Atomique. Spark chamber radiation-detecting device. 3,717,766, 2-20-73, Cl. 250-83.60r.
Allard, Norman F.: *See—*
Stepan, Ivan E.; Allard, Norman F.; and Suter, Carl R., 3,755,675.
Allard, Pierre: *See—*
Rochina, Vincent; and Allard, Pierre, 3,717,696.
Allard, Pierre; Laparre, Jacques; and Lemaitre, Claude, to Societe Nationale Industrielle Aerospatiale. Device for securing a solid propellant grain in a combustion chamber. 3,724,219, 4-3-73, Cl. 60-255.000.
Allard, Robert; and Clarke, John Lawton, to United Kingdom of Great Britain and Northern Ireland, Minister of Aviation Supply in Her Britannic Majesty's Government of the. Pulse radar ranging. 3,721,981, 3-20-73, Cl. 343-13.00r.
Allard, Robert; Bulman, Peter Joseph; Clarke, John Lawton; Prior, John Roger; and Sampson, Donald Frederick, to Esso Research and Engineering Company, mesne. Secondary radar ranging systems. 3,772,693, 11-13-73, Cl. 343-6.51c.
Allaria, Eugenio, to Fabbrica Italiana Magneti Marelli S.p.A. Device for removably holding a vehicle windshield wiper on the windshield wiper arm. 3,725,970, 4-10-73, Cl. 15-250.320.
Allbritton, William R. Effluent cleaner for trash-burning. 3,745,939, 7-17-73, Cl. 110-8.00a.



Allcock, Harry Rex, to Firestone Tire & Rubber Company, The. Crosslinking of phosphazene polymers. 3,732,175, 5-8-73, Cl. 260-2.00p.
Alleaume, Jean H., to Technigaz. Method and device for supporting a conveyed tank against roll and pitch. 3,712,257, 1-23-73, Cl. 114-74.00a.
Alleaume, Jean H., to Technigaz. Support for a self-carrying storage or conveying tank. 3,724,411, 4-3-73, Cl. 114-74.00t.
Alleaume, Jean H., to Technigaz. Device for protecting the environment of a tank against failures thereof. 3,770,158, 11-6-73, Cl. 220-9.01g.
Alleaume, Jean H.; and Fournier, Gilbert C. F., said Alleaume assor. to Technigaz. Method for manufacturing a corrugated corner piece or the like. 3,771,342, 11-13-73, Cl. 72-379.000.
Allegheny Ludlum Industries, Inc.: *See—*
Acre, Thomas R.; Gimbel, Frederick M.; and Ramachandran, Sundaresan, 3,780,581.
Baybrook, Howard E.; and Chivinsky, Joseph A., 3,716,691.
Bloom, William M., 3,756,868.
Bloom, William M., 3,778,221.
Burk, David L.; and Reen, Orville W., 3,740,215.
Gray, Thomas H.; and Martin, Jack P., 3,770,517.
Hahn, Ronald A., 3,767,390.
Houze, Gerald L., Jr.; and Osborn, Merlin L., 3,716,763.
Kedzior, Edward S.; Latham, Thomas J., Jr.; and Boris, John, 3,729,124.
Kindlimann, Lynn E.; and Greene, Alexander B., 3,778,235.
Kozak, Larry M.; and Southern, Raymond L., 3,734,384.
Kozak, Larry M.; and Southern, Raymond L., 3,734,385.
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Ramachandran, Sundaresan, 3,725,041.
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Ramachandran, Sundaresan; and Igwe, Basil U., 3,754,895.
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Randich, Erasmus A., 3,724,302.
Reen, Orville W., 3,713,817.
Reen, Orville W., 3,716,354.
Reen, Orville W.; and Conner, Jesse R., 3,748,105.
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Smith, George A.; Stevens, Harrison; Walker, Robert R.; and Boyd, Gilbert D., 3,716,649.
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Allegheny Ludlum Steel Corporation: *See—*
Harbaugh, Samuel S.; and Rockwell, Perry M., 3,741,557.
Jackson, Harold S., 3,759,311.
Allegri, Theodore Henry; Chelin, Charles R.; Evans, Dafydo W.; and Thompson, Norman D., to Twomotor Corporation. Expandable top-handling container attachment. 3,750,814, 8-7-73, Cl. 214-621.000.
Alleman, Carl E.; and Tuckett, William F., to Phillips Petroleum Company. Apparatus and method for drying gas by glycol scrubbing. 3,736,725, 6-5-73, Cl. 55-32.000.
Alleman, Mark M.; and Marx, Rodger L., to Caterpillar Tractor Company. Anti-polluting waste collector for a burn table. 3,743,260, 7-3-73, Cl. 266-23.00k.
Allen & Hanburys Limited: *See—*
Bays, David Edmund, 3,755,319.
Jack, David; and Glover, Ernest Edward, 3,773,746.
Lunts, Lawrence H. C.; and Toon, Paul, 3,732,300.
Allen, Alaric, to Cossor, A. C., Limited. Secondary radar. 3,710,382, 1-9-73, Cl. 343-6.50r.
Allen, Brian Robert, to Lucas, Joseph, (Industries) Limited. Intercell connection making in electric storage. 3,723,699, 3-27-73, Cl. 219-78.000.
Allen, Charles M.: *See—*
Milberger, Walter E.; Massing, George W.; and Allen, Charles M., 3,760,285.
Allen, Clifford H., to TRW Inc. Adjustable rotary vane tangency compressor. 3,729,277, 4-24-73, Cl. 418-107.000.
Allen, Colin James. Methods of sorting or selecting articles on a conveyor path and apparatus used therefor. 3,722,425, 3-27-73, Cl. 104-88.000.
Allen, Craig R.; and Celto, John E., to United States of America, Navy. Voice privacy system. 3,777,064, 12-4-73, Cl. 179-1.5fs.
Allen, Daniel D. Method of isostatically pressing metal powder into desired metal shapes. 3,741,755, 6-26-73, Cl. 75-214.000.
Allen, David Thomas; and Apple, David Linley, to Deere & Company. Electric drive riding mower. 3,732,671, 5-15-73, Cl. 56-10.200.
Allen, David Thomas, to Deere & Company. Safe starting system for lawn and garden equipment. 3,733,794, 5-22-73, Cl. 56-10.500.
Allen, Derek R., to Bio-Dynamics, Inc. Centrifuge with blood sample holding means. 3,720,368, 3-13-73, Cl. 233-26.000.
Allen, Douglas, to Uniroyal, Inc. Twister spool and method of winding yarn thereon. 3,758,045, 9-11-73, Cl. 242-125.200.
Allen, Duane W.; and Moe, James M., to Chemetron Corporation. Stabilized reduced copper-zinc oxide catalyst and method for the production thereof. 3,769,236, 10-30-73, Cl. 252-463.000.
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Allen, George E. Device for tying wooden members to composite brick and masonry walls. 3,729,882, 5-1-73, Cl. 52-300.000.
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Allen, George Rodger, Jr.; McEvoy, Francis Joseph; DeVries, Vern Gordon; Moran, Daniel Bryan; and Littell, Ruddy, to American Cyanamid Company. 3-(2-(4-Phenyl-1-piperazinyl)ethyl)indolines. 3,751,416, 8-7-73, Cl. 260-268.0tr.
Allen, George Rodger, Jr.; McEvoy, Francis Joseph; DeVries, Vern Gordon; Moran, Daniel Bryan; and Littell, Ruddy, to American Cyanamid Company. 1-Acyl-3-(2-(4-phenyl-1-piperazinyl)ethyl) indolines. 3,751,417, 8-7-73, Cl. 260-268.0tr.
Allen, George W.; and Gray, Charles S. Retractable suspension and running gear for trailers. 3,715,128, 2-6-73, Cl. 280-43.220.
Allen, Gordon Y. R. Alarm circuit for monitoring the primary winding of a neutralizing transformer and its grounding connection. 3,723,813, 3-27-73, Cl. 317-18.00b.
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Allen, Irving, to Sargent and Company. Compound action tool with wire stripper and bolt cutter. 3,733,626, 5-22-73, Cl. 7-5.300.
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Allen, John E. Fabricated tuyere nozzle. 3,727,898, 4-17-73, Cl. 266-41.000.
Allen, John J. Hinge support mechanism for a folding bench. 3,743,350, 7-3-73, Cl. 297-94.000.
Allen, John Kenneth, to RCA Corporation. Service switch arrangement for improved interlace performance. 3,715,493, 2-6-73, Cl. 178-7.30r.
Allen, John W., to Stanray Corporation. Chain and strut coupler uncoupling device. 3,735,878, 5-29-73, Cl. 213-162.000.
Allen, John W., to Stanray Corporation. Coupler positioning device. 3,774,775, 11-27-73, Cl. 213-15.000.

Allen, Joseph B.; and Lippmann, Henry E., to International Business Machines Corporation. Line segment intersection test. 3,712,975, 1-23-73, Cl. 444-1.000.

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Allen, Joseph C.; and Teasdale, Thomas S., to Texaco Inc. Oil recovery process utilizing superheated gaseous mixtures. 3,768,559, 10-30-73, Cl. 166-272.000.

Allen, Joseph C.; and Shum, Yick Mow, to Texaco Inc. Hot fluid injection into hydrocarbon reservoirs. 3,774,684, 11-27-73, Cl. 166-303.000.

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Allen, Michael George; and Tiers, George Van Dyke, to Minnesota Mining and Manufacturing Company. Polyol solutions of xanthates as catalysts in making polyisocyanurates. 3,711,444, 1-16-73, Cl. 260-77.5nc.

Allen, Michael George; and Tiers, George Van Dyke, to Minnesota Mining and Manufacturing Company. Preparation of poly(isocyanurate-urethanes) using trithiocarbonates as catalysts. 3,715,337, 2-6-73, Cl. 260-77.5nc.

Allen, Norman R.; Boggs, Roger L.; and Stedman, Robert N., to Caterpillar Tractor Company. Cushioned track with anti-slippage means. 3,720,448, 3-13-73, Cl. 205-19.000.

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Allen, Philip J., to United States of America, Navy. High power infrared imaging device. 3,720,834, 3-13-73, Cl. 250-83.30h.

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Allen, Richard W.; Maring, Donald G., Sr.; and Andrews, Henry J., Jr., to Rochester Telephone Corporation, The. Apparatus for protecting and testing telephone networks. 3,725,613, 4-3-73, Cl. 179-175.300.

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Allston, Kenneth J.; and Rothschild, Leigh M. Multi-channel cassette system for a sound recording and reproduction with interlocked stacked cassettes. 3,758,730, 9-11-73, Cl. 179-100.20z.
Allsup, John R., Sr. Variable speed power transmission. 3,750,493, 8-7-73, Cl. 74-720.000.
Allswede, Keith A.: *See—*
Davis, Ralph A.; and Allswede, Keith A., 3,714,336.
Allten, Alfred G.; and Semel, Frederick J., to Wood, Alan, Steel Company. Low carbon, niobium and aluminum containing steel sheets and plates and process. 3,721,587, 3-20-73, Cl. 148-36.000.
Allten, Alfred G.; and Semel, Frederick J., to Wood, Alan, Steel Company. Low temperature steel process. 3,738,874, 6-12-73, Cl. 148-12.000.
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Allum, Keith George, to British Petroleum Company Limited, The. Silica containing catalyst preparation. 3,729,428, 4-24-73, Cl. 252-454.000.
Alluminio Mauceeri Borghetto S.p.A.: *See—*
Bertario, Luigi, 3,771,285.
Allwood, Searle & Timney Limited: *See—*
Searle, John Gilbert, 3,725,998.
Searle, John Gilbert; and Hunt, David John, 3,777,967.
Allyn, Harold D. Autoloading firearm. 3,711,983, 1-23-73, Cl. 42-75.00c.
Alm, Donald S.: *See—*
Alm, Gerald F.; Alm, Donald S.; Harvey, Ralph R.; Harvey, Robert L.; Andrews, Ray L.; and Lewis, Keith B., 3,749,376.
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Alm, Karl Olof: *See—*
Ljungberg, Stellan; and Alm, Karl Olof, 3,751,382.
Alm, Robert M., to Standard Oil Company (Indiana). Petroleum coke acid salts. 3,709,930, 1-9-73, Cl. 260-515.00h.
Almasi, Gabriel Charles; and Slusarczyk, William, to Crucible Inc. Flocculating apparatus and method. 3,714,037, 1-30-73, Cl. 210-42.000.
Almasi, George S.; Keefe, George E.; Lin, Yeong S.; and Thompson, David A., to International Business Machines Corporation. Magnetoresistive sensing device for detection of magnetic fields having a shape anisotropy field and uniaxial anisotropy field whichare perpendicular. 3,716,781, 2-13-73, Cl. 324-46.000.
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Ahearn, William E.; Almasi, George Stanley; and Genovese, Eugene Ronald, 3,729,724.
Almaula, Bipin C.: *See—*
Lasser, Howard G.; and Almaula, Bipin C., 3,760,216.





Almegard, Svante G.; and Ericson, Harry A. H., to Nordnero AB. Cleaning devices for chemical or electro-chemical surface treatment plants. 3,734,108, 5-22-73, Cl. 134-76.000.
Almich, Clarence L.: *See—*
Rennick, Lyle V.; Shore, John D.; Mitchael, William L.; Weiss, Ronald B.; and Almich, Clarence L., 3,777,559.
Almo Manifold and Tool Company: *See—*
Courson, Richard B., 3,763,889.
Nicoloff, Nick; Courson, Richard B.; and Boden, Robert Lee, 3,771,730.
Almog, Ehud. Panel constructions. 3,732,138, 5-8-73, Cl. 161-43.000.
Almqvist, Bo Karl Loritz, to Aktiebolaget Scania Vabis. Device for varying the pitch of propeller blades. 3,711,221, 1-16-73, Cl. 416-157.000.
Almqvist, Hans O.; and Backlund, Sigurd A., to AGA Aktiebolag. Breathing apparatus. 3,716,053, 2-13-73, Cl. 128-142.200.
Alms, Erhard E. Combined burner, fan and igniter. 3,718,321, 2-27-73, Cl. 263-19.00a.
Alms, Erhard E.; and Mitchell, James E., to AFE Industries, Inc. Modular dock float. 3,726,098, 4-10-73, Cl. 61-48.000.
Alms, Erhard E. Anti-pollution screen for agricultural dryer and method of removing pollutants. 3,747,225, 7-24-73, Cl. 34-26.000.
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Alnor Instrument Company; division of Illinois Testing Laboratories, Inc.: *See—*
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Obermaier, Alfred A.; and Pierman, Martin J., 3,719,082.
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Alonas, Kay; Engelman, Valentine R.; and Jacobs, Norman A., to Teletype Corporation. Prism alignment means for a character at a time printer. 3,720,298, 3-13-73, Cl. 197-182.000.
Alongi, John R.: *See—*
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Elders, Gerald W.; Schneider, Thomas E.; and Alongi, John R., 3,734,380.
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Alonso, Jose Luis, to Figueras, Alfredo, Jr. Head massage machine. 3,716,048, 2-13-73, Cl. 128-49.000.
Alosi, Michael; and Kellenbeck, Rieta M. Hair spray facial shield. 3,772,707, 11-20-73, Cl. 2-714.000.
Alotta, Renard M. Fishhook Caddy. 3,713,244, 1-30-73, Cl. 43-57.50r.
Alperin, George; and Vaniotis, Socrates, to Clairol Incorporated. Hair dye blend of a yellow component and red components and/or blue components. 3,733,175, 5-15-73, Cl. 8-10.100.
Alperin, Joel M.; and Murphy, James P., to Philadelphia College of Textiles and Science. Material thickness detector. 3,741,054, 6-26-73, Cl. 83-80.000.
Alperin, Joel M.; and Murphy, James P., to Triple A Trouser Manufacturing Co., Inc. Powder marker. 3,742,899, 7-3-73, Cl. 118-2.000.
Alpermann, Hans-Georg: *See—*
Bartmann, Wilhelm; Alpermann, Hans-Georg; and Jochum, Christian, 3,772,297.
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Alpern, Melvin. Cover for decanter or like liquid dispensing container. 3,739,957, 6-19-73, Cl. 222-556.000.
Alpern, Melvin. Pressure-locked sealing adaptor for bottle cap. 3,744,657, 7-10-73, Cl. 215-48.000.
Alpers, Frederick C.: *See—*
Nolan, William J., Jr.; and Alpers, Frederick C., 3,724,783.
Alpers, Frederick C., to United States of America, Navy. Television target tracking system. 3,711,639, 1-16-73, Cl. 178-6.800.
Alpers, Frederick C., to United States of America, Navy. Sector gating circuit. 3,712,562, 1-23-73, Cl. 244-3.150.
Alpers, Frederick C., to United States of America, Navy. Automatic path follower guidance system. 3,712,563, 1-23-73, Cl. 244-3.170.
Alpers, Frederick C., to United States of America, Navy. Leading edge discriminator circuit. 3,725,935, 4-3-73, Cl. 343-114.500.
Alpers, Frederick C., to United States of America, Navy. Adaptive swept-frequency active radar seeker. 3,728,724, 4-17-73, Cl. 343-7.500.
Alpers, Frederick C., to United States of America, Navy. Precision transponder system. 3,755,814, 8-28-73, Cl. 343-18.00d.
Alpers, Frederick C., to United States of America, Navy. Simultaneous missile and target electro-optical tracking system. 3,761,612, 9-25-73, Cl. 178-6.800.
Alpert, Norman: *See—*
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Alpert, Seymour B.: *See—*
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Alpha Designs, Inc.: *See—*
Uroshevich, Miroslav, 3,747,802.
Alpha Industries, Inc.: *See—*
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Rizzi, Peter A., 3,778,733.
Alpha Press Electronics, Inc.: *See—*
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Alphabet Unlimited: *See—*
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Alphamedics Mfg. Corporation: *See—*
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Alphanumeric, Incorporated: *See—*
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Alphonse, Gerard Argant, to RCA Corporation. Apparatus for efficiently converting microwave energy into acoustic energy. 3,710,283, 1-9-73, Cl. 333-30.00r.
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Alphonse, Jean Alfred; and Hannart, Joseph, to Forschag, Forschungs- und Chemie AG. Process for obtaining ochropamine. 3,761,483, 9-25-73, Cl. 260-293.550.
Alpine Aktiengesellschaft: *See—*
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Alps Electric Co., Ltd.: *See—*
Ishikawa, Sachio; Komatsu, Hiroaki; Imura, Junichi; and Takemi, Hiroshi, 3,771,093.
Kaneko, Fumitaka; and Suzuki, Shinzo, 3,754,243.
Ogasawara, Shoji; Aizawa, Hideo; Kamijo, Yoshimi; Miyajima, Mikio; and Igarashi, Sadao, 3,761,860.
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Sawada, Akihisa; and Fujimori, Katsuzo, 3,745,837.
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Alps, Hugo A.; and Prentiss, William C., to Rohm & Haas Company. Break resistant leather. 3,744,969, 7-10-73, Cl. 8-94.210.
Alps Motorola, Inc.: *See—*
Hirano, Takeshi, 3,764,147.
Mizumpto, Yoshiro, 3,764,754.
Noguchi, Masaru, 3,754,167.
Sampei, Kazuf, 3,759,530.
Alquist, Henry E., to Phillips Petroleum Company. Fuel system apparatus and method. 3,763,839, 10-9-73, Cl. 123-136.000.
Alquist, Henry E.; and Werkman, Robert T., to Phillips Petroleum Company. Containing and removing oil spills on water. 3,770,627, 11-6-73, Cl. 210-40.000.
Alrac Corporation, mesne: *See—*
Tozer, Job R., 3,763,338.
Alred, Ray. Spherical vehicle. 3,746,117, 7-17-73, Cl. 180-21.000.
Alroy, John D., to Borden Inc. Egg carton. 3,712,532, 1-23-73, Cl. 229-44.00r.
Alsberg, Dietrich Anselm, to Bell Telephone Laboratories, Incorporated. Method of making waveguide mode filter. 3,779,805, 12-18-73, Cl. 117-212.000.
Alsberg, Henry; and Frederiksen, Ronald A., to Richardson Company, The. Fabrication of printed circuit boards. 3,737,339, 6-5-73, Cl. 117-212.000.
Alsberg, Henry; and Frederiksen, Ronald A., to Richardson Company, The. Fabrication of printed circuit boards. 3,770,571, 11-6-73, Cl. 161-217.000.
Alsbury, Marjory E.; and Alsbury, Merwyn G. Water bed. 3,742,531, 7-3-73, Cl. 5-348.0wb.
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Alsco Anaconda Inc.: *See—*
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Kort, Walter A.; and Brand, Eugene L., 3,780,473.
Alsen, Kurt, to Salzgitter Aktiengesellschaft. Arrangement for continuously transferring loads units. 3,754,669, 8-28-73, Cl. 214-14.000.
Alside Inc.: *See—*

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Alsina, Pierre A.: *See—*
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Alsop, Arthur Graham, to Strachan & Henshaw Limited. Dampening apparatus with rotor for printing tray. 3,759,175, 9-18-73, Cl. 101-148.000.

Alsruhe, Leonard U.: *See—*
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Alsted, David A. Belt aligning apparatus. 3,710,927, 1-16-73, Cl. 198-202.000.

Alsthom-Savoisienne: *See—*
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Lesueur, Gilbert, 3,754,143.

Alston, Russell M.; Watson, John R.; and Westbrook, James E., to Conrac Corporation. Traffic usage encoder. 3,761,618, 9-25-73, Cl. 179-8.00a.

Alston, William W.; Driscoll, John J.; and Wareham, Richard R., to Polaroid Corporation. Photographic film assemblage for a diffusion transfer film. 3,779,770, 12-18-73, Cl. 96-76.00c.

Alsup, Michael J.; and Mutz, Alec N., to Eastman Kodak Company. Photopolymerizable material containing starch and process of using. 3,775,112, 11-27-73, Cl. 96-28.000.

Alsup, Richard E. Motorist's emergency warning apparatus. 3,772,811, 11-20-73, Cl. 40-129.00c.

Alt, Anton: *See—*
Buhrer, Erwin; and Alt, Anton, 3,721,432.

Alt, Anton, to Fischer, Georg, Aktiengesellschaft. Apparatus for the introduction of volatile additives into a melt. 3,724,829, 4-3-73, Cl. 266-34.00t.

Alt, Gerhard H., to Monsanto Company. 1-(Naphthyl and naphthyloxy)-acetyl-2,2-dialkyl hydrazine acids. 3,767,623, 10-23-73, Cl. 260-558.00h.

Alt, Gerhard H., to Monsanto Company. 2-(1-Naphthyl carbamoyl)-1,1,1-trialkylhydrazinium salts and herbicidal use thereof. 3,769,341, 10-30-73, Cl. 260-554.000.

Alt, Gilbert L., to Compagnie de Signaux et d'Entreprises Electriques. Method and apparatus for receiving information transmitted through railroad track circuits. 3,743,935, 7-3-73, Cl. 325-51.000.

Alt, Hans Rudolf; Just, Christian; and Wildbolz, Rudolf, to Rieter Machine Works, Ltd. Bale reducing apparatus and method of reducing fiber bales. 3,736,624, 6-5-73, Cl. 19-80.00r.

Alt, Louis M.: *See—*
Knoy, Maurice G.; Alt, Louis M.; and Work, William M., 3,762,559.

Alt, Robert M.: *See—*
Proksch, Frederick D.; Alt, Robert M.; Lagemann, James E.; Mossner, Eugene O.; and Rediger, John R., 3,762,489.

Altadonna, James. Liquid processing system. 3,734,854, 5-22-73, Cl. 210-203.000.

Altair, Inc.: *See—*
Lavado, Neal M., 3,768,731.

Altair Scientifics, Inc.: *See—*
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Mayo, Marvin J., 3,736,060.
Mayo, Marvin J., 3,769,762.

Altamil Corporation: *See—*
Farnsworth, William J., 3,729,111.
Norman, Noah M., 3,751,105.

Altar, William; and Helstrom, Carl W., Jr., to United States of America, Navy. Homing missile steering system. 3,722,447, 3-27-73, Cl. 114-23.000.

Altau, Karl, to Du Pont de Nemours, E. I., and Company. Fiber bearing antistatic composition. 3,738,864, 6-12-73, Cl. 117-138.80f.

Altec Manufacturing Company, Inc.: *See—*
Castleberry, Joseph C., 3,748,860.
Hafner, Oliver B., 3,713,717.

Altec-Sopitec S.A.: *See—*
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Altemus, William C.; and Duca, James, to Computer Image Corporation. System for automatically producing a color display of a scene from a black and white representation of the scene. 3,710,011, 1-9-73, Cl. 178-5.40e.

Alten, Ralph W., to Essex International, Inc. Electromagnetic relay. 3,723,925, 3-27-73, Cl. 335-187.000.

Alten, Ralph W., to Essex International, Inc. Transistorized flasher circuit. 3,728,713, 4-17-73, Cl. 340-331.000.

Altenberger, Edmund C. Burglar alarm actuated by cut telephone wire. 3,767,867, 10-23-73, Cl. 179-175.250.

Altenburger, Eugene G.: *See—*
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Altenburger, Otto, to Stromberg-Carlson Corporation. Plug-in line circuit arrangement. 3,708,623, 1-2-73, Cl. 179-18.00f.

Altenburger, Otto, to Stromberg-Carlson Corporation. Scanner circuit. 3,718,907, 2-27-73, Cl. 340-147.00r.

Altenburger, Otto; and Bansemir, Robert H., to Stromberg-Carlson Corporation. Path finding system. 3,729,593, 4-24-73, Cl. 179-18.0ea.

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Altenburger, Otto, to Stromberg-Carlson Corporation. Line circuit with lockout. 3,770,896, 11-6-73, Cl. 179-18.00f.

Altenschopfer, Theodor: *See—*
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Altenschopfer, Theodor; Batka, Heimold; Jakobi, Gunter; Krings, Peter; and Lehmann, Hans-Jurgen, to Henkel & Cie G.m.b.H. Process and agents for the clear rinse in mechanical dishwashing. 3,779,934, 12-18-73, Cl. 252-142.000.

Alter, Vladimir Fedorovich: *See—*
Pokhodnya, Igor Konstantinovich; Shlepakov, Valery Nikolaevich; and Alter, Vladimir Fedorovich, 3,710,073.

Altermatt, Ruedi, to Sandoz Ltd. Monoazo and disazo compounds having a nitroanilinosulfonyloxy-phenyl group. 3,741,954, 6-26-73, Cl. 260-205.000.

Altgauzen, Andrei Pavlovich: *See—*
Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Bondarenko, Oleg Petrovich; Baglai, Vitaly Mikhailovich; Sidorenko, Mikhail Nikolaevich; Leibenzon, Semen Abramovich; Kaganovsky, Gary Petrovih; Altgauzen, Andrei Pavlovich; Nikolsky, Leonid Evgenievich; Gorynina, Zoya Alexandrovna; Safronova, Ljudmila Andreevna; Katsevich, Leonid Savvich; Volokhonsky, Lev Avramovich; Nikulin, Alexandr Alexandrovich; Artemiev, Vladimir Dmitrievich; Edemsky, Vladmir Mikhailovich; and Voronin, Georgy Alexandrovich, 3,709,283.

Alth, Max. Self-starting, single-phase, single-coil induction and synchronous motor. 3,753,017, 8-14-73, Cl. 310-163.000.

Althabecoity, Georges, to Societe Miniere et Metallurgique de Penarroya. Apparatus for vacuum dezinging lead. 3,774,892, 11-27-73, Cl. 266-24.000.

Althaus, Ernst, to Orenstein & Koppel Aktiengesellschaft. Hydraulically operable device for changing the track width of track-laying vehicles. 3,712,398, 1-23-73, Cl. 180-9.480.

Altherr, Russell George: *See—*
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Altherr, Russell George, to Amsted Industries Incorporated. Connection for articulated car. 3,709,376, 1-9-73, Cl. 213-62.00r.

Altherr, Russell George, to Amsted Industries Incorporated. Slack adjuster for railway car couplers. 3,716,146, 2-13-73, Cl. 213-75.00r.

Althoff, F. Dankward, to Brown, Boveri & Cie Aktiengesellschaft. Fault current protective circuit for a load supplied from single or polyphase systems. 3,710,190, 1-9-73, Cl. 317-18.00d.

Althouse, Harlan E.; Scott, Fremont L.; and Cole, Gordon E., Jr., to M & T Chemicals Inc. Vinyl dispersion textured coating. 3,723,379, 3-27-73, Cl. 260-31.80m.

Alting-Mees, Hemmo R.: *See—*
Orthuber, Richard Kaspar; and Alting-Mees, Hemmo R., 3,742,287.

Alting-Mees, Hemmo R., to International Telephone and Telegraph Corporation. Flat panel cathode ray tube particularly adapted for radar displays. 3,771,001, 11-6-73, Cl. 313-68.00r.

Altman, Daniel E.: *See—*
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Altman, Gerald, to Norsid Industries, Inc. Low profile episcopic projector and opaque materials therefor. 3,778,142, 12-11-73, Cl. 353-44.000.

Altman, Leonard F.; and Sharp, Marcus, to General Instrument Corporation, mesne. Aluminum etching solution. 3,715,250, 2-6-73, Cl. 156-22.000.

Altmann, Conrad, to Eastman Kodak Company. Electrostatographic compensation apparatus. 3,732,003, 5-8-73, Cl. 355-3.000.

Altmann, Conrad, to Eastman Kodak Company. Toner concentration control apparatus. 3,779,203, 12-18-73, Cl. 118-8.000.

Altmann, Conrad, to Eastman Kodak Company. Toner concentration and auto bias control apparatus. 3,779,204, 12-18-73, Cl. 118-8.000.

Altmann, Josef, to Telephon- und Telegraphen-Fabriks Aktiengesellschaft Kapsch & Sohne. Multi-contact terminal support assembly for an electromagnetic relay. 3,735,294, 5-22-73, Cl. 335-134.000.

Altmann, Werner: *See—*
Enke, Kurt; and Altmann, Werner, 3,717,133.

Altmann, Werner, to Daimler-Benz Aktiengesellschaft. Mechanism for producing a rotary movement in a valve of an internal combustion engine. 3,747,579, 7-24-73, Cl. 123-90.300.

Altmeppen, Johannes, to Westinghouse Bremsen- und Apparatebau G.m.b.H. Brake control apparatus. 3,717,383, 2-20-73, Cl. 303-10.000.

Altmeppen, Johannes, to Westinghouse Bremsen- und Apparatebau G.m.b.H. Pressure limiting device for vehicular brake systems. 3,772,890, 11-20-73, Cl. 60-585.000.





Alto Company: *See—*
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Alto Corporation: *See—*
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Alton, Ahdor H.; and Kohn, Mitchell I., to Gulton Industries, Inc. Combined bridge output and chopper circuit. 3,725,783, 4-3-73, Cl. 324-101.000.

Altorfer, Edward J. Three-wheeled vehicle with passenger banking. 3,746,118, 7-17-73, Cl. 180-25.00r.

Altscher, Siegfried: *See—*
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Altseimer, Lukas G. Templet for electrical boxes. 3,745,664, 7-17-73, Cl. 33-174.00g.

Altshuler, Judif Markovna: *See—*
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Altshuler, Saul; and Frantz, Lee M., to TRW Inc. Matter wave interferometric apparatus. 3,761,721, 9-25-73, Cl. 250-327.000.

Altshuler, Thomas L. Wafer breaker. 3,730,410, 5-1-73, Cl. 225-96.500.

Altshuler, Yakov Avranovich. Method of making thermopiles of foil. 3,751,798, 8-14-73, Cl. 29-573.000.

Altunin, Yury Fedorovich: *See—*
Glazunov, Sergei Georgievich; Khrustsevich, Leonid Alexandrovich; and Altunin, Yury Fedorovich, 3,752,610.

Altwirth, Oskar. Denture adhesive composition and process of preparing the same. 3,740,361, 6-19-73, Cl. 260-17.4st.

Alul, Husni R.; and McEwan, Gilbert J., to Monsanto Company. Process for the manufacture of aromatic substituted alkanes. 3,776,962, 12-4-73, Cl. 260-624.00c.

Alumet Corporation, The, mesne: *See—*
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Alvarez, Francisco S., to Syntex Corporation. 2-Hydroxy-2(6'-methoxynophth-2'-yl) propionitrile and 5' halo derivatives thereof. 3,758,544, 9-11-73, Cl. 260-465.00f.

Alvarez, Jose A.; and Upchurch, Edward F. Process for drying methyl chloride in a polymer plant. 3,720,041, 3-13-73, Cl. 55-29.000.

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Alvarez, Luis W., to Humphrey Research Associates, mesne. Method of making Fresnelled optical element matrix. 3,739,455, 6-19-73, Cl. 29-425.000.

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Alvino, William M.; and Koryak, William R., to Westinghouse Electric Corporation. Use of a polysiloxane to eliminate surface flaws in imide and amide-imide polymer films. 3,781,237, 12-25-73, Cl. 260-29.1sb.
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Ames, Alvin G. Inclined surface reaction-type game board. 3,712,621, 1-23-73, Cl. 273-120.00r.

Ames, Alvin G. Game ball. 3,740,036, 6-19-73, Cl. 273-128.00a.

Ames, Irving; D'Heurle, Francois M.; and Horstmann, Richard E., to International Business Machines Corporation. Copper doped aluminum conductive stripes. 3,725,309, 4-3-73, Cl. 252-512.000.

Ames, John B. Container construction. 3,737,066, 6-5-73, Cl. 220-31.00s.

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Ames, Russell K., Sr. Boat loader for automobiles. 3,712,524, 1-23-73, Cl. 224-42.10h.

Ames, Victor H., to Whiting Corporation. Electric furnace installation. 3,745,224, 7-10-73, Cl. 13-10.000.

Ames, Ward A., to Tridan Tool & Machine, Inc. Tube bending and sawing apparatus. 3,728,885, 4-24-73, Cl. 72-294.000.

Ames, Ward A., to Tridan Tool & Machine, Inc. Feed device for forming apparatus. 3,780,561, 12-25-73, Cl. 72-417.000.

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Ritchey, Thomas W., Jr., 3,723,668.

Sell, Victor L.; and Alvi, Syed M. S., 3,711,839.
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Sidline, George B., 3,736,565.
Siebert, Raymond C., 3,731,885.
Sleger, Roger R., 3,752,415.
Sonberg, Charles M., 3,710,361.
Svendsen, Gordon D., 3,753,138.
Varian, George R., 3,767,964.
Zimmermann, Ernest F., 3,730,043.

Amphlett, Philip Harold, to Jointine Products Company, Limited. Gaskets. 3,767,211, 10-23-73, Cl. 277-1.000.

Ampoules, Inc.: *See—*
Hurschman, Alfred A., 3,729,003.
Hurschman, Alfred A.; and Schiller, Thomas P., 3,735,761.

Amra, Lutfi H., to General Electric Company. Molybdenum-base alloys. 3,770,392, 11-6-73, Cl. 29-182.000.

Amrehn, Hermann: *See—*
Dietrich, Johannes; Wolff, Oswald; Amrehn, Hermann; and Beckmann, Gunter, 3,708,465.

Amren, Jan Vilhelm, to Aktiebolaget Electrolux. Apparatus for controlling flow of waste liquid into a pneumatic liquid disposal system. 3,760,837, 9-25-73, Cl. 137-398.000.

Amrhein, Heinz G.; Stander, Herman; and Rosenow, Heinz, to Wendt, Fritz, KG. Machine for grinding of workpieces. 3,722,145, 3-27-73, Cl. 51-56.000.

Amsco Industrial Company: *See—*
Bellucci, Edward A., 3,768,203.

Amsden, Carl D.; and Galeano, Sergio F., to Owens-Illinois, Inc. Method for the oxidation of black liquor. 3,709,975, 1-9-73, Cl. 423-206.000.

Amsler, Joachim, to Sprecher & Schuh AG. Arc electrode, especially for vacuum switches. 3,773,993, 11-20-73, Cl. 200-144.00b.

Amstad, John H. Centrifugal processing apparatus. 3,766,845, 10-23-73, Cl. 99-324.000.

Amstar Corporation: *See—*
Toscano, Vincent A., 3,738,841.

Amsted Industries Incorporated: *See—*
Altherr, Russell George, 3,709,376.
Altherr, Russell George, 3,716,146.
Andreotti, Eugene R.; and McGee, Sherwood W., 3,708,281.
Aull, Louis J.; and Gritt, William E., 3,708,065.
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Brown, Jesse C., 3,712,601.
Dwyer, Howard Irving, 3,762,339.
Dwyer, Howard Irving, Jr., 3,762,338.
George, Howard Edward; and Guertin, Jean Marie, 3,732,045.
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Holibaugh, Ralph William, 3,767,062.
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Kugera, William James; and Sandor, Louis, 3,753,789.
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Neumann, Otto Walter; and Davis, Louis Dean, 3,748,001.
Radwill, Robert P., 3,708,076.
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Tack, Carl E.; and Rodgers, Loyal J., 3,721,482.
Takarada, Eiichi, 3,778,579.
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Plath, Bernhard, 3,726,163.

Amsterdam, Michael F.: *See—*
Whigham, Dale M.; and Amsterdam, Michael F., 3,758,348.

Amtab Manufacturing Co.: *See—*
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Amtek, Inc.: *See—*
Mursinna, Richard C.; and Martindale, David L., 3,775,989.

Amtel, Inc.: *See—*
Anderson, Thomas W., 3,763,596.
Koppelmann, Eldo K., 3,751,781.
Rottleuthner, Heinz H., 3,731,355.

Amtsberg, Lester A., to Chicago Pneumatic Tool Company. Pneumatically percussive tool having a vibration free handle. 3,727,700, 4-17-73, Cl. 173-18.000.

Amtsberg, Lester A., to Chicago Pneumatic Tool Company. Speed responsive centrifugal governor. 3,740,174, 6-19-73, Cl. 418-43.000.

Amtsberg, Lester A.; and Wallace, William K., to Chicago Pneumatic Tool Company. Pneumatic tool having combined nut running and crimping. 3,747,441, 7-24-73, Cl. 81-10.000.

AMU Company: *See—*
Hays, Eric L., 3,750,481.

Amundson, Arlon J.; and Hovind, Gary L., to Minnesota Mining and Manufacturing Company. Heat developer apparatus. 3,739,143, 6-12-73, Cl. 219-216.00.

Amy, Sherwood F.: *See—*
Schmidt, Albert S., Sr.; Irving, Frank M., Jr.; Andrus, Ronald G.; and Amy, Sherwood F., 3,760,553.

Anachenko, Sofia Nikolaevna: *See—*
Serebryakova, Tatyana Andreevna; Zakharychev, Ardalion Vladimirovich; Chigir, Rimma Nuriakhmetova; Anachenko, Sofia Nikolaevna; Torgov, Igor Vladimirovich; and Krjutchenko, Evgenia Georgievna, 3,712,910.

Anacher, Wilhelm; Grebe, Kurt R.; Greiner, James H.; Lahiri, Syamal K.; Park, Kyo C.; and Zappl, Hans H., to International Business Machines Corporation. Lead alloy Josephson junction devices. 3,733,526, 5-15-73, Cl. 317-234.00r.

Anacker, Wilhelm; and Matisoo, Jori, to International Business Machines Corporation. Superconductive circuitry using Josephson tunneling devices. 3,758,795, 9-11-73, Cl. 307-306.000.

Anaconda Aluminum Company: *See—*
Allen, Ralph W.; and Marsh, Richard F., 3,725,169.

Anaconda American Brass Company: *See—*
Case, Oliver P.; Jones, Ronald B. L.; Spellman, Robert D.; and Archambault, Joseph W., 3,748,124.
Jones, Ronald B. L., 3,725,138.
Rakich, Antone F.; Lozano, Luis J.; and Nelmes, John A., 3,737,979.
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Anaconda Company, The: *See—*
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Otto, Joachim F., 3,777,660.

Anaconda Company, The, mesne: *See—*
Arndt, Rudolph P.; Ulmer, William W.; and Stone, Daniel G., 3,740,454.
D'Ascoli, Ralph G.; and Alleva, Leon L., 3,768,941.
Engelhardt, John S., 3,767,835.
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Anaconda Wire and Cable Company: *See—*
Anderson, Herbert S., 3,741,389.
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Benjamin, George N., III; and Pence, Clarence M., 3,719,444.
Chrisman, Willis L.; and Ring, Walter R., Sr., 3,718,023.
Davis, Charles H., 3,708,112.
Davis, Charles H.; and Borczyk, Lech Stanislaw, 3,727,497.
Herrendeen, Jerry L.; and Liebing, Phillip E., 3,754,721.
Ling, Ting H.; Wade, Robert M.; and Solomon, Marwick H., 3,735,025.
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Analog Devices Inc.: *See—*
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Analog Monitors, Inc.: *See—*
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Ananchenko, Sofya Nikolaevna: *See—*
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Ananiades, Constantine S., to Burroughs Corporation. Logic circuit. 3,719,830, 3-6-73, Cl. 307-218.000.

Anantha, Narasipur Gundappa, to International Business Machines Corporation. Semiconductor device embodying field effect transistors and Schottky barrier diodes. 3,749,987, 7-31-73, Cl. 317-235.00r.

Anarak Incorporated: *See—*
Graham, Charles H., 3,753,582.

Anaren Microwave, Incorporated: *See—*
Gerst, Carl W., 3,745,250.
Sly, Thomas L., 3,775,708.

Anastasi, John E.: *See—*
Sgariglia, Anthony E., Jr., 3,762,345.

Anastasia, Louis J.; Carls, Erwin L.; Chilenskas, Albert A.; Graae, Johan E. A.; Jonke, Albert A.; Levitz, Norman M.; Steindler, Martin J.; and Trevorrow, La Verne E., to United States of America, Atomic Energy Commission. Fluoride reprocessing of breeder uels. 3,753,920, 8-21-73, Cl. 252-301.10r.





Anastasio, Angelo Antonio: *See—*
Athanas, Terry George; and Anastasio, Angelo Antonio, 3,765,970.

Anastasio, Frank J.; Brundage, Clinton F.; and Strakosch, Clarence P., to Rockwell International Corporation, mesne. Method of handling books. 3,776,404, 12-4-73, Cl. 214-152.000.

Anastasiu, Eugeniu Vasile; Balutescu, Teodor Gheorghe; and Farcas, Nicolae Stefan, to Institutul de Proiectari si Cercetari Pentru Utilaj Petrolier-IPCUP. Universal overshot. 3,727,967, 4-17-73, Cl. 294-86.310.

Anastasov, Ivan Krestev, to Glavna Directzia KBUMDP pri SGNS. Mechanical coded trick lock. 3,780,548, 12-25-73, Cl. 70-352.000.

Anastassakis, Evangelos M. Weight sensitive security system. 3,750,158, 7-31-73, Cl. 340-272.000.

Anatalio, Perfecto T., to General Electric Company. Vessell stabilization system. 3,746,292, 7-17-73, Cl. 248-154.000.

Anatol, Jesus; Vidalenc, Henri Michel; and Loiseau, Gerard Paul Marie Henri, to Ugine Kuhlmann. Treating hyperglycemia with phosphodrylated guanidines and biguanides. 3,769,406, 10-30-73, Cl. 424-211.000.

Anbar, Michael, to Stanford Research Institute. Methods and apparatus for the pollution-free generation of electrochemical energy. 3,741,809, 6-26-73, Cl. 136-86.00a.

Anbe, Toshi: *See—*
Yamashita, Sadahiko; Anbe, Toshi; Hosokawa, Yoshihiro; and Nakano, Tomoyasu, 3,766,495.

Anbe, Toshi; and Tokuzawa, Yukimichi, to Matsushita Electric Industrial Co., Ltd. Resonance-frequency variable resonator. 3,766,494, 10-16-73, Cl. 331-99.000.

Ancel, Selwyn J., to Chemtrust Industries Corporation. Lavatory sanitation bodies. 3,766,576, 10-22-73, Cl. 4-231.000.

Ancellin, Marcel, to Societa FFSA. Reaping and moving machine. 3,774,380, 11-27-73, Cl. 56-11.900.

Ancellin, Marcel, to Societa FFSA. Fibrous substance compression apparatus. 3,780,646, 12-25-73, Cl. 100-155.000.

Ancewicz, Walter J.; and Marsh, Orville H. Semi-portable swimming pool. 3,735,427, 5-29-73, Cl. 4-172.190.

Ancey, Gerard; and Bourree, Rene, to Groupement Atomique Alsacienne Atlantique. Automatic drilling-rod transfer device. 3,750,898, 8-7-73, Cl. 214-1.00q.

Ancherico, Edward, to Eastern Turf Equipment, Inc. Sandtrap maintenance device. 3,771,608, 11-13-73, Cl. 172-358.000.

Ancherlik, Arnost. Dosing apparatus. 3,718,438, 2-27-73, Cl. 23-259.000.

Anchor Equipment Company; d/b/a Anchor Valve Company: *See—*
Karpenko, Anatole N., 3,765,456.

Anchor Hocking Corporation: *See—*
Acton, Daniel D.; and Foss, George J., 3,741,423.
Conroy, Gary D., 3,773,420.
Dickenson, Richard W., 3,780,831.
Foss, George J., 3,734,333.
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Ochs, Charles S.; and Probasco, Charles W., 3,746,163.
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Ancira, William: *See—*
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Baier, Frederick L.; and Ancker, Fred H., 3,741,800.

Ancker, Fred H., to Union Carbide Corporation. Apparatus for the calendering of polymeric materials. 3,765,817, 10-16-73, Cl. 425-325.000.

Ancker, Fred H.; and Pollart, Dale F., to Union Carbide Corporation. Process for introducing functional substituents onto a polymer backbone using mild oxidative conditions. 3,779,963, 12-18-73, Cl. 260-23.00h.

Ancona, Cesar; and Choquer, Jean, to Centre National d'Etudes Spatiales. Balloon carried directional antenna. 3,781,894, 12-25-73, Cl. 343-706.000.

Ancona, John A.: *See—*
Hierholzer, Frank J.; and Ancona, John A., 3,764,776.

Ancra Corporation: *See—*
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Andalman, Avrum N.: *See—*
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Andco Incorporated: *See—*
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Sawyer, Alan B., 3,746,322.
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Andeen, Edmond C. Ice roll flarer. 3,749,184, 7-31-73, Cl. 175-18.000.

Andelfinger, George F.; and Kuhajek, Eugene J., to Morton-Norwich Products, Inc., mesne. Iodine source for animal feeding in salt block form. 3,749,579, 7-31-73, Cl. 99-2.0cd.

Anderberg, A. W., Manufacturing Co.: *See—*
Anderberg, Axel W.; and Taylor, George A., 3,722,142.

Anderberg, Axel W.: *See—*
Anderberg, Axel W.; and Taylor, George A. (said Taylor assor. to said), 3,768,204.

Anderberg, Axel W.; and Taylor, George A., to Anderberg, A. W., Manufacturing Co. Mounting bracket for overhead window. 3,722,142, 3-27-73, Cl. 49-248.000.

Anderberg, Axel W.; and Taylor, George A., said Taylor assor. to said Anderberg, Axel W. Concealed locking means for rotatable windows. 3,768,204, 10-30-73, Cl. 49-390.000.

Anderegg, Allen C. Apparatus for veterinary examination or surgery of large animals. 3,771,782, 11-13-73, Cl. 269-322.000.

Anderegg, Max, to Turlabor AG. Process for optical recognition of characters. 3,781,801, 12-25-73, Cl. 340-146.3ma.

Anderheggen, Manfred; and Buhren, Heinz, to Schlafhorst, W., & Co. Device for isolating textile coils. 3,746,212, 7-17-73, Cl. 221-253.000.

Anderka, Gerold, to Rapidograph, Inc. Drawing template. 3,721,011, 3-20-73, Cl. 33-174.00b.

Anderka, Gerold, to Koh-I-Noor Rapidograph, Inc. Stand for a writing point, especially for tubular pens. 3,724,676, 4-3-73, Cl. 211-69.700.

Anderka, Gerold, to Koh-I-Noor Rapidograph, Inc., mesne. Tubular writing point especially for automatic drafting machines. 3,734,633, 5-22-73, Cl. 401-259.000.

Anderko, Kurt; Stark, Manfred; and Diez, Adolf, to Schmidt, Karl, GmbH. Salt core containing synthetic resin and water-glass as binders. 3,764,575, 10-9-73, Cl. 260-37.00r.

Anders, Bertram: *See—*
Zumach, Gerhard; Anders, Bertram; Grewe, Ferdinand; Kuhlc, Engelbert; and Kaspers, Helmut, 3,728,456.

Anders, Edward O., to Global Marine Inc., mesne. Arctic oil and gas development. 3,749,162, 7-31-73, Cl. 166-.500.

Anders, Edward O., to Global Marine Inc. Movement of marine structures in saline ice. 3,759,046, 9-18-73, Cl. 61-46.500.

Anders, Edward O.; and Nichols, Lloyd G., to Global Marine Inc. Air cushion vehicle with retractable skirt assembly. 3,776,360, 12-4-73, Cl. 180-127.000.

Anders, Larry E., to United Aircraft Corporation. Linkage connecting means. 3,762,748, 10-2-73, Cl. 403-156.000.

Anders, Raymond H.; and Folgmann, Helmut G., to GTE Automatic Electric Laboratories, Incorporated. Method of and an apparatus for measuring an electrical characteristic of a granular material. 3,778,708, 12-11-73, Cl. 324-62.000.

Anders, Russell; and Halasz, Egon F. Tongue depressing aspirating tip. 3,768,477, 10-30-73, Cl. 128-276.000.

Anders, Walter G., to Diebold, Incorporated. Power file construction. 3,720,451, 3-13-73, Cl. 312-268.000.

Andersen, Arne O., to Walker Forge, Inc. Method of handling metal stock for hot forgin. 3,713,320, 1-30-73, Cl. 72-361.000.

Andersen, Benedict Robert. Free stall divider training rail. 3,726,257, 4-10-73, Cl. 119-27.000.

Andersen, Borge Christian. Method and apparatus for filling trays. 3,712,347, 1-23-73, Cl. 141-12.000.

Andersen, Christian Karmark: *See—*
Peill, Jurgen Eberhardt; Gerritse, Alf; Osmera, Miroslav S.; and Andersen, Christian Karmark, 3,722,396.
Peill, Jurgen Eberhardt; Gerritse, Alf; Osmera, Miroslav S.; and Andersen, Christian Karmark, 3,750,557.

Andersen, Christian Karmark, to Nordisk Ventilator Co. Aktieselskab. Ventilation system for storerooms for root crops and similar products. 3,739,980, 6-19-73, Cl. 236-49.000.

Andersen, Dan A., to Chem-Therm Mfg. Co. Automobile conveyor. 3,719,151, 3-6-73, Cl. 104-172.00b.

Andersen, Edward O., to General Electric Company. Thermostat having improved temperature drift control means. 3,755,770, 8-28-73, Cl. 337-354.000.

Andersen, Eilif, to Motorfabriken Bukh A/S. Reversing clutches with follow-up valve. 3,710,907, 1-16-73, Cl. 192-87.170.

Andersen, Eugene F.: *See—*
Eby, Jack A.; and Andersen, Eugene F., 3,728,749.

Andersen, Hans Christian: *See—*
Christiansen, Bendt Andreas, 3,738,294.

Andersen, Harold A. Apparatus for adjusting the relative inclination of two members. 3,763,570, 10-9-73, Cl. 33-370.000.

Andersen, Harry A. Aerated bait keeper. 3,711,986, 1-23-73, Cl. 43-57.000.

Andersen, James M.: *See—*
Sargent, Frank T.; and Andersen, James M., 3,747,130.

Andersen, Jens Nicolai, to Danfoss A/S. Pressure-responsive electric switch. 3,729,605, 4-24-73, Cl. 200-83.00p.

Andersen, John S.; and Lindquist, Urban C. Locking ring for corners of plywood form panels. 3,750,997, 8-7-73, Cl. 249-47.000.

Andersen, Jon A.: *See—*

Johnson, Roland N.; and Andersen, Jon A., 3,728,380.
Andersen, Joseph J., to Chandler Evans Inc. Closed center valve control system. 3,763,745, 10-9-73, Cl. 91-186.000.
Andersen, Kare: *See—*
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Andersen, Kare; Gabrys, Kenneth F.; and Ingo, Tyrone B., to Chicago Rawhide Manufacturing Company. Half seal units. 3,738,669, 6-12-73, Cl. 277-199.000.
Andersen, Kjeld Jorn: *See—*
Wrisberg, Johannes; Andersen, Kjeld Jorn; and Mogensen, Erik, 3,725,495.
Andersen, Marinus Leland, to Hach Chemical Company. Series-voltage regulator wherein an FET supplys a constant current reference voltage to a differential comparator. 3,735,242, 5-22-73, Cl. 323-22.00t.
Andersen, Marinus Leland, to Mach Chemical Company. Liquid conductivity measuring apparatus. 3,774,104, 11-20-73, Cl. 324-30.00b.
Andersen, Miriam R.: *See—*
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Andersen, Niels H.: *See—*
Weinshenker, Ned M.; and Andersen, Niels H., 3,726,983.
Andersen, Niels H.; and Weinshenker, Ned M., to Alza Corporation. Novel alkoxyt etrahydropyranyl ethers of prostaglandins. 3,723,423, 3-27-73, Cl. 260-240.00r.
Andersen, Niels H.; and Weinshenker, Ned M., to Alza Corporation. Pharmaceutical compositions comprising alkylsilyl ethers of prostaglandins. 3,764,673, 10-9-73, Cl. 424-184.000.
Andersen, Per Heymann, to Haldor Frederik Axel Topsoe. Furnace design. 3,768,980, 10-30-73, Cl. 23-288.00m.
Andersen, Poul H.; Povilaitus, Frank R.; and Himes, Robert S. Passenger safety restraint device including bumper mounted switch and associated circuitry. 3,753,475, 8-21-73, Cl. 180-91.000.
Andersen, Raymond E. Animal holder. 3,732,847, 5-15-73, Cl. 119-103.000.
Andersen, Richard H.: *See—*
Corsmeier, Robert J.; Savage, Joseph W.; and Andersen, Richard H., 3,768,924.
Andersen, Richard W.: *See—*
United States of America, National Aeronautics and Space Administration, 3,740,725.
Andersen, Robert; deceased (by Andersen, Miriam R.; executrix). Agitator assembly for sand tank. 3,750,340, 8-7-73, Cl. 51-12.000.
Andersen, Ronald E., to Central Engineering Company. Means for flexibly supporting an eductor tube used in testing jet engines. 3,710,617, 1-16-73, Cl. 73-116.000.
Andersen, Todd G., to Wescom, Inc. Discrete and integrated-type circuit. 3,725,683, 4-3-73, Cl. 307-305.000.
Andersen, William F., to Memorex Corporation. Airflow control system. 3,720,931, 3-13-73, Cl. 340-174.10e.
Anderson, A. D.; Lauridsen, Walter E.; and Overstreet, Charles L., to Iowa Beef Processors, Inc. Method for breaking animal carcasses and handling meat products. 3,748,146, 7-24-73, Cl. 99-107.000.
Anderson, A. D.; Lauridsen, Walter E.; and Overstreet, Charles L., to Iowa Beef Processors, Inc., mesne. Apparatus for breading animal carcasses and handling meat products. 3,774,264, 11-27-73, Cl. 17-1.00r.
Anderson, A. D.; Lauridsen, Walter E.; and Overstreet, Charles L., to Iowa Beef Processors, Inc., mesne. Method and apparatus for breaking animal carcasses and handling meat products. 3,774,265, 11-27-73, Cl. 17-24.000.
Anderson, A. H., & Co.: *See—*
Ivansson, Hans Valdemar, 3,774,672.
Anderson, Adolph. Gravity operated mechanical grab. 3,750,311, 8-7-73, Cl. 37-188.000.
Anderson, Albert E.; and Lum, Kin Kwong, to Eastman Kodak Company. Color diffusion processes utilizing hydroquinones which provide dye image materials upon oxidation in alkaline conditions. 3,725,062, 4-3-73, Cl. 96-3.000.
Anderson, Albert W.; and Konrad, Charles E., to General Electric Company. Direct current chopper control circuit. 3,753,077, 8-14-73, Cl. 321-45.00g.
Anderson, Albert W., to General Electric Company. Control for series shunt motor. 3,755,724, 8-28-73, Cl. 318-139.000.
Anderson, Albert W., to General Electric Company. Direct current power control circuit. 3,777,237, 12-4-73, Cl. 318-34.00s.
Anderson, Albin R.; Jennings, John D.; and Killerby, Walter E., to Western Electric Company, Incorporated. Apparatus for frequency adjusting and assembling monolithic crystal filters. 3,724,739, 4-3-73, Cl. 228-3.000.
Anderson, Albin R.; Grenier, Robert P.; and Perri, Peter R., to Western Electric Company, Incorporated. Methods of and apparatus for inspecting crystal. 3,736,426, 5-29-73, Cl. 250-51.500.
Anderson, Amos R., to Packo, Joseph J., mesne. Compositions for sealing leaks. 3,711,305, 1-16-73, Cl. 106-33.000.
Anderson, Amos R., to Packo, Joseph J., mesne. Compositions for sealing leaks in vessels. 3,716,384, 2-13-73, Cl. 106-33.000.
Anderson, Anders R.; and Bjorklund, Anders, to Allmanna Svenska Elektriska Aktiebolaget. Insulated coil for arrangement in a slot in the stator or motor of an electrie machine. 3,777,198, 12-4-73, Cl. 310-200.000.
Anderson, Andrew: *See—*
Anderson, Charles L.; and Anderson, Andrew, 3,754,330.
Anderson, Andrew W.; and Szura, Adam, Jr., to Scandia Packaging Machinery Company. Crimping assembly for rimmed containers having a flexible cover sheet. 3,750,357, 8-7-73, Cl. 53-329.000.
Anderson, Antony Faithfull, to International Research & Development Company Limited. Dynamoelectric machine winding support. 3,761,752, 9-25-73, Cl. 310-179.000.
Anderson, Arnold, Jr. Flying airplane trainer. 3,760,510, 9-25-73, Cl. 35-12.00p.
Anderson, Arthur Ernest; Roberts, Michael John; and Wright, Peter John, to Fenner, J. H., & Co., Limited. Conveyor belting. 3,738,859, 6-12-73, Cl. 117-76.00t.
Anderson, Arthur S. Valve. 3,762,382, 10-2-73, Cl. 123-90.670.
Anderson, Arvid N.; and Batterman, Richard H., to Aluminum Company of America. Roll end relief for rolling mills. 3,733,878, 5-22-73, Cl. 72-241.000.
Anderson, Bernard Joseph, to General Electric Company. Split-nut blade locking assembly. 3,721,506, 3-20-73, Cl. 416-215.000.
Anderson Brass Company: *See—*
Kass, Gerald H., 3,751,003.
Anderson, Brent F.; Bytheway, Charles W.; and Olson, Don L., to Sperry Rand Corporation. Fiber optics light pen. 3,777,153, 12-4-73, Cl. 250-227.000.
Anderson, Brian, to Ilford Limited. Indazolone magenta couplers. 3,733,335, 5-15-73, Cl. 260-310.00a.
Anderson, Brian, to Ilford Limited. Colour couplers. 3,738,840, 6-12-73, Cl. 96-100.000.
Anderson Bros. Mfg. Co.: *See—*
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Stohlquist, Roger H., 3,727,365.
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Wilke, Howard C.; and Williams, Romaine A., 3,708,954.
Anderson, Bryce P., to Control Products Corporation. Syringe destructing device. 3,750,966, 8-7-73, Cl. 241-99.000.
Anderson, Byron C., to Rohr Industries, Inc. Lock mechanism employing balloon valves for vacuumized tube transportation system. 3,750,592, 8-7-73, Cl. 104-138.000.
Anderson, Carl C.: *See—*
Chang, Wen-Hsuan; Dowbenko, Rostyslaw; and Anderson, Carl C., 3,763,108.
Christenson, Roger M.; and Anderson, Carl C., 3,725,115.
Anderson, Carl C.; Maska, Rudolf; and Das, Suryya K., to National Starch and Chemical Corporation, mesne. High strength pressure-sensitive adhesives. 3,769,254, 10-30-73, Cl. 260-33.4pg.
Anderson, Carl D., to Donker Products, Inc. Looseleaf binder. 3,756,626, 9-4-73, Cl. 281-47.000.
Anderson, Carl W., Jr., to Susquehanna Corporation, The. Gas source. 3,731,843, 5-8-73, Cl. 222-3.000.
Anderson, Carlo E., to Chevron Research Company. Ship's cargo tank cleaner. 3,747,854, 7-24-3, Cl. 239-227.000.
Anderson, Charles Andrew; Catterall, John Mason; and Swanson, Richard Maurice, said Catterall and said Swanson assors. to said Bell Telephone Laboratories, Incorporated and said Anderson assor. to said Western Electric Company, Incorporated. Telephone swithing system with line hunting. 3,745,260, 7-10-73, Cl. 179-18.0ha.
Anderson, Charles B.; and Tuggle, William H., Jr., to Atco Rubber Products, Inc. Stretch clamp. 3,708,834, 1-9-73, Cl. 24-279.000.
Anderson, Charles D.: *See—*
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Anderson, Charles E. Toboggan tow-bar. 3,721,454, 3-20-73, Cl. 280-24.000.
Anderson, Charles Elmor; and Cardoza, Clarence Anthony, to Litton Systems, Inc. Traveling wave tube with coax to helix impedance matching sections. 3,735,188, 5-22-73, Cl. 315-3.500.
Anderson, Charles Ernest, to Harris-Intertype Corporation. Method of fabrication of semiconductor device package. 3,716,907, 2-20-73, Cl. 29-470.900.
Anderson, Charles H., to Pennsylvania Engineering Corporation. Method and apparatus for uncoiling heated coils of steel bar for hot rolling. 3,747,908, 7-24-73, Cl. 266-1.00r.
Anderson, Charles Hammond; Feingold, Bernard Robert; and Sabisky, Edward Stephen, to RCA Corporation. Maser incorporating crystal having F-centers. 3,736,518, 5-29-73, Cl. 330-4.000.
Anderson, Charles L.; and Anderson, Andrew. Saw chuck. 3,754,330, 8-28-73, Cl. 30-392.000.
Anderson, Clarence A. F., to Shaw-Walker Company, The. Lateral file. 3,764,190, 10-9-73, Cl. 312-286.000.
Anderson, Clarence L., to Magnamatrix Corporation. Semi-automatic bookbinder. 3,757,736, 9-11-73, Cl. 118-59.000.
Anderson, Clarence W. Tapered chucking assembly. 3,727,930, 4-17-73, Cl. 279-50.000.
Anderson, Clifford J.: *See—*



Peterson, Reuben W.; Backus, Harold A.; and Anderson, Clifford J., 3,731,101.
Anderson, Clifford J.; and Peterson, Reuben W., to National Lead Company. Radioactive shipping container with neutron and gamma absorbers. 3,780,306, 12-18-73, Cl. 250-428.000.
Anderson, Colin C. Fencing. 3,722,861, 3-27-73, Cl. 254-64.000.
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Anderson, Dale R.: *See—*
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Anderson, Daniel J.; and Jimerson, James C., to Mallory, P. R., & Co., Inc. Capacitor electrolyte. 3,719,602, 3-6-73, Cl. 252-62.200.
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Anderson, David John: *See—*
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Anderson, David W.; Gustafson, Richard N; Johnson, Lance H.; and Sparacio, Francis J., to International Business Machines Corporation. High speed buffer operation in a multi-processing system. 3,735,360, 5-22-73, Cl. 340-172.500.
Anderson, David W.; Gustafson, Richard N.; Johnson, Lance H.; Sparacio, Francis J.; Tomas, William M.; and Webster, James J., to International Business Machines Corporation. Central processing unit with hardware controlled checkpoint and retry facilities. 3,736,566, 5-29-73, Cl. 340-172.500.
Anderson, David W.; Gustafson, Richard N.; Kaminsky, Paul E.; and Wetzel, Joseph A., to International Business Machines Corporation. Translation storage scheme for virtual memory system. 3,761,881, 9-25-73, Cl. 340-172.500.
Anderson, Dean B., to North American Rockwell Corporation. Optical parametric device. 3,772,528, 11-13-73, Cl. 307-88.300.
Anderson, Dean M.; and Burbick, Ross E., to Wiggins, E. B., Inc. Breakaway coupling. 3,719,194, 3-6-73, Cl. 137-68.000.
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Anderson, Dennis R., to Antron Manufacturing, Inc. Analog signal to frequency signal converter. 3,757,099, 9-4-73, Cl. 235-194.000.
Anderson, Dennis R., to Avtron Manufacturing, Inc. Direct current tachometer system. 3,764,888, 10-9-73, Cl. 322-20.000.
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Anderson, Deyrol E., to Display Systems Corporation. Computer assisted dial access video retrieval for an instructional television system. 3,729,581, 4-24-73, Cl. 178-6.800.
Anderson, Donal C., to Ciba-Geigy Corporation. Methods and compositions for preventing retention of placenta following induced parturition in cattle. 3,775,539, 11-27-73, Cl. 424-243.000.
Anderson, Donald L.: *See—*
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Anderson, Donald L., to Amerock Corporation. Latch for a trash compactor drawer or the like. 3,764,171, 10-9-73, Cl. 292-8.000.
Anderson, Donald R.: *See—*
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Anderson, Donald R.; and Frisque, Alvin J., to Nalco Chemical Company. Rapid dissolving water-soluble polymers. 3,734,873, 5-22-73, Cl. 260-29.60h.
Anderson, Donald R., to Nalco Chemical Company. Polymeric latices and sodium aluminate. 3,755,259, 8-28-73, Cl. 260-29.60m.
Anderson, Douglas W., to Rockwell International Corporation. Weft carrier tape guide. 3,777,787, 12-11-73, Cl. 139-127.00r.
Anderson, Duane B.: *See—*
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Anderson, Earl R., to Brex Corporation. Shuffle feed mechanism. 3,708,053, 1-2-73, Cl. 198-30.000.
Anderson, Earl R., to Brex Corporation; trustee. Sizer conveyor. 3,731,798, 5-8-73, Cl. 209-98.000.
Anderson, Earl R., to Brex Corporation, mesne. Apparatus and method for orienting pears and the like. 3,768,627, 10-30-73, Cl. 198-33.0aa.
Anderson, Earl R., to Brex Corporation. Centering mechanism. 3,769,714, 11-6-73, Cl. 33-180.00r.
Anderson, Edward William, to Smiths Industries Limited. Navigation apparatus. 3,744,312, 7-10-73, Cl. 73-178.000.
Anderson, Edwin A. Seal and equalizing arrangement for a directional drilling apparatus. 3,717,208, 2-20-73, Cl. 175-74.000.
Anderson Electric Corporation: *See—*
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Anderson, Elizabeth; and Brown, Richard E., to United States of America, Army. Thickness-scratch testing device. 3,738,011, 6-12-73, Cl. 33-169.00f.
Anderson, Elvin L.; and Graboyes, Harold. Intermediates for preparing acridines. 3,781,358, 12-25-73, Cl. 260-566.00b.
Anderson, Ernest Leslie, to South African Inventions Development Corporation. Purification of crystallizable material by directional freezing. 3,715,892, 2-13-73, Cl. 62-58.000.
Anderson, Eugene A. Register bar for printing press sheet conveyors. 3,741,536, 6-26-73, Cl. 271-48.000.
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Anderson, Forrest Symington, to Anderson Mavor Limited. Cutting drums for mineral mining machines. 3,718,369, 2-27-73, Cl. 299-59.000.
Anderson, Forrest Symington, to Anderson Mavor, Limited. Haulage mechanism for mining machines. 3,774,737, 11-27-73, Cl. 192-56.00f.
Anderson, Foy S.; Davis, William L.; and Loye, William G., Jr., to Mobile Home Mooring, Inc. Mooring apparatus. 3,726,054, 4-10-73, Cl. 52-148.000.
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Anderson, Frank H.; Cerny, Louis J.; Murphy, James J.; and Sieglinger, John C., to American Telephone and Telegraph Company. Busy line control for switching system. 3,758,724, 9-11-73, Cl. 179-18.0ab.
Anderson, Frank R.; and Castro, Albert J., to Westates Space-Era Products Inc. Ribbon-inking machine. 3,731,649, 5-8-73, Cl. 118-6.000.
Anderson, Frank R., to Westates Space-Era Products, Inc. Ribbon-inking method. 3,733,211, 5-15-73, Cl. 117-2.00r.
Anderson, Fred J.; and Kessler, Jack L., to Carus Corporation. Continuous recycle process for electrolytic conversion of benzene to quinone. 3,758,391, 9-11-73, Cl. 204-78.000.
Anderson, Fred J.; and Kessler, Jack L., to Carus Corporation. Continuous recycle process for electrolytic conversion of benzene to quinone. 3,758,392, 9-11-73, Cl. 204-78.000.
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Anderson, George A.; Burne, Frederick A.; Neunaber, Neil O.; and McFadden, Edward L., to Olin Corporation. Heat exchanger. 3,776,303, 12-4-73, Cl. 165-82.000.
Anderson, George B.; and Aspin, Derek, to USM Corporation. Quick change tooling. 3,726,001, 4-10-73, Cl. 29-568.000.
Anderson, George B., to USM Corporation. Cutting tool. 3,741,049, 6-26-73, Cl. 82-37.000.
Anderson, George C. Knockdown reel. 3,743,209, 7-3-73, Cl. 242-118.610.
Anderson, George Fred; and Hill, Charles C., to Rohr Industries, Inc. Vehicle heating and cooling mechanism. 3,763,761, 10-9-73, Cl. 98-9.000.
Anderson, George J.; and Dahms, Ronald H., to Monsanto Company. Resin oil modified resoles. 3,761,448, 9-25-73, Cl. 260-53.00r.
Anderson, George M. Expanding bullet. 3,756,158, 9-4-73, Cl. 102-91.000.
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Anderson, Gordon C.; and Drake, William H., to Maremont Corporation. Method and apparatus for donning bobbins. 3,751,895, 8-14-73, Cl. 57-52.000.

Anderson, Gordon R., to Hansen, Erling J., mesne. Drip-type coffee maker and the like. 3,759,161, 9-18-73, Cl. 99-282.000.

Anderson, Gordon R., Jr., to Airtrol Corporation. Bearing cap for electric motor. 3,749,954, 7-31-73, Cl. 310-90.000.

Anderson, Gordon R., Jr., to Airtrol Corporation. Unit bearing motor. 3,763,386, 10-2-73, Cl. 310-90.000.

Anderson, Gordon S. Electrical clamp. 3,737,832, 6-5-73, Cl. 339-14.00r.

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Anderson, Harold Francis; Shove, Gordon William; Morin, Louis George; and Gackstetter, Henry Clinton, to Echlin Manufacturing Corporation, The. Tungsten electrical switching contacts. 3,778,576, 12-11-73, Cl. 200-166.0cc.

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Anderson, Herbert Richard, to Tri-Wall Containers, Inc. Palletized shipping containers. 3,756,498, 9-4-73, Cl. 229-23.00c.

Anderson, Herbert S., to Anaconda Wire and Cable Company. Filtering apparatus. 3,741,389, 6-26-73, Cl. 210-77.000.

Anderson, Hilding A.: *See*—
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Anderson, Howard L., to BASF Wyandotte Corporation. Liquid level control device. 3,729,013, 4-24-73, Cl. 137-93.000.

Anderson, Howard R., to Caterpillar Tractor Company. Inertial air cleaner for gas turbine. 3,751,907, 8-14-73, Cl. 60-39.09p.

Anderson, Irvin O., Jr.: *See*—
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Anderson, James D., to Dymo Industries, Inc. Two colored tape. 3,734,808, 5-22-73, Cl. 161-6.000.

Anderson, James E., to Jackson Vibrators, Inc. Railroad track working machine. 3,732,827, 5-15-73, Cl. 104-7.00r.

Anderson, James E., to Jackson Vibrators, Inc. Ballast tamper blade. 3,736,879, 6-5-73, Cl. 104-12.000.

Anderson, James E., to Kraft, John, Sesame Corporation. Process for cleaning spices and herbs. 3,746,553, 7-17-73, Cl. 99-140.00r.

Anderson, James H. Heat pump. 3,730,263, 5-1-73, Cl. 165-86.000.

Anderson, James H. Night stream cooling system and method. 3,747,907, 7-24-73, Cl. 261-128.000.

Anderson, James Iain Walker; Marr, Donald Henry Albert; and Phillips, Graham Chesterton, to Lever Brothers Company. Rearing of fish. 3,777,709, 12-11-73, Cl. 119-3.000.

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Anderson, John E., to Phillips Petroleum Company. Refrigeration system. 3,726,103, 4-10-73, Cl. 62-117.000.

Anderson, John Erling, to Union Carbide Corporation. Solid refuse disposal process and apparatus. 3,729,298, 4-24-73, Cl. 48-111.000.

Anderson, John Ernest. Portable bag holder. 3,754,785, 8-28-73, Cl. 294-19.00r.

Anderson, John Gordon, to Rank Organisation Limited, The. Waveguide for moisture measurement. 3,720,890, 3-13-73, Cl. 333-98.00r.

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Anderson, John R.; and Weiss, Charles O., to Sybron Corporation. Method for precipitation of heavy metal sulfides. 3,740,331, 6-19-73, Cl. 210-53.000.

Anderson, John R.; and Beach, William A., to Sybron Corporation. Method and apparatus for separating suspended material from a fluid stream. 3,768,648, 10-30-73, Cl. 210-83.000.

Anderson, John Robert, to Hawker Siddeley Dynamics Limited. Viewing system using a multiple array of different-sized detectors. 3,781,558, 12-25-73, Cl. 250-332.000.

Anderson, John W., to Sylvania Electric Products, Inc. Lamp having improved press seal. 3,716,898, 2-20-73, Cl. 29-25.130.

Anderson, John W.; and Cavote, Donald R., to Wheeling-Pittsburgh Steel Corporation. Metal consolidation. 3,741,756, 6-26-73, Cl. 75-223.000.

Anderson, Joseph A.; and Neukom, Chester G., to Haybuster Manufacturing Inc. Haystacking machine. 3,720,052, 3-13-73, Cl. 56-346.000.

Anderson, Joseph Axel. Anti-pollution barge and conveyer assembly. 3,762,558, 10-2-73, Cl. 210-242.000.

Anderson, Karl R., to Thompson, John T. Gang connector assembly for telephone cable terminal board. 3,710,046, 1-9-73, Cl. 200-51.00r.

Anderson, Karl R., to Thompson, John T. and Gillimot, George W. Gang connector and patching cable assembly and method of using same. 3,781,758, 12-25-73, Cl. 339-29.000.

Anderson, Kay C. Film casette. 3,744,737, 7-10-73, Cl. 242-197.000.

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Anderson, Leonard E. Vehicle frame and interchangeable components. 3,734,223, 5-22-73, Cl. 180-64.001.

Anderson, Leroy E.; and Munn, Gerald J., to Manufacturers Systems, Inc., mesne. Method of forming a rectangular heat duct. 3,722,443, 3-27-73, Cl. 113-54.000.

Anderson, Leroy E.; and Munn, Gerald J., to Manufacturers Systems, Inc., mesne. Rectangular air duct. 3,757,830, 9-11-73, Cl. 138-163.000.

Anderson, Les, to Everkool, Inc. Evaporative cooler. 3,738,621, 6-12-73, Cl. 261-29.000.

Anderson, Leslie Alan; Dlak, Frederick Robert; Foster, George Hails, Jr.; and Gentry, John Maury, to AMP Incorporated. Conductor in-slot electrical connectors. 3,767,841, 10-23-73, Cl. 174-84.00c.

Anderson, Leslie C., to International Business Machines Corporation. Method of fabricating multilayer circuits. 3,770,529, 11-6-73, Cl. 156-3.000.

Anderson, Lester F.; Fink, William C.; and Colville, William T., to Sylvania Electric Products, Inc. Photographic flashlamp unit. 3,776,686, 12-4-73, Cl. 431-93.000.

Anderson, Lloyd; and Bildahl, Richard L., to Amerock Corporation. Drawer with guide tracks. 3,744,869, 7-10-73, Cl. 312-330.000.

Anderson, Lloyd E.; and Alinder, Gilbert L. Spring fastener. 3,747,169, 7-24-73, Cl. 24-237.000.

Anderson, Lloyd E.; Alinder, Gilbert L.; and Thompson, Donlin. Carpet unloading and transporting assembly. 3,750,811, 8-7-73, Cl. 214-394.000.

Anderson, Lloyd E.; Thompson, Donlin; and Alinder, Gilbert L. Heavy fabric cutting tool guide. 3,772,793, 11-20-73, Cl. 33-174.00g.

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Anderson, Lloyd L.; and Bildahl, Richard L., to Amerock Corporation. Universal roller bracket assembly for drawers. 3,716,279, 2-13-73, Cl. 308-3.800.

Anderson, Loren E.; Adams, Roy L.; and Welse, Gordon D., to N L Industries, Inc. Pump for molten salts and metals. 3,776,660, 12-4-73, Cl. 415-196.000.

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Anderson, Lowell W.; and Stephenson, Michael J., to United States of America, Atomic Energy Commission. Production of sintered porous metal fluoride pellets. 3,781,392, 12-25-73, Cl. 264-65.000.

Anderson, Malcolm W., to United States Pipe and Foundry Company. Apparatus for producing anchor bolts. 3,748,673, 7-31-73, Cl. 10-11.00r.

Anderson, Marvin H. Filter system. 3,735,872, 5-29-73, Cl. 210-167.000.

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Anderson, Forrest Symington, 3,718,369.
Anderson, Forrest Symington, 3,774,737.

Anderson, Melvin R., to Westinghouse Electric Corporation. Terminal block with snap-in components. 3,715,707, 2-6-73, Cl. 339-198.00r.

Anderson, Merlin H.; and Scholten, John J., to General Filter Company. Aeration device for filter tanks. 3,765,535, 10-16-73, Cl. 210-274.000.

Anderson, Moffat: *See*—
Dawson, Peter S. S.; Kurz, Wolfgang G. W.; Anderson, Moffat; and York, Arthur E., 3,713,988.

Anderson, Nils T., to Crown Zellerbach Corporation. Multiple layer limited dielectric recording blank for pulse printing. 3,709,728, 1-9-73, Cl. 117-218.000.

Anderson, Norman C., to Varian Associates. Mounting ring and method for referencing members in a short arc lamp. 3,725,714, 4-3-73, Cl. 313-110.000.

Anderson, Norman C., to Varian Associates. Method for making metal-to-ceramic seals. 3,736,650, 6-5-73, Cl. 29-473.100.

Anderson, Norman J.; and Decker, John L., to Zurn Industries, Inc. Synchronizing flexible coupling. 3,712,434, 1-23-73, Cl. 192-53.00e.

Anderson, Norman Stewart, to Imperial Chemical Industries Limited. Foamed polymeric materials. 3,758,424, 9-11-73, Cl. 260-2.50n.

Anderson, Oliver C., to DBT Manufacturing, Ltd. Gate operator. 3,762,524, 10-2-73, Cl. 192-142.00r.

Anderson, Olof Verner, to Anson Incorporated. Button cover. 3,777,336, 12-11-73, Cl. 24-113.0mp.

Anderson, Paul G. Folding stadium chair. 3,727,975, 4-17-73, Cl. 297-332.000.

Anderson, Paul L.; Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Amino and substituted amino-s-triazolo-(4,3-b)-pyridazines. 3,708,484, 1-2-73, Cl. 260-250.00a.

Anderson, Paul L.; Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Substituted-3-hydrazino pyridazines. 3,717,632, 2-20-73, Cl. 260-250.00a.

Anderson, Paul L.; Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. Hydrazino and substituted hydrazino pyridazine-N-oxides. 3,717,635, 2-20-73, Cl. 260-250.00a.

Anderson, Paul L.; Houlihan, William J.; and Manning, Robert E., to Sandoz-Wander, Inc. 3-Substituted amino-6-hydrazino pyridazines as hypotensives. 3,723,620, 3-27-73, Cl. 424-250.000.

Anderson, Paul L.; and Manning, Robert E., to Sandoz-Wander, Inc. 6-Substituted-1,2,4-pyrimido[4,5-e] thiadiazine-1,1-dioxides. 3,755,312, 8-28-73, Cl. 260-243.00r.

Anderson, Paul L. Process for preparing nitro substituted picolinonitriles. 3,770,751, 11-6-73, Cl. 260-294.900.

Anderson, Paul L., to Sandoz-Wander, Inc. N-substituted amino-N-nitroso-aminoacetonitriles as anti-anginal agents. 3,777,026, 12-4-73, Cl. 424-248.000.

Anderson, Paul L., to Sandoz-Wander, Inc. N-substituted amino-N-aminoacetonitriles in the treatment of hypertension. 3,780,180, 12-18-73, Cl. 424-248.000.

Anderson, Paul T.: *See*—
Ramsey, James B.; and Anderson, Paul T., 3,743,992.

Anderson, Perry W.: *See*—
Glabe, Elmer F.; Anderson, Perry W.; and Laftsidis, Stergois, 3,734,672.
Glade, Elmer F.; Anderson, Perry W.; and Lafisidis, Siergios, 3,764,344.

Anderson, Peter Harold, to Bell Telephone Laboratories, Incorporated. Pulse train checking circuit. 3,718,778, 2-27-73, Cl. 179-175.20a.

Anderson, Philip J.; and Ng, Daniel Y. C., to Institute of Gas Technology. System for increasing the shock loading resistance of structures. 3,714,909, 2-6-73, Cl. 109-1.00s.

Anderson, Philip J.; and Dally, James W., to Institute of Gas Technology. Low-noise process for pavement fragmentation. 3,778,109, 12-11-73, Cl. 299-14.000.

Anderson Power Products, Inc., mesne: *See*—
Sharaf, Harold M.; and Eby, Richard L., 3,731,189.

Anderson, Preston W. Cross-over sealing means. 3,734,514, 5-22-73, Cl. 277-233.000.

Anderson, Quinn S.; Levin, Berton P.; and Thomson, Jackie D., to Sierracin Corporation, The. Coating control system. 3,709,192, 1-9-73, Cl. 118-8.000.

Anderson, Ralph; and Beyer, Rodney B., to Future Systems, Inc. Electroplating apparatus including means to disturb the boundary layer adjacent a moving electrode. 3,715,299, 2-6-73, Cl. 204-212.000.

Anderson, Ralph, to Future Systems, Inc. Process for extracting silver from silver bearing materials. 3,733,256, 5-15-73, Cl. 204-109.000.

Anderson, Ralph F. Packaging machine with improved sealing head. 3,738,082, 6-12-73, Cl. 53-329.000.

Anderson, Ralph F. Apparatus for filling moving containers. 3,762,451, 10-2-73, Cl. 141-186.000.

Anderson, Ray B., to Texas Instruments, Incorporated. Automotive trim material. 3,754,874, 8-28-73, Cl. 29-196.100.

Anderson, Ray C. Unitary projector player. 3,771,859, 11-13-73, Cl. 352-8.000.

Anderson, Raymond B., Jr., to Ceromet, Inc. Lock nut. 3,762,455, 10-2-73, Cl. 151-28.000.

Anderson, Raymond E.; and Mackes, Ronald C., to Best Quality Plastics, Inc. Slip pallet. 3,776,145, 12-4-73, Cl. 108-51.000.

Anderson, Raymond John: *See*—
Cuthbert, Laurence Geoffrey; and Anderson, Raymond John, 3,737,897.

Anderson, Reg A.; Chandler, Ronald W.; Mueller, Frederick N.; and Osborn, Norbert I., to Tetradyne Corporation, mesne. Concrete placement. 3,779,519, 12-18-73, Cl. 259-147.000.

Anderson, Richard C., to General Electric Company. Thoria-yttrium-based ceramic materials. 3,737,331, 6-5-73, Cl. 106-39.00r.

Anderson, Richard D. Adjustable shock absorber. 3,763,970. 10-9-73, Cl. 188-282.000.

Anderson, Richard Edwin; and Swanson, Harry Gustav, to General Electric Company. Miniature, bearingless tachometer generator with wedge coupling for rigidly attaching the rotor to the drive shaft. 3,742,264, 6-26-73, Cl. 310-42.000.

Anderson, Richard F., to Grace, W. R., & Co. Method and apparatus for pricing case packed canned goods. 3,777,445, 12-11-73, Cl. 53-14.000.

Anderson, Richard J.: *See*—
Henrick, Clive A.; Siddall, John B.; and Anderson, Richard J., 3,719,666.

Anderson, Richard N., to Anderson, V. E., Mfg., Co. Building structure. 3,711,995, 1-23-73, Cl. 49-504.000.

Anderson, Richard W.; and Frick, Hughie R., to Dow Chemical Company, The. The Synthesis of polymers from s-triazines and perfluoro-vinyl ethers. 3,708,483, 1-2-73, Cl. 260-248.0cs.

Anderson, Robert B.: *See*—
Massey, David H.; and Anderson, Robert B., 3,755,063.

Anderson, Robert F.: *See*—
Auer, John H., Jr.; Anderson, Robert F.; Kovalcik, Vincent P.; Marsh, Donald D.; Silley, Henry C.; and Smith, Willis R., 3,772,640.
Auer, John H., Jr.; Sibley, Henry C.; and Anderson, Robert F., 3,774,025.

Anderson, Robert F. Lead screw. 3,710,641, 1-16-73, Cl. 74-424.80r.

Anderson, Robert F., to Universal Oil Products Company. Hydrogen fluoride stripping to separate hydrocarbon and alkyl fluorides in alkylation process. 3,729,526, 4-24-73, Cl. 260-683.480.

Anderson, Robert F.; and Menghi, George A., to American Cyanamid Company. Free flowing UV absorber compositions with magnesium or zinc salts of fatty acids. 3,755,450. 8-28-73, Cl. 260-591.000.

Anderson, Robert F., to Universal Oil Products Company. Separate alkyl fluoride alkylation with a substantially pure hydrogen fluoride stream. 3,755,492, 8-28-73, Cl. 260-683.480.

Anderson, Robert F., to Universal Oil Products Company. Hydrogen fluoride-catalyzed alkylation with a venturi-shaped reactor. 3,758,613, 9-11-73, Cl. 260-683.480.

Anderson, Robert F. T-slot bolt. 3,770,261, 11-6-73, Cl. 269-47.000.

Anderson, Robert F. Safety accessory for snowmobiles. 3,770,293, 11-6-73, Cl. 280-150.00r.

Anderson, Robert G., to Chevron Research Company. Method of washing with linear alkyl vicinal disulfates. 3,714,076, 1-30-73, Cl. 252-550.000.

Anderson, Robert I.: *See—*
Conklin, Robert M.; Anderson, Robert I.; Gautraud, Michael G.; and Shimanski, William H., 3,729,315.

Anderson, Robert James, to Rust Furnace Company. Heating furnace. 3,716,222, 2-13-73, Cl. 432-133.000.

Anderson, Robert K., to Medtronic, Inc. Power supply and voltage double output circuitry for implantable electro-medical apparatus. 3,757,795, 9-11-73, Cl. 128-419.00p.

Anderson, Robert S. and Fromm, Marvin M., to Portec, Inc. High voltage insulated coil and machine utilizing the same. 3,735,168, 5-22-73, Cl. 310-200.000.

Anderson, Robert L., to Bertea Corporation. Digital control valve and control system. 3,745,882, 7-17-73, Cl. 91-1 000.

Anderson, Robert L., Jr.: *See—*
Estes, Day E., III; and Anderson, Robert L., Jr., 3,767,902.

Anderson, Robert M.; Hanson, James M.; Lecrone, Richard C.; and Landgraf, William B., to General Electric Company. Linear photoflash lamp array and reflector unit therefor. 3,725,693, 4-3-73, Cl. 240-1.300.

Anderson, Robert M., to General Electric Company. Photoflash device. 3,739,166, 6-12-73, Cl. 240-1.300.

Anderson, Robert O.: *See—*
Cichy, Paul; and Anderson, Robert O., 3,723,631.

Anderson, Robert P., to Corning Glass Works. Method for terminating an electrical component. 3,723,590, 3-27-73, Cl. 264-104.000.

Anderson, Robert R.: *See—*
Shoop, John C.; and Anderson, Robert R., 3,763,882.

Anderson, Robert R., to Farmhand, Inc. Anti slug device for hammermills. 3,743,191, 7-3-73, Cl. 241-73:000.

Anderson, Robert V.: *See—*
Aiello, Victor S.; Albanese, Joseph P.; Anderson, Robert V.; and Platt, Frank, 3,753,492.

Anderson, Robert W.; and Perreault, Aime Joseph, to Haveg Industries, Inc. Process for color coding TFE insulated cables. 3,720,747, 3-13-73, Cl. 264-246.000.

Anderson, Robert W. Wind chill meter. 3,753,371, 8-21-73, Cl. 73-344.000.

Anderson, Rodney H.; and Day, Ralph R., to Caterpillar Tractor Company. Parking brake control with transmission interlock. 3,729,074, 4-24-73, Cl. 192-4.00c.

Anderson, Rodney H., to Caterpillar Tractor Company. Unitary coupling for articulated vehicles. 3,773,129, 11-20-73, Cl. 180-14.00b.

Anderson, Rodney H.; and Muntjanoff, John R., to Caterpillar Tractor Company. Mounting bracket for hydraulic cylinders. 3,777,824, 12-11-73, Cl. 172-801.000.

Anderson, Rodney J.: *See—*
Grunig, James K.; Anderson, Rodney J.; and Vance, Bess L., 3,717,437.
Grunig, James K.; Anderson, Rodney J.; and Vance, Bess L., 3,729,541.

Anderson, Rodney J. Disposable cooking pot. 3,779,231, 12-18-73, Cl. 126-373.000.

Anderson, Roger; deceased (by Anderson, Susan Carver; executrix). Surgical table. 3,766,384, 10-16-73, Cl. 250-446.000.

Anderson, Roger C. Mining machine. 3,773,384, 11-20-73, Cl. 299-76.000.

Anderson, Roger Y. Aquatic sediment and pollution monitor. 3,715,913, 2-13-73, Cl. 73-61.00r.

Anderson, Roland Fitzhugh: *See—*
Roberts, Robert; and Anderson, Roland Fitzhugh, 3,766,133.

Anderson, Roland W. Simulated football game. 3,727,915, 4-17-73, Cl. 273-94.00r.

Anderson, Ronald A., to Schlumberger Technology Corporation. Well bore data transmission apparatus with debris clearing apparatus. 3,764,968, 10-9-73, Cl. 340-18.0nc.

Anderson, Ronald D.; and Woodell, Rudolph, to Du Pont de Nemours, E. I., and Company. Flash spinning process. 3,756,441, 9-4-73, Cl. 214-205.000.

Anderson, Ronald H., to Lee, Raymond, Organization, Inc., The. Illuminated sign. 3,775,886, 12-4-73, Cl. 40-130.00r.

Anderson, Roy H. Saw chain. 3,735,662, 5-29-73, Cl. 83-830.000.

Anderson, Scott. Method of preparing purified lithium aluminum chloride. 3,761,578, 9-25-73, Cl. 423-463.000.

Anderson, Stanley E.; Thompson, Bernard L.; Thies, Charles E.; and Cost, Thomas L., to United States of America, Army, mesne. Method of making an improved case-bonded end-burning propellant grain with restricted stress-relief ports. 3,745,199, 7-10-73, Cl.264-3.00r.

Anderson, Steven A.: *See—*
Spence, John H.; Yang, Tung Han; and Anderson, Steven A., 3,710,952.

Anderson, Steven A.; Barker, Eugene C.; and Yang, Tung Han, to Pullman Incorporated. Hydraulic cushioning unit with boot type accumulator. 3,724,681, 4-3-73, Cl. 213-43.000.

Anderson, Steven A.; and Spence, John H., to Pullman Incorporated. Railway car hydraulic cushioning unit with spray type discharge ports. 3,726,419, 4-10-73, Cl. 213-43.000.

Anderson, Susan Carver: *See—*
Anderson, Roger, 3,766,384.

Anderson, Terry G.: *See—*
Gaynor, Joseph; and Anderson, Terry G., 3,733,485.

Anderson, Theodore D.; and Harms, William J., to Gardner-Denver Company. Linear antifriction bearing. 3,721,478, 3-20-73, Cl. 308-6.00c.

Anderson, Thomas E.; and Walden, John P., to General Electric Company. Power supply including inverter having multiple-winding transformer and control transistor for controlling main switching transistors and providing overcurrent protection. 3,781,638, 1225-73, Cl. 321-14.000.

Anderson, Thomas P., to Microseal Corporation. Film record card system. 3,750,315, 8-7-73, Cl. 40-158.000.

Anderson, Thomas P., to Microseal Corporation. Record card and method of indexing. 3,755,937, 9-4-73, Cl. 40-78.150.

Anderson, Thomas P., to Microseal Corporation. Film record card system. 3,773,511, 11-20-73, Cl. 96-75.000.

Anderson, Thomas W., to Amtel, Inc. Door window glass stabilizer. 3,763,596, 10-9-73, Cl. 49-496.000.

Anderson, Thomas W.; and Caroon, Robert L., to Jac, Inc. Ambient compensated temperature responsive device. 3,781,837, 12-25-73, Cl. 340-233.000.

Anderson, Todd G.; and Ing, Donald Y., to Motorola, Inc. Portable radio with integral acoustical horn. 3,748,583, 7-24-73, Cl. 325-353.000.

Anderson, Tore N. Marine radar with T-V receiver display. 3,750,164, 7-31-73, Cl. 343-5.00r.

Anderson, V. E., Mfg., Co.: *See—*
Anderson, Richard N., 3,711,995.

Anderson, Vernon A.: *See—*
Cushman, Charles R.; Hale, James C.; and Anderson, Vernon A., 3,779,070.

Anderson, Victor C.; and Horn, Ronald C., to United States of America, Navy. Magnetically-actuated fluid control valve. 3,758,071, 9-11-73, Cl. 251-139.000.

Anderson, Vincent, to Chicago Etching Corporation. Watchband calendar with jewelry-like surface. 3,710,489, 1-16-73, Cl. 40-107.000.

Anderson, Vincent, to Chicago Etching Corporation. Three-month watch band calendar with jewelry-like surface. 3,755,940, 9-4-73, Cl. 40-107.000.

Anderson, Wallace G. Plural motor timing sequence system. 3,710,214, 1-9-73, Cl. 318-102.000.

Anderson, Wallace T., Jr.; and Mendelson, Ralph A., to TRW Inc. Refractory metal alloys for use in oxidation environments. 3,753,699, 8-21-73, Cl. 75-174.000.

Anderson, Wallace T., Jr.; and Mendelson, Ralph A., to TRW Inc. Refractory metal alloys for use in oxidation environments. 3,753,701, 8-21-73, Cl. 75-175.500.

Anderson, Walter R.: *See—*
Hamilton, Robert M.; and Anderson, Walter R., 3,752,175.

Anderson, Weston A.; and Helmer, John C., to Varian Associates. Beam focus coils for induced emission apparatus. 3,714,417, 1-30-73, Cl. 250-49.5ae.

Anderson, Weston A., to Varian Associates. Double nuclear magnetic resonance coil. 3,771,055, 11-6-73, Cl. 324-.50r.

Anderson, Weston A., to Varian Associates. Apparatus for analyzing environmental gases. 3,772,909, 11-20-73, Cl. 73-23.100.

Anderson, Wilbur G., to Packaging Corporation of America. Package construction. 3,767,037, 10-23-73, Cl. 206-45.190.

Anderson, Wilfred K.: *See—*
Youngstrom, Jerry R.; Anderson, Wilfred K.; Fletcher, Martin Wallace; Strobele, Caljon H.; and Taylor, Kenneth I., 3,740,463.

Anderson, Wilfred King: *See—*
Strobele, Caljon H.; Adams, James C., Jr.; Anderson, Wilfred King; Bargen, David W.; Eppstein, Anthony D.; Fletcher, Martin Wallace; Pearson, Willard C.; Taylor, Kenneth I.; and Youngstrom, Jerry R., 3,748,381.

Anderson, William C.; and Bleeker, Raymond A., to Westinghouse Electric Corporation. Utility line holder. 3,759,297, 9-18-73, Cl. 138-156.000.

Anderson, William C.; and Bleeker, Raymond A., to Westinghouse Electric Corporation. Space divider system and connector assembly therefor. 3,762,116, 10-2-73, Cl. 52-239.000.

Anderson, William F.: *See—*
Thorel, John P.; and Anderson, William F., 3,726,761.

Anderson, William G. Freezer with removable conveyor and refrigerating means. 3,772,898, 11-20-73, Cl. 62-302.000.

Anderson, William J., to Solar Hardware Corporation. Modern door knocker. 3,734,054, 5-22-73, Cl. 116-148.000.

Anderson, William J., to United States of America, National Aeronautics and Space Administration. High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series. 3,759,588, 9-18-73, Cl. 308-35.000.

Anderson, William M.: *See—*





Hazzard, Noel D.; and Anderson, William M., 3,780,676.

Anderson, William M.; Liu, Han; and Stockman, Richard F., to Air Preheater Company, Inc., The. Modulated fuel. 3,727,564, 4-17-73, Cl. 110-8.00r.

Anderson, William M.; and Dervay, John R., to Air Preheater Company, Inc., The. Electro-bag dust collector. 3,733,784, 5-22-73, Cl. 55-117.000.

Anderson, William M.; and Renko, Ronald J., to Air Preheater Company, Inc., The. Bag filter arrangement. 3,739,557, 6-19-73, Cl. 55-302.000.

Anderson, William Paul: *See—*
Kalikow, Irving; Sterling, Eliot Morton; and Anderson, William Paul, 3,712,756.

Anderson, William R. Heat shield. 3,724,024, 4-3-73, Cl. 16-116.000.

Anderson, William R. Window shade bracket extension. 3,724,794, 4-3-73, Cl. 248-268.000.

Anderson, William S., to Shell Oil Company. Process for light-induced curing of epoxy resin in presense of cyclopentadienylmanganese tricarbonyl compounds. 3,709,861, 1-9-73, Cl. 260-47.0ec.

Anderson, William S. Cyclopentadienylmanganese tricarbonyl compounds as a catalyst for the radiation curing of polyepoxides. 3,714,006, 1-30-73, Cl. 204-159.140.

Anderson, William S. Block copolymers as viscosity index improvers for lubricating oils. 3,763,044, 10-2-73, Cl. 252-59.000.

Anderson-Cook Incorporated: *See—*
Anderson, Marvin R.; and Jungesjo, Harald N., 3,744,357.

Anderson-Jacobson, Inc.: *See—*
Keith, Craig L., 3,733,437.

Andersson, Anders; Lagerqvist, Roger; and Stenlund, Stig, to Monsun-Tison AB. Control device for controlling preferably several fluids pressure operated objects. 3,727,403, 4-17-73, Cl. 60-427.000.

Andersson, Anders R.; and Bjorklund, Anders, to Allmanna Svenska Elektriska Aktiebolaget. Insulated coil for arrangement in a slot in the stator or rotor of an electrical machine. 3,723,797, 3-27-73, Cl. 310-196.000.

Andersson, Anders R.; Bjorklund, Anders; and Virsberg, Lars-Goran, to Allmanna Svenska Elektriska Aktiebolaget. Insulated coil for arrangement in a slot in the stator or rotor of an electric machine. 3,775,628, 11-27-73, Cl. 310-208.000.

Andersson, Anders Walter: *See—*
Hansson, Hans John Olof, 3,761,099.

Andersson, Bjorn Axel Henning, to AB Hagglund & Soner. Track chain for tracked vehicles. 3,721,476, 3-20-73, Cl. 305-35.00r.

Andersson, Bror Axwl Erling: *See—*
Andersson, Erik Arne; and Andersson, Bror Axwl Erling, 3,736,928.

Andersson, Erik Arne; and Andersson, Bror Axwl Erling, to Rundblad, Nils, O. W. Collapsible face mask. 3,736,928, 6-5-73, Cl. 128-146.200.

Andersson, Henry; Dahl, Goran; and Arnell, C. G. Powder propellant cartridge. 3,734,024, 5-22-73, Cl. 102-100.000.

Andersson, Johan B.; and Lindbergh, Karl E. E., to Aktiebolaget Tudor. Method of making tubular battery electrode. 3,725,130, 4-3-73, Cl. 136-63.000.

Andersson, John-Erik, to Aktiebolaget Bofors. Tubular transducer with strain gauges and sensitive to a force transmitted to its end surfaces via load surfaces. 3,736,795, 6-5-73, Cl. 73-141.00a.

Andersson, John-Erik; Gustafsson, Jan Kenneth; Haggstrom, Rolf Paul; and Karlsson, Bengt-Ake, to Aktiebolaget Bofors. Weighing device with cantilever weighing cells. 3,741,328, 6-26-73, Cl. 177-210.000.

Andersson, John-Erik, to Aktiebolaget Bofors. Load cell comprising two movable members in a measuring direction. 3,772,912, 11-20-73, Cl. 73-141.00a.

Andersson, Karl Ivan. Adjustable tool holder. 3,747,180, 7-24-73, Cl. 29-97.500.

Andersson, Lars Marten, to Molnlycke AB. Method and apparatus for obtaining transverse mutual joining of superimposed continuous webs. 3,759,772, 9-18-73, Cl. 156-270.000.

Andersson, Leif, to Siccor Ltd. Freight aircraft loading and unloading plant. 3,730,359, 5-1-73, Cl. 214-38.00d.

Andersson, Lennart, to Strabruken AB. Refractory mass. 3,743,524, 7-3-73, Cl. 106-58.000.

Andersson, Lennart Valentin, to Mediada AB. Anaesthetic apparatus. 3,747,600, 7-24-73, Cl. 128-188.000.

Andersson, Lennart Valentin. Mixing valve for two gases. 3,765,451, 10-16-73, Cl. 137-625.400.

Andersson, Louis. Combustion gas generator. 3,733,820, 5-22-73, Cl. 60-39.770.

Andersson, Per Lennart: *See—*
Le Gault, Richard L.; and Andersson, Per Lennart, 3,734,010.

Andersson, Rune Siqvard. Valved pipe line connection. 3,724,810, 4-3-73, Cl. 251-145.000.

Andersson, Sven E.: *See—*
Johansson, Lennart J. I.; Andersson, Sven E.; and Eliasson, Jan A., 3,765,115.

Andersson, Sven Gerhard: *See—*
Backlund, Sven-Erik, 3,759,201.

Andersson, Sven Gote. Hotel signalling system. 3,754,227, 8-21-73, Cl. 340-286.000.

Andersson, Tage Vilhelm Leander; Isheden, Lars Rune; Johansson, Bo Emil; and Warring, Stig Erik, to Telefonaktiebolaget L M Ericsson. Alarm system for monitoring a plurality of serially connected objects utilizing signal translation techniques. 3,710,372, 9-73, Cl. 340-276.000.

Anderton Springs Limited: *See—*
Maude, Stanley Morgan, 3,758,923.

Andeweg, Frits J. Wax shade. 3,748,464, 7-24-73, Cl. 240-108.00r.

Andeweg, Frits J. Internally illuminated candle. 3,761,702, 9-25-73, Cl. 240-2.00r.

Andeweg, Frits J. Candle internal illuminator and mount base. 3,762,857, 10-2-73, Cl. 431-253.000.

Andis, Allen Richard. Hydraulically-actuated omni-directional fluid valve. 3,754,574, 8-28-73, Cl. 137-625.660.

Andis, Allen Richard. Omni-directional fluid-control valve. 3,757,819, 9-11-73, Cl. 137-625.230.

Andis Clipper Co.: *See—*
Reynolds, Raymond B., 3,735,488.

Ando, Akira, to Ricoh Co., Ltd. Flutter resisting magneto recording and reproducing apparatus. 3,770,906, 11-6-73, Cl. 179-100.20c.

Ando, Fumio: *See—*
Eguchi, Fumio; and Ando, Fumio, 3,726,992.

Ando, Fumio; Kitahama, Hideharu; and Sugiyama, Kazuhiro, to Ibigawa Electric Industry Co., Ltd. Method of manufacturing a resinous decorative laminate having a lustrous pattern of really metallic surface. 3,716,440, 2-13-73, Cl. 156-277.000.

Ando, Hiei, to American Cyanamid Company. N-Succinimide additives for azide imaging systems. 3,716,367, 2-13-73, Cl. 96-91.000.

Ando, Hiei, to American Cyanamid Company. N-succinimide additives for azide imaging systems. 3,779,762, 12-18-73, Cl. 96-48.00r.

Ando, Kazuhiko; Omino, Teiji; and Imamura, Kennosuke, to Sankyo Company Limited and Nippon Chemical Industrial Company, Limited. Phosphorus acid esters and method for combatting insects therewith. 3,708,557, 1-2-73, Cl. 260-940.000.

Ando, Kunio; Oishi, Hideo; Sagawa, Takao; and Hirano, Seiji, to Chugai Seiyaku Kabushiki Kaisha. Antibiotic complex S-3466 and process for making same. 3,743,724, 7-3-73, Cl. 424-122.000.

Ando, Masahisa; and Hayashi, Kunihisa, to Toyota Jidosha Kogyo Kabushiki Kaisha. Process control system by means of pattern recognition. 3,775,592, 11-27-73, Cl. 235-61.60a.

Ando, Masamoto, to Aisin Seiki Kabushiki Kaisha. Anti-skid brake system. 3,741,612, 6-26-73, Cl. 303-21.00f.

Ando, Masao, to Chisso Corporation. Fixing heat-generating pipe utilizing skin effect current. 3,718,804, 2-27-73, Cl. 219-301.000.

Ando, Masao, to Chisso Corporation. Elongated heat-generating apparatus providing for a reduction in the highest voltage to be applied. 3,755,650, 8-28-73, Cl. 219-301.000.

Ando, Masao, to Chisso Corporation. Apparatus for heating the surface of constructions. 3,780,250, 12-18-73, Cl. 219-10.490.

Ando, Motonobu,: *See—*
Sekiya, Setsuro; Ando, Motonobu,; and Nunotaki, Yoshihiro, 3,744,274.

Ando, Noriyoshi: *See—*
Oishi, Kazuo; Kurebayashi, Tokuhiro; Ando, Noriyoshi; Yamamoto, Noboru; Toda, Tadahide; Nohira, Hidetaka; and Katoh, Takashi, 3,718,126.
Oishi, Kazuo; Yoshida, Hiroshi; Ando, Noriyoshi; and Kurebayashi, Tokuhiro, 3,719,177.
Oishi, Kazuo; Kurebayashi, Tokuhiro; and Ando, Noriyoshi, 3,749,070.

Ando, Ryo; Fukushima, Tsutomu; Bando, Masayoshi; and Honda, Akira, to Nippon Kokan Kabushiki Kaisha. Apparatus for refining molten iron and molten iron alloys. 3,729,183, 4-24-73, Cl. 226-34.00a.

Ando, Ryo; and Fukushima, Tsutomu, to Nippon Kokan Kabushiki Kaisha. Continuous method of steel making. 3,754,892, 8-28-73, Cl. 75-46.000.

Ando, Sadanao: *See—*
Akiyama, Hideaki; and Ando, Sadanao, 3,711,741.

Ando, Sadanao; and Miyagawa, Umihiro, to Kabushiki Kaisha Ricoh. Electrostatic image developing device. 3,745,898, 7-17-73, Cl. 95-13.000.

Ando, Sadao, to Yamatake Honeywell Co., Ltd. Releasable locking mechanism for pushbutton switch with pilot-lamp assembly. 3,731,028, 5-1-73, Cl. 200-167.00a.

Ando, Satoshi; Matsui, Masao; and Ogata, Fumimaro, to Kanegafuchi Boseki Kabushiki Kaisha and Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Composite filaments and spinneret and method for producing same. 3,725,192, 4-3-73, Cl. 161-15.000.

Ando, Seigo: *See—*
Mori, Toshihiro; and Ando, Seigo, 3,721,896.

Ando, Shigeru: *See—*
Okada, Kazdo; and Ando, Shigeru, 3,757,125.

Ando, Shizuo, to Pioneer Electronic Corporation. Controller device of an automatic telephone answering apparatus. 3,711,649, 1-16-73, Cl. 179-6.00r.

Ando, Shizuo. Telephone speech recording device. 3,752,930, 8-14-73, Cl. 179-6.00r.

Ando, Shoichi; and Yoshiko, Shinji, to Hida Denki Kogyo Kabishiki Kaisha. Apparatus for taking tomograms of parabolically curved objects. 3,737,660, 6-5-73, Cl. 250-50.000.

Ando, Sutematsu, to Century Products, Inc. Inflatable chair. 3,712,674, 1-23-73, Cl. 297-456.000.

Ando, Tadanao; Kataoka, Seiichi; and Shiihara, Isao, to Industrial Science & Technology, Agency of. Linear polyamides having high glass transition temperature prepared 4-(3-amino-propoxy)-phenyl-3-propylamine. 3,725,347, 4-3-73, Cl. 200-47.0cz.

Ando, Yasuo: *See—*
Miyashiro, Yutaka; and Ando, Yasuo, 3,742,017.

Ando, Yujiro: *See—*
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Saito, Takashi; and Ando, Yujiro, 3,760,152.

Ando, Yuzo; and Kogure, Motoo, to Konishiroku Photo Industry Co., Ltd. Sublayer for photographic polyester film base. 3,738,838, 6-12-73, Cl. 96-87.000.

Andolino, Joseph P. Bowling glove. 3,728,738, 4-24-73, Cl. 2-161.00a.

Andoo, Takemitsu: *See—*
Nomura, Junichi; and Andoo, Takemitsu, 3,750,580.

Andow, Paul; Guillen, David; and Diaz, Raul G. Walker with adjustable crutch head supports. 3,778,052, 12-11-73, Cl. 272-70.400.

Andra, Wolfhart; Beyer, Erwin; Leonhard, Fritz; Thul, Heribert; and Winter-Gerst, Louis, to Gutehoffnungshutte Sterkrade Aktiengesellschaft. Bearings for bridges and similar structures. 3,728,752, 4-24-73, Cl. 14-16.000.

Andrade, John W.; and Howe, Kenneth G., to Corning Glass Works. Container stopper restraining device. 3,774,798, 11-27-73, Cl. 215-94.000.

Andrae, Gunter; and Uden, Edward, to U.S. Philips Corporation. Method of manufacturing semiconductor high-voltage rectifiers. 3,742,589, 7-3-73, Cl. 29-577.000.

Andras, John, to VSI Corporation. Mold base adapter. 3,717,428, 2-20-73, Cl. 425-191.000.

Andre, Elie: *See—*
Mahieu, Marc; Andre, Elie; and Le Duc, Jean-Marc, 3,764,408.

Andre, Marshall L., to Shell Oil Company. Method and apparatus for detecting liquid compositions by thermal conductivity. 3,712,116, 1-23-73, Cl. 73-53.000.

Andreacchio, Nicholas. Cover device for wall-mounted toilet accessory. 3,760,976, 9-25-73, Cl. 220-32.000.

Andreae & Mayer GmbH: *See—*
Borner, Helmut, 3,779,358.

Andreas, Holger: *See—*
Weisfeld, Lewis B.; Andreas, Holger; and Muller, Horst, 3,725,338.

Andreas Stihl Maschinenfabrik: *See—*
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Andreasen, Alfred C., to New-Way Products Company. Die actuator. 3,710,410, 1-16-73, Cl. 10-89.00r.

Andreasen, Frederick J.: *See—*
Neitzel, Ulrich E. G.; and Andreasen, Frederick J., 3,726,965.
Neitzel, Ulrich E. G.; and Andreasen, Frederick J., 3,772,202.

Andreasen, Leif: *See—*
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Andreassen, Bjorn Arild: *See—*
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Andreassen, Knut Anton: *See—*
Blaker, Ivar; Boyum, Oystein; Andreassen, Knut Anton; Lunde, Reidar Skipperud; and Tveten, Kjell Wallin, 3,760,050.

Andreasson, Sven: *See—*
Miels, Edward T.; and Andreasson, Sven, 3,750,912.

Andreatch, Peter, Jr.; and Fisher, George Myles Cordell, to Bell Telephone Laboratories, Incorporated. Light guide paths comprising densified regions in a transparent medium and method of producing. 3,719,462, 3-6-73, Cl. 65-30.000.

Andree, Franz; Burkhardt, Hans; and Riedel, Guenther, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Rhodamine dyes which are sparingly soluble or insoluble in water. 3,708,499, 1-2-73, Cl. 260-336.000.

Andreev, Valentin Efimovich; Pankovsky, Vyacheslav Ivanovich; Golub, Taras Fedorovich; and Buryabash, Alexei Nikolaevich; deceased (by Buryabash, Nelya Vasilievna; administrator). Method of erecting monolithic concrete and reinforced concrete constructions 3,778,491, 12-11-73, Cl. 264-32.000.

Andreeva, Maria Kuzminicha: *See—*
Panina, Marina Alexeevna; Kleiner, Gersh Izrailevich; Strukov, Ivan Timofeevich; Zdobnova, Alexandra Fedorovna; Andreeva, Maria Kuzminicha; and Ryabova, Nonna Mikhailovna, 3,728,333.

Andrejewski, Bernard R.: *See—*
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Andren, Earl A.: *See—*
Riley, D. Richard; and Andren, Earl A., 3,780,282.

Andreola, John J.: *See—*
Wilder, Thomas C.; and Andreola, John J., 3,753,686.

Andreoli, Mario. Compoundable unit air conditioning apparatus. 3,774,680, 11-27-73, Cl. 165-122.000.

Andreotti, Eugene R.; and McGee, Sherwood W., to Amsted Industries, Incorporated. Structural alloy steel containing copper and other alloy elements. 3,708,281, 1-2-73, Cl. 75-124.000.

Andres, Bugaut: *See—*
Kalopissis, Gregoire; Andres, Bugaut; and Vahn, Zorayan, 3,742,048.

Andres, Edward J., to Aluminite Manufacturing Company, Inc. Adjustable sliding screen door. 3,710,839, 1-16-73, Cl. 160-372.000.

Andres, Rudolf; Stolz, Albert; and Moller, Hermann, to Daimler-Benz Aktiengesellschaft. Control device for controlling heating and air-conditioning installations in motor vehicles. 3,724,752, 4-3-73, Cl. 236-86.000.

Andres, Rudolf, to Daimler-Benz Aktiengesellschaft. Lock arrangement for a door of a motor vehicle. 3,729,220, 4-24-73, Cl. 292-336.300.

Andres, Rudolf; Kolle, Erwin; and Binder, Rudolf, to Daimler-Benz Aktiengesellschaft. Safety belt installation. 3,746,393, 7-17-73, Cl. 297-385.000.

Andres, Rudolf, to Daimler-Benz Aktiengesellschaft. Installation for the venting of a fuel tank of a vehicle. 3,749,124, 7-31-73, Cl. 137-587.000.

Andres, Rudolf, to Daimler-Benz Aktiengesellschaft. Pneumatic servomotor. 3,777,625, 12-11-73, Cl. 92-48.000.

Andresen, Jens Nicolai, to Danfoss A/S. Snap-action electric switch. 3,735,069, 5-22-73, Cl. 200-67.00d.

Andresen, Jens Nicolai. Snap-action electric switch. 3,735,080, 5-22-73, Cl. 200-67.00p.

Andresen, Jens Nicolai, to Danfoss A/S. Temperature responsive switch. 3,771,090, 11-6-73, Cl. 337-318.000.

Andresen, John H., Jr., to Intercontinental Dynamics Corporation. Plural input mode servo driven air data computer. 3,742,325, 6-26-73, Cl. 318-591.000.

Andresen, Otto: *See—*
Aunstrup, Knud; Andresen, Otto; and Outtrup, Helle, 3,723,250.

Andresen, Rolf, to International Business Machines Corporation. Method and apparatus for amplitude sensing and data gating in a magnetic-storage device with digital interface. 3,725,885, 4-3-73, Cl. 340-174.10h.

Andresen, Sigurd, to Airco, Inc. Power supply. 3,748,536, 7-24-73, Cl. 317-16.000.

Andress, Harry J., Jr.; and Ashjian, Henry, to Mobil Oil Corporation. Reaction products of an amine and a methyl vinyl ether-maleic anhydride copolymer. 3,729,452, 4-24-73, Cl. 260-78.0ua.

Andress, Harry J., Jr., to Mobil Oil Corporation. Reaction products of amine derivatives of 1-olefin/maleic anhydride copolymers and methyl vinyl ether-maleic anhydride copolymers as anti-static agents. 3,729,529, 4-24-73, Cl. 260-897.00b.

Andress, Harry J., Jr., to Mobil Oil Corporation. Mixtures of secondary $C_6$ to $C_9$ trialkyl phenols as antioxidants. 3,759,831, 9-18-73, Cl. 252-52.00r.

Andreux, Bernard, to Regie Nationale des Usines Renault. Cooling system expansion chambers. 3,741,172, 6-26-73, Cl. 123-41.270.

Andrew California Corporation: *See—*
Dienes, Geza, 3,771,162.

Andrew Corporation: *See—*
Clarricoats, Peter J. B., 3,772,619.
Johnson, Ernest H.; and Ricker, Conrad J., 3,745,232.
Johnson, Ernest H., 3,780,556.
Phillips, James P., 3,771,161.

Andrew, Daniel Edward. Endotracheal tube clamp. 3,760,811, 9-25-73, Cl. 128-351.000.

Andrew, Eugene A., to Olin Corporation. Safety system for explosive powder storage bin. 3,713,359, 1-30-73, Cl. 86-1.000.

Andrew, Eugene A., to Olin Corporation. Safety system for explosive powder storage bin. 3,730,049, 5-1-73, Cl. 86-1.000.

Andrew, Frederick Lyle: *See—*
Fetter, Edward Joseph; and Andrew, Frederick Lyle, 3,736,282.

Andrews, Barry Stewart; Fitzgerald, Desmond Elwyn; and Lewis, Ian Edward, to Conzinc Riotinto of Australia, Limited. Feeding ores or concentrates to smelting furnaces. 3,781,001, 12-25-73, Cl. 266-41.000.

Andrews, Brian; Pilkington, James Christopher; and Riley, Brian William, to Pilkington Brothers Limited. Packages of glass in sheet form. 3,709,358, 1-9-73, Cl. 206-62.00r.

Andrews, Charles Luther, to General Electric Company. Microwave detection instrument and antenna therefor. 3,721,900, 3-20-73, Cl. 324-95.000.

Andrews, Clarence W., Jr. Bench for simulating and developing swimming movements. 3,731,921, 5-8-73, Cl. 272-71.000.

Andrews, Daniel E., Jr. Strength members and structural components integrally containing fiber optic elements. 3,740,116, 6-19-73, Cl. 350-96.00b.

Andrews, Daniel E., Jr. Buoyant electrical cables. 3,766,307, 10-16-73, Cl. 174-47.000.

Andrews, David; and Saucy, Gariel, to Hoffmann-La Roche Inc. Selective allylic oxidation process. 3,716,561, 2-13-73, Cl. 260-345.900.





Andrews, David Arthur, to Toms River Chemical Corporation. Preparation of 1,4-diamino-2-alkoxy (phenoxy)-anthraquinones. 3,715,373, 2-6-73, Cl. 260-380.000.

Andrews, Del; and Kuhlman, Ora Florentine. Method and apparatus for facilitating diver operations. 3,777,498, 12-11-73, Cl. 61-69.00r.

Andrews, Douglas R.; deceased (by Andrews, Marjorie E.); and Kimmel, Milton J., said Kimmel assor. to International Business Machines Corporation. Pattern-size normalizing for recognition apparatus. 3,710,323, 1-9-73, Cl. 340-146.30h.

Andrews, Edward George David, to Rolls-Royce Limited. Seal release for a pressure vessel. 3,726,433, 4-10-73, Cl. 220-46.000.

Andrews, Edward George David; Ward, Robert George; Holliday, John Bertram; and Hurst, James, to Rolls-Royce Limited. Gas turbine engines. 3,742,707, 7-3-73, Cl. 60-59.00t.

Andrews, Edward N., Sr. Tool holder with angle-index. 3,735,461, 5-29-73, Cl. 29-98.000.

Andrews, Eugene Walter; and Klein, Donald Robert, said Klein assor. to Sheller-Globe Corporation and said Andrews assor. to Ford Motor Company. Plastic wheel cover. 3,747,984, 7-24-73, Cl. 301-37.00p.

Andrews, George F., to United States of America, Navy. Sea state analyzer using radar sea return. 3,731,306, 5-1-73, Cl. 343-5.00r.

Andrews, George J.; and Rosen, Harold A., to Hughes Aircraft Company. Spin stabilized vehicle and solar cell arrangement therefor. 3,722,840, 3-27-73, Cl. 244-1.0ss.

Andrews, George M., to Vega Industries, Inc. Fireplace unity with thin rear firebox wall. 3,744,477, 7-10-73, Cl. 126-120.000.

Andrews, George M., to Vega Industries, Inc. Fireplace unit with controllable heat circulation. 3,762,391, 10-2-73, Cl. 126-121.000.

Andrews, Harry E., to Production Tube Company, Inc. Push rod structure. 3,749,068, 7-31-73, Cl. 123-90.610.

Andrews, Harry N.: *See—*
Frisch, Erling; and Andrews, Harry N., 3,752,737.
Frisch, Erling; and Andrews, Harry N., 3,766,006.
Frisch, Erling; and Andrews, Harry N., 3,775,246.

Andrews, Harry N.; Frisch, Erling; Singleton, Norman R.; and Stein, Phillip C., to Westinghouse Electric Corporation. Fluid pressure regulating and control device. 3,720,222, 3-13-73, Cl. 137-154.000.

Andrews, Henry J., Jr.: *See—*
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Andrews, Holt; and Bedrosian, Sirvart K., to Lipton, Thomas J., Inc. Green pea soup mix and method for making the same. 3,752,677, 8-14-73, Cl. 99-124.000.

Andrews, James E., to Motorola, Inc. Priority channel scanning system with dual response time control. 3,750,032, 7-31-73, Cl. 325-770.000.

Andrews, James S., to American Stress Wire Corporation. Apparatus for detensioning stranded cable. 3,778,869, 12-18-73, Cl. 24-115.00r.

Andrews, James T.: *See—*
Benson, Wilfred Y.; and Andrews, James T., 3,741,109.

Andrews, John E., Jr.: *See—*
Wronka, Adolph A.; Banker, Bernard R.; Andrews, John E., Jr.; and Kliem, Bernd W. A., 3,717,097.

Andrews, John Marshall, Jr.; and Lepselter, Martin Paul, to Bell Telephone Laboratories, Incorporated. Solid state temperature sensor employing a pair of dissimilar Schottky-barrier diodes. 3,719,797, 3-6-73, Cl. 219-501.000.

Andrews, Lamont F. Building component construction. 3,739,541, 6-19-73, Cl. 52-220.000.

Andrews, Leonard S.: *See—*
Endicott, Clarence J.; Brown, Paul W.; and Andrews, Leonard S., 3,746,554.

Andrews, Marjorie E.: *See—*
Andrews, Douglas R.; and Kimmel, Milton J., 3,710,323.

Andrews Paper & Chemical Co., Inc.: *See—*
Muller, Peter, 3,708,301.

Andrews, R. Eugene, to Tektronix, Inc. Automatic focus control circuit for a cathode ray oscilloscope. 3,754,159, 8-21-73, Cl. 315-31.00r.

Andrews, Ray L.: *See—*
Alm, Gerald F.; Alm, Donald S.; Harvey, Ralph R.; Harvey, Robert L.; Andrews, Ray L.; and Lewis, Keith B., 3,749,376.

Andrews, Robert S., to McDonnell Douglas Corporation. Hydraulic system. 3,733,969, 5-22-73, Cl. 91-421.000.

Andrews, Robert S., Jr.; and McDaniels, William C., to National Lead Company. Lignite products and compositions thereof. 3,775,447, 11-27-73, Cl. 260-404.500.

Andrews, Robert W.: *See—*
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Andrews, Theodore E.: *See—*
Snelling, Charles D.; Andrews, Theodore E.; and Weller, John J., 3,754,064.

Andrews, Theodore E.; and Weller, John J., to Armstrong Cork Company, mesne. Slitting machine. 3,715,941, 2-13-73, Cl. 83-7.000.

Andrews, Theodore E.; and Weller, John J., to Armstrong Cork Company, mesne. Slitting and routing machine. 3,745,621, 7-17-73, Cl. 29-33.00d.

Andrews, Theodore E., to Armstrong Cork Company. Conveyor-mold construction. 3,746,487, 7-17-73, Cl. 425-184.000.

Andrews, Thomas Clyde: *See—*
Crittenden, Eugene Casson, Jr.; King, Richard Allan; and Andrews, Thomas Clyde, 3,727,069.

Andrews, Violet Katzner. Music educational system. 3,769,872, 11-6-73, Cl. 84-470.000.

Andrews, Weldon R., to Sealth Aero Marine. Frictionless cabinet latch. 3,743,336, 7-3-73, Cl. 292-173.000.

Andrews, William L. Flexible ladder. 3,741,340, 6-26-73, Cl. 182-196.000.

Andrews, William P.; and Beuth, Jack L., to Reynolds Metals Company. Method of making a decorative lamination. 3,749,629, 7-31-73, Cl. 156-276.000.

Andrews, William P.; and Serio, Vincent J., Jr., to Reynolds Metals Company. Blank constructions for hermetically sealed cartons and methods of forming same. 3,754,456, 8-28-73, Cl. 93-41.000.

Andreyko, Michael; and Follmer, William C., to Philco-Ford Corporation. Automotive anti-skid braking. 3,764,182, 10-9-73, Cl. 303-21.0eb.

Andrianov, Vasily Sergeevich. Method of manufacturing cores of electrical devices. 3,769,700, 11-6-73, Cl. 29-607.000.

Andrich, Wolfgang: *See—*
Cramer, Bernhard; and Andrich, Wolfgang, 3,777,155.

Andrieu, Andre. Method for improving the chemical durability of opal glasses. 3,741,861, 6-26-73, Cl. 161-166.000.

Andringa, Keimpe, to Raytheon Company. Q-switched laser system. 3,740,663, 6-19-73, Cl. 331-94.500.

Andringa, Keimpe, to Raytheon Company. Laser gyroscope. 3,741,657, 6-26-73, Cl. 356-106.0lr.

Andriulis, Vytautas, to Cenco Incorporated. Vacuum gauge. 3,768,312, 10-30-73, Cl. 73-400.000.

Andrle, Stephen G.: *See—*
Beveridge, Thomas E.; and Andrle, Stephen G., 3,762,762.

Andros Incorporated: *See—*
Link, William T., 3,725,701.

Andrus, Elwin L.: *See—*
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Andrus, Ronald G.: *See—*
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Schmidt, Albert S., Sr.; Irving, Frank M., Jr.; Andrus, Ronald G.; and Amy, Sherwood F., 3,760,553.

Andruski, Ryszard; Jedraska, Maria; Lichtensztejn, Hersz; and Leszczynski, Zbigniew, to Instytut Pryzemyslu Organicznego. Method of preparing dimethylsulphoxide. 3,773,838, 11-20-73, Cl. 260-607.00a.

Andruskiewicz, Julian. Wallboard staple. 3,741,068, 6-26-73, Cl. 85-13.000.

Andrysiak, Carl D., to Corning Glass Works. Header system for forming multi-bore tubing. 3,743,494, 7-3-73, Cl. 65-126.000.

Andrysiak, Carl D.; and Wilson, Richmond W., to Corning Glass Works. Method and apparatus for forming multi-bore tubing. 3,746,085, 7-17-73, Cl. 165-172.000.

Andrysiak, Stanislaw J.; and McKenna, Ronald F., to Bell Aerospace Company. Cooled pintle assembly. 3,712,063, 1-23-73, Cl. 60-265.000.

Andrzejak, Sigmund L.; and Berg, Raymond B., to United States Steel Corporation. Method and device for shrouding a stream of metal teemed through a slidable gate. 3,749,387, 7-31-73, Cl. 266-38.000.

Andvari Incorporated: *See—*
Krumme, John Frederick; and Ford, Donald Thomas, 3,735,728.

Aneja, Rajindra; and Chadha, Jaswinder Singh, to Lever Brothers Company. Phosphatide separation. 3,752,833, 8-14-73, Cl. 260-403.000.

Anelli, Peter: *See—*
Meyer, Bennett A.; Burns, Thomas A.; and Anelli, Peter, 3,731,309.

Anello, Louis G.; and Sweeney, Richard P., to Allied Chemical Corporation. Perfluoro cycloalkyl acrylates. 3,723,507, 3-27-73, Cl. 260-486.00h.

Anello, Louis G.; and Sweeney, Richard F., to Allied Chemical Corporation. Novel fluorinated aliphatic triethers. 3,739,033, 6-12-73, Cl. 260-615.00f.

Anello, Louis G.; Sweeney, Richard F.; and Litt, Morton H., to Allied Chemical Corporation. Novel esters of polyfluoroisoalkoxy alkanols. 3,754,009, 8-21-73, Cl. 260-408.000.

Anello, Louis G.; and Sweeney, Richard F., to Allied Chemical Corporation. Novel sulfates and method for their preparation. 3,758,543, 9-11-73, Cl. 260-458.000.

Anello, Louis G.; and Sweeney, Richard F., to Allied Chemical Corporation. Polyfluoroisoalkoxyalkyl substituted amines and quaternary ammonium salts. 3,766,274, 10-16-73, Cl. 260-584.00c.

Anello, Louis G.; Sweeney, Richard F.; and Litt, Morton H., to Allied Chemical Corporation. Novel fluorinated alochols. 3,781,370, 12-25-73, Cl. 260-615.00f.

Aneshansley, Nicholas E., to National Cash Register Company, The. Nonvolatile memory cell. 3,761,901, 9-25-73, Cl. 340-173.00r.

Aneshansley, Nicholas E., to National Cash Register Company, The. Nonvolatile capacitive memory cell. 3,771,148, 11-6-73, Cl. 340-17.30r.

Anetsberger Brothers, Inc.: *See—*
Anetsberger, Richard J.; and Anetsberger, John A., 3,760,793.
Meyer, Alfred L., 3,771,403.
Meyer, Alfred Lake, 3,712,165.

Anetsberger, John A.: *See—*
Anetsberger, Richard J.; and Anetsberger, John A., 3,760,793.

Anetsberger, Richard J.; and Anetsberger, John A., to Anetsberger Brothers, Inc. Deep fat fryer. 3,760,793, 9-25-73, Cl. 126-391.000.

Anfindsen, Ole Arnt. Apparatus for the adjustment of the working pressure of a tool. 3,753,384, 8-21-73, Cl. 90-24.00r.

Anfossi, Henri; and Poupin, Raymond, to Service D'Exploitation Industrielle des Tabacs et des Allumettes. Device for conveying rod-shaped objects and especially cigarettes. 3,712,455, 1-23-73, Cl. 198-165.000.

Ang, Choh-Yi; and Mills, George J., to Northrop Corporation. Stripline assembly for use in microwave circuits and method of fabricating same. 3,769,619, 10-30-73, Cl. 333-84.00m.

Ang, Leoncio Tan: *See—*
Slavin, Michael; Emery, Raymen Forrest; Carp, Ralph Wolf; and Ang, Leoncio Tan, 3,727,517.

Angel, Alta M.; and Angel, Kenneth G. Paper coveralls with stitched-in feet covers. 3,772,705, 11-20-73, Cl. 2-79.000.

Angel, Henry R., to General Science Corporation. Self priming conductivity cell. 3,781,675, 12-25-73, Cl. 324-71.0cp.

Angel, Henry S.: *See—*
Kuo, Charles C. Y.; and Angel, Henry S., 3,769,382.

Angel, Kenneth G.: *See—*
Angel, Alta M.; and Angel, Kenneth G., 3,772,705.

Angelbeck, Albert W.: *See—*
Pinsley, Edward A.; Angelbeck, Albert W.; and Buczek, Carl J., 3,761,836.

Angelbeck, Albert W., to United States of America, Navy. High frequency lad line using low frequency detectors. 3,754,142, 8-21-73, Cl. 250-199.000.

Angele, Eugen: *See—*
Striegler, Werner; and Angele, Eugen, 3,712,256.

Angele, Eugen, to Pfaff Industriemaschinen GmbH. Material pressure foot for sewing machines. 3,776,159, 12-4-73, Cl. 112-235.000.

Angele, Wilhelm, to United States of America, National Aeronautics and Space Administration. Cryogenic gyroscope housing. 3,763,708, 10-9-73, Cl. 74-5.700.

Angeleri, Emanuele; Bonatti, Mario; Costa, Gianmario; and Boretti, Isidoro, to Societa Italiana Telecomunicazioni Siemens S.p.A. Circuit arrangement for utilizing idle channels of multiplex telecommunication system for data transmission. 3,708,625, 1-2-73, Cl. 179-15.0by.

Angelery, Henry W.; and Mohr, Glenn R., to Aerco Corporation. Modulated output transformers. 3,716,719, 2-13-73, Cl. 307-17.000.

Angelery, Henry W. Fluid dynamically balanced valve. 3,756,283, 9-4-73, Cl. 137-630.150.

Angeles Metal Trim Co.: *See—*
Costruba, Peter, 3,714,748.

Angelica Corporation: *See—*
Hardy, John C., 3,714,947.
Hardy, John C., 3,738,367.
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Mirabella, Anthony C., 3,714,668.

Angelie, Philippe: *See—*
Lefevre, George; and Angelie, Philippe, 3,742,489.

Angelini, Antonio; Handel, Hubert; Landwehr, Heinz; Karlheinz, Hammelmann; Schöning, Josef; Schwenk, Bernd; and Huck, Gerhard, to Hochtemperstur-Reaktarbau GmbH. Control device for pebble-bed nuclear reactors. 3,751,336, 8-7-73, Cl. 176-36.00r.

Angelini, Dominic J., to Xerox Corporation. Photoreceptor interface. 3,713,821, 1-30-73, Cl. 96-1.500.

Angelini, Sergio. Method of carrying out continuous thick chrome plating of bars. 3,751,344, 8-7-73, Cl. 204-28.000.

Angell, Robert H.; and Frielich, Robert S. Dual protection safety device for semi-automatic pistol. 3,750,531, 8-7-73, Cl. 89-148.000.

Angelo, Rudolph J.; Darms, Ronald; and Wysong, Robert D., to Du Pont de Nemours, E. I., and Company. Melt stable polyketone compositions. 3,767,620, 10-23-73, Cl. 260-47.00r.

Angeloff, Charles J. Method of manufacture of bow string. 3,714,316, 1-30-73, Cl. 264-230.000.

Angelstrand, Borje; and Mostrom, Ragnar, to Saab-Scania Aktiebolag. Film moving means in machine for reading bubble chamber photographs. 3,715,086, 2-6-73, Cl. 242-67.300.

Angelucci, Joseph L.: *See—*
Angelucci, Thomas L.; Angelucci, Joseph L.; and Vilenski, Dan, 3,725,631.

Angelucci, Thomas L.; Angelucci, Joseph L.; and Vilenski, Dan, to Kulicke and Soffa Industries, Inc. Electro-mechanical servo drive. 3,725,631, 4-3-73, Cl. 219-69.00g.

Angely, Jean: *See—*
Corcelle, Francois; Angely, Jean; and Delort, Jean-Pierre, 3,743,776.

Angenuex-CIB S.A.: *See—*
Defour, Jean-Marie, 3,759,114.

Anger, Ernest G.; Richards, Giles J.; Bloodgood, John F.; and Geiger, Roy J., to Square D Company. Positioning control system for a machine that performs work on a moving part. 3,732,474, 5-8-73, Cl. 318-257.000.

Anger, Ernest G.; Richards, Giles J.; Bloodgood, John F.; and Geiger, Roy J., to Square D Company. Positioning control system for a machine that performs work on a moving part. 3,775,654, 11-27-73, Cl. 318-599.000.

Anger, Hal O., to United States of America, Atomic Energy Commission. Multiple lens camera for obtaining time sequential images. 3,748,992, 7-31-73, Cl. 95-36.000.

Angerman, Glenn Donald: *See—*
Fogarty, John Edward; Odar, Stanley Paul; and Angerman, Glenn Donald, 3,753,788.

Angersbach, Wolfgang; and Meier, Karl-Heinz, to Quick-Rotan Becker & Notz, KG. Arrangement for setting the speed of an electric motor, particularly the motor of an industrial sewing machine. 3,778,692, 12-11-73, Cl. 318-305.000.

Anghel, Sever, to International Telephone and Telegraph Corporation. Microstrip filter. 3,754,198, 8-21-73, Cl. 333-73.00s.

Angielski, Stefan: *See—*
Brzozowski, Zdzislaw; Angielski, Stefan; and Wojcikowski, Czeslaw, 3,780,058.

Angilella, Anthony G.; and Wallace, William P., to Dana Corporation. Piston ring. 3,770,286, 11-6-73, Cl. 277-235.00a.

Angliker, Hans-Joerg: *See—*
Hegar, Gert; Angliker, Hans-Joerg; and Peter, Richard, 3,755,287.
Peter, Richard; and Angliker, Hans-Joerg, 3,717,625.
Peter, Richard; Angliker, Hans-Joerg; and Casa, Angelo Della, 3,759,957.
Peter, Richard; Angliker, Hans-Joerg; and Casa, Angelo Della, 3,759,958.
Peter, Richard; Angliker, Hans-Joerg; and Casa, Angelo Della, 3,759,959.

Angliker, Hans-Joerg; and Peter, Richard, to Ciba-Geigy AG. Azole disazo dyestuffs. 3,712,881, 1-23-73, Cl. 260-158.000.

Angliker, Hans-Joerg; and Pater, Richard, to Ciba-Geigy AG. Water-insoluble azo dyestuff containing a 3-(2'-thienoyl- or furoylamino) aniline group. 3,751,405, 8-7-73, Cl. 260-158.000.

Angliker, Hans-Joerg; and Peter, Richard, to Ciba-Geigy AG. Heterocyclic disazo dyestuffs. 3,759,894, 9-18-73, Cl. 260-158.000.

Angliker, Hans-Joerg; and Peter, Richard, to Ciba-Geigy AG. Water-insoluble disazo dyestuffs for polyester. 3,770,718, 11-6-73, Cl. 260-175.000.

Angliss, Ian Bruce; and Lipson, Menzie, to Commonwealth Scientific and Industrial Research Organization. Process for coloring keratinous fibres with pigment. 3,711,316, 1-16-73, Cl. 117-55.000.

Anglo American Corporation of South Africa Limited: *See—*
Moore, Victor J., 3,722,869.
Swanepoel, Lourens Petrus, 3,714,558.

Anglo Paper Products, Limited: *See—*
Prochazka, Oldrich, 3,778,485.

Anglo-Transvaal Consolidated Investment Company, Limited: *See—*
Taylor, Richard F.; and Dimitriou, Christos, 3,778,106.
Taylor, Richard F., 3,778,113.
Taylor, Richard Francis, 3,743,033.
Taylor, Richard Francis, 3,749,448.
Taylor, Richard Francis, 3,765,725.

Angner, Ronald Joseph; and Daniele, Phillip Paul, to Bell Telephone Laboratories, Incorporated. Integrity check equipment for automatic trunk substitution. 3,718,781, 2-27-73, Cl. 179-175.300.

Angold, Edward Barnabas, to International Computers Limited. Magnetic recording apparatus with edge erase members which erase area between tracks. 3,725,607, 4-3-73, Cl. 179-100.20d.

Angst, Kurt; and Scheurer, Paul, to Rieter Machine Works, Ltd. Spindle for draw-twisting machines. 3,768,242, 10-30-73, Cl. 57-34.0pw.

Angstadt, John W.: *See—*
Wright, Edward S.; and Angstadt, John W., 3,736,182.
Wright, Edward S.; Angstadt, John W.; and Garrow, Gerald L., 3,754,468.
Wright, Edward S.; Angstadt, John W.; and Krolopp, Otto C., 3,776,382.

Angstadt, John W., to Blaw-Knox Food and Chemical Equipment, Inc. Method and apparatus for automatic cleaning of coffee roasters. 3,733,172, 5-15-73, Cl. 432-41.000.

Angsten, Robert J., to General Motors Corporation. Rotary combustion engine. 3,780,708, 12-25-73, Cl. 123-8.170.

Angstrohm-Precision Incorporated: *See—*





Schumer, Henry A., 3,749,347.

Angus, Charles D.; and Angus, John C., to Angus Research Corporation. Constant de[illegible] trolling device. 3,749,045, 7-31-73, Cl. 114-235.00b.

Angus, David R.; and Smith-Vaniz, William Reid, to General Computing Equipment Corporation. Electronic system employing plural processing stations for issuing airline boarding passes while effecting seat assignments, and generally for parcelling elements o an ordered set. 3,750,103, 7-31-73, Cl. 340-153.200.

Angus, George, & Company, Limited: *See—*
Galloway, Peter, 3,770,284.

Angus, John C.: *See—*
Angus, Charles D.; and Angus, John C., 3,749,045.

Angus Research Corporation: *See—*
Angus, Charles D.; and Angus, John C., 3,749,045.

Angus, William A.: *See—*
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Anhang, William: *See—*
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Anheuser-Busch, Incorporated: *See—*
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Kovats, Leslie P., 3,730,925.
Kovats, Leslie P., 3,732,206.
Kovats, Leslie P., 3,732,207.
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Latham, S. Duane; Seeley, Robert D.; Reitz, Henry F.; and Reitz, Ronald F., 3,753,737.
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Teng, James; Rha, Chokyun; Scallet, Barry L.; and Stubits, Marcella C., 3,732,205.
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Anikanov, Nikoli Ivanovich: *See—*
Duchinsky, Yakov Efimovich; Radutsky, Grigory Avramovich; Kheifets, Rafail Efimovich; Zax, Grigory Iosifovich; Anikanov, Nikoli Ivanovich; and Grachev, Leonid Pavlovich, 3,733,774.

Anikeev, Konstantin M.; Babitsky, Boris Davidovich; Verblovsky, Alexei Matveevich; Kozhenets, Tamara Nikolaevna; Kormer, Vitaly Abramovich; Lobach, Mark Iosifovich; Markova, Viktoria Vladimirovna; and Rivin, Ervin Mikhailovich. Method of producing $\pi$-allylic nickel complexes. 3,780,078, 12-18-73, Cl. 260-439.00r.

Anikin, Leonid Trifonovich; Kravetsky, Gennady Alexandrovich; Dergunova, Viktoria Sergeevna; and Dutov, Valery Vasilievich. Method of joining graphite articles. 3,717,926, 2-27-73, Cl. 29-472.700.

Animal Behavior Enterprises, Inc.: *See—*
Evans, Grant; Petty, Billy Joe; and Bailey, Robert E., 3,727,740.

Anjac Mfg. Co., Inc.: *See—*
Banner, Joseph, 3,731,431.

Anken Chemical & Film Corporation, mesne: *See—*
Daniels, Neville H. G.; and Wright, Edward S., 3,710,434.

Anken Industries: *See—*
Branibar, Nick G., 3,752,302.

Ankeny, Jay H.; Foddy, Harold W.; and Kessler, Dayton F., to Delavan Manufacturing Company. Balanced hydraulic device. 3,747,476, 7-24-73, Cl. 91-489.000.

Ankeny, V. Scott. Detachable hitch. 3,759,547, 9-18-73, Cl. 280-491.00e.

Anker-Werke AG: *See—*
Hecker, Alfred, 3,724,750.
Heuer, Hans, 3,775,714.
Kleffman, Gunter; and Rethmeier, Gerhard, 3,742,193.
Muller, Wilhelm; and Heil, Friedrich, 3,744,410.
Rethmeier, Gerhard, 3,716,694.
Rethmeier, Gerhard, 3,743,178.
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Ankerwerk Nurnberg GmbH: *See—*
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Anketell, John E. Night stick. 3,756,467, 9-4-73, Cl. 222-78.000.

Anlihema (Proprietary) Limited: *See—*
Spoormaker, Hendrik J., 3,732,799.

Anliker, Rudolf; and Liechti, Peter, to Ciba-Geigy AG. 4-Arotriazolyl-4'-aroxazolyl diphenyl derivatives. 3,755,343, 8-28-73, Cl. 260-307.00d.

Anlin Company of New Jersey, The: *See—*
Clitheroe, Jay B.; and Lacy, Forrest H., Jr., 3,728,430.

Anna Welding Corporation: *See—*
Berghof, Ernest H., 3,740,518.

Annandate, Inc.: *See—*
Mc Quown, Albert N., Jr., 3,760,359.

Annas, Nick S.; and Russ, Charles R., to Aluminum Company of America. Conductor spacer. 3,743,762, 7-3-73, Cl. 174-146.000.

Annas, Robert F., to Paramount Health Equipment Corporation. Butterfly exercise machine. 3,708,166, 1-2-73, Cl. 272-58.000.

Annenberg, Ernest Alexandrovich: *See—*
Fedjukin, Dmitry Lvovich; Sergeeva, Ljudmila Semenovna; Bakharev, Andrei Nikolaevich; Korochkin, Petr Evmenovich; Aronov, Anatoly Izrailevich; Gorlina, Inna Leonidovna; Kravets, Arkady Timofeevich; Goloskov, Emmanuil Isaakovich; Annenberg, Ernest Alexandroich; Fedotova, Svetlana Evgenievna; and Bezverkhny, Grigory, 3,747,281.

Annenberg, Maurice, to Maran Plastic Company. Double photograph identification card. 3,755,935, 9-4-73, Cl. 40-2.200.

Annenberg, Maurice, to Maran Plastic Company. Photograph bearing identification card structure and method of manufacture. 3,758,970, 9-18-73, Cl. 40-2.200.

Anner, Georg; and Wieland, Peter, to Ciba-Geigy Corporation. A-Homo-$\Delta^1$(10),2,4a(5)-3-substituted-estratrien-4-ones. 3,708,503, 1-2-73, Cl. 260-340.900.

Anner, Georg; and Kalvoda, Jaroslav, to Ciba-Geigy Corporation. Pharmaceutical preparations. 3,716,637, 2-13-73, Cl. 424-243.000.

Anner, Georg; and Kalvoda, Jaroslav, to Ciba-Geigy Corporation. 6-Methyl-19-nor-progesterone and a process of its manufacture. 3,716,638, 2-13-73, Cl. 424-243.000.

Anner, Georg; and Wieland, Peter, to Ciba-Geigy Corporation. 21-Fluoro derivatives of 3$\beta$-hydroxy-$\Delta$4,6-halo-20-oxo pregnadienes. 3,729,466, 4-24-73, Cl. 260-239.55d.

Anner, Georg, to Ciba-Geigy Corporation. Spiro-(steroid-17,2'-furan-3'-ones) and a process for their manufacture. 3,757,009, 9-4-73, Cl. 260-239.55r.

Anner, Georg; and Wieland, Peter, to Ciba-Geigy Corporation. Process for the manufacture of 21-fluorosteroids. 3,758,524, 9-11-73, Cl. 260-397.470.

Anner, Georg; and Kalvoda, Jaroslav, to Ciba-Geigy Corporation. 6 Alpha-methyl-19-nor-progesterone and a process of its manufacture. 3,759,962, 9-18-73, Cl. 260-397.400.

Anner, Georg; and Wieland, Peter, to Ciba-Geigy Corporation. Halogenosteroids. 3,763,145, 10-2-73, Cl. 260-239.55d.

Annett, Leland W.; and Wallin, George J., to Minnesota Mining and Manufacturing Company. Sound-slide projector. 3,732,000, 5-8-73, Cl. 353-19.000.

Annetts, Bryan Charles: *See—*
Cox, Alan John; and Annetts, Bryan Charles, 3,747,269.

Anninos, Athanasious P., to Emery Industries, Inc. Drycleaning method and detergents therefor. 3,715,186, 2-6-73, Cl. 8-142.000.

Annis, James R., Jr., to Signode Corporation. Apparatus for friction fusing. 3,718,526, 2-27-73, Cl. 156-580.000.

Annis, Robert E.; and Cheek, Forrest R., to General Motors Corporation. Hydrodynamic device with slipping mechanical clutch. 3,730,315, 5-1-73, Cl. 192-3.300.

Annis, Robert E., to General Motors Corporation. Transmission and hydraulic source. 3,733,920, 5-22-73, Cl. 74-763.000.

Annis, Robert E.; and Cheek, Forrest R., to General Motors Corporation. Hydrodynamic unit with mechanical drive clutch. 3,734,251, 5-22-73, Cl. 192-3.300.

Annis, Rupert E., Jr.; and Kyritsis, William T., to USM Corporation. Method for injection molding articles of foam material involving autogenous flow. 3,776,98[illegible], 12-4-73, Cl. 264-53.000.

Anolick, Colin; and Slocum, Edgar W., to Du Pont de Nemours, E. I., and Company. Process for isolating EPDM elastomers from their solvent solutions. 3,726,843, 4-10-73, Cl. 260-80.780.

Anon, Modesto Vazquez. Hanging telephone booth. 3,750,350, 8-7-73, Cl. 52-27.000.

Anonda Plastics Inc.: *See—*
Stein, William H., 3,762,684.

Anonima Castelli s.a.s.: *See—*
Castelli, Leonida; and Piretti, Giancarlo, 3,744,436.
Piretti, Giancarlo, 3,722,704.
Piretti, Giancarlo, 3,762,765.

Anonima Castelli s.a.s. di Cesare Castelli & C.: *See—*
Piretti, Giancarlo, 3,756,166.
Piretti, Giancarlo, 3,779,176.

Anorga, Carlos J.; Chess, Samuel; and Lefferdink, Theodore B., to Upjohn Company, The. Synergistic fire retardant foams. 3,738,953, 6-12-73, Cl. 260-2.5aj.

Anpa: *See—*
Hart, Charles H.; and Cashau, George R., 3,752,468.

Anritsu Electric Company, Ltd.: *See—*
Tabiichi, Yukio; Yamazaki, Yuichi; Saito, Takao; and Kaiaoka, Toshimitsu, 3,749,220.

Ansari, Hifzur R.: *See—*
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Ansel, Robert E.: *See—*
Gaske, Joseph E.; and Ansel, Robert E., 3,749,592.

Anselmino, Giovanni: *See—*
Peruglia, Marco; and Anselmino, Giovanni, 3,749,125.

Anselmino, Giovanni, to Fiat Societa per Azioni. Wheel speed sensor for a braking system. 3,772,550, 11-13-73, Cl. 310-168.000.

Anselrode, Lodewijk; and Anthonis, Sint, to Stork Amsterdam N.V. Method for the galvano technical manufacture of cylindrical thin-walled screen stencils for the rotary screen printing process. 3,713,997, 1-30-73, Cl. 204-11.000.

Anselrode, Lodewijk, to Stork Amsterdam N.V. Method for manufacturing a fibre fleece laminated with a foil and device for performing such a method. 3,770,534, 11-6-73, Cl. 156-62.200.

Anselrode, Lodewijk, to Stork Amsterdam N.V. Method for stiffening a web-shaped fleece of fibrous material. 3,772,054, 11-13-73, Cl. 117-38.000.

Anselrode, Lodewijk, to Stork Amsterdam N.V. Method and device for strengthening a non-woven material. 3,772,055, 11-13-73, Cl. 117-38.000.

Ansevin, Ronald W.; Avetta, Edward D.; and McKay, William P., to Owens-Illinois, Inc. Inspecting the bottom wall of hollow open-ended containers. 3,770,969, 11-6-73, Cl. 250-223.00b.

Ansley, Arthur C. Cam operated timer switch including H-shaped drum and adjustable cams. 3,727,016, 4-10-73, Cl. 200-38.0ca.

Ansley, Hudson R.; and Ornstein, Leonard, to Mount Sinai Research Foundation, Inc. Process and apparatus for obtaining a differential white blood cell count. 3,741,875, 6-26-73, Cl. 195-103.50r.

Anson, Arthur H. Supplemental push button index for use with push button array as on a push button telephone. 3,739,105, 6-12-73, Cl. 179-90.00k.

Anson Incorporated: *See—*
Anderson, Olof Verner, 3,777,336.

Anson, James H.; and O'Neal, Donald E., to Dickey-John Corporation. Grain analysis computer. 3,776,642, 12-4-73, Cl. 356-188.000.

Ansonia Clock Company, Inc.: *See—*
Nofziger, Dale, 3,777,701.

Anspacher, William B., to United States of America, Navy. Rotating surveillance vehicle. 3,721,410, 3-20-73, Cl. 244-314.000.

Anstalt Europaische Handelsgesellschaft: *See—*
Frutiger, Peter; and Schuler, Rolf, 3,745,534.
Sturzinger, Oskar, 3,755,631.
Sturzinger, Oskar Edwin, 3,725,579.

Anstalt Europaische Handelsgesellschaft, mesne: *See—*
Gemperle, Bruno, 3,752,920.

Anstin, Wayne D.; Byrne, Joseph E.; Clifford, Gilbert F.; Henkel, Robert W.; Odell, Arthur W.; Quaglia, Lawrence T.; and Smith, Donald F., to Varian Adco. Document and information storage and retrieval system. 3,757,941, 9-11-73, Cl. 209-80.500.

Ansuini, Frank J.: *See—*
Badia, Frank A.; MacDonald, Donald F.; and Ansuini, Frank J., 3,753,694.

Ansund, Bo Kent, to MacGregor International S.A. Hatch cover drive means. 3,708,914, 1-9-73, Cl. 49-209.000.

Antal, John. Ejection tool. 3,724,056, 4-3-73, Cl. 29-253.000.

Antal, Mandor: *See—*
Horvath, Laszlo; Gundisch, Gusztav; Antal, Mandor; and Arvai, Mihaly, 3,719,219.

Antal, Sandor: *See—*
Horvath, Laszlo; Gundisch, Gusztav; Arvai, Mihaly; and Antal, Sandor, 3,729,028.

Antczak, Stanley M.; Getzendiner, Albert E.; and Riggert, Marvin C., to General Electric Company. Manufacture of elongated fused quartz member. 3,764,286, 10-9-73, Cl. 65-134.000.

Antennacraft Company: *See—*
Lockwood, Lynn L., 3,725,945.
Lockwood, Lynn L., 3,745,581.
Miller, Richard A., 3,778,537.

Antezana, Fernando J.; Hochman, Jack M.; and Weinberg, Harold N., to Esso Research and Engineering Company. Selective hydrotreating of different hydrocarbonaceous feedstocks in temperature regulated hydrotreating zones. 3,728,249, 4-17-73, Cl. 208-57.000.

Anthes Eastern Limited: *See—*
Taylor, Thomas B., 3,762,395.

Anthes Equipment Limited: *See—*
Weeden, Robert G., 3,734,467.

Antholzner, Heinrich: *See—*
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Anthon, Erik W., to Optical Coating Laboratory, Inc. Thick window transmission spectrophotometer and method. 3,770,355, 11-6-73, Cl. 356-189.000.

Anthone, Leo E.: *See—*
Miller, Donald F.; Anthone, Leo E.; and Kahabka, Richard D., 3,717,334.

Anthonis, Sint: *See—*
Anselrode, Lodewijk; and Anthonis, Sint, 3,713,997.

Anthony, Anne-Marie, nee Barbier; Faucher, Michele, nee Dufre; and Dembinski, Krzysztof, to Agence Nationale de Valorisation de la Recherche (ANVAR). Heating element for an electric furnace. 3,709,998, 1-9-73, Cl. 13-25.000.

Anthony, Anne-Marie, nee Barbier; Dembinski, Krzysztof; Faucher, Michele, nee Dupre; Le Fleury, Fontenay; and Dupont, Lucien, to Agence Nationale de Valorisation de la Recherche (ANVAR). Heating elements, assemblies comprising several of these elements, funaces constructed by means of said elements or assemblies, and preheating method. 3,726,984, 4-10-73, Cl. 13-20.000.

Anthony, Eugene Michael, to Dart Industries, Inc. Linerless closure. 3,747,792, 7-24-73, Cl. 215-40.000.

Anthony, Michael P.: *See—*
Kurtin, Stephen L.; and Anthony, Michael P., 3,757,216.

Anthony, Michael P.; Goldman, Arnold J.; Kurtin, Stephen L.; and Mullett, Charles E., to PHENOS. Optical intrusion alarm system. 3,745,550, 7-10-73, Cl. 340-258.00b.

Anthony, Parme G.; and Bond, David N., to General Motors Corporation. Spark plug and rotor assembly for a rotary combustion engine. 3,762,377, 10-2-73, Cl. 123-8.010.

Anthony, Paul P., to PPG Industries, Inc. Bimetal spinel surfaced electrodes. 3,711,382, 1-16-73, Cl. 204-1.00r.

Anthony, Peter D.; Colt, James G.; and Fourharakis, Golon, to Carpetech Corporation. Portable vacuum carpet and upholstery cleaning apparatus. 3,774,262, 11-27-73, Cl. 15-322.000.

Anthony, Russell W.: *See—*
Motz, Carl H.; and Anthony, Russell W., 3,712,094.
Motz, Carl H.; Anthony, Russell W.; and Peterson, George C., 3,738,140.

Anthony, Russell W., to Lear Siegler, Inc. Pot broach. 3,755,867, 9-4-73, Cl. 29-95.10r.

Anthony, Russell W., to Lear Siegler, Inc. Gear checker. 3,762,061, 10-2-73, Cl. 33-179.50r.

Anthony, Russell W.; and Frankiw, Walter, to Lear Siegler, Inc. Automatic loader for internal gears. 3,762,270, 10-2-73, Cl. 90-1.000.

Anthony, Russell W.; Motz, Carl H.; and Tersch, Richard W., to Lear Siegler, Inc. Gear finisher with force measurement. 3,765,129, 10-16-73, Cl. 51-52.00r.

Anthony's Manufacturing Company, Inc.: *See—*
Hochheiser, Jerome S., 3,727,105.
Stromquist, Michael E., 3,724,129.

Anthropos, Inc., mesne: *See—*
Navarrette-Kindelan, Octaviano De J., 3,738,069.

Anti-Pollution Devices, Inc.: *See—*
Doyle, Lawrence O., Jr.; and Meek, Harlen D., 3,716,967.

Anti-Pollution Systems, Inc.: *See—*
Greenberg, Jacob, 3,766,087.

Antier, Guy; and Nicolas, Gerard, to Commissariat a l'Energie Atomique. Method of fabrication of a wired magnetic memory plane. 3,739,467, 6-19-73, Cl. 29-604.000.

Antinone, Ernest. Detachable screen. 3,763,917, 10-9-73, Cl. 160-354.000.

Antioletti, Attilio; and Madonini, Nino, to Industrie Pirelli S.p.A. Extrusion head for producing a resistant element of a conveyor, belt, driving belt and the like. 3,776,670, 12-4-73, Cl. 425-114.000.

Antipov, Igor; and Oberai, Avtar S., to International Business Machines Corporation. Production of high speed complementary transistors. 3,752,715, 8-14-73, Cl. 148-187.000.

Antkowiak, Thomas A., to Firestone Tire & Rubber Company, The. Process for producing dilithio hydrocarbons. 3,718,702, 2-27-73, Cl. 260-665.00r.

Antlfinger, George J.: *See—*
Backderf, Richard H.; Antlfinger, George J.; and Bodzash, Maynard C., 3,761,435.
Knechtges, Donald P.; and Antlfinger, George J., 3,714,101.

Anton, Robert P.; and Anton, Vernon P. Fishing bait retainer. 3,778,920, 12-18-73, Cl. 43-44.400.

Anton, Tim Luverne: *See—*
Mills, Thomas Lewis; and Anton, Tim Luverne, 3,766,889.

Anton, Vernon P.: *See—*
Anton, Robert P.; and Anton, Vernon P., 3,778,920.

Antonaccio, Jack A., to Buildex Incorporated. Sliding support with adjustable shock block. 3,773,395, 11-20-73, Cl. 308-3.800.

Antonatti, Vincent W.; Gorta, Omkarnath P.; and Moran, Kevin P., to International Business Machines Corporation. Cooling system providing spray type condensation. 3,774,677, 11-27-73, Cl. 165-39.000.

Antonelli, Giambattista: *See—*
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Antonen, Robert C., to Dow Corning Corporation. Solvent-free liquid organosiloxane resins. 3,719,630, 3-6-73, Cl. 260-37.0sb.

Antonen, Robert C.; and Kookootsedes, Gust J., to Dow Corning Corporation. Silicon-polybutadiene resins. 3,764,592, 10-9-73, Cl. 260-94.20r.

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Antonio, Ezio Dell; and Tarizzo, Quinto, to Olivetti, Ing., C., & C., S.p.A. Punched-tape unwinding device. 3,719,330, 3-6-73, Cl. 242-55.018.

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Antoniu, Ion S.; and Leon, Mihai, to Ministerul Industrier Constructiilor de Masini. Method of and system for measuring electrical





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Antonson, Arvid L.; Bigelow, John E.; Stein, Charles R.; and Van Horn, James W., to General Electric Company. Diffraction optics head of display. 3,737,212, 6-5-73, Cl. 350-174.000.

Antonsteel (Proprietary) Limited: *See—*
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Ao, Hideki: *See—*
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Ao, Takeo, to Osaka Yogyo Kabushiki Kaisha. Method for the preparation of a catalyst usable for catalytic cracking of hydrocarbons. 3,709,832, 1-9-73, Cl. 252-429.00r.

Aoba, Takashi: *See—*
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Aoh, Toshiaki; and Yanagimachi, Kiyoshi, to Takasago Thermal Engineering Co., Ltd. Prefabricated module air conditioner. 3,766,750, 10-23-73, Cl. 62-259.000.

Aoi, Katashi. Apparatus for purifying gases. 3,715,867, 2-13-73, Cl. 55-222.000.

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Aoki, Katashi. Hydraulic device. 3,769,881, 11-6-73, Cl. 91-171.000.

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Aoki, Kenneth K.; and Mc Master, Arnold L., to BASF Wyandotte Corporation. Process for the preparation of hexachloro cyclopentadiene. 3,748,281, 7-24-73, Cl. 252-441.000.

Aoki, Koichi, to Minolta Camera Kabushiki Kaisha. Device for setting focusing distance in camera. 3,727,530, 4-17-73, Cl. 95-44.00r.

Aoki, Masaharu; Kasano, Hiroyuki; Kurata, Kazuhiro; and Ogirima, Masahiko, to Hitachi, Ltd. Semiconductor electronic device. 3,746,943, 7-17-73, Cl. 317-234.00r.

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Aoki, Masayoshi. Waterproof watch with interlocking crystal support ring and movement support ring. 3,714,775, 2-6-73, Cl. 58-90.00r.

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Apotheloz, Robert, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Impact fuze for projectiles. 3,715,989, 2-13-73, Cl. 102-84.000.
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Applegate, Robert L. Portable X-ray radiation shielding device. 3,737,661, 6-5-73, Cl. 250-65.00r.
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Arai, Haruhiko; Narashino, Chiba; Horin, Shoji; Ichikawa, Chiba; and Maruta, Iwao; deceased (by Maruta, Kiyoko; and Maruta, Yoshi; heirs), to Kao Soap Co., Ltd. Adhesive composition having low adhesive strength when wet and high adhesive strength when dry.3,743,618, 7-3-73, Cl. 260-27.00r.

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Arai, Isamu. Magnet tire. 3,768,532, 10-30-73, Cl. 152-151.000.

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Arai, Kiyoyuki, to Kabushiki Kaisha Koparu. Opening and closing mechanism for electronic shutter. 3,774,515, 11-27-73, Cl. 95-53.00e.

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Arai, Nobuhito, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Record-repetitive-playback type universal position control system. 3,757,187, 9-4-73, Cl. 318-262.000.

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Araki, Yoshihiko; and Hayashi, Hideo, to Nippon Oil Company Limited. Process for producing synthetic rubber latex having high polymer concentration and low viscosity. 3,779,960, 12-18-73, Cl. 260-8.000.

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Aranguren, William Louis, to Bell Telephone Laboratories, Incorporated. Trigger circuit having the same level turnon and turnoff thresholds. 3,721,911, 3-20-73, Cl. 328-146.000.

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Archer, John C. Doll house for city children. 3,719,001, 3-6-73, Cl. 46-12.000.

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Archer, Stephen V., to McHugh, Joseph P. Motionless mixing device. 3,751,009, 8-7-73, Cl. 259-4.000.

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Archer, W. Gary; *See—*
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Archibald, Frederick R.; and Hatch, Gerald G., to Falconbridge Nickel Mines Limited. Electric arc furnace operation. 3,715,200, 2-6-73, Cl. 75-10.000.

Archibald, John Leheup; and Heatherington, Kenneth, to Wyeth, John, & Brother, Limited. Method of treating vascular thrombosis. 3,769,412, 10-30-73, Cl. 424-270.000.

Archibald, Robert S. Lid support. 3,735,890, 5-29-73, Cl. 217-61.000.

Archibald, Ronald L., to Lapointe Machine Tool Company Limited, The. Machine tools. 3,726,384, 4-10-73, Cl. 198-25.000.

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Mongelli, Massimo; and Vinciguerra, Ruggero, 3,768,207.

Archilithic Co., The: *See—*
Winn, James B., Jr., 3,740,260.

Architectural Art Mfg., Inc.: *See—*
Thom, Wenzel W., 3,745,726.

Architectural Partitions: *See—*
Satkin, David M.; Helvie, Gene B.; and Tillotson, Charles J., 3,722,163.

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Arciprete, Genio R.: *See—*
Martin, Afton V.; Moldovan, Michael T.; Jazbutis, Anatolijus; Fourgere, Guy L.; Rising, Donald B.; Koger, Gary C.; Arciprete, Genio R.; and Svendsen, Noel, 3,744,713.

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Arco Industries Corporation: *See—*
Rubright, Phillip L., 3,753,549.

Arcocha, Humberto L.; Dullabaun, Paul W.; and Lauffer, Fred E., to Owens-Illinois, Inc. Pallet assembly. 3,719,157, 3-6-73, Cl. 108-51.000.

Arcos Corporation: *See—*
Norcross, James E.; and Garwood, George, 3,715,559.

Arctic Enterprises Inc.: *See—*
Mazurek, Edward A., 3,758,170.
Nepper, John P.; Lane, Joseph J.; and Skuja, Juris, 3,764,156.
Ness, William G., 3,738,714.

Arctic Roof Deicing Corporation: *See—*
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Ardac/USA Incorporated: *See—*
Bayha, Jack E., 3,752,168.
Novak, Frank A.; Schreiber, Kenneth T.; and Doleus, Anthony H., 3,756,363.
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Arden, John. Load weight indicating apparatus. 3,710,880, 1-16-73, Cl. 177-137.000.

Ardie-Werk GmbH: *See—*
Prenzel, Karl; and Barthel, Hans, 3,772,933.

Ardito, Gerald J. Container. 3,759,413, 9-18-73, Cl. 220-16.000.

Ardito, Gerald J.; Newman, Jerome S.; and Sarris, Samuel E., to Inventions Unlimited Incorporated. Push-pull cap and neck assembly. 3,759,429, 9-18-73, Cl. 222-546.000.

Ardolino, Edward J.; and Okay, Edward J. Method of joining sheet like areas. 3,719,986, 3-13-73, Cl. 29-509.000.

Area Conditioner Corporation: *See—*
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Arena, Ronald D., to Addressograph-Multigraph Corporation. Method of preparing silver halide emulsions and image processes using same. 3,738,834, 6-12-73, Cl. 96-36.000.

Arenas, Gabriel N. Cutting guide. 3,764,126, 10-9-73, Cl. 269-60.000.

Arenas, Vincent E., to Wayne Manufacturing Company. Street sweeper gutter broom. 3,766,589, 10-23-73, Cl. 15-180.000.

Arenco Aktiebolag: *See—*
Lilja, Lars Edvin; and Wallberg, Erik Arne, 3,709,232.
Wallenborn, Nils, 3,759,269.

Arendale, Donald L. Automatic carcass processing device. 3,711,895, 1-23-73, Cl. 17-1.00r.

Arendash, Michael G., to General Electric Company. High intensity lamp containing thermal shorting fuse. 3,737,717, 6-5-73, Cl. 315-75.000.

Arendsen, Hans: *See—*
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Arendt, Hans Fritz. Roll press for removing the water from laundered washing or other textiles. 3,779,154, 12-18-73, Cl. 100-155.00r.

Arendt, John Harold; Sachetto, Jean Pierre; and Carriere, Jean-Paul, to Gallaher Limited. Synthetic smoking material. 3,720,660, 3-13-73, Cl. 260-212.000.

Arendt, John P.: *See—*
Wright, Gerald D.; and Arendt, John P., 3,773,753.

Arendt, Ronald H., to General Electric Company. Ceramic articles and method of sealing ceramics. 3,719,550, 3-6-73, Cl. 161-188.000.

Arendt, Ronald H., to General Electric Company. Ceramic articles and method of sealing ceramics. 3,736,222, 5-29-73, Cl. 161-182.000.

Arendt, Ronald H., to General Electric Company. Method of preparing high-purity ammonium aluminum hexafluoride. 3,773,905, 11-20-73, Cl. 423-465.000.

Arens, Alfred: *See—*
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Arens Controls, Inc.: *See—*
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Arenskov, Peter T. Strainer-stopper assembly. 3,727,763, 4-17-73, Cl. 210-163.000.

Arenson, A., Limited: *See—*
Rutherford, Frank; Arenson, Ivor Gerald; Cracknell, Alan George; Foulds, William Henry; and Derrick, Albert, 3,709,577.

Arenson, Edwin M., to Black, Sivalls & Bryson, Inc. Method and apparatus for vaporizing and superheating cryogenic fluid liquids. 3,712,073, 1-23-73, Cl. 62-52.000.

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Arenson, Edwin M., to Black, Sivalls & Bryson, Inc. Method of continuously vaporizing and superheating liquefied cryogenic fluid. 3,726,101, 4-10-73, Cl. 62-52.000.

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Arenson, Edwin M., to Black Sivalls & Bryson Inc. Method of and system for vaporizing and combining a liquefied cryogenic fluid stream with a gas. 3,771,260, 11-13-73, Cl. 48-190.000.

Arenson, Gloria W.: *See—*
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Arenson, Herbert. Caster assembly with integral horn and pintle and method of making same. 3,718,942, 3-6-73, Cl. 16-37.000.

Arenson, Ivor Gerald: *See—*
Rutherford, Frank; Arenson, Ivor Gerald; Cracknell, Alan George; Foulds, William Henry; and Derrick, Albert, 3,709,577.

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Bangert, Hans; and Arenz, Werner, 3,747,651.

Ares, Manuel, to General Electric Company. Automatic monopulse clutter cancellation circuit. 3,720,941, 3-13-73, Cl. 343-7.00a.

Ares, Manuel, to United States of America, Air Force. Frequency diversified radar system. 3,725,926, 4-3-73, Cl. 343-17 500.

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Ares, Roland A.; Bullard, Russell H.; and Spear, Ernest L., to Singer Company, The, mesne. Coil for air duct installation. 3,734,171, 5-22-73, Cl. 165-54.000.

Ares, Roland A., to Singer Company, The, mesne. Condenser coil apparatus. 3,759,321, 9-18-73, Cl. 165-125.000.

Aresi, Vanna: *See—*
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Aretos, Constantin: *See—*
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Arezzi, Raffaele: *See—*
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A.R.F. Products, Incorporated: *See—*
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Ringer, Kenneth W., 3,747,108.





Arfert, Horst F. W., to Reynolds Metals Company. Sealed container same. 3,752,387, 8-14-73, Cl. 229-43.000.

Arff, John H. Air purifier. 3,745,750, 7-17-73, Cl. 55-102.000.

Arff, John H.; and Burns, James R. Oxygen analyzing instrument. 3,764,504, 10-9-73, Cl. 204-195.00p.

Arff, Uwe F., to Outboard Marine Corporation. Nose roller. 3,765,088, 10-16-73, Cl. 30-384.000.

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Argabright, Perry A.; Sinkey, Vernon J.; and Phillips, Brian L., to Marathon Oil Company. Polyisocyanurate-containing elastomers and foam. 3,720,632, 3-13-73, Cl. 260-2.5aw.

Argabright, Perry A.; Wenger, Charles B.; and Presley, C. Travis, to Marathon Oil Company. Polyisocyanurate-biuret surfactants. 3,766,086, 10-16-73, Cl. 252-312.000.

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Argabright, Perry A.; and Presley, C. Travis, to Marathon Oil Company. Polyisocyanuric acid emulsifying agents and derivatives. 3,779,940, 12-18-73, Cl. 252-312.000.

Argabright, Perry A.; and Presley, C. Travis, to Marathon Oil Company. Gel composition. 3,779,968, 12-18-73, Cl. 260-29.6bm.

Arganbright, Robert P., to Petro-Tex Chemical Corporation. Production of N-butenes from ethylene. 3,728,415, 4-17-73, Cl. 260-683.15r.

Arganbright, Robert P., to Petro-Tex Chemical Corporation. Process for the isomerization of olefins. 3,752,864, 8-14-73, Cl. 260-683.200.

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Argentar, Harold: *See—*
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Argentieri, Michael A., to Intercontinental Dynamics Corporation. Altimeter baro-setting mechanism. 3,747,409, 7-24-73, Cl. 73-387.000.

Argeris, John G.; and Atwood, James A., III. Mop head. 3,728,756, 4-24-73, Cl. 15-229.00a.

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Argoudelis, Alexander D.; and Coats, John H., to Upjohn Company, The. Process for producing lincomycin. 3,726,766, 4-10-73, Cl. 195-80.00r.

Argoudelis, Alexander D.; and Magerlein, Barney J., to Upjohn Company, The. Lincomycin-type compounds and process for making them. 3,758,454, 9-11-73, Cl. 260-210.00r.

Argoudelis, Alexander D.; Bannister, Brian; Kagan, Fred; and Magerlein, Barney J., to Upjohn Company, The. Composition and process of treatment using lincomycin derivatives. 3,764,672, 10-9-73, Cl. 424-181.000.

Argue, Gary R.: *See—*
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Arguimbau, Lawrence B.; and Grason, Rufus L., to Grason-Stadter Company. Acoustic admittance testing apparatus. 3,757,769, 9-11-73, Cl. 128-2.00e.

Argus Chemical Corporation: *See—*
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Brecker, Lawrence R.; and Kauder, Otto S., 3,716,568.
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Lewis, Roger N.; and Friedman, Ronald L., 3,763,128.
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Costello, Bernard J., 3,742,181.
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Argyres, George, to Gerber Products Company. Retort crate unloading apparatus. 3,768,675, 10-30-73, Cl. 214-310.000.

Arias, Alan. Ignition key alarm. 3,723,677, 3-27-73, Cl. 200-44.000.

Arias, Lionel J. De Paula: *See—*
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Uchiyama, Yoshihiro; Yasumoto, Akihiro; Takemura, Katsumi; Kishigani, Takashi; Huzieda, Mamoru; and Arie, Ryosuke, 3,757,130.

Arieh, Shimon. Reansporting apparatus. 3,717,241, 2-20-73, Cl. 198-184.000.

Aries Electronics, Inc., mesne: *See—*
Weisenburger, Lawrence P., 3,710,299.
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Aries, Graham John; Scott-Smith, Brian; and Malcolm, David, to Tower Housewares Limited. Timer devices for culinary purposes. 3,738,354, 6-12-73, Cl. 126-388.000.

Ariga, Masao: *See—*
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Ariizumi, Yoshio: *See—*
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Arikawa, Masayasu; Ohi, Atsushi; Ihochi, Akihiko; and Hashimoto, Kenichiro, to Kobe Steel Ltd. Method and apparatus for automatic arc welding in a vertical position. 3,742,184, 6-26-73, Cl. 219-126.000.

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Arikawa, Masayasu; Oishi, Minoru; Rokujyo, Masaharu; and Ishihashi, Tatuyuke, to Kobe Steel, Ltd. Method of intermittent arc welding using potassium and magnesium electrode additives. 3,777,113, 12-4-73, Cl. 219-137.000.

Arikawa, Tadashi: *See—*
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Arima, Takeo, to Tokyo Hochiki Kabushiki Kaisha. Alarm circuit. 3,733,596, 5-15-73, Cl. 340-237.00s.

Arima, Yasutaka: *See—*
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Arino, Francisco Jorge de Loizaga Y. Multiple use collapsible cart. 3,726,536, 4-10-73, Cl. 280-36.00c.

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Arita, Muneyoshi: *See—*
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Arlow, Michael S., to United States of America, Army, mesne. Electric circuit test element for use with a pair of electrical connectors. 3,718,859, 2-27-73, Cl. 324-72.500.

Arlt, Dieter; Bertram, Hans-Herwig; Pedain, Josef; Zankl, Erich; deceased (by Zankl, Helga); Zankl, Walter; and De Ramis, Angelika Zankl; heirs, to Bayer Aktiengesellschaft. Powdered coating materials. 3,752,793, 8-14-73, Cl. 260-78.50t.

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Arlt, Herbert George, Jr.; and Ruckel, Erwin Richard, to Arizona Chemical Company, mesne. Process for beta-pinene-dipentene copolymers. 3,761,457, 9-25-73, Cl. 260-88.20c.

Arlt, Robert G.; and Hennessey, Timothy W., to Robbins & Myers, Inc. Means and method for aligning motor assembly. 3,753,281, 8-21-73, Cl. 29-205.00r.

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Armstrong, Douglas Byron; and South, Richard Glenn, to Bell Telephone Laboratories, Incorporated. Apparatus for propagating internal logic gate faults in a digital logic simulator. 3,780,277, 12-18-73, Cl. 235-153.0ac.

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Armstrong, Lowell; and Van Waes, Edward A., to Pillsbury Company, The. Single stage cutting system for fiber cans. 3,756,128, 9-4-73, Cl. 93-80.000.

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Armstrong, Ramsey C.; and Hoover, Herbert, III, to Sierracin Corporation, The. Preformed self-supporting, flexible and coherent electrically heatable laminar structure and method of manufacture thereof. 3,718,535, 2-27-73, Cl. 161-165.000.

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Armstrong, Robert K.; Brenna, Gerald L.; and Sullivan, Robert H., to Du Pont de Nemours, E. I., and Company. 2,3-Bis(difluoramino)-1,4-butanediol diformate and dinitrate. 3,748,351, 7-24-73, Cl. 260-467.000.

Armstrong, Robert T., to Southwire Company. Method of cooling and drying a wire utilizing an induced air wipe. 3,722,077, 3-27-73, Cl. 29-527.400.

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Armstrong, William A., to Dow Chemical Company, The. Method for automatically attaching a handle to bags. 3,720,036, 3-13-73, Cl. 53-14.000.

Armstrong, William E., to Motorola, Inc. Avalanche injection input protection circuit. 3,777,216, 12-4-73, Cl. 317-31.000.

Armstrong, William H., to Montgomery Ward & Co., Incorporated. Catcher for rotary mower. 3,732,675, 5-15-73, Cl. 56-202.000.

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Armstrong, William M., Jr.; Edwards, Webster H.; and Vining, Roy H., to Du Pont de Nemours, E. I., and Company. Spectrophotometer multi-angle viewing device. 3,712,745, 1-23-73, Cl. 356-244.000.

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Arnaud, Jacques Alexis, to Bell Telephone Laboratories, Incorporated. Ray inverters for minimizing delay distortion in multimode optical fibers. 3,759,590, 9-18-73, Cl. 350-96.0wb.

Arnaud, Jacques Alexis, to Bell Telephone Laboratories, Incorporated. Adjustable beam refocuser and redirector. 3,762,794, 10-2-73, Cl. 350-7.000.

Arnaud, Jose L., to FMC Corporation. Process for preparing strontium carbonate. 3,714,329, 1-30-73, Cl. 423-431.000.

Arnaudin, Edwin H., Jr., to Anaconda Wire and Cable Company. Apparatus for extruding cable jackets with embedded drain wires. 3,712,770, 1-23-73, Cl. 425-114.000.

Arnaudin, Edwin H., Jr., to Anaconda Wire and Cable Company. Shielded power cable. 3,728,474, 4-17-73, Cl. 174-115.000.

Arnaudin, Edwin H., Jr.; Christiansen, Wilbert H.; and Hazelett, Robert M., Jr. Method of detecting holidays during dual extrusions. 3,746,575, 7-17-73, Cl. 117-218.000.

Arndt, Charles J.; and Cross, Budd David, to Harsco Corporation. Truck mounted telescopable conveyor system and method of stowing same. 3,770,253, 11-6-73, Cl. 259-172.000.

Arndt, Friedrich-Karl, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Hydraulic percussion device with pressure-responsive control of impact frequency. 3,774,502, 11-27-73, Cl. 91-246.000.

Arndt, Heinz-Herbert; and Belke, Franz, to Licentia Patent-Verwaltungs-G.m.b.H. Method of manufacturing a semiconductor device. 3,772,770, 11-20-73, Cl. 29-583.000.

Arndt, Karl-Friedrich; and Nafe, Helmar, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Multiple screwing system. 3,757,613, 9-11-73, Cl. 81-57.220.

Arndt, Lloyd G., to Buckbee-Mears Company. Method of electroforming a printing screen. 3,772,160, 11-13-73, Cl. 204-11.000.

Arndt, Rudolph P.; Ulmer, William W.; and Stone, Daniel G., to Anaconda Company, The, mesne. Controlled buoyancy electrical strand. 3,740,454, 6-19-73, Cl. 174-101.500.

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Arnemann, Gerhard. Apparatus for loading sacks onto pallets. 3,756,427, 9-4-73, Cl. 214-60.00k.

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Arnes, Lyle L., to Tenneco Inc. Lift saddle for transmission jack. 3,773,293, 11-20-73, Cl. 254-134.000.

Arneson, Edwin L., to Federal Paper Board Company, Inc. Article carrier. 3,709,400, 1-9-73, Cl. 220-113.000.

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Arneson, Edwin L., to Federal Paper Board Company, Inc. Bottle carriers and method of fabricating same. 3,721,368, 3-20-73, Cl. 220-115.000.

Arneson, Edwin L., to Federal Paper Board Company, Inc. Cup-shaped carton with gusseted seams. 3,733,023, 5-15-73, Cl. 229-31.000.

Arneson, Edwin L., to Federal Paper Board Company, Inc. Single serving package. 3,767,108, 10-23-73, Cl. 229-31.00r.

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Arneson, Howard M., to Arneson Products Inc. Jet cleaning apparatus for boats. 3,773,059, 11-20-73, Cl. 134-123.000.

Arneson, Lawrence E. Method and apparatus for assembling a container package. 3,760,554, 9-25-73, Cl. 53-32.000.

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Arnett, Alan P. Joist supporting device. 3,738,602, 6-12-73, Cl. 248-228.000.





Arnett, Alan P. Joist supporting device. 3,738,603, 6-12-73, Cl. 248-228.000.

Arnett, Charles J., to Instrulab, Inc. Temperature measuring system producing linear output signal from non-linear sensing resistance. 3,754,442, 8-28-73, Cl. 73-362.0ar.

Arnett, Gene L.; and Dunlap, William B., to Monsanto Company. Method for preparing low color polyphenyls and halogenated polyphenyls. 3,729,522, 4-24-73, Cl. 260-674.00r.

Arnett, Hager F.; and Smith, Reginald A., to Mansfield Aircraft Products Co. Beverage brewing device. 3,713,377, 1-30-73, Cl. 99-283.000.

Arnett, Joseph W., Jr., to Concorde Fibers, Inc. Vacuum stripper. 3,751,756, 8-14-73, Cl. 15-306.00a.

Arnett, Lawrence E.; and Billock, Paul J., to Ford Motor Company. Fuel tank insert for admitting preselected pump nozzles. 3,730,216, 5-1-73, Cl. 137-588.000.

Arnett, Samuel E., to Bendix Corporation, The. Thrust control mechanism. 3,733,825, 5-22-73, Cl. 60-235.000.

Arnett, Wayne E.; and Solomon, Cyril P., to Solarn Mfg. Co., Inc. Pond filter. 3,722,686, 3-27-73, Cl. 210-170.000.

Arney, James A. Rotating combustion engine. 3,757,748, 9-11-73, Cl. 123-45.00a.

Arnhold, Hans, to Kopp, Heinrich. Electrical press key device with thermic excess current release. 3,731,027, 5-1-73, Cl. 200-157.000.

Arni, Urs; Faucci, Adriano; and Stocker, August, to Lonza Ltd. Process for the production of malonic acid dinitrile and purification thereof. 3,742,020, 6-26-73, Cl. 260-465.80r.

Arnold, Anthony Francis, to RCA Corporation. Multilayer heat sink. 3,780,795, 12-25-73, Cl. 165-80.000.

Arnold, Arthur A., to United States of America, Navy. Self-aligning, adjustable anchor pin assembly. 3,729,238, 4-24-73, Cl. 308-72.000.

Arnold, Bruce C., to Twin Disc, Incorporated. Reversing clutches with selector and pressure modulating valve. 3,752,281, 8-14-73, Cl. 192-87.190.

Arnold, Carroll H., to Wain-Roy. Lifting and excavating apparatus. 3,767,070, 10-23-73, Cl. 214-146.00r.

Arnold, Carter H. Closure for bottles. 3,774,796, 11-27-73, Cl. 215-41.000.

Arnold, Claude D. Illuminating apparatus for straight line propagation of light. 3,751,658, 8-7-73, Cl. 240-46.070.

Arnold, Dan M.: *See—*
Smith, Harry D., Jr.; Arnold, Dan M.; and Schultz, Ward E., 3,780,301.
Smith, Harry D., Jr.; Arnold, Dan M.; and Schultz, Ward E., 3,780,303.

Arnold, Dan M.; Schultz, Ward E.; and Smith, Harry D., Jr. Pulsed neutron logging system. 3,780,302, 12-18-73, Cl. 250-301.000.

Arnold, Dan McCay; and Pitts, Robert William, Jr., to Texaco Inc. Radiological well logging methods and apparatus for reducing the effect of activation from the detector crystal. 3,733,486, 5-15-73, Cl. 250-71.50r.

Arnold, Don C.: *See—*
Cole, George S.; Ritzenthaler, Richard L.; and Arnold, Don C., 3,738,389.

Arnold, Edward S., 20% to Lee, Raymond, Organization, Inc., The. Universal switch plate indicating assembly. 3,720,800, 3-13-73, Cl. 200-167.00r.

Arnold Engineering Company, The: *See—*
Hirai, Robert K.; Boomer, John H.; and Small, Edward R., 3,715,943.

Arnold, Francis T.: *See—*
Freeman, Lawrence M.; and Arnold, Francis T., 3,730,622.

Arnold, Fred E.; and Kovar, Robert F., to United States of America, Air Force. Poly(quinoxalinobisimidazonaphthaldimide) polymers and method of preparation. 3,740,374, 6-19-73, Cl. 260-47.0cp.

Arnold, Fred E.; Sicree, Albert J.; and Vandeusen, Richard L., to United States of America, Air Force. Benzofuroisoquinoline polymers and method for synthesizing same. 3,743,624, 7-3-73, Cl. 260-47.0cp.

Arnold, Hans; and Reiche, Carl-Heinz, to Reiche & Co. Apparatus for producing corrugations in a hollow body. 3,726,121, 4-10-73, Cl. 72-402.000.

Arnold, Harmon W.: *See—*
Platt, Thomas W.; Arnold, Harmon W.; and Tieman, Lloyd E., 3,744,846.

Arnold, Harold J.: *See—*
Dahlin, Robert K.; Arnold, Harold J.; Cleland, Hugh M.; Lyon, Robert B.; and Polkinghorn, Robert W., 3,743,948.

Arnold, Herbert; Brock, Norbert; Bourseaux, Friedrich; and Bekel, Heinz, to Asta-Werke Aktiengesellschaft Chemische Fabrik. N', O-propylene phosphoric acid ester diamides. 3,732,340, 5-8-73, Cl. 260-936.000.

Arnold, James F., to Hydro Tech Services, Inc. Apparatus for pressure testing annular seals in an oversliding connector. 3,711,123, 1-16-73, Cl. 285-18.000.

Arnold, James F., to Hydrocouple Corporation. Method for connecting tubular members. 3,713,204, 1-30-73, Cl. 29-460.000.

Arnold, James F., to Hydro Tech Services, Inc. Apparatus for a scaling external surface of a tubular member. 3,744,822, 7-10-73, Cl. 285-18.000.

Arnold, James G.; and Myers, Loyd D. Crystal filter with temperature compensation. 3,739,286, 6-12-73, Cl. 325-416.000.

Arnold, James P.: *See—*
Casadevall, James L.; Arnold, James P.; and Buzlea, Ruby D., 3,773,593.

Arnold, Joe F., to United Aircraft Corporation. Reflecting means for beam control utilizing movable members for adjustment. 3,731,991, 5-8-73, Cl. 350-294.000.

Arnold, John A.: *See—*
Ohwada, Atsushi; and Arnold, John A., 3,740,731.

Arnold, John E.: *See—*
Tenniswood, David M.; Arnold, John E.; Kaptur, Robert E.; Tonchev, Toncho G.; and Franke, Herbert J., 3,757,135.

Arnold, John L.: *See—*
Pearce, Roscoe L.; Stalker, Gerald C.; and Arnold, John L., 3,779,936.

Arnold, Loren Glenn: *See—*
Sullivan, James Franklin; and Arnold, Loren Glenn, 3,731,748.
Sullivan, James Franklin; and Arnold, Loren Glenn, 3,731,749.

Arnold, Mason F., to International Telephone and Telegraph Corporation. Static and differential pressure transducers. 3,742,765, 7-3-73, Cl. 73-398.0ar.

Arnold, Melvin R.; and Schrage, Albert, to Dart Industries, Inc. Preparation of carbon supported promoted noble metal catalysts. 3,737,395, 6-5-73, Cl. 252-447.000.

Arnold, Orlan M.; and Horn, Michael F., to Peabody Engineering Corporation. Double spray nozzle. 3,737,105, 6-5-73, Cl. 239-423.000.

Arnold, Orlan M.; and Horn, Michael F., to Peabody Engineering Corporation. 360° spray nozzle. 3,737,106, 6-5-73, Cl. 239-518.000.

Arnold, Orlan M.; and Vancini, Carlo A., to Peabody Engineering Corporation. Deflector plate support. 3,747,906, 7-24-73, Cl. 261-118.000.

Arnold, Orlan M., to Peabody Engineering Corporation. Deflector support for spray nozzle. 3,756,515, 9-4-73, Cl. 239-524.000.

Arnold, Raymond D., to Intermedcraft Corporation. Peak detector. 3,766,411, 10-16-73, Cl. 307-235.00a.

Arnold, Richard B.: *See—*
Smith, Dallas F.; and Arnold, Richard B., 3,742,596.

Arnold, Richard B., to General Electric Company. Apparatus for inserting insulators and coil turns into the slots of a magnetic core. 3,722,063, 3-27-73, Cl. 29-205.00r.

Arnold, Richard B.; and Smith, Dallas F., to General Electric Company. Apparatus for developing winding coils. 3,732,897, 5-15-73, Cl. 140-92.100.

Arnold, Robert J., to Universal Oil Products Company. Rubber formulations containing thiolsulfonate esters. 3,732,192, 5-8-73, Cl. 260-79.50b.

Arnold, Robert W.; and Galetto, Louis V., to International Business Machines Corporation. Data recovery system. 3,760,282, 9-18-73, Cl. 328-116.000.

Arnold, Sieghard, to International Business Machines Corporation. Tractor feeding device for marginally perforated webs. 3,746,228, 7-17-73, Cl. 226-75.000.

Arnold, Thomas Ben, to Atlantic Richfield Company. Well monitoring for production of solids. 3,753,257, 8-14-73, Cl. 340-236.000.

Arnold, Thomas E.; and Plumer, Roy D., to General Motors Corporation. Flap opening inflator seal arrangement. 3,777,772, 12-11-73, Cl. 137-68.000.

Arnold, Ulf-Erick: *See—*
Wolff, Siegfried; Baumgart, Siegfried; Arnold, Ulf-Erick; Pohnisch, Hannelore; and Herbrich, Peter, 3,720,099.

Arnold, William A. Apparatus and method for dehydrating wet particulate matter and for disposing of waste products therefrom. 3,738,796, 6-12-73, Cl. 432-106.000.

Arnold, William C.: *See—*
Esch, Robert L.; Arnold, William C.; Skelton, Billy K.; Saxon, Michael D.; Murphy, Jerome A.; and Jaques, Roy J., 3,778,880.

Arnold, William C.; Lendway, Joseph K.; Woodman, Brian W.; McGeehan, Michael T.; and Perrin, David P., to General Electric Company. Gun barrel system. 3,748,957, 7-31-73, Cl. 89-16.000.

Arnold, Wolfgang. Method and apparatus for producing a hollow body from a helically wound strand. 3,718,522, 2-27-73, Cl. 156-448.000.

Arnoldussen, Theodorus Franciscus, to U.S. Philips Corporation. Cassette. 3,722,829, 3-27-73, Cl. 242-199.000.

Arnoldy, Roman F., to R. I. Patents, Inc. Method and apparatus for adjustable metering. 3,735,087, 5-22-73, Cl. 219-73.000.

Arnosky, Joseph E.; and Meermans, Ronald A., to Park-Ohio Industries, Inc. Workpiece expansion compensator for resistance heating apparatus. 3,737,619, 6-5-73, Cl. 219-156.000.

Arnosky, Joseph L., to Park-Ohio Industries, Inc. Method and apparatus for resistance heating slotted tubes. 3,737,618, 6-5-73, Cl. 219-156.000.

Arns, August, Jr.: *See—*

Wesoloski, Henry J.; and Arns, August, Jr., 3,727,018.
Arntson, Gary L.; and Rasmussen, Rom, to General Motors Corporation. Inflatable occupant restraint cushion. 3,727,942, 4-17-73, Cl. 280-150.0ab.
Arntz, Frederich Otto Wilhelm; and Walton, Geurney Elden. Pipe clamping device. 3,722,038, 3-27-73, Cl. 24-81.0pe.
Aro Corporation, The: *See—*
Bavin, Lowell R., 3,767,053.
Brandenberg, Karl; and Kautz, Wilbert C., 3,718,409.
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Hanning, John R., 3,714,969.
Kautz, Wilbert G.; and German, Dale F., 3,758,003.
Aro, Erkki, to Kone Osakeyhtio. Device for distributing wood to the feed chutes of shredders. 3,749,326, 7-31-73, Cl. 241-136.000.
Aro Plastic Building Supplies Limited: *See—*
Sharp, Herbert John; and Humphrey, Victor William Stanley, 3,725,995.
Aron, Francis J. Fish hook. 3,740,890, 6-26-73, Cl. 43-37.000.
Aronberb, Lester; and Lytton, Donald B., to Lake Chemical Company. Fill-in compositions containing an organic resinous film-forming material, an organic solvent, and a waxy material. 3,749,687, 7-31-73, Cl. 260-23.0tn.
Aronoff, Edward I. Apparatus for rolling tubular fabrics. 3,718,300, 2-27-73, Cl. 242-66.000.
Aronoff, Elihu J.; and Dhami, Kewal Singh, to International Telephone and Telegraph Corporation. Esters of phenyl indan. 3,763,222, 10-2-73, Cl. 260-475.0fr.
Aronoff, Leonard S. Illuminated displays and illuminaries. 3,780,463, 12-25-73, Cl. 40-130.00k.
Aronoff, Michael S.; and Workman, Michall K. Specimen obtaining, culturing and testing device having a gas environment. 3,773,035, 11-20-73, Cl. 128-2.00w.
Aronoff, Samuel. Voting system. 3,722,793, 3-27-73, Cl. 235-50.00a.
Aronov, Anatoly Izrailevich: *See—*
Fedjukin, Dmitry Lvovich; Sergeeva, Ljudmila Semenovna; Bakharev, Andrei Nikolaevich; Korochkin, Petr Evmenovich; Aronov, Anatoly Izrailevich; Gorlina, Inna Leonidovna; Kravets, Arkady Timofeevich; Goloskov, Emmanuil Isaakovich; Annenberg, Ernest Alexandroich; Fedotova, Svetlana Evgenievna; and Bezverkhny, Grigory, 3,747,281.
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Aronson, Theodore F.; and Polidori, Vincent A., to Kristel, Ira B. Dual feeding printing press. 3,765,327, 10-16-73, Cl. 101-232.000.
Arora, Harpal S., to Graf, Edward D. Method for stabilizing soils and abating active slides. 3,732,698, 5-15-73, Cl. 61-36.00r.
Arpajian, Vasken F.: *See—*
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Arpajian, Vasken F.; and White, Quentin M., to Pennwalt Corporation. Variable volume and controlled density forming mechanism for compression molding presses. 3,741,699, 6-26-73, Cl. 425-145.000.
Arpe, Hans-Jurgen: *See—*
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Kuckertz, Herbert; Arpe, Hans-Jurgen; and Schulz, Lothar, 3,769,331.
Arpe, Hans-Jurgen, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of $\beta$-acetoxypivalic aldehyde. 3,720,705, 3-13-73, Cl. 260-494.000.
Arpin, Daniel: *See—*
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Arrb Mfg. Company: *See—*
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Arrdal, Carl Borje, to Saab-Scania Aktiebolag. Graphic figure reproduction for visually impaired students. 3,768,180, 10-30-73, Cl. 35-38.000.
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Arrey, Kelly J., to Canadian National Railway Company. Longitudinal and lateral retainer and guide assembly for containers on a vehicle bed. 3,716,268, 2-13-73, Cl. 296-35.00a.
Arribas, Juan-Jose Regidor: *See—*
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Arrighetti, Sergio; Roggero, Arnaldo; Vajna, Eugenio; and Cesca, Sebastiano, to Snam Progetti S.p.A. Curable amorphous olefinic terpolymers obtained from alpha-olefins and polyene hydrocarbon containing two conjugated double bonds and process for preparin same. 3,712,876, 1-23-73, Cl. 260-80.700.
Arrighetti, Sergio; Corradini, Giorgio; and Cesca, Sebastiano, to Snam Progetti S.p.A. Process for obtaining modified polyethylenes and cross-linked polyethylenes having high mechanical, chemical and electric characteristics, and polyethylene obtained therby. 3,725,372, 4-3-73, Cl. 260-88.20d.
Arrighetti, Sergio; Roggero, Arnaldo; Vajna, Eugenio; and Cesca, Sebastiano, to Snam Progetti, S.p.A. Curable amorphous olefinic terpolymers obtained from alpha-olefins and polyenes containing two conjugated double bonds and process for obtaining same. 3,74,588, 10-9-73, Cl. 260-80.700.
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Arrington, James R.; and King, Karl Lewis, to American Limnetics Instruments, Inc. Method of determining dissolved oxygen content. 3,753,868, 8-21-73, Cl. 204-1.00t.
Arrington, Robert L.: *See—*
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Arrington, Thomas B.; and Moody, Leonard A., to Universal Oil Products Company. Method of and apparatus for continuously casting a hollow billet. 3,735,803, 5-29-73, Cl. 164-281.000.
Arrington, Thomas B.; and Moody, Leonard A., to Universal Oil Products Company. Method for continuously casting a hollow billet. 3,776,296, 12-4-73, Cl. 164-85.000.
Arrington, Thomas L.: *See—*
Young, James W.; and Arrington, Thomas L., 3,766,995.
Arrington, Thomas L., to Dresser Industries, Inc. Gripper for a drill rod handling apparatus. 3,773,188, 11-20-73, Cl. 214-1.00p.
Arrington, Thomas L.; and Dyer, Norman D., to Dresser Industries, Inc. Earth boring machine with tandem thrust cylinders. 3,780,816, 12-25-73, Cl. 173-152.000.
Arrington, William Lee; Gantt, Wayne Carlton; and Gouger, Leonard Joseph, to GTE Sylvania Incorporated. Method for fabricating a non-inflammable horizontal output transformer. 3,766,643, 10-23-73, Cl. 29-605.000.
Arrizabalaga, Martin J.: *See—*
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Arrizaga, Carlos; and Gajardo, Anibal. Method of roasting molybdenite and similar sulphide ores. 3,761,565, 9-25-73, Cl. 423-59.000.
Arrott, Janice J. Endotracheal tube holder. 3,713,448, 1-30-73, Cl. 128-351.000.
Arrow Fastener Co., Inc.: *See—*
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Arrowmatic, Inc.: *See—*
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Arscott, Raymond L.; Gaylord, Eber W.; Mori, Ernest A.; and Morris, Richard A., to Gulf Research & Development Company. Method and apparatus for treating drilling mud. 3,713,499, 1-30-73, Cl. 175-66.000.
Arsenius, Torsten Henry, to SKF Industrial Trading and Development Company N.V. Pressure fluid distributor at an hydrostatic bearing. 3,753,604, 8-21-73, Cl. 308-160.000.
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Schlatter, Benjamin G.; and Spate, Sydney, 3,722,152.
Art Steel Company, Inc.: *See—*
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Artama, Arvi; and Artama, Oerkki. Furnace for heating and bending glass plates for windshields and the like. 3,762,905, 10-2-73, Cl. 65-273.000.
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Arth, Glen E.; and Rasmusson, Gary H., to Merck & Co., Inc. 2,2-Dimethyl-6,7 alpha-difluoromethylene-20-spirox-4-ene-3-ones or 3-ols and acyl esters thereof. 3,736,317, 5-29-73, Cl. 260-239.55r.
Arth, Glen E.; and Rasmusson, Gary H., to Merck & Co., Inc. Substituted 1,2$\alpha$-methylene-6,7$\alpha$-halomethylene-20-spirox-4-en-3-ones or 3-ols and acyl esters thereof. 3,753,979, 8-21-73, Cl. 260-239.55r.
Arth, Glen E., to Merck & Co., Inc. 3-Oxygenated-6.7-methylene-20-spiroxanes. 3,763,147, 10-2-73, Cl. 260-239.55r.
Arthur, Eric Richard. Dressmaking forms. 3,734,362, 5-22-73, Cl. 223-68.000.
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Arthur, Jett C., Jr.; Singh, Sujan; and Wade, Ricardo H., to United States of America, Agriculture. Crosslinked heterocyclic cellulosic products. 3,719,449, 3-6-73, Cl. 8-120.000.
Arthur, Jett C., Jr.; and Harris, James A., to United States of America, Agriculture. Radiation initiated process for the graft copolymerization of binary monomer mixtures and cellulose. 3,733,257, 5-15-73, Cl. 204-159.120.
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Arthur, Richard: *See—*
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Arthur, Richard J.: *See—*
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Arthur, Robert M. Apparatus and method for measuring the amount of gas absorbed or released by a substance. 3,740,320, 6-19-73, Cl. 195-103.50r.
Arthur, Robert M. Method and apparatus for determining the amount of settleable and suspended solids in a liquid. 3,746,167, 7-17-73, Cl. 210-70.000.
Arthur, Ronald H.; Eickhorst, Melvin F.; and Hansen, Earl A., to U.I.D. Electronics Corporation. Snap action slide switch. 3,737,601, 6-5-73, Cl. 200-76.000.
Arthur, Thomas F. Magnetic shuffleboard. 3,764,144, 10-9-73, Cl. 273-126.00a.
Arthur Vakuumtechnik Pfeiffer GmbH: *See—*
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Arthur, William C., to Storage Technology Corporation. Motor control circuit for tape drive. 3,748,552, 7-24-73, Cl. 318-7.000.
Arthur, William C., to Storage Technology Corporation. Capstan control system for a tape drive. 3,764,876, 10-9-73, Cl. 318-326.000.
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Rose, Charles R.; and Artiano, George E., 3,770,910.
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Ashany, Ron; and Lindquist, Arwin B., to International Business Machines Corporation. Toroidal interconnection system. 3,748,647, 7-24-73, Cl. 340-172.500.

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Aspland, John Richard, to Martin Marietta Corporation. Dyeing cotton or regenerated cellulose using sulfur dyes oxidized with aqueous sodium bromite solution. 3,716,325, 2-13-73, Cl. 8-37.000.
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Asplund, Robert W., to GTE Sylvania Incorporated. Electronic ignition timing system for internal combustion engines. 3,749,073, 7-31-73, Cl. 123-148.00e.
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Astil, Jaromir. Water purifying device. 3,719,593, 3-6-73, Cl. 210-135.000.
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Atkins, Bobby Leroy, to Dow Chemical Company, The. Copolymers of alkyl styrenes and N-vinyl heterocyclic monomers and inverse suspension polymerization using the same. 3,763,120, 10-2-73, Cl. 260-80.00m.
Atkins, Carl E., to Wagner Electric Corporation. Code-responsive control circuit. 3,717,795, 2-20-73, Cl. 317-134.000.
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Atkinson, Joseph G.; and Cillis, David W., to Frosst, Charles E., & Co. Deuterated paraformaldehyde process. 3,737,464, 6-5-73, Cl. 260-615.500.
Atkinson, Joseph G.; and Luke, Michael O., to Frosst, Charles E., & Co. Deuterated lubricating oils. 3,746,634, 7-17-73, Cl. 208-18.000.
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Auger, Ernest P., to Raytheon Company. Plasma display system. 3,754,230, 8-21-73, Cl. 340-324.00m.

Auger, Ernest P., to Raytheon Company. Current driver circuitry for ferrite phase shifters. 3,754,274, 8-21-73, Cl. 343-854.000.

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Augwerter, Jay P., to Squires, C. E., Company, The. Condensate handling system. 3,744,511, 7-10-73, Cl. 137-195.000.

Aukrust, Egil; and John, T. Grant, to Jones & Laughlin Steel Corporation. Production of low-nitrogen high-chromium ferrous alloys. 3,754,900, 8-28-73, Cl. 75-130.500.

Auler, Herbert; and Josef, Muskat, to Passavant-Werke. Floating surface aerator. 3,709,470, 1-9-73, Cl. 261-91.000.

Auler, Herbert, to Passavant-Werke. Surface aerator having wave attenuator. 3,767,175, 10-23-73, Cl. 261-91.000.

Aulisa, Gerard D., to Sun Oil Company of Pennsylvania. Sealing device for nipples. 3,746,370, 7-17-73, Cl. 285-15.000.

Aull, Louis J.; and Gritt, William E., to Amsted Industries Incorporated. Measuring and sorting apparatus. 3,708,065, 1-2-73, Cl. 209-73.000.

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Ault, C. M. Automatic telephone interface device. 3,746,790, 7-17-73, Cl. 179-1.0hf.

Ault, Cyrus Frank; and Spencer, Robert Graham, to Bell Telephone Laboratories, Incorporated. Shift register clock pulse distribution system. 3,725,790, 4-3-73, Cl. 328-37.000.

Aulthouse, Robert R.: *See—*
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Auman, Paul M.; and Pry, Hugh E., to United States Steel Corporation. Water inlet construction for continuous-casting molds. 3,763,920, 10-9-73, Cl. 164-82.000.

Aumiaux, Michel, to Societe d'Etudes Recherches et Constructions Electroniques (S.E.R.C.E.L.). Continuous amplifier assembly with drift correction. 3,748,587, 7-24-73, Cl. 330-9.000.

Aumiller, Clyde F.; Morrison, Lowell D.; and Holinbeck, Dale G., to Barber-Colman Company. Tantalum insufflator. 3,777,742, 12-11-73, Cl. 128-2.00a.

Aumont, Pierre, to Alsthom-Savoisienne. Faraday effect current measuring device. 3,753,101, 8-14-73, Cl. 324-96.000.

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Winter, Werner; Fauland, Erich; Stach, Kurt; Schmidt, Felix Helmut; and Aumuller, Walter, 3,752,851.

Aung, Tin; and Boyle, William M., Jr., to Dow Chemical Company, The. Delignification and bleaching of cellulose pulp with oxygen and alkali in the presence of magnesium chloride inhibitor. 3,716,447, 2-13-73, Cl. 162-65.000.

Aungst, David C.; and Steckel, Raymond H., to Kelly, Thomas J. and Callanan, Joseph M. Apparatus for visually marking an article with characters over an opaque background covering. 3,745,083, 7-10-73, Cl. 156-388.000.

Aunstrup, Knud; Andresen, Otto; and Outtrup, Helle, to Novo Terapeutisk Laboratorium A/S. Proteolytic enzymes, their production and use. 3,723,250, 3-27-73, Cl. 195-62.000.

Auphan, Michel Joseph; and Perilhou, Jean Robert, to U.S. Philips Corporation. Liquid analyzing device. 3,713,777, 1-30-73, Cl. 23-259.000.

Auphan, Michel Joseph; and Perilhou, Jean Robert, to U.S. Philips Corporation. Camera scanning device and analysing apparatus comprising such a device. 3,721,758, 3-20-73, Cl. 178-7.200.

Auphan, Michel Joseph; and Perilhou, Jean Robert, to U.S. Philips Corporation. Device for measuring the flow rate of a liquid. 3,733,899, 5-22-73, Cl. 73-204.000.

Auping N.V.: *See—*
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Aupoix, Marcel; and Moisson-Franckhauser, Francois, to Compagnie Generale d'Electricite. Cryogenic connection enclosure. 3,715,453, 2-6-73, Cl. 174-15.00c.

Aupoix, Marcel; and Moisson-Franckhauser, Francois, to Compagnie Generale d'Electricite and L'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges. Cryogenic cable and process for making the same. 3,723,634, 3-27-73, Cl. 174-15.0c.

Aupoix, Marcel; and Moisson-Franckhauser, Francois, to Compagnie Generale d'Electricite and L'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Cryogenic cable construction. 3,726,985, 4-10-73, Cl. 174-15.00c.

Aupoix, Marcel; and Moisson-Franckhauser, Francois, to Compagnie Generale d'Electricite. Cryogenic cable. 3,730,966, 5-1-73, Cl. 174-15.00c.

Aupoix, Marcel; Moisson-Franckhauser, Francois; and Royet, Jean, to Compagnie Generale d'Electricite. Method of manufacturing asymmetrical superconductive cables for carrying either alternating or direct current. 3,736,656, 6-5-73, Cl. 29-599.000.

Aupoix, Marcel; and Moisson-Franckhauser, Francois, to Compagnie Generale d'Electricite. Transposed electric cable and method of producing the same. 3,742,116, 6-26-73, Cl. 174-34.000.

Aupoix, Marcel; Moisson-Franckhauser, Francois; and Royet, Jean, to Compagnie Generale d'Electricite. Superconductive cable for carrying either alternating or direct current. 3,754,095, 8-21-73, Cl. 174-126.0cp.

Aupoix, Marcel; Moisson-Franckhauser, Francois; Leroux, Jean-Marie; and Prost, Roger, to Compagnie Generale d'Electricite. Thermal insulation device for a very low-temperature line. 3,780,205, 12-18-73, Cl. 174-15.00c.

Auracher, Robert, to Europaische H.O. Canfield Co., GmbH. Control arrangement for automatically defrosting a refrigerator. 3,726,105, 4-10-73, Cl. 62-156.000.

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Auriemma, Nicholas A., to Universal Oil Products Company. Dispenser with metering system. 3,724,715, 4-3-73, Cl. 221-4.000.

Auriemma, Nicholas A., to Universal Oil Products Company. Brake locking and release system. 3,735,841, 5-29-73, Cl. 188-5.000.

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Austgen, Kenneth J.; Corbett, Richard A.; and Schuller, James J., to Pullman Incorporated. Vehicle hopper door operating mechanism. 3,710,730, 1-16-73, Cl. 105-250.000.

Austin, Amory Earl, to Colgate-Palmolive Company. Means to inhibit overglaze damage by automatic dishwashing detergents. 3,755,180, 8-28-73, Cl. 252-99.000.

Austin, Carl F.: *See—*
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Austin, Charles W., to GTE Sylvania Incorporated. Rotary switch with selectively limited positioning. 3,767,880, 10-23-73, Cl. 200-169.00r.

Austin, Christopher Frederic; Crowther, Philip Simpson; Warren, David; and Howitt, David. Sliding clasp fastener st gers. 3,750,425, 8-7-73, Cl. 66-86.000.

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Austin, Garland R., to Lowrance Electronics Mfg., Corporation. Noise rejection circuit. 3,747,053, 7-17-73, Cl. 340-3.00r.

Austin, George K., Jr. Light base for a dental chair. 3,764,795, 10-9-73, Cl. 240-2.00r.

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Austin, James, to Occidental Research & Engineering Limited. Process for producing liquid NP fertilizers. 3,709,675, 1-9-73, Cl. 71-35.000.

Austin, James E. D., to Data General Corporation. Mounting structure for heat-generating devices. 3,737,728, 6-5-73, Cl. 317-100.000.

Austin, John J., Jr.; and Desmond, John D., to Container Corporation of America. Display package for collapsible tube or the like. 3,746,156, 7-17-73, Cl. 206-45.140.

Austin, Lewis M.; Denman, Robert R.; O'Donnell, Thomas P.; and Veres, Frank, to Owens-Illinois, Inc. Product and method for making same. 3,713,728, 1-30-73, Cl. 350-310.000.

Austin, Lowell W., to National Steel Corporation. Process for reducing discoloration of electrochemically treated chromium plated ferrous metal strip. 3,755,091, 8-28-73, Cl. 204-35.00n.

Austin, Marcus Luther. Flexible linkages. 3,718,996, 3-6-73, Cl. 36-67.00b.

Austin, Max M.; and Boulton, Norman B., to National-Standard Company. Band clutch assembly. 3,709,339, 1-9-73, Cl. 192-41.00s.

Austin, Max M.; and Boulton, Norman B., to National-Standard Company. Slip clutch assembly. 3,731,773, 5-8-73, Cl. 192-41.00s.

Austin, Peter William; Crabtree, Allen; Leng, John Lindley; Robert, Denis; Ridyard, Annesley; and Young, Elliott, to Imperial Chemical Industries Limited. 2-Hydroxy-pyrid-6-one azo dyestuffs containing a cellulose fiber reactive substituent. 3,725,383, 4-373, Cl. 260-146.00t.

Austin, Peter William; and Crabtree, Allen, to Imperial Chemical Industries Limited. Certain 3-acetamido or 3-benzamido-6-hydroxy-2-1-H-pyridones. 3,729,476, 4-24-73, Cl. 260-295.50a.

Austin, Peter William; and Crabtree, Allen, to Imperial Chemical Industries Limited. 1 or 4 Sulpho-aryl-6-hydroxy-2 pyridones. 3,763,170, 10-2-73, Cl. 260-294.80f.

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Autovox S.p.A.: *See—*
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Auvil, Harvey S.; and Schmidt, Lawrence D., to Allied Chemical Corporation. Re-entrainment charging of preheated coal into coking chambers of a coke oven battery. 3,761,360, 9-25-73, Cl. 201-40.000.

Auwerter, Jay P. Pressure reducing valve. 3,762,435, 10-2-73, Cl. 137-505.220.

Auyang, King: *See—*
Diamond, Julius; and Auyang, King, 3,742,064.

Auzel, Francois E. Fluorescent materials for optical frequency conversion. 3,709,827, 1-9-73, Cl. 252-301.40r.

A.V./American Ventures, Inc.: *See—*
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Avakian, Jury Vardkesovich: *See—*
Markosian, Marlen Mamukovich; Shermazanian, Yakov Tigranovich; Kazanxhian, Grigory Paravonovich; Avakian, Jury Vardkesovich; and Vartanian, Albert Vartanovich, 3,713,727.

Avakian, Souren, to Centaur Chemical Co. Micropipette with disposable tips. 3,732,734, 5-15-73, Cl. 73-425.600.

Avalear, Gary Powell, to Topper Corporation. Measuring devices having means to control the motion of the free spindle. 3,733,705, 5-22-73, Cl. 33-147.00r.

Avallon, John C., Jr.: *See—*
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Avalon Industries, Inc.: *See—*
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Avance Oil & Gas Co., Inc.: *See—*
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Avant Incorporated: *See—*
Macone, Frederick W., 3,739,489.

Avant Industries, Inc.: *See—*
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Avant, William W., to Garrett Corporation, The. Regulator and shutoff valve. 3,769,998, 11-6-73, Cl. 137-116.500.

Avco Corporation: *See—*
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Bowers, Russell E.; and Warpenburg, Norman L., 3,734,022.
Brobeck, William R.; and Lane, Buddy F., 3,743,801.
Bronder, Joachim C., 3,715,917.
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Reilly, James P., 3,721,915.
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Maryatt, Michael B.; and McCoy, James M., 3,781,486.
Swain, William W.; and Hathaway, Richard A., 3,781,487.
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Avdeef, Robert A. Analog to digital conversion and computation method. 3,749,894, 7-31-73, Cl. 235-150.520.

Avdeev, Mikhail Pavlovich: *See—*
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Avedissian, Michael K., to Western Electric Company, Incorporated. Vibration isolator mount. 3,749,339, 7-31-73, Cl. 248-20.000.

Avellar, Karl B.; Buchanan, James E.; and Higgins, Edward R., to Westinghouse Electric Corporation. Method and system for determination of rotor angle of synchromechanism. 3,720,866, 3-13-73, Cl. 318-654.000.

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Avenick, Joseph F. Elongate housing having outstanding protrusions for tiltable conductive fluid type ignition safety switch. 3,743,802, 7-3-73, Cl. 200-61.470.

Avenue du General Leclerc: *See—*
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Avera, William W., to Bahnson Company, The. Insulated panel joint assembly. 3,775,921, 12-4-73, Cl. 52-471.000.

Averbook, Charles J.; and Schmier, Robert J. Ski protective device. 3,727,934, 4-17-73, Cl. 280-11.37k.

Averill, Donald H. Invalid lift aid. 3,711,877, 1-23-73, Cl. 5-81.000.

Averill, Preston W., Jr.: *See—*
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Averill, Robert G.; and Khowaylo, Alex, to Howmedica, Inc. Knee or elbow prosthesis. 3,728,742, 4-24-73, Cl. 3-1.000.

Averin, Vyacheslav Vasilievich: *See—*
Cherkasov, Petr Alexeevich; Kuznetsov, Evgeny Mikhailovich; Averin, Vyacheslav Vasilievich; and Samarin, Alexandr Mikhailovich, 3,713,995.

Averitt, Marnie C. Multiple unit lawnmower construction. 3,757,500, 9-11-73, Cl. 56-6.000.

Averitt, Marnie C. Hand clipper. 3,772,783, 11-20-73, Cl. 30-186.000.

Avery, Carl F., to Medical Supply Company. Sponge with encapsulated liquid. 3,768,916, 10-30-73, Cl. 401-132.000.

Avery, Glen H. Light for hunting weapon. 3,739,167, 6-12-73, Cl. 240-2.000.

Avery, Hazelton H., to Barber-Greene Company. Frusto-conical grid. 3,765,101, 10-16-73, Cl. 34-57.00a.

Avery, J. J., Inc.: *See—*
Avery, John Richard, 3,757,784.

Avery, John Richard, to Avery, J. J., Inc. Nursing supplementer. 3,757,784, 9-11-73, Cl. 128-281.000.

Avery, Julian Miles. Magnesium production from a molten oxide slag in the presence of hydrogen. 3,761,247, 9-25-73, Cl. 75-67.000.

Avery, Julian Miles. Metallothermic production of magnesium induced by a stream of inert gas. 3,761,248, 9-25-73, Cl. 75-67.00r.

Avery Laboratories, Inc.: *See—*
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Avery, Roger E.; and Wepsic, James G., 3,724,467.
Avery, Roger E.; and Wepsic, James S., 3,738,368.
Avery, Roger E., 3,774,618.

Avery, Leslie Ronald, to RCA Corporation. Vertical deflection circuits utilizing both regenerative and degenerative feedback for generating parabolic voltages. 3,735,192, 5-22-73, Cl. 315-27.0td.

Avery, Norman R.: *See—*
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Avery Products Corporation: *See—*
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Pituch, Thomas R.; Truesdell, Stanley E.; and Winston, Brian W., 3,721,601.
Torrey, John S., 3,741,786.
Van Arnam, Donald E.; and Marovich, Frank A., 3,760,660.

Avery, Ralph L., to Carborundum Company, The. Abrasive cable saw cutting member. 3,741,192, 6-26-73, Cl. 125-21.000.

Avery, Robert T.: *See—*
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Avery, Roger E., to Avery Laboratories, Inc. Heart stimulation electrode with a conical positioning parachute. 3,719,190, 3-6-73, Cl. 128-418.000.

Avery, Roger E.; and Wepsic, James G., to Avery Laboratories, Inc. Electrode implant for the neuro-stimulation of the spinal cord. 3,724,467, 4-3-73, Cl. 128-418.000.

Avery, Roger E.; and Wepsic, James S., to Avery Laboratories, Inc. Implantable electrodes for the stimulation of the sciatic nerve. 3,738,368, 6-12-73, Cl. 128-418.000.

Avery, Roger E., to Avery Laboratories, Inc. Implantable nerve stimulation electrode. 3,774,618, 11-27-73, Cl. 128-418.000.

Avery, Theodore P.; and Hubbard, Ralph P., to North American Rockwell Corporation. Method and apparatus for recording and verifying magnetic tape programs for machine tools. 3,744,031, 7-3-73, Cl. 340-172.500.

Avery, Thomas L. Ratchet wrench tool head positioner. 3,779,107, 12-18-73, Cl. 81-177.800.

Avery, William H.: *See—*
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Avila, Arthur Julian; Jaeger, Raymond Edward; Miller, Thomas John; and Sauer, Harold Alfred, said Avila assor. to Western Electric Company Incorporated and said Jaeger, Miller and Sauer assor. to Bell Telephone Laboratories, Incorporated. Process for treatent of waste solutions. 3,755,530, 8-28-73, Cl. 423-22.000.

Avilov, Ernest Alexeevich; Vasilievich, Nikolai; Galtsov, Vladimir Vasilievich; Zykov, Anatoly Petrovich; Kanunov, Mikhail Alexeevich; Kiselev, Jury Vladimirovich; Mityaev, Mikhail Vladimirovich; Nikitin, Vyacheslav Vladimirovich; Razin, Anatoly Alexandrovch; Stankevich, Jury Leonidovich; Tsukerman, Veniamin Aronovich; and Eig, Lev Samuilovich. Gas-filled discharge tube. 3,758,804, 9-11-73, Cl. 313-220.000.

Avilov, Valery Andreevich; Khidekel, Mikhail Lvovich; Eremenko, Olga Nikolaevna; Efimov, Oleg Nikolaevich; Ovcharenko, Alina Grigorievna; and Chekry, Pavel Semenovich. Hydrogenation catalyst. 3,755,194, 8-28-73, Cl. 252-429.00r.

Avions Marcel Dassault: *See—*
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Duthion, Louis; Cabassut, Andre Emile Roger; and Labussiere, Andre Julien, 3,708,036.

Aviram, Arieh; Cox, Robert J.; and Young, William R., to International Business Machines Corporation. Class of stable trans-stilbene compounds, some displaying nematic mesophases at or near room temperature and others in a range up to 100° C. 3,767,289, 10-23-73, Cl. 350-160.00r.

Avis, John M., to Harvey Harvesters, Inc. Crop pick-up harvester. 3,712,039, 1-23-73, Cl. 56-328.00r.

Avis, John M., to Koehring Company. Side delivery broom. 3,748,839, 7-31-73, Cl. 56-328.00r.

Avis, John M., to Koehring Company, mesne. Trash separator for crop pick-up harvester. 3,780,511, 12-25-73, Cl. 56-364.000.

Avis Research, Inc.: *See—*
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Avis, Robert Paul, to Scott Paper Company. Polyureide formaldehyde resins and processes for making and using same. 3,772,225, 11-13-73, Cl. 260-17.300.

Avis, Robert Paul, to Scott Paper Company. Glyoxal-acrylamide-formaldehyde-urea wet strength. 3,773,612, 11-20-73, Cl. 162-168.000.

Avis, Victor Arthur; and Matthews, Albert John, to Ciba-Geigy AG. Reinforced plastics materials. 3,737,352, 6-5-73, Cl. 156-181.000.

Avisum Corporation: *See—*
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Avital, Ron, to Israel Aircraft Industries Ltd. Helicopter lighting system and light units useful therein. 3,710,311, 1-9-73, Cl. 340-27.000.

Avivi, Pinchas; and Dothan, Felix, to Yissum Research Development Company of the Hebrew University of Jerusalem. Gas lasers with electrically-conductive plasma tube. 3,713,043, 1-23-73, Cl. 331-94.500.

AVL AG: *See—*
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AVM Corporation: *See—*
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Johnson, Jesse R., 3,709,461.
Moldovan, Michael Terrance, Jr.; Lindros, Charles Jerome; Wescott, Robert Dean; and Anderson, Lawrence Levi, 3,739,151.
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AVM Corporation, mesne: *See—*
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Avnet, Inc., mesne: *See—*
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Avogadro, Alessandro; and Wurm, Joseph, to European Atomic Energy Community (Euratom). Method of processing nuclear fuels. 3,708,267, 1-2-73, Cl. 423-5.000.

Avon Products, Inc.: *See—*
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Ciaudelli, Joseph P., 3,775,484.
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Avoset Food Corporation: *See—*
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Avramidis, Stellios Antony, to FMC Corporation. Silent chain with improved rocker joint. 3,742,776, 7-3-73, Cl. 74-251.00s.

Avramoff, Moshe: *See—*
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Avsan, Oleg; and Grodal, Agnar Vidar, to Telefonaktiebolaget L M Ericsson. Arrangement for synchronizing a number of co-operating computers. 3,761,884, 9-25-73, Cl. 340-172.500.

Avtges, James A.; Reid, Jerome L.; Schlein, Herbert N.; and Taylor, Lloyd D., to Polaroid Corporation. Dye image providing materials within diffusion transfer barrier layers. 3,748,129, 7-24-73, Cl. 96-3.000.

Avtron Manufacturing, Inc.: *See—*
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Haner, Lambert; and Gill, John Allen, 3,764,784.
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AWAB Anderstorps Werkstads A/B: *See—*
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Awano, Koichi: *See—*
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Awano, Taikichi; and Oishi, Yoshihiro, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Process for making a flanged metal product having raised portions around its flange. 3,769,696, 11-6-73, Cl. 29-598.000.

Awano, Yoji: *See—*
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Awataguchi, Shigemi: *See—*
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Awe, Russell C.; Burton, James C.; and Blank, Thomas G., to Modine Manufacturing Company. Tube and fin heat exchanger. 3,731,732, 5-8-73, Cl. 165-181.000.

Awipi, Mebenin, to Bell Telephone Laboratories, Incorporated. Limited vocabulary speech recognition circuit for machine and telephone control. 3,742,143, 6-26-73, Cl. 179-1.0sa.

Awkward, Kenneth Walter: *See—*
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Awrey, Kenneth D., to Westcoat Transmission Company Limited. Pipeline sealing device. 3,724,273, 4-3-73, Cl. 73-389.000.

AWT Systems, Inc.: *See—*
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Miller, Clarence S., Jr.; Staffin, Herbert Kenneth; and Staffin, Robert, 3,772,999.
Staffin, Herbert K.; and Staffin, Robert, 3,779,181.

Axbjer, Erik Lennart. Pipe cutting apparatus. 3,763,559, 10-9-73, Cl. 30-100.000.

Axelrod, Lev Samuilovich; Akatov, Alexandr Vasilievich; Rudenko, Valery Mikhailovich; Fedorov, Viktor Viktorovich; Barashkov, Ruslan Yakovlevich; and Garbuzovsky, Boleslav Iosifovich. Valve plate of column still. 3,759,494, 9-18-73, Cl. 261-79.00a.

Axelrod, Robert Jay, to Du Pont de Nemours, E. I., and Company. Process rendering vinyl surfaces soil resistant. 3,716,401, 2-13-73, Cl. 117-138.8ua.

Axelrod, Sydney, to United States of America, Army. Waterproofing mortar ammunition. 3,731,634, 5-8-73, Cl. 102-103.000.

Axen, Udo F., to Upjohn Company, The. Racemic $PGE_3$. 3,775,462, 11-27-73, Cl. 260-468.00d.

Axen, Udo F., to Upjohn Company, The. Certain bicyclic lactones. 3,778,450, 12-11-73, Cl. 260-343.300.

Axenova, Emilia Ivanovna: *See—*
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Axial Corporation: *See—*
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Axmann, Norbert F.: *See—*
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Axmark, Roger E.; and Erickson, Clifford W., to Honeywell Inc. Ultraviolet radiation detector with 360 angular sensitivity. 3,732,452, 5-8-73, Cl. 313-98.000.

Aya, Masahiro: *See—*
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Aya, Masahiro; Saito, Junichi; Fukazawa, Nobuo; Tamura, Tatsuo; Kurihara, Kazuo; and Morishima, Norihisa, to Bayer Aktiengesellschaft. N-[2,4-Dichloro-5-(haloalkoxy)-phenylcarbamoyl]-pyrrolidine or piperidine. 3,758,481, 9-11-73, Cl. 260-293.770.

Aya, Toshihiko: *See—*
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Ayache, Haled Bou: *See—*
Lynch, Ralph Sylvester; and Ayache, Haled Bou, 3,716,206.

Ayad, Fouad Mohamed. Instrument used for circumcision Ayad's preputome. 3,741,215, 6-26-73, Cl. 128-305.000.

Ayaki, Kazuo: *See—*
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Ayaki, Kazuo, to Nippon Electric Company Limited. Multi-stage type microwave amplifier. 3,710,272, 1-9-73, Cl. 330-53.000.

Ayala, Carl: *See—*
Goldfarb, Adolph E.; and Ayala, Carl, 3,724,125.

Ayars, Frederick M.: *See—*
Bucks, Robert M.; and Ayars, Frederick M., 3,708,750.

Aycock, Ben F.; and Tesoro, Giuliana C., to Burlington Industries, Inc. Flame retardant finish for polyester/cotton blends. 3,765,837, 10-16-73, Cl. 8-115.700.

Aycock, Thomas W.; and Wright, John J., to International Business Machines Corporation. Electrical resistor paste containing a small amount of charcoal. 3,711,428, 1-16-73, Cl. 252-502.000.

Aydin, Kemal M.; and Selnick, Lester L., to Singer Company, The. Dual purpose character generator. 3,735,042, 5-22-73, Cl. 178-15.000.

Ayel, Michel; Desselere, Jean-Pierre; and Lambert, Bernard, to U.S. Philips Corporation. Method of manufacturing semiconductor single crystals. 3,767,473, 10-23-73, Cl. 148-1.600.

Ayella, Robert J., to United States Catheter and Instrument Corporation. Spring guide washer. 3,721,252, 3-20-73, Cl. 134-122.000.

Ayer, Douglas E., to United States of America, Navy., Rigid consumable foam powder bag. 3,771,460, 11-13-73, Cl. 102-97.000.

Ayer, James C., to Ingersoll Milling Machine Company, The. Rotary cutter with helical blades. 3,715,788, 2-13-73, Cl. 29-103.00a.

Ayers, Arnold L.: *See—*
Gray, John H.; Schneider, Alfred; Cormak, Anthony F.; and Ayers, Arnold L., 3,770,612.

Ayers, Clifton E., to Mallory, P. R., & Co., Inc. Calibrated tension arbor. 3,738,588, 6-12-73, Cl. 242-68.300.

Ayers, David L.: *See—*
Blewitt, Donald D.; and Ayers, David L., 3,781,747.

Ayers, David T., Jr., to Kelsey-Hayes Company. Device for dual brake systems. 3,717,382, 2-20-73, Cl. 303-6.00c.

Ayers, David T., Jr., to Kelsey-Hayes Company. Control valve. 3,740,101, 6-19-73, Cl. 303-6.00c.

Ayers, Earl D.: *See—*





Brady, Thomas P.; Langer, Horst G.; and Ayers, Earl D., 3,773,963.

Ayers, Joseph G., Jr.: *See—*
Attridge, Curtis C.; and Ayers, Joseph G., Jr., 3,760,377.

Ayers, Orval E.: *See—*
Huskins, Chester W.; Howard, Clay D.; and Ayers, Orval E., 3,755,019.
Van Landuyt, Dennis C.; and Ayers, Orval E., 3,765,965.

Ayers, Orval E.; and Huskins, Chester W., to United States of America, Army. Method for operating hybrid engines. 3,717,997, 2-27-73, Cl. 60-220.000.

Ayers, Orval E.; and Van Landuyt, Dennis C., to United States of America, Army. 2-Ferrocenyltetrahydrofuran. 3,745,177, 7-10-73, Cl. 260-346.10m.

Ayers, Ray R.: *See—*
Broussard, Douglas E.; Ayers, Ray R.; and Walker, George E., Jr., 3,768,269.

Ayers, Ray R., to Shell Oil Company. Sorbent belt. 3,770,626, 11-6-73, Cl. 210-40.000.

Ayers, Robert C., Jr.; Bayless, Jack H.; Graham, John W.; Lloyd, James R.; Loth, William D.; and Williams, Robert E., to Esso Production Research Company. Method and apparatus for controlling wells. 3,780,809, 12-25-73, Cl. 166-314.000.

Ayers, Thaddeus. Sanitary collector. 3,718,358, 2-27-73, Cl. 294-19.00r.

Ayers, Weston D.; and Hirsch, Joseph G., to General Dynamics Corporation. Method and means for sensing strain with a piezoelectric strain sensing element. 3,750,127, 7-31-73, Cl. 340-261.000.

Ayerst, McKenna and Harrison Limited: *See—*
Bagli, Jehan F.; and Bogri, Tibor, 3,773,795.
Dobson, Thomas A.; and Davis, Martin A., 3,716,541.
Jirkovsky, Ivo; Humber, Leslie G.; Demerson, Christopher A.; and Dobson, Thomas A., 3,778,449.
Lippmann, Wilbur, 3,773,944.

Ayeworth, Milo, to Westinghouse Electric Corporation. Over the cabinet door assembly. 3,771,847, 11-13-73, Cl. 312-245.000.

Aylard, William F.: *See—*
Winter, Richard M.; and Aylard, William F., 3,765,207.

Aylesworth, Albert O. Hydraulic control valve. 3,757,820, 9-11-73, Cl. 137-625.300.

Aylesworth, Albert Orser. Hydraulic controller for strip material feeder. 3,741,458, 6-26-73, Cl. 225-145.000.

Aylesworth, Perry J.; and Lesperance, Arthur J. Golf score marker. 3,716,016, 2-13-73, Cl. 116-120.000.

Aylies, Sargeant E.; Hillhouse, Mial T.; Kyriakis, Alexander; and Pengilly, Brian W., to Goodyear Tire & Rubber Company, The. Preparation of polymeric aromatic compositions. 3,734,866, 5-22-73, Cl. 260-2.00r.

Ayling, John; and Moore, Richard D., to International Business Machines Corporation. Monolithic memory system with bi-level powering for reduced power consumption. 3,764,833, 10-9-73, Cl. 307-296.00a.

Ayling, Robert W., to Cardinal Compressor Corporation. Compressor lubrication system. 3,736,076, 5-29-73, Cl. 417-372.000.

Ayling, Robert W., to Sundstrand Corporation, mesne. Compressor liquid return protection. 3,765,801, 10-16-73, Cl. 417-372.000.

Aypes, Waldemar A., to Becton, Dickinson and Company. Sealed assembly for separation of blood components and method. 3,779,383, 12-18-73, Cl. 210-84.000.

Ayranto, Roy O.: *See—*
Skanes, Frederick A.; Ayranto, Roy O.; and Kraemer, Ronald G., 3,725,996.
Skanes, Frederick A.; Ayranto, Roy O.; and Kraemer, Ronald G., 3,767,254.

Ayre, Vernon H., to United States of America, Army. Fluid gain change circuit. 3,752,171, 8-14-73, Cl. 137-1.000.

Ayre, Vernon Hall; and Dunaway, J. C., to United States of America, Army. Secondary injection/jet reaction control. 3,740,003, 6-19-73, Cl. 244-3.220.

Ayres, Barry Edward: *See—*
Davis, Benjamin; Pearce, Derek Roger; Cook, Martin Christopher; Weir, Niall Galbraith; Newall, Christopher Earle; Ayres, Barry Edward; Gregory, Gordon Ian; and Phillipps, Gordon Hanley, 3,763,195.

Ayres, Charles A., to Phillips Petroleum Company. Fluid transfer control system. 3,711,457, 1-16-73, Cl. 260-93.700.

Ayres, David B. Fluid connection apparatus incorporating control valve. 3,746,043, 7-17-73, Cl. 137-614.040.

Ayres, Douglas John: *See—*
Ayres, Douglas John; and Greenwood, Derek (said Greenwood assor. to said), 3,711,409.

Ayres, Douglas John; and Greenwood, Derek, said Greenwood assor. to said Ayres, Douglas John. Ice-preventive and de-icing oil-in-water emulsion. 3,711,409, 1-16-73, Cl. 252-70.000.

Ayres, James L.; Peterson, Jeffrey D.; and Palmer, John R., said Ayres and said Peterson assors. to said Gold Kist, Inc. Method of making peanut butter in sliced form. 3,772,038, 11-13-73, Cl. 426-295.000.

Ayres, Ralph C.: *See—*
Rogers, Leslie; and Ayres, Ralph C., 3,735,187.

Ayres, Ralph E.; Cleereman, Kenneth J.; and Schrenk, Walter J., to Dow Chemical Company, The. Scrapless forming of plastic articles. 3,739,052, 6-12-73, Cl. 264-92.000.

Ayres, Richard H.: *See—*
Odom, Robert E.; and Ayres, Richard H., 3,720,559.

Ayres, Richard H., to Bemis Company, Inc. Reel winder apparatus. 3,724,649, 4-3-73, Cl. 198-224.000.

Ayres, Waldemar; Walker, Evelyn; Holderith, William; Benson, Carl; and Bandrowski, James, to Becton, Dickinson and Company. Method and apparatus for measuring precise micro quantities of fluid samples. 3,779,083, 12-18-73, Cl. 73-425.04p.

Ayusawa, Saburo; and Iwasaki, Kiyotoshi, to Nippon Steel Corporation. Method for preventing destruction of strip metal in annealing furnace connected with direct heating furnace. 3,720,546, 3-13-73, Cl. 148-156.000.

Azadian, Genevieve, nee Boulanger: *See—*
Geiger, Rolf; Wissmann, Hans; Konig, Wolfgang; and Azadian, Genevieve, nee Boulanger, 3,749,706.

Azalbert, Jean P.; Giraud, Adrien; and Marquaire, Roger Andre, to Compagnie Francaise des Petroles. Reservoirs for the storage of liquids especially volatile liquids. 3,736,754, 6-5-73, Cl. 61-.500.

Azarowicz, Edward N., to Bioteknika International, Inc. Microbial degradation of petroleum. 3,769,164, 10-30-73, Cl. 195-2.000.

Azaruwicz, Edward N., to Bioteknike International Inc. Microbial degradation of polychlorinated biphenyls. 3,779,866, 12-18-73, Cl. 195-2.000.

Azbell, James W.: *See—*
Fretwell, Richard D.; Azbell, James W.; and Mason, Edwin E., 3,781,817.

Azegami, Tadashi, to Fischer & Porter Company. Drift compensation circuit. 3,775,692, 11-27-73, Cl. 328-151.000.

Azelkas, Walter G.: *See—*
Clowers, Earl R.; and Azelkas, Walter G., 3,713,185.

Azetu, Masami: *See—*
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Aziende Colori Nazionali Affini Acna S.p.A.: *See—*
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Azinger, Frederick A., Jr.: *See—*
Fey, Maurice G.; Wolf, Charles B.; Azinger, Frederick A., Jr.; and Kemeny, George A., 3,746,830.
Fey, Maurice G.; Wolf, Charles B.; Azinger, Frederick A., Jr.; and Kemeny, George A., 3,777,112.
Wolf, Charles B.; Fey, Maurice G.; and Azinger, Frederick A., Jr., 3,760,151.

Azionaria Costruzioni Macchine Automatiche A.C.M.A. S.p.A.: *See—*
Aiuola, Franco; and Nannini, Luciano, 3,753,484.
Maulini, Maurizio; Aiuola, Franco; and Rueff, Herbert, 3,722,175.

Azoplate Corporation: *See—*
Horner, Ellwood J.; and Gaisner, Eugene J., 3,771,428.
Schichlein, Burghard K., 3,738,249.

Azote et Produits Chimiques S.A.: *See—*
Berquin, Yves; Duval, Pierre; and Alleton, Jean-Claude, 3,780,161.
Guth, Jean-Louis; Pereyron, Albert; and Wey, Raymond, 3,767,771.
Prognon, Pierre; Scuflaire, Robert; Mathey, Francois; and Grysckiewic-Trochimowski, Oleg, 3,780,036.
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Azrak, Raymond George: *See—*
Barlow, Joel William; Azrak, Raymond George; and Robeson, Lloyd Mahlon, 3,708,454.

Aztec Manufacturing Company: *See—*
Eschbach, Robert C.; and Colligan, John B., 3,712,005.

Azum, Jacques; and Claustre, Roger, to Societe Nationale Industrielle Aerospatiale. Apparatus for determining the centre of gravity of passengers in a vehicle, namely an aircraft. 3,746,844, 7-17-73, Cl. 235-150.200.

Azuma, Keiichi: *See—*
Nakano, Satoshi; Azuma, Keiichi; Oba, Seiichiro; Wakizaka, Samon; and Nakamura, Sunichi, 3,725,507.

Azuma, Kimikazu. Method of manufacturing foamed plastic tubular nets. 3,758,359, 9-11-73, Cl. 156-244.000.

Azuma, Koichi. Automatic tester for testing resistance and inductance of coil windings. 3,735,252, 5-22-73, Cl. 324-59.000.

Azuma, Kuninori; and Nakai, Miyoji, to Matsushita Electric Industrial Co., Ltd. Collective dry cell unit. 3,776,778, 12-4-73, Cl. 136-132.000.

Azure, Leo L., Jr., to Automata Corporation. System for gathering and transmitting source data. 3,715,568, 2-6-73, Cl. 235-61.70r.

Azure, Leo L., Jr., to Automata Corporation. Automatically programmed test grading and scoring method and system. 3,737,628, 6-5-73, Cl. 235-61.60e.

Azure, Leo L., Jr., to Automata Corporation. Document feeding mechanism. 3,761,079, 9-25-73, Cl. 271-116.000.

Azzalin, Bruno; and Bettini, Francesco, to Olivetti, Ing. C., & C., S.p.A. Device for rewinding the paper tape used for writing in calculating machines. 3,721,398, 3-20-73, Cl. 242-67.300.

Azzalin, Bruno; and Bertina, Domenico, to Olivetti, Ing., C., & C., S.p.A. Printing device for calculating machines. 3,735,921, 5-29-73, Cl. 235-58.00p.

B & D Products, Inc.: *See—*
Dipace, George, 3,744,003.

B. & H. Manufacturing Company, Inc.: *See—*
Hoffmann, Wolfgang, 3,765,991.

B & J Machinery Company, Inc.: *See—*
Cobble, James T., 3,757,709.
Cooble, James T., 3,762,346.

B & K Machinery International, Limited: *See—*
Clark, Anthony Philip, 3,764,050.
Wilkinson, Dwight Martin, 3,757,427.

B & K Tool & Die Corporation: *See—*
Sullivan, Edward F., 3,762,107.

B & L Machine Company, Incorporated: *See—*
Litchfield, Mason R., 3,762,438.

B & R Products Proprietary Limited: *See—*
Bridges, Denis Richard, 3,763,689.

B. & W. Manufacturing Co. Inc., mesne: *See—*
Boser, Ronald J., 3,777,314.

B. C. Gearworks Ltd.: *See—*
Hrescak, Stan, 3,722,827.

B&W Incorporated: *See—*
Dockins, Roy Raymond, Jr., 3,776,258.
Solum, James R., 3,770,054.

B-M-B Company, Inc.: *See—*
Bottenberg, Warren E., 3,767,223.

B/K Electric Co., Inc.: *See—*
Burch, Lyndon W., 3,778,739.

Baab, Albert, to Schneider, Jos., & Co., Optische Werke. Iris diaphragm with linear aperture scale. 3,727,531, 4-17-73, Cl. 95-64.00r.

Baade, Kurt. Drain fitting for a bath tub. 3,722,692, 3-27-73, Cl. 210-314.000.

Baak, Nils Tryggve E. A.; and Rapp, Charles F., to Owens-Illinois, Inc. Copper aluminosilicate glass compositions. 3,779,781, 12-18-73, Cl. 106-52.000.

Baar, Michel Armand Rene Alfred, to Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme. Device for forming continuous walls, by means of consecutive, reinforced-concrete panels. 3,729,164, 4-24-73, Cl. 249-10.000.

Baars, Nicolaas Joris, to U.S. Philips Corporation. Television receiver. 3,750,029, 7-31-73, Cl. 325-420.000.

Baarson, Robert E.; deceased (by Impey, W. Richard,; administrator), to Akzona Incorporated, mesne. Flotation of silica. 3,744,629, 7-10-73, Cl. 209-166.000.

Baas, Gerardus; and Bloemenoal, Frans Victor Willem Ten, to U.S. Philips Corporation. Method of establishing relatively insulated connections between conductor ends and an insulating substrate. 3,780,432, 12-25-73, Cl. 29-625.000.

Baba, Hideo, to Sony Corporation. Metal fuel battery and system. 3,758,342, 9-11-73, Cl. 136-86.00a.

Baba, Hirohito; and Takase, Toshiyuki, to Baba Snagyo Kikai Kabushiki Kaisha and Naigai Orimono Kabushiki Kaisha. Sizing and drying sectional warping machine. 3,744,110, 7-10-73, Cl. 28-28.000.

Baba, Kosaku: *See—*
Nakamura, Hiromichi; and Baba, Kosaku, 3,764,817.

Baba, Kosaku; and Wazawa, Kiyoshi, to Nissan Motor Company, Limited. Angular position detector using magnetic elements. 3,777,273, 12-4-73, Cl. 329-200.000.

Baba, Masanao, to Nippon Cable System Inc. Single lever control apparatus for marine engine. 3,741,044, 6-26-73, Cl. 74-876.000.

Baba, Nobuyoshi, to Asahi Kasei Kogyo Kabushiki Kaisha. Method for producing composite metallic pipe by explosion pressure welding. 3,740,826, 6-26-73, Cl. 29-470.100.

Baba, Shoichi: *See—*
Mizuno, Hideo; Kimura, Sadao; Akutsu, Hidezo; Yamazaki, Haruo; Okamoto, Takio; Watarai, Yoshiaki; and Baba, Shoichi, 3,716,743.

Baba Snagyo Kikai Kabushiki Kaisha: *See—*
Baba, Hirohito; and Takase, Toshiyuki, 3,744,110.

Baba, Takeshi; Shibuya, Kenji; Sasada, Masaaki; Nakagawa, Mikio; and Nagao, Taichiro. Radio communication transmission system for vehicles. 3,750,020, 7-31-73, Cl. 325-5.000.

Baba, Takeshi; Yaku, Tadao; Nakajima, Hisao; Kishimoto, Toshihiko; and Yoshida, Kenichi, to Japanese National Railways and Sumitomo Electric Industries, Ltd. Moving object automatic operation system. 3,766,378, 10-16-73, Cl. 4-63.00c.

Baba, Takesi; Osada, Koichi; Hokawa, Takuya; and Suzuki, Fumio, to Hitachi, Ltd. and Japanese National Railways. Mobile communication system. 3,714,574, 1-30-73, Cl. 325-51.000.

Baba, Theodore B., to National Distillers and Chemical Corporation. Continuous process for the production of alfin polymers. 3,732,194, 5-8-73, Cl. 260-82.100.

Babayan, Eduard P., to Hitco. Curable epoxy resin composition containing a substituted diurea compound. 3,717,612, 2-20-73, Cl. 260-47.0en.

Babb, Albert L.: *See—*
Wakefield, Albert W.; and Babb, Albert L., 3,757,947.

Babb, Albert L. Concatenated jacket refrigeration system for oil and gas wells. 3,762,469, 10-2-73, Cl. 166-57.000.

Babb, Bruce, E.: *See—*
Grisdale, Patrick J.; and Babb, Bruce, E., 3,767,409.

Babb, Burton A.; Byer, Edward L.; Giffin, George S.; and Rife, Robert E. Electro-optical viewing device. 3,737,667, 6-5-73, Cl. 250-213.00r.

Babb, John J.; and Bays, Marvin G., to Delta Exploration Company, Inc. Amphibious seismic exploration vehicle and method. 3,718,206, 2-27-73, Cl. 181-.5vm.

Babb, John J., to Delta Exploration Company, Inc. Method and apparatus for providing underwater seismic energy signals. 3,718,207, 2-27-73, Cl. 181-.50h.

Babb, Randall K., to Arrb Mfg. Company. Universal press. 3,727,291, 4-17-73, Cl. 29-251.000.

Babb, Raymond E., 1/2 to Hanscom, Genevieve I.; formerly Magnuson, Genevieve I., 1/2 to Magnuson, Genevieve I., Magnuson, Robert and Thomson, Lois J.; formerly Duggan, Lois J., trustees of the estate of Magnuson, Roy M. Color measuring with memory. 3,744,99, 7-10-73, Cl. 356-189.000.

Babbitt, Dean R., III. Dosage time indicator container. 3,766,882, 10-23-73, Cl. 116-121.000.

Babbitt, John H., Jr.; and Young, William A., Jr., to Caterpillar Tractor Company. Environmental seal for a transmission shift lever. 3,748,923, 7-31-73, Cl. 74-566.000.

Babbitt, John M.; and Houle, James F., to Eastman Kodak Company. Light-sensitive element comprising a coating layer containing a mixture of a cationic perfluorinated alkyl and an alkylphenoxypoly(propylene oxide). 3,775,126, 11-27-73, Cl. 96-67.000.

Babbitt, Richard W.; and LoCicero, Joseph, to United States of America, Army. Substrate holder for arc plasma deposition. 3,780,696, 12-25-73, Cl. 118-49.500.

Babcock & Wilcox Company, The: *See—*
Clark, Merle Myron, 3,711,239.
Coulter, Earl E.; Hemker, Fritz L.; and Kazmierski, Elias A., 3,720,351.
Durrant, Oliver W., 3,760,776.
Evans, Sidley O., 3,709,020.
Gauger, Edward A., Jr.; Brown, Wallace H.; and Gartner, William J., 3,709,169.
Gross, Leonard B.; Johnson, Charles R.; and Nattsas, Stephen C., 3,715,914.
Heer, William Franklin; and De Carli, Earl Victor, 3,774,010.
Kolesar, Daniel J.; and Stahl, Charles W., 3,750,345.
Lapple, Walter C.; and Matty, Robert E., 3,758,668.
McIlroy, Robert A.; Sage, Warnic L.; and Markant, Henry P., 3,723,068.
Moore, Claude A.; and Heer, William F., 3,735,550.
Pacault, Pierre Henri; and Kagans, Marc, 3,780,786.
Piepho, Robert R., 3,730,446.
Rudd, Alexander H.; Hansen, Walter A.; and Ingersoll, James E., 3,741,174.
Rudd, Alexander H.; Kidwell, John H.; and Murray, Thomas J., 3,781,162.
Schlichting, John, 3,771,596.
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Sprague, Theodore S.; Schlicting, John; and McDonald, Bertrand N., 3,771,497.
Strom, Steven S.; and Markant, Henry P., 3,749,380.

Babcock & Wilcox, Limited: *See—*
Franzmann, Karl; and Schleuter, Paul, 3,754,533.

Babcock, Dale F.; and Neill, John S., to United States of America, Atomic Energy Commission. Increased recovery in dual temperature isotope exchange process. 3,711,598, 1-16-73, Cl. 423-580.000.

Babcock, David L.: *See—*
Harvey, Donald M.; and Babcock, David L., 3,735,676.
Metzger, Lenard M.; and Babcock, David L., 3,778,545.

Babcock, David L.; and Sypula, Richard J., to Eastman Kodak Company. Optical-to-electrical signal transducer apparatus. 3,748,485, 7-24-73, Cl. 250-226.000.

Babcock, Edward R. Rope placing tool. 3,774,953, 11-27-73, Cl. 294-19.00r.

Babcock, Gordon L.: *See—*
Warren, Gary J.; and Babcock, Gordon L., 3,710,107.

Babcock, Guy L.; Bryant, Walter M.; Neugebauer, Constantine A.; and Brugess, James F., to General Electric Company. Method of direct bonding metals to non-metallic substrates. 3,766,634, 10-23-73, Cl. 29-471.900.

Babcock, John C.: *See—*
Beal, Philip F., III; Lincoln, Frank H., Jr.; and Babcock, John C., 3,711,528.

Babcock-Atlantique: *See—*
Armand, Marc, 3,745,978.
Pierart, Robert M., 3,755,647.

Babecki, Alfred J.; and Haehner, Carl L., to United States of America, National Aeronautics and Space Administration. Peen plating. 3,754,976, 8-28-73, Cl. 117-105.000.

Babel, Louis: *See—*
Peytavin, Pierre; and Babel, Louis, 3,736,980.

Baber, Ernest Greenberry, to Du Pont de Nemours, E. I., and Company. Defect detector for a moving web. 3,763,373, 10-2-73, Cl. 250-219.0we.

Babich, Edward: *See—*
Offutt, Elmer Bradley; and Babich, Edward, 3,737,071.

Babiec, John S., Jr.: *See—*
Pitts, James J.; and Babiec, John S., Jr., 3,759,916.

Babigan, Raymond. Scanning apparatus utilizing a laser beam. 3,772,450, 11-13-73, Cl. 178-7.300.

Babington, Robert S.; and Velie, Wallace W., to North American Rockwell Corporation. Two-stage vaporizing fuel oil burner. 3,751,210, 8-7-73, Cl. 431-237.000.

Babitsky, Boris Davidovich: *See—*
Anikeev, Konstantin M.; Babitsky, Boris Davidovich; Verblovsky, Alexei Matveevich; Kozhenets, Tamara Nikolaevna; Kormer, Vitaly Abramovich; Lobach, Mark Iosifovich; Markova, Viktoria Vladimirovna; and Rivin, Ervin Mikhailovich, 3,780,078.

Babler, Egon S., to Teletype Corporation. Friction clutch. 3,712,432, 1-23-73, Cl. 192-26.000.

Babon, Paulette Aimee: *See—*
Langer, Robert Marie Gerard; and Babon, Paulette Aimee, 3,749,320.

Babson, Arthur L.; and Babson, Susan R., to Warner-Lambert Company Precipitating solution for amylase assay. 3,753,864, 8-21-73, Cl. 195-103.50r.

Babson, Arthur L.; and Babson, Susan R., to Warner-Lambert Company. Precipitating agent solution for amylase assay. 3,758,384, 9-11-73, Cl. 195-103.50r.

Babson Bros. Co.: *See—*
Carlson, Lee Gerald; and Ronsen, Gustav A., 3,773,659.
Needham, Lyle L.; Shulick, Robert J.; and Swanson, Harold V., 3,726,252.
Needham, Lyle L.; and Fitzpatrick, Don W., 3,773,016.

Babson, Susan R.: *See—*
Babson, Arthur L.; and Babson, Susan R., 3,753,864.
Babson, Arthur L.; and Babson, Susan R., 3,758,384.

Babunovic, Momir, to Barry-Wehmiller Company. Container feeding apparatus for washers. 3,710,918, 1-16-73, Cl. 198-30.000.

Babunovic, Momir; and Faant, Siamac, to Barry-Wehmiller Company. Container flaw inspection apparatus. 3,735,144, 5-22-73, Cl. 250-223.00b.

Babusci, Daniel; and Unger, Burton Abram, to Bell Telephone Laboratories, Incorporated. Method of reducing the incidence of short circuits in air-isolated beam crossovers. 3,740,819, 6-26-73, Cl. 29-401.000.

Babushkina, Ninel Alexandrovna: *See—*
Tikhonov, Sergei Alexeevich; Judin, Gennady Georgievich; and Babushkina, Ninel Alexandrovna, 3,757,948.

Babut, John S.; and Morek, Stanely J. Low overhead warning device. 3,769,931, 11-6-73, Cl. 116-28.00r.

Baccaglini, Russell C.; and Rogers, Kenneth J., to Ocean Recovery Systems, Inc. Latent buoyancy system. 3,777,692, 12-11-73, Cl. 114-54.000.

Baccetti, Valerio A., to Armour and Company. Cut-off device for forming apparatus. 3,722,034, 3-27-73, Cl. 17-32.000.

Bacchi, Ray M., to De Laval Turbine California, Inc. Automatic control system. 3,753,626, 8-21-73, Cl. 417-1.000.

Baccus, James A.: *See—*
Martin, Gerald; Baccus, James A.; and Gurman, Marvin, 3,760,546.
Martin, Gerald; Baccus, James A.; and Gurman, Marvin, 3,779,202.

Bacevius, Joseph G., to Garrity, Paul G. Flashlight construction. 3,711,699, 1-16-73, Cl. 240-10.680.

Bacevius, Joseph G., to Garrity, Paul G. Flashlight construction. 3,711,703, 1-16-73, Cl. 240-10.600.

Bach & Co.: *See—*
Pfenning, Hans, 3,735,297.
Pfenning, Hans, 3,750,060.

Bach, Frederick Louis: *See—*
Albers, Henry John; Riggi, Stephen Joseph; Bach, Frederick Louis; and Cohen, Elliott, 3,716,644.

Bach, Frederick O.; Chapin, Leo N.; Freed, Robert; and Cernoch, Thomas J., to Dick, A. B., Company, mesne. Electrophotographic multicolor copy developed receptor employing solubilizable dyes. 3,717,463, 2-20-73, Cl. 96-1.500.

Bach, Guy Roger Jules. Optical system with continuous film transport. 3,720,459, 3-13-73, Cl. 532-113.000.

Bach, Hans: *See—*
Heinroth, Karl-August; Neumann, Herbert; Dauscher, Rudi; Jurischka, Hans-Dieter; and Bach, Hans, 3,756,006.

Bach, Hartwig C., to Monsanto Company. Process for the preparation of unsaturated nitriles. 3,719,701, 3-6-73, Cl. 260-465.900.

Bach, Hartwig C., to Monsanto Company. Polyamide acids of certain tetracarboxylic acids and certain azo containing diamines. 3,732,200, 5-8-73, Cl. 260-144.000.

Bach, Hartwig C., to Monsanto Company. Highly ordered azo-aromatic polyimides. 3,733,308, 5-15-73, Cl. 260-65.000.

Bach, Lloyd G., to Bendix Corporation, The. Hydraulic brake booster with piston return device. 3,707,880, 1-2-73, Cl. 91-391.000.

Bach, Lloyd G.; and Ewald, Jerome T., to Bendix Corporation, The. Hydraulic brake booster with disc reaction. 3,712,177, 1-23-73, Cl. 91-369.00a.

Bach, Lloyd G., to Bendix Corporation, The. Hybrid brake booster control valve. 3,719,044, 3-6-73, Cl. 60-404.000.

Bach, Lloyd G., to Bendix Corporation, The. Pressure limiter for hydraulic booster. 3,724,332, 4-3-73, Cl. 91-391.00r.

Bach, Lloyd G.; and Lewis, Richard L., to Bendix Corporation, The. Integrated brake booster and adaptive braking modulator. 3,729,235, 4-24-73, Cl. 303-21.00f.

Bach, Lloyd G., to Bendix Corporation, The. Brake pedal travel limiter for hydraulic brake booster. 3,733,968, 5-22-73, Cl. 91-391.00r.

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Bach, Lloyd G., to Bendix Corporation, The. Hybrid brake booster using charging valve. 3,751,912, 8-14-73, Cl. 60-54.50p.

Bach, Meinhard; and Urban, Friedrich, to Schanzlin, Klein, & Becker Aktiengesellschaft. Sealing arrangement. 3,743,302, 7-3-73, Cl. 277-10.000.

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Bach, William C. Interlocking tie strip. 3,744,094, 7-10-73, Cl. 24-16.0pb.

Bacha, John D.; and Selwitz, Charles M., to Gulf Research & Development Company. Conversion of chloroaromatics to meta derivatives beyond equilibrium. 3,742,073, 6-26-73, Cl. 260-650.00r.

Bacha, John D.; and Selwitz, Charles M., to Gulf Research & Development Company. Preparation of nitrocyclopropane from 3-chloro-1-nitropropane. 3,769,355, 10-30-73, Cl. 260-644.000.

Bacha, John D.; and Selwitz, Charles M., to Gulf Research & Development Company. Preparation of nitrocyclopropane from nitromethane and vinyl bromide. 3,769,356, 10-30-73, Cl. 260-644.000.

Bacha, John D.; and Selwitz, Charles M., to Gulf Research & Development Company. Preparation of nitrocyclopropane from nitromethane and a 1,2-dihaloethane. 3,769,357, 10-30-73, Cl. 260-644.000.

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Bachl, Herbert. Fluid-flow machine. 3,726,605, 4-10-73, Cl. 416-186.000.

Bachle, Carl F., to Teledyne Industries, Inc. Exhaust port structure. 3,728,994, 4-24-73, Cl. 123-188.0gc.

Bachle, Carl F., to Teledyne Industries, Inc. Control of air-fuel ratio. 3,742,924, 7-3-73, Cl. 123-119.00r.

Bachle, Carl F., to Teledyne Industries, Inc. Filter cleaning system for internal combustion engine. 3,748,836, 7-31-73, Cl. 55-302.000.

Bachle, Carl F., to Teledyne Industries, Inc. Self-closing cap. 3,750,825, 8-7-73, Cl. 220-35.000.

Bachle, Karl; Finkbeiner, Ludwig; and Taubitz, Bernd, to Bosch, Robert, G.m.b.H. Alternating current generator with radial stator poles. 3,710,158, 1-9-73, Cl. 310-156.000.

Bachle, Wilfred H.; Segovia, Gilbert; and Parker-Jones, H. Andre, to Philco-Ford Corporation. Tapered compression end fitting. 3,730,564, 5-1-73, Cl. 285-115.000.

Bachler, Sven; Akervall, Sven Erik; and Wallenstein, Sven, to Allmanna Svenska Elektriska Aktiebolaget. Single pillar isolator switch. 3,755,634, 8-28-73, Cl. 200-48.00v.

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Bachman, Carl E.; Miller, Richard E.; and Smoots, Edwin H., to Pillsbury Company, The. Supporting disc for packaging cut flowers and the like. 3,767,104, 10-23-73, Cl. 229-7.00r.

Bachman, Gustave Bryant; and Maleski, Robert Joseph, to Purdue Research Foundation. Selective production of nitro alkanes. 3,723,546, 3-27-73, Cl. 260-644.000.

Bachman, James L.; and Martin, Robert M., to Coors Porcelain Company. Electroless nickel plating process. 3,736,167, 5-29-73, Cl. 117-37.00r.

Bachmann, George. Pipe cutting apparatus with rocking arm rollers. 3,756,100, 9-4-73, Cl. 82-4.00c.

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Bachmann, Horst, to Langenstein & Schemann Aktiengesellschaft. Electric upsetting machine. 3,728,887, 4-24-73, Cl. 72-318.000.

Bachmann, Horst, to Fernseh G.m.b.H. Color television cameras. 3,739,080, 6-12-73, Cl. 178-5.40e.

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Bachmann, Peter, to Ebauches Bettlach S.A. Timepicce movement comprising a jumping type indicator. 3,712,048, 1-23-73, Cl. 58-58.000.

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Bafford, Richard Anthony, to Pennwalt Corporation. Tertiary-alkyl halocumyl peroxides. 3,755,464, 8-28-73, Cl. 260-610.00r.

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Bagley, Richard O. Aquatic sporting device. 3,733,630, 5-22-73, Cl. 9-311.000.

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Bahl, Lalit R.; Barnea, Daniel I.; Grossman, David O.; and Kobayashi, Hisashi, to International Business Machines Corporation. Finite memory adaptive predictor. 3,769,453, 10-30-73, Cl. 178-6.000.

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Bahnsen, Erwin B., to Steiner American Corporation. Method for rinsing fabric articles. 3,732,072, 5-8-73, Cl. 8-149.100.

Bahnsen, Erwin B., to Steiner American Corporation. Liquid expressing apparatus. 3,760,615, 9-25-73, Cl. 68-248.000.

Bahnsen, Erwin B., to Steiner American Corporation. Automatic towel winding machine. 3,761,032, 9-25-73, Cl. 242-67.100.

Bahnsen, Erwin B., to Steiner American Corporation. Continuous rinsing apparatus. 3,763,672, 10-9-73, Cl. 68-205.00r.

Bahnsen, Erwin B., to Steiner American Corporation. Continuous washing method. 3,765,838, 10-16-73, Cl. 8-154.000.

Bahnsen, Gerhard I. W. Camera with film spacer. 3,738,241, 6-12-73, Cl. 95-24.000.

Bahnsen, Gerhard I. W. Collapsible camera assembly. 3,742,835, 7-3-73, Cl. 95-86.000.

Bahnsen, Gerhard I. W. Film packet and holder. 3,747,496, 7-24-73, Cl. 95-72.000.

Bahnsen, Gerhard I. W. Photographic strobe light adapter. 3,763,366, 10-2-73, Cl. 240-1.300.

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Bahr, Albert. Filter press, more particularly for dewatering sludge in sewage treatment plants. 3,743,100, 7-3-73, Cl. 210-386.000.

Bahr, Alfred, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Ion engine. 3,757,518, 9-11-73, Cl. 60-202.000.

Bahr, Alfred J., to Stanford Research Institute. Electrically controlled reflection of acoustic surface waves. 3,715,674, 2-6-73, Cl. 330-12.000.

Bahr, Alfred J.; and Podell, Allen F., to Stanford Research Institute. Grating surface acoustic wave transducer. 3,742,396, 6-26-73, Cl. 333-30.000.

Bahr, Donald W.; and Harshman, Daniel L., to General Electric Company. Annular slot combustor. 3,722,216, 3-27-73, Cl. 60-39.360.

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Baier, Anton, to Hauni-Werke Korber & Co., KG. Apparatus for testing cigarettes or the like. 3,769,832, 11-6-73, Cl. 73-41.000.

Baier, Frederick L.; and Ancker, Fred H., to Union Carbide Corporation. Metal plated plastics. 3,741,800, 6-26-73, Cl. 117-138.80e.

Baier, Frederick Lawrence; and Joffe, Edward Mattnew, to Union Carbide Corporation. Method for incorporating an adhesion promoter into a polymeric substrate. 3,751,287, 8-7-73, Cl. 117-47.00a.

Baier, John P. Plug having independent axial and lateral compression means. 3,778,539, 12-11-73, Cl. 174-152.00r.

Baier, Robert J. Marine platforms. 3,739,737, 6-19-73, Cl. 114-.50d.

Baierl, Kenneth W., to Scott Paper Company. Recovery and separation of chemicals produced during kraft pulping operations. 3,764,461, 10-9-73, Cl. 162-16.000.

Baierl, Kenneth W., to Scott Paper Company. Recovery of furfural and methanol from spent pulping liquors. 3,764,462, 10-9-73, Cl. 162-16.000.

Bail, John W., to Narco Scientific Industries, Inc. Digital distance ranging system. 3,781,888, 12-25-73, Cl. 343-13.00r.

Baildon, Shipley: *See—*
Russell, Kenneth F.; Baildon, Shipley; and Collinson, John D., 3,720,285.

Bailey, Allen N. Tie rod assembly. 3,734,453, 5-22-73, Cl. 249-213.000.

Bailey, Cecil; and Frederick, Oscar C., to General Electric Company. Arcing contract for an electric circuit breaker and method of making same. 3,752,946, 8-14-73, Cl. 200-166.00c.

Bailey, Charles A. Remote vehicle starting system. 3,767,932, 10-23-73, Cl. 290-38.000.

Bailey, Charles L., Jr., to United States of America, National Aeronautics and Space Administration. Three-axes controller. 3,771,037, 11-6-73, Cl. 318-580.000.

Bailey, Christopher Edmund Gervase, to Solartron Electronic Group Limited, The. Cordic digital calculating apparatus. 3,746,849, 7-17-73, Cl. 235-156.000.

Bailey, David L.; Fiorino, Benjamin C.; and Rodriguez, Juan A., to International Business Machines Corporation. Reducing dead-tracking in recording systems. 3,747,079, 7-17-73, Cl. 340-174.10b.

Bailey, Denis M.: *See—*
Archer, Sydney; and Bailey, Denis M., 3,775,415.

Bailey, Denis M., to Sterling Drug Inc. 2-Alkoxy-2(naphthyl)-alkanamidoximes. 3,720,714, 3-13-73, Cl. 260-564.00g.

Bailey, Donald T.: *See—*
Cook, Melvin Alonzo; and Bailey, Donald T., 3,713,914.

Bailey, Edward A.; and Wolcott, Robert E. Centralizer. 3,749,454, 7-31-73, Cl. 308-3.900.

Bailey, Eric, to International Computers Limited. Punch mechanisms. 3,779,111, 12-18-73, Cl. 83-23.000.

Bailey, Ernest Arthur: *See—*
Smith, Alexander Steel; and Bailey, Ernest Arthur, 3,715,854.

Bailey, Escar L.: *See—*
Hunter, Joe S.; Bailey, Escar L.; and Little, Little J., 3,768,316.
Hunter, Joe S.; Bailey, Escar L.; and Little, Little J., 3,771,369.

Bailey, Fay W.: *See—*
Walker, John H.; and Bailey, Fay W., 3,766,114.

Bailey, Frank W. Blue flame retention gun burners and heat exchanger systems. 3,741,166, 6-26-73, Cl. 122-23.000.

Bailey, George E. Kitchen cutting board. 3,770,262, 11-6-73, Cl. 269-289.000.

Bailey, George Terrell. Variable length trousers construction. 3,722,001, 3-27-73, Cl. 2-269.000.

Bailey, Gerald Dwight, to Johns-Manville Corporation. Asbestos yarn reinforced with continuous strand of a polyvinyl alcohol. 3,751,897, 8-14-73, Cl. 57-144.000.

Bailey, Grant C., to Phillips Petroleum Company. Process for separating halogenated hydrocarbons by azeotropic distillation with ammonia. 3,732,150, 5-8-73, Cl. 203-44.000.

Bailey, Guy. Bayonet mounted flexible cleaning pad. 3,720,976, 3-20-73, Cl. 15-244.00a.

Bailey, Henry Philip, to International Research & Development Company Limited. Electrolytic cells. 3,718,540, 2-27-73, Cl. 204-272.000.

Bailey, Homer M.: *See—*
Martone, Ronald J.; Mueller, Peter G.; and Bailey, Homer M., 3,718,833.

Bailey, Hubert Charles, to BP Chemicals Limited. Process for the stabilization of acrylonitrile by distillation with a nitroxide. 3,747,988, 7-24-73, Cl. 203-8.000.

Bailey, James R., to Switchcraft, Inc. Electrical switch unit. 3,727,020, 4-10-73, Cl. 200-167.00a.

Bailey, James R.; Klein, Carl F.; Korta, Lawrence B.; and Pridemore, Donald F., to Johnson Service Company. Intrusion detection apparatus having a high frequency diode oscillator-mixer element. 3,750,165, 7-31-73, Cl. 343-5.0pd.

Bailey, James Rushton, to Rush-Hampton, Inc. Room air deodorizer. 3,747,902, 7-24-73, Cl. 261-30.000.

Bailey, John D.: *See—*
Adler, Franklin P.; Bailey, John D.; and Bridges, George F., 3,718,100.

Bailey, John E., to Foxboro Company, The. Magnetic flowmeter apparatus. 3,715,918, 2-13-73, Cl. 73-194.0em.

Bailey, John M.; and Zook, Donald G., to Caterpillar Tractor Company. Connecting rod manufacturing. 3,751,080, 8-7-73, Cl. 287-52.030.

Bailey, John M.; and Wells, Alan W., to Caterpillar Tractor Company. Engine bearing arrangement. 3,762,786, 10-2-73, Cl. 308-237.000.

Bailey, John R., to Senturion Sciences, Inc. Mapping of earth fractures induced by hydrafracturing. 3,739,871, 6-19-73, Cl. 181-.5np.

Bailey, John S.: *See—*
Labelle, Harold E., Jr.; and Bailey, John S., 3,765,843.

Bailey, John T.: *See—*
Breton, Ernest J.; Wolf, Jack D.; Worden, Dexter; and Bailey, John T., 3,743,556.

Bailey, John V.: *See—*
Cleveland, Thomas H.; and Bailey, John V., 3,733,296.

Bailey, Joseph; Knott, Edward B.; and Marr, Peter A., to Eastman Kodak Company. Silver halide emulsion containing 1-H-pyrazolo [3,2-c]-s-triazole color couplers. 3,725,067, 4-3-73, Cl. 96-56.500.

Bailey, Joseph; Heath, Bushey; Knott, Edward B.; and Marr, Peter A., to Eastman Kodak Company. Silver halide emulsions containing sensitizing dyes derived from a 1H-pyrazolo-[3,2-c]-S-triazole. 3,758,309, 9-11-73, Cl. 96-136.000.

Bailey, Joseph K., Jr., to TRW Inc. Method of making cages. 3,707,753, 1-2-73, Cl. 29-148.40c.

Bailey, Joseph T.: *See—*





Theobald, Paul R.; and Bailey, Joseph T., 3,723,176.

Bailey, Joseph T., to American Lava Corporation. Leachable ceramic cores. 3,727,670, 4-17-73, Cl. 164-132.000.

Bailey, Keith A.; and Marlow, Jerry R., to General Motors Corporation. Flow controlled control system for motors. 3,757,644, 9-11-73, Cl. 91-411.00r.

Bailey, Knight V., to Bendix Corporation, The. Automatic plotter utilizing a coordinate grid device. 3,725,760, 4-3-73, Cl. 318-568.000.

Bailey, Malcolm; and Downer, John Colin, to Conder International Limited. Ceiling system. 3,708,932, 1-9-73, Cl. 52-232.000.

Bailey, Maurice E.: *See—*
Spatz, Sydney M.; Bailey, Maurice E.; and Evans, Francis E., 3,732,239.

Bailey Meter Company: *See—*
Cohen, Kenneth W., 3,731,700.
Cohen, Kenneth W., 3,736,960.
Flais, Louis R.; and Gentile, Ralph G., 3,767,469.
Friedline, Leslie E.; Stevenson, Thomas E.; and Weber, Lee A., 3,725,949.
Hunter, Richard C., 3,756,085.
Stevko, Phillip J., 3,762,237.
Vaughn, Arthur L., 3,727,111.

Bailey, Milton: *See—*
Petrick, John T.; and Bailey, Milton, 3,733,544.

Bailey, Philip S.: *See—*
Chang, Yun Ger; and Bailey, Philip S., 3,755,454.

Bailey, Raymond V.: *See—*
Toth, Charles; Bailey, Raymond V.; and Harris, Harry G., Jr., 3,713,809.

Bailey, Richard J., to GTI Corporation. Conductive shunt for circular lead pattern devices. 3,761,861, 9-25-73, Cl. 339-19.000.

Bailey, Robert E.: *See—*
Evans, Grant; Petty, Billy Joe; and Bailey, Robert E., 3,727,740.

Bailey, Robert J., to Grace, W. R., & Co. Silverless photographic printing paper. 3,734,725, 5-22-73, Cl. 96-35.100.

Bailey, Robert L.: *See—*
United States of America, National Aeronautics and Space Administration, 3,760,257.

Bailey, Ronald B., to General Electric Company. Phase angle regulator for high frequency inverter. 3,718,852, 2-27-73, Cl. 321-19.000.

Bailey, Ronald B., to General Electric Company. Starting circuitry for series/parallel compensated, current-fed inverter. 3,725,770, 4-3-73, Cl. 321-45.00r.

Bailey, Ronald B., to General Electric Company. Series/parallel compensated current source inverter with means for clamping voltage on series compensating capacitor. 3,757,197, 9-4-73, Cl. 321-45.00c.

Bailey, Ronald L., to Barber-Colman Company. Input switch for reversing the sense of an amplifier in a single loop heating-cooking system. 3,725,644, 4-3-73, Cl. 219-494.000.

Bailey, Stuart L., to Murphy, G. W., Industries, Inc. Valves. 3,742,976, 7-3-73, Cl. 137-516.290.

Bailey, Todd D. Trough structure. 3,733,832, 5-22-73, Cl. 61-15.000.

Bailey, Walter William: *See—*
Parsons, David; and Bailey, Walter William, 3,746,810.

Bailey, Wayne. Propellants from earth's heat. 3,736,744, 6-5-73, Cl. 60-6.000.

Bailey, Wayne W.; and McCarthy, Paul R., to Gulf Research & Development Company. Aluminum complex soap grease. 3,776,846, 12-4-73, Cl. 252-32.700.

Bailey, Wesley T. Apparatus for processing resin. 3,756,518, 9-4-73, Cl. 241-65.000.

Bailey, William Douglas: *See—*
Buttle, Robert Leroy; and Bailey, William Douglas, 3,730,969.

Bailey, William J.: *See—*
Schmitt, Edward E.; and Bailey, William J., 3,737,440.

Bailiff, Vernon Brooks. Universal ring jaws. 3,747,945, 7-24-73, Cl. 279-15.00j.

Bailleu, John R. Reuseable bolt type mounted thermocouple. 3,765,242, 10-16-73, Cl. 73-359.000.

Baillie, Alan J.: *See—*
Gutoski, Jerome; and Baillie, Alan J., 3,709,650.

Baillie, James B., to Ameron, Inc. One piece elbow mold. 3,752,438, 8-14-73, Cl. 249-184.000.

Baillie, Lloyd A.: *See—*
Uhl, George A.; and Baillie, Lloyd A., 3,718,579.

Baillie, Stanley B.: *See—*
Atkins, Stanley G.; and Baillie, Stanley B., 3,747,701.

Baillie, Stanley B.; and Atkins, Stanley G., said Baille assor. to Armadillo Holdings Ltd. Cutter knife for earth coring. 3,754,608, 8-28-73, Cl. 175-53.000.

Bailly, Francois, to Societe Anonyme pour l'Equipment Electrique des Vehicules S.E.V. Marchal. Apparatus for correcting the effect of variation in load on the direction of headlight beams of vehicles. 3,728,538, 4-17-73, Cl. 240-7.1lj.

Bailly, Jean Claude, to Naphtachimie. Method of preparation of polymers of propylene and/or butylenes. 3,737,476, 6-5-73, Cl. 260-683.15d.

Bailly, Roger: *See—*
Peltier, Henri; Bailly, Roger; and Chatourel, Pierre, 3,710,848.

Bailly, Yves G.: *See—*
Fauran, Claude P.; Eberle, Jeannine A.; Raynaud, Guy M.; and Bailly, Yves G., 3,758,459.

Bain, Alexander O. Table levelling device. 3,768,766, 10-30-73, Cl. 248-188.200.

Bain, George W.; and Haak, Fred C., to International Telephone and Telegraph Corporation. Multipactor ion generator. 3,718,836, 2-27-73, Cl. 315-111.000.

Bain, James A., to General Electric Company. Strain-leaf burr height detector. 3,777,558, 12-11-73, Cl. 73-105.000.

Bain, James B.: *See—*
Zimet, Robert A.; and Bain, James B., 3,760,311.

Bain, Joe K.: *See—*
Sanz, Manuel C.; Sturgis, Byron E.; Lawson, Charles V.; and Bain, Joe K., 3,768,526.

Bain, Joe K., to Micromedic Systems, Inc. Test tube tray feed mechanism. 3,765,255, 10-16-73, Cl. 74-89.220.

Bain, Larry M.: *See—*
Aichenegg, Paul C.; and Bain, Larry M., 3,769,340.

Bainard, Dean R.: *See—*
Berens, Alfred S.; Bainard, Dean R.; and Corsi, George L., 3,743,305.

Bainbridge, Cecil, to Rohr Industries, Inc. Suspension mechanism for sliding doors. 3,727,349, 4-17-73, Cl. 49-411.000.

Bainbridge, John Graham: *See—*
Mehta, Minoo Dossabhoy; and Bainbridge, John Graham, 3,746,743.

Bainbridge, Robert, to Ionarc Smelters Ltd. Chemical process in high enthalpy thermal environment and apparatus therefor. 3,708,409, 1-2-73, Cl. 204-164.000.

Bainbridge, Wilfred Nicholas, to Automotive Products Company Limited. Telescopic position adjusting devices. 3,739,885, 6-19-73, Cl. 188-300.000.

Bainton, Byron L. Swallow-tail fish lure. 3,762,088, 10-2-73, Cl. 43-42.500.

Bair, Eugene C., to General Electric Company. Methods for manufacturing slotted core structures. 3,762,041, 10-2-73, Cl. 29-596.000.

Bair, Eugene C., to Tokai Cold Forming Co., Ltd. Methods for manufacturing slotted core structures. 3,762,042, 10-2-73, Cl. 29-596.000.

Bair, Eugene C., to General Electric Company. Apparatus and methods for handling strip material. 3,762,198, 10-2-73, Cl. 72-28.000.

Bair, Lester E., to Fairshare Marketing & Manufacturing Co., Inc. Heat sealer. 3,731,054, 5-1-73, Cl. 219-243.000.

Bair, Scott S., to Development Company of America. Prefabricated wall panel. 3,775,916, 12-4-73, Cl. 52-125.000.

Bair, Thomas G.: *See—*
McNamara, Joseph P.; and Bair, Thomas G., 3,721,966.

Baird, Albert W., III: *See—*
Lustig, Claude D.; and Baird, Albert W., III, 3,753,041.
Lustig, Claude D.; and Baird, Albert W., III, 3,781,587.

Baird, David M., to General Motors Corporation. Ceramic integrated circuit convector assembly. 3,766,440, 10-16-73, Cl. 317-100.000.

Baird, Robert J.; and Everett, Thomas G., Jr., to Union Carbide Corporation. Reusable mandrel for structures having zero draft or re-entrant geometries. 3,717,914, 2-27-73, Cl. 29-195.000.

Baird, Roy W.: *See—*
Hyland, William P.; Baird, Roy W.; and Culbertson, James A., 3,712,680.

Baird, William C., Jr.; and Surridge, John H., to Esso Research and Engineering Company. Method of forming dicyano compounds. 3,709,921, 1-9-73, Cl. 260-465.003.

Baird-Atomic, Inc.: *See—*
Grenier, Raymond P.; and Welsh, William F., 3,717,762.
Grenier, Raymond P.; and Jacobson, Earl B., 3,777,142.
Westell, William E., 3,770,961.

Baird-Atomic, Inc., mesne: *See—*
Miles, John L., 3,709,765.

Baisch, J. Carroll: *See—*
Grossman, Milton J., 3,740,035.

Baitsholts, Albert D.; Jackobs, Nancy E.; and Timrots, Imants, to Eastman Kodak Company. Template for applying samples to a thin layer chromatographic sheet. 3,757,952, 9-11-73, Cl. 210-198.00g.

Baizer, Hans; Habermeier, Juergen; and Porret, Daniel, to Ciba-Geigy AG. Diepoxides, processes for their manufacture and use. 3,759,954, 9-18-73, Cl. 260-340.700.

Baizer, Manuel M.; and Wagenknecht, John H., to Monsanto Company. Electrolytic preparation of esters from organo halides. 3,764,492, 10-9-73, Cl. 204-59.00r.

Bajars, Laimonis: *See—*
Croce, Louis J.; Bajars, Laimonis; and Gabliks, Maigonis, 3,743,683.
Croce, Louis J.; and Bajars, Laimonis, 3,778,488.

Bajder, Herbert; and Locher, Otto, to Heimo Geratebau Gesellschaft mit beschrankter Haftung. Spraying apparatus. 3,758,036, 9-11-73, Cl. 239-102.000.

Bajek, Walter A.; and McLaughlin, James H., to Universal Oil Products Company. Control of reaction zone severity by response to octane number of effluent liquid at reaction pressure. 3,751,229, 8-7-73, Cl. 23-253.00a.

Bajek, Walter A.; and McLaughlin, James H., to Universal Oil Products Company. Combination octane number control of distillation column overhead and blending control. 3,755,087, 8-28-73, Cl. 196-100.000.

Bajek, Walter A.; and McLaughlin, James H., to Universal Oil Products Company. Splitter column overhead. 3,756,921, 9-4-73, Cl. 196-132.000.

Bajek, Walter A.; and McLaughlin, James H., to Universal Oil Products Company. Combination column reboiler heat input and octane control process. 3,761,358, 9-25-73, Cl. 196-132.000.

Bajer Industries Incorporated: *See—*
Lang, Marshall Ira, 3,742,674.

Bajgert, Teddy A.; and Schaffer, William J., to International Business Machines Corporation. Cleaning apparatus and method in a magnetic tap unit. 3,731,289, 5-1-73, Cl. 340-174.10r.

Bajoczky, Laszlo: *See—*
Szilas, A. Pal; Bognar, Janos; Mating, Bela; and Bajoczky, Laszlo, 3,732,035.

Bajtosh, Steve E.: *See—*
Shooter, Kenneth L.; Cone, Richard E.; and Bajtosh, Steve E., 3,744,614.

Bak, Harry B.: *See—*
Jackson, Richard H.; and Bak, Harry B., 3,722,102.

Bakala, Ronald L.: *See—*
Buchholz, Donald E.; Bakala, Ronald L.; Miller, Robert E.; and Pickering, Richard W., 3,725,912.

Bakamjian, Barkev Y.: *See—*
Moran, James H.; Bakamjian, Barkev Y.; and Muricchio, Thomas, 3,732,947.

Bakanov, Nikolai Gavrilovich: *See—*
Shule, Edmund Khristianovich; Kutokov, Sergei Sergeevich; Rytvin, Evgeny Isaevich; Myagchenkov, Alexei Andreevich; Khodakovsky, Mikhail Davydovich; Bakanov, Nikolai Gavrilovich; Schevchenko, Nikolai Ivanovich; and Shiman, Oleg Petrovich, 3,765,852.

Bakanowsky, Louis J., to Cambrige Seven Associates, Inc. Detachable writing surface for director's chair. 3,751,108, 8-7-73, Cl. 297-160.000.

Bakassian, Georges; and Bazouin, Andre, to Rhone-Poulenc S.A. Process for obtaining hydrogenochlorosilanes. 3,718,682, 2-27-73, Cl. 260-448.20p.

Bakassian, Georges; and Lefort, Marcel, to Rhone-Poulenc S.A. Acetylenic derivatives of zinc. 3,755,395, 8-28-73, Cl. 260-429.900.

Bakelite Xylonite Limited: *See—*
Butcher, Edward Peter, 3,715,310.

Baker, Alan Anthony: *See—*
Palfreyman, Jack; Middleton, Henry Edward; and Baker, Alan Anthony, 3,718,952.

Baker, Alan Anthony, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Blade or vane for a gas turbine engine. 3,756,746, 9-4-73, Cl. 416-230.000.

Baker, Alfred R. Harvesting apparatus. 3,713,282, 1-30-73, Cl. 56-328.00r.

Baker, Ambrose D., to Eastman Kodak Company. Automatic retrieval apparatus. 3,757,091, 9-4-73, Cl. 235-61.11e.

Baker, Arthur R.; Brant, William; and Danielson, Clarence J., to Xerox Corporation. Sorting apparatus. 3,709,492, 1-9-73, Cl. 271-64.000.

Baker, Arthur W. Fish basket support. 3,722,844, 3-27-73, Cl. 248-302.000.

Baker, Arthur Yeaton, to Datametrics Corporation. High speed impactless data printer. 3,713,168, 1-23-73, Cl. 346-74.00e.

Baker, Benjamin, (Lye) Limited: *See—*
Ashton, John Congreve, 3,780,810.

Baker, Bernard R.: *See—*
Wittrock, Henry J.; Baker, Bernard R.; and Bushey, Albert H., 3,726,721.

Baker, Bernard R.; deceased (by Baker, Reba; legal representative); and Ashton, Wallace T., to United States of America, Health, Education, and Welfare. 4,6-Diamono-1 (p-benzyloxyphenyl)-1,2-dihydro-2,2-dimethyl-s-triazines. 3,776,909, 12-4-73, Cl. 260-249900.

Baker, Bernard S.: *See—*
Borucka, Alina Z.; Marianowski, Leonard G.; and Baker, Bernard S., 3,723,186.

Baker, Broughton L.: *See—*
Wu, James S. H.; and Baker, Broughton L., 3,718,583.

Baker, Calvert W. Leash for an animal. 3,752,127, 8-14-73, Cl. 119-109.000.

Baker, Charles: *See—*
Chapman, James R.; Baker, Charles; and Gentry, Hermond G., 3,712,464.

Baker, Charles E., to Texas Instruments, Incorporated. Information display method and system. 3,721,756, 3-20-73, Cl. 178-6.000.

Baker, Charles H.; and Scherer, Henry W., to S & C Electric Company. Open type fuse. 3,711,809, 1-16-73, Cl. 337-190.000.

Baker, Charles L.: *See—*
Fournier, Gerald R.; and Baker, Charles L., 3,762,791.

Baker, Cole H., to Intec Corporation. Flaw detector system utilizing a laser scanner. 3,781,531, 12-25-73, Cl. 235-151.300.

Baker, Colin J.; Preen, Raymond C.; and Wilson, Donald W., to Email Limited. Lid latch for washing apparatus. 3,716,122, 2-13-73, Cl. 192-136.000.

Baker, Colin J., to Email Limited. Lid latch off-balance switch. 3,736,772, 6-5-73, Cl. 68-12.00r.

Baker, Crispin Stuart Leworthy; Barnard, Douglas; and Porter, Maurice Read, to Natural Rubber Producers' Research Association, The. Diurethanes and triurethanes for crosslinking natural and synthetic rubber. 3,775,441, 11-27-73, Cl. 260-390.000.

Baker, Dale A.; and McCarthy, John M., to Cutler-Hammer, Inc. Tape controlled order picking system. 3,777,910, 12-11-73, Cl. 214-16.00b.

Baker, Don R.: *See—*
Gutman, Arnold D.; and Baker, Don R., 3,708,590.
Gutman, Arnold D.; and Baker, Don R., 3,732,306.
Gutman, Arnold D.; and Baker, Don R., 3,771,995.
Mihailoviski, Alexander; and Baker, Don R., 3,781,326.
Mihailovski, Alexander; and Baker, Don R., 3,767,734.

Baker, Don R., to Stauffer Chemical Company. Method for controlling algae. 3,711,271, 1-16-73, Cl. 71-67.000.

Baker, Don R., to Stauffer Chemical Company. Method of controlling bacteria with trichloroacrylonitrile. 3,711,603, 1-16-73, Cl. 424-304.000.

Baker, Don R.; and Teach, Eugene G., to Stauffer Chemical Company. Carbonates of 3'- and 4'-hydroxybromoacetanilides. 3,714,219, 1-30-73, Cl. 260-463.000.

Baker, Don R.; Tilles, Harry; and Dewald, Chester L., to Stauffer Chemical Company. Method of combatting weeds with α-naphthoxy acetamides. 3,718,455, 2-27-73, Cl. 71-118.000.

Baker, Don R., to Stauffer Chemical Company. Fungicidal and bactericidal compositions and method of killing bacteria and fungi using substituted bis (bromoacetoxy) xylenes. 3,723,626, 3-27-73, Cl. 424-311.000.

Baker, Don R., to Stauffer Chemical Company. Certain N-benzoyl-1,2,5,6-tetrahydropyridines. 3,749,730, 7-31-73, Cl. 260-297.00r.

Baker, Don R., to Stauffer Chemical Company. Method of controlling algae with trichloroacrylonitrile. 3,764,291, 10-9-73, Cl. 71-67.000.

Baker, Don R.; Menn, Julius J.; and Freiberg, Ashley H., to Stauffer Chemical Company. Inhibiting fungal growth with 2-benzimidazole alkyl carbamates. 3,764,687, 10-9-73, Cl. 424-273.000.

Baker, Don R., to Stauffer Chemical Company. α,α'-Bis(bromocyanoacetoxy)-xylenes. 3,772,387, 11-13-73, Cl. 260-465.00d.

Baker, Don R.; and Teach, Eugene G., to Stauffer Chemical Company. Bromoacetanilides useful as biocides. 3,781,442, 12-25-73, Cl. 424-324.000.

Baker, Don Robert, to Stauffer Chemical Company. 2,2,3,4,5,5-Hexachloro-2,5-dihydrothiophene 1,1 dioxide used to control bacteria and fungi. 3,764,689, 10-9-73, Cl. 424-275.000.

Baker, Donal E., to Westinghouse Electric Corporation. D.C. static switch including means to suppress transient spikes between a drive source and the switch element. 3,710,231, 1-9-73, Cl. 323-9.000.

Baker, Donald Brooks, to Bird Machine Company, Inc. Cleaning apparatus for materials moving in endless path. 3,739,605, 6-19-73, Cl. 68-20.000.

Baker, Donald Brooks, to Bird Machine Company, Inc. Spray apparatus. 3,753,529, 8-21-73, Cl. 239-110.000.

Baker, Donald C.; and Yessayan, Krikor, to Case, J. I., Company. Support means for cylinder conduits. 3,727,699, 4-17-73, Cl. 172-809.000.

Baker, Donald E.: *See—*
Shuey, Kenneth C.; and Baker, Donald E., 3,781,572.

Baker, Donald J., to Bendix Corporation, The. Collapsible steering column assembly. 3,741,032, 6-26-73, Cl. 74-492.000.

Baker, Donald J.; Gartner, Stanley J.; and Oberg, Robert S., to Sylvania Electric Products, Inc. Printed circuit board with through connection and method and machine for making the through connection. 3,750,278, 8-7-73, Cl. 29-628.000.

Baker Drapery Corporation: *See—*
Baker, George H., Sr., 3,738,414.

Baker, Earl W. Portable pipe thawer. 3,767,117, 10-23-73, Cl. 239-136.000.

Baker, Edward A., Jr.; and Fabb, Rowland A., to Palmer-Shile Company. High density mobile storage system. 3,762,335, 10-2-73, Cl. 140-173.000.

Baker, Elina: *See—*
Baker, Victor E., 3,763,772.

Baker, Elizabeth, F.: *See—*
Baker, Richard E.; and Baker, Elizabeth, F., 3,781,007.

Baker Equipment Engineering Co., Inc.: *See—*
Mills, Francis Duncan, 3,759,485.

Baker, Ethelbert J., Jr.: *See—*





Mallow, William A.; Owen, Richard A.; and Baker, Ethelbert J., Jr., 3,741,898.

Baker, Eugene E., to Halliburton Company. Cementing tool. 3,768,556, 10-30-73, Cl. 166-154.000.

Baker, Eugene E., to Halliburton Company. Full opening multiple stage cementing tool and methods of use. 3,768,562, 10-30-73, Cl. 166-289.000.

Baker, Floyd A.; and Sitler, Wayne R., to International Business Machines Corporation. Single select line storage system address check. 3,727,039, 4-10-73, Cl. 235-153.0am.

Baker, Frank George Morley, to Prodorite Limited. Tanks for the continuous treatment of elongated metal workpieces. 3,776,414, 12-4-73, Cl. 220-71.000.

Baker, Fred E., to General Electric Company. Electrically heated hair curling apparatus. 3,735,091, 5-22-73, Cl. 219-400.000.

Baker, Freling E.: *See—*
Webb, Wells A., 3,763,792.

Baker, Gary, 1/3 each to Patton, Don A. and Brauer, James S. Fourway dental syringe. 3,727,310, 4-17-73, Cl. 32-22.000.

Baker, George Edward March: *See—*
Wing, Willis Guy; Baker, George Edward March; and Smith, Rodney Frank, 3,732,479.

Baker, George H., to Air Products and Chemicals, Inc. Acetylene generating system. 3,743,487, 7-3-73, Cl. 48-57.000.

Baker, George H., Sr., to Baker Drapery Corporation. Hook pleat drapery system. 3,738,414, 6-12-73, Cl. 160-345.000.

Baker, Harold L., to Morrison Products, Inc. Method for assembling centrifugal blowers. 3,711,914, 1-23-73, Cl. 29-156.8cf.

Baker, Harold L., to Rayette-Faberge, Inc. Apparatus for screen molding three-dimensional objects. 3,751,204, 8-7-73, Cl. 425-127.000.

Baker, Harvey O.; and Hoff, Johan E., to Eckrich, Peter, & Sons, Inc. Smoking of food products. 3,763,767, 10-9-73, Cl. 99-476.000.

Baker, Henry Louis; Quinton, Kenneth Charles; and Smart, Daniel Henry, to Communications Patents Limited. Television demodulator with short and long time constants. 3,735,037, 5-22-73, Cl. 178-7.30r.

Baker, Herbert; Rathje, David S.; and Butek, William T., Jr., to Solatron Enterprises. Apparatus and method for modifying wound wire devices. 3,761,672, 9-25-73, Cl. 219-68.000.

Baker, Hugh M., Jr., to HB Engineering Corporation. Resonator having counter rotating rigid parts. 3,714,475, 1-30-73, Cl. 310-8.250.

Baker, Hugh M., Jr.; and Genter, Roland E., to H B Engineering Corporation. Data retrieval means having multiple position switches. 3,742,454, 6-26-73, Cl. 340-151.00r.

Baker, Hugh William Barnes, to Gillette Company, The. Device for the storage, mixing and dispensing of ingredients. 3,731,844, 5-8-73, Cl. 222-83.000.

Baker Hydro, Inc.: *See—*
Johnson, Charles S., 3,779,667.

Baker, J. E., Company, The: *See—*
McFadgen, Robert N., 3,763,085.

Baker, J. T., Chemical Company: *See—*
Michelotti, Francis W.; Jordan, John M.; and Cook, Neville P., 3,728,400.

Baker, James G., to Polaroid Corporation. Reflex camera and viewer with a folded optical path. 3,760,704, 9-25-73, Cl. 95-42.000.

Baker, James G., to Polaroid Corporation. Compact three component objective lenses. 3,762,801, 10-2-73, Cl. 350-189.000.

Baker, James N.; Bird, Richard A.; and Bush, Glenn W., to National Steel Corporation. Process for preparing chromized ferrous metal sheet material and the resultant articles. 3,775,151, 11-27-73, Cl. 117-33.000.

Baker, Jesse Lee, to American Cyanamid Company. Isolation of prostaglandins from plexaura homamalla. 3,778,469, 12-11-73, Cl. 260-499.000.

Baker, John G.; and Yerty, Oliver M., to PPG Industries, Inc. Stabilized unsaturated polyesters with 2,4-dimiorophenol as stabilizer. 3,775,513, 11-27-73, Cl. 260-864.000.

Baker, John Gordon, to Baker Manufacturing Company. Pitless well adapter. 3,722,586, 3-27-73, Cl. 166-85.000.

Baker, John H., to Schlumberger Technology Corporation. Including control means for controlling the signal resolution and the speed of response of the signal indicating means. 3,750,009, 7-31-73, Cl. 324-1.000.

Baker, John Kenneth: *See—*
Jarr, Klaus D.; Baker, John Kenneth; and Ufford, David B., 3,762,550.

Baker, John R.; Bonin, Richard E.; and Smith, William S., to Morris, Philip, Incorporated. Blade holder and dispenser. 3,774,805, 11-27-73, Cl. 221-67.000.

Baker, John R.; and Williams, Edward G., to Xerox Corporation. Method for manufacturing a tetrafluoroethylene polymer-coated roll. 3,776,760, 12-4-73, Cl. 117-72.000.

Baker, Joseph R., to Diagnostic Instruments, Inc. Programmable power supply controlled by changes in load current. 3,775,669, 11-27-73, Cl. 323-4.000.

Baker, Joseph W.: *See—*
Howe, Robert K.; and Baker, Joseph W., 3,726,662.

Baker, Joseph W.; and Schumacher, Ignatius, to Monsanto Company. Dinitrophenoxymethyl amines. 3,719,675, 3-6-73, Cl. 260-247.70c.

Baker, Joseph W.; and Schumacher, Ignatius, to Monsanto Company. N-Pentachlorophenoxy-methyl-n-hydrocarbon-amines. 3,729,511, 4-24-73, Cl. 260-570.700.

Baker, Joseph W.; and Schumacher, Ignatius, to Monsanto Company. Preparation of esters of phosphorus acids. 3,751,529, 8-7-73, Cl. 260-973.000.

Baker, Joseph W.; and Schumacher, Ignatius, to Monsanto Company. Preparation of esters of phosphorus acids. 3,772,414, 11-13-73, Cl. 260-973.000.

Baker, Joseph W.; and Schumacher, Ignatius, to Monsanto Company. Preparation of exters of phosphorus acids. 3,773,866, 11-20-73, Cl. 260-973.000.

Baker, Kenneth A.: *See—*
Lindquist, Steven M.; Baker, Kenneth A.; Harris, Elmer E.; and Wineberg, Kenneth W., 3,765,142.

Baker, Kenneth D., to Engelhard Minerals & Chemicals Corporation. Gold plating electrolyte. 3,776,821, 12-4-73, Cl. 204-43.00g.

Baker, Kenneth D., to Engelhard Minerals & Chemicals Corporation. Gold plating electrolyte. 3,776,822, 12-4-73, Cl. 204-46.000.

Baker, Kenneth L.; Shipley, Arthur G.; Plenge, Richard D.; and Anderson, Henry, Jr., to United States of America, Navy. Water-armed, air-safetied detonator. 3,765,332, 10-16-73, Cl. 102-16.000.

Baker, Lamar T.: *See—*
Paivinen, John O.; Rubinstein, Richard B.; Cohen, Leo; and Baker, Lamar T., 3,765,003.

Baker, Lamar T., to General Instrument Corporation, mesne. MOS amplifier utilizing parasitic conduction state operation. 3,736,521, 5-29-73, Cl. 330-35.000.

Baker, Lawrence Dee; and Bamber, George E. Portable display stand. 3,766,864, 10-23-73, Cl. 108-111.000.

Baker, Leroy D., to Diamond International Corporation. Package capping apparatus. 3,780,493, 12-25-73, Cl. 53-287.000.

Baker Manufacturing Company: *See—*
Baker, John Gordon, 3,722,586.

Baker, Marion A. Golf ball. 3,753,565, 8-21-73, Cl. 273-213.000.

Baker, Martin L.; and Eufusia, Eugene A., to Optical Coating Laboratory, Inc. Method of monitoring the rate of depositing a coating solely by its optical properties. 3,773,548, 11-20-73, Cl. 117-106.00r.

Baker, Maurice William; Crowley, Jennifer; Watkins, Thomas Iswel; and Clark, Nigel George, to Boots Pure Drug Company Limited. Carbamoylbenzotriazole anthelmintics. 3,732,238, 5-8-73, Cl. 260-308.00b.

Baker, Michael E.: *See—*
Duclo, Marley J.; and Baker, Michael E., 3,776,354.

Baker, Myron Lewis; and Myers, Lewis William, to Coastal Dynamics Corporation. Uniform illumination with edge lighting. 3,752,974, 8-14-73, Cl. 240-1.0el.

Baker, Noel John, to Witton-James Limited. Paster tabs. 3,724,033, 4-3-73, Cl. 24-67.0ar.

Baker, Noel John, to Witton-James Limited. Web-transisioning apparatus. 3,737,115, 6-5-73, Cl. 242-75.100.

Baker, Norman: *See—*
Erlichman, Stanton Roy; Woolf, Harold; and Baker, Norman, 3,747,190.

Baker Oil Tools, Inc.: *See—*
Berryman, William O., 3,735,827.
Berryman, William O., 3,735,828.
Chenoweth, David V., 3,735,774.
Crowe, Talmadge L., 3,771,603.
Curington, Alfred R., 3,709,306.
Curington, Alfred R., 3,712,388.
Curington, Alfred R., 3,735,820.
Kammerer, Archer W., Jr.; and Johnson, Gary R., 3,753,471.
Leutwyler, Kurt, 3,741,249.

Baker, Paul E.: *See—*
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Baker Perkins Inc.: *See—*
Elson, Ronald D.; Krenke, Norman O.; and Ingram, Charles E., 3,779,363.
Gendron, Roger J.; and Skarin, Carl Richard, 3,757,926.
Ingram, Charles E.; and Elson, Ronald D., 3,739,902.
Ingram, Charles E., 3,756,370.
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Loomans, Bernard A., 3,779,522.
Luther, Gerald J., 3,757,925.

Baker Perkins Limited: *See—*
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Edwards, Albert, 3,779,520.
Miarkowaki, Dzeslaw; and Smith, Edward Leslie, 3,739,721.
Steels, Gordon; and Graham, Stanley, 3,770,358.

Baker, Peter James, to M. S. E. Holdings Limited. Centrifuge. 3,765,601, 10-16-73, Cl. 233-28.000.

Baker, Philip D., to General Electric Company. Liquid spray device. 3,776,465, 12-4-73, Cl. 239-251.000.

Baker, Philip G.: *See—*
Aimo, Karl H.; and Baker, Philip G., 3,759,153.

Baker, Philip G., to Polaroid Corporation. Photographic lighting unit. 3,728,536, 4-17-73, Cl. 240-1.300.

Baker, Philip G.; Bennett, Stewart; and Young, Richard W., to Polaroid Corporation. Projector apparatus. 3,740,127, 6-19-73, Cl. 352-72.000.

Baker, Philip G.; and Holmes, William C., to Polaroid Corporation. Unique prismatic element and mounting arrangement therefor. 3,767,293, 10-23-73, Cl. 352-78.00r.

Baker, Philip G.; Cook, Gerald H.; and Downey, Rogers B., to Polaroid Corporation. System for rupturing pod containing processing fluid for photographic material. 3,776,425, 12-4-73, Cl. 222-101.000.

Baker, Ralph F., to Rohr Industries, Inc. Quick release, toggle latching, spring clip for hold-open prop. 3,739,435, 6-19-73, Cl. 24-257.00r.

Baker, Ralph W.; McCarthy, John H.; Place, Harold G.; and Wikman, Andrew O., to Ethyl Corporation. Manufacture of halohydrocarbons. 3,709,950, 1-9-73, Cl. 260-659.00a.

Baker, Raymond N. Mechanized collection of solid waste material. 3,709,360, 1-9-73, Cl. 209-215.000.

Baker, Reba: *See—*
Baker, Bernard R.; and Ashton, Wallace T., 3,776,909.

Baker, Richard D.; Hayter, Sidney W.; and Lewis, Homer D., to United States of America, Atomic Energy Commission. Method for producing $UO_2$ loaded refractory metals. 3,778,380, 12-11-73, Cl. 252-301.10r.

Baker, Richard E.; and Baker, Elizabeth, F. Sectional, folding, combination dumbell-bar bell. 3,781,007, 12-25-73, Cl. 272-84.000.

Baker, Richard H., to Massachusetts Institute of Technology. Light-triggered electric power source. 3,748,492, 7-24-73, Cl. 307-117.000.

Baker, Richard L., to Colt Industries Operating Corporation, mesne. Revolver having removable cylinder. 3,711,982, 1-23-73, Cl. 42-62.000.

Baker, Richard L., to Colt Industries, Operating Corporation. Shell extractor for firearm with falling breechblock. 3,733,729, 5-22-73, Cl. 42-23.000.

Baker, Richard L., to Colt Industries, Operating Corporation. By-pass hand connection. 3,733,730, 5-22-73, Cl. 42-65.000.

Baker, Richard L., to Colt Industries Operating Corporation. Safety mechanism having cocked indicator. 3,747,251, 7-24-73, Cl. 42-70.00d.

Baker, Robert A.; and Bruemmer, Joseph H., to United States of America, Agriculture. Protease and pectinaise additive to citrus juices. 3,754,932, 8-28-73, Cl. 99-106.000.

Baker, Robert C. Racket. 3,776,644, 12-4-73, Cl. 401-7.000.

Baker, Robert F.; and Weaver, Ebon P., to Uniroyal, Inc. Method for extrusion of cellular core integral-skin plastics. 3,773,877, 11-20-73, Cl. 264-48.000.

Baker, Robert G.: *See—*
Schulze, Erwin F. C.; and Baker, Robert G., 3,709,480.

Baker, Robert L.; and Szlosberg, Edward, to Phillips Fibers Corporation. Process for antistatically treating articles. 3,716,393, 2-13-73, Cl. 117-47.00r.

Baker, Roger E.: *See—*
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Baker, Roy L. Gun holster. 3,731,858, 5-8-73, Cl. 224-2.00b.

Baker, Silveus M.: *See—*
Moore, Wesley D.; and Baker, Silveus M., 3,714,479.

Baker, Stuart J.: *See—*
Huffman, Russell B.; Baker, Stuart J.; Grosslight, Donald P.; and Pace, Aldren M., 3,711,750.

Baker, Terry M.; Huthsing, Henry W.; Kieding, Robert B.; and Reddan, Edwin D., to Rolair Systems, Inc. Automatic conveyor system for buildings and the like. 3,757,931, 9-11-73, Cl. 198-219.000.

Baker, Theodore C., to Owens-Illinois, Inc. Method of strengthening glass. 3,741,739, 6-26-73, Cl. 65-30.000.

Baker, Theodore C.; Bode, Wolfgang W.; Mathias, Richard G.; Nolan, James F.; and Pfaender, Lawrence V., to Owens-Illinois, Inc. Manufacture and operation of gas discharge panel. 3,746,420, 7-17-73, Cl. 316-20.000.

Baker, Theodore H.; Ghafghaichi, Majid; Stevens, Richard C.; and Tuman, Daniel, to International Business Machines Corporation. Method of testing for the operability of integrated semiconductor circuits having a plurality of separable circuits. 3,762,037, 0-2-73, Cl. 29-574.000.

Baker, Thoedore H.; Ghafghaichi, Majid; and Totta, Paul A., to International Business Machines Corporation. Semiconductor integrated circuit chip structure protected against impact damage from other chips during chip handling. 3,781,609, 12-25-73, Cl. 317-01.00a.

Baker, Victor E., to Baker, Elina. Multiple-pass crushing device. 3,763,772, 10-9-73, Cl. 100-218.000.

Baker, Wallace L. Cow controlling method. 3,766,890, 10-23-73, Cl. 119-96.000.

Baker, Walter L.: *See—*
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Baker, William Albert; Barker, Anthony Sydney Charles; Holden, John James Edmund; and Winterburn, Stanley Pilkington, to Alcan Research and Development Limited. Flattening mill. 3,724,252, 4-3-73, Cl. 72-241.000.

Baker, William H. Box beam structures and connections for beam-supported structures. 3,774,366, 11-27-73, Cl. 52-664.000.

Baker, William J., to Armco Steel Corporation. Ball valve. 3,778,029, 12-11-73, Cl. 251-315.000.

Baker, William R.: *See—*
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Baker-Ross Inc.: *See—*
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Bakerich, Frank; and Scully, Robert T., to Aquarius Electronics. Electroencephalophone and feedback system. 3,753,433, 8-14-73, Cl. 128-2.10b.

Bakes, Stanley Eugene, to Du Pont de Nemours, E. I., and Company. Delamination of mica by molten salts. 3,770,651, 11-6-73, Cl. 252-378.00r.

Bakewell, Sidney. Dough mixing machine. 3,722,834, 3-27-73, Cl. 259-105.000.

Bakharev, Andrei Nikolaevich: *See—*
Fedjukin, Dmitry Lvovich; Sergeeva, Ljudmila Semenovna; Bakharev, Andrei Nikolaevich; Korochkin, Petr Evmenovich; Aronov, Anatoly Izrailevich; Gorlina, Inna Leonidovna; Kravets, Arkady Timofeevich; Goloskov, Emmanuil Isaakovich; Annenberg, Ernest Alexandroich; Fedotova, Svetlana Evgenievna; and Bezverkhny, Grigory, 3,747,281.

Baki, Amos, to Litton Systems, Inc. Ship for transporting slurry ore, coal and oil. 3,766,875, 10-23-73, Cl. 114-73.000.

Bakken, Ronald J. High fidelity audio amplifier. 3,764,930, 10-9-73, Cl. 330-16.000.

Bakker Development Corporation: *See—*
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Bakker, Donavon L. Conveyor with selective intermediate dropout. 3,774,751, 11-27-73, Cl. 198-169.000.

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Kaufhold, Norbert; Konig, Klaus; Keller, Heinrich; De Graaf, Jan G.; Blankenzee, Johan; Bakker, Hans; and Plettenburg, Carolus, 3,727,862.

Bakker, Lubertus, to Bakker Development Corporation. Process for metal recovery. 3,748,123, 7-24-73, Cl. 75-97.000.

Bakker, Lubertus; and Krumm, Eugene D., to Air Preheater Company, Inc., The. Liquid incinerator. 3,749,029, 7-31-73, Cl. 110-7.00r.

Bakker, Lubertus, 1/2 to Meyers, Joseph P. Actinide compounds with ammonia or CO and H. 3,775,533, 11-27-73, Cl. 423-253.000.

Bakker, Martin B.: *See—*
Harlow, Justin E., III; Swann, Richard C. G.; Penton, Jack I.; and Bakker, Martin B., 3,761,327.

Bakker, Roelof Johan, to AMP Incorporated. Diagnostic connector. 3,731,257, 5-1-73, Cl. 339-44.00m.

Bakker, Wate T., to General Refractories Company. Plastic alumina-silica refractory. 3,751,274, 8-7-73, Cl. 106-68.000.

Bakker, Willem F., to Metex Corporation. Shielding and gasketing material. 3,752,899, 8-14-73, Cl. 174-35.0gc.

Bakkerus, Hermanus, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid, Handel en Verkeer. Pipe fitting. 3,718,351, 2-27-73, Cl. 285-236.000.

Baklien, Asbjorn; and Gregory, Jocelyn Margaret, to Imperial Chemical Industries of Australia and New Zealand, Limited. Process for controlling fungi. 3,773,945, 11-20-73, Cl. 424-301.000.

Bakly, Peter K.; and McCulloch, Alistair, to Graviner (Colnbrook) Limited. Pressure-responsive apparatus. 3,747,557, 7-24-73, Cl. 116-70.000.

Bako, Lazlo, to Presto Lock Co.; division of Kidde, Walter, & Company, Inc. Combination lock. 3,736,778, 6-5-73, Cl. 70-70.000.

Bakoledis, Andrew G., to USM Corporation. Sound muffler for explosive devices. 3,743,048, 7-3-73, Cl. 181-53.000.

Bakos, Peter, to International Business Machines Corporation. Electrophoretic photoresist composition and a method of forming etch resistant masks. 3,738,835, 6-12-73, Cl. 96-36.000.

Bakul, Valentin Nikolaevich: *See—*
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Vereschagin, Leonid Fedorovich; Bakul, Valentin Nikolaevich; Semerchan, Aik Akopovich; Prikhna, Alexei Iosifovich; Popov, Vladimir Vasilievich; Ryabinin, Jury Nikolaevich; Livshits, Leopold Davydovich; Arkhipov, Robert Georgievich; Dslesarev, Vladislav, Niolaevich; Galaktionov, Vasily Andrecvich; and Scmyashkevich, Boris Pavlovich, 3,746,484.

Bakul, Valentin Nikolaevich; Prikhna, Alexei Iosifovich; and Shulzhenko, Alexandr Alexandrovich. High-pressure and high-temperature device. 3,732,043, 5-8-73, Cl. 425-77.000.

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Paton, Boris Evgenievich; Tseltkov, Alexandr Ivanovich; Lakomsky, Viktor Iosifovich; Grigorenko, Georgy Mikhailovich; Zabarilo, Oleg Semenovich; Melnik, Gary Alexandrovich; Ponomarev, Nikolai Alexeevich; Verkhovtsev, Emily Vladimirovich; and Bakumenko, Serei Panteleevich, 3,723,630.

Bala, John L.; and Ford, Peter W., to Itek Corporation. Tool monitoring apparatus. 3,747,085, 7-17-73, Cl. 340-267.00r.

Balabaev, Georgy Matveevich; Boiko, Viktor Sergeevich; Malchenko, Viktor Matveevich; Misarenko, Stepan Nikolaevich; Tsitrin, Luvish Avrum-Abovich; Borzenko, Evgeny Ivanovich; and Golovko, Georgy Anatolievich. Method of air separation into oxygen and argon.3,751,933, 8-14-73, Cl. 62-29.000.

Balabin, Evgeny Evgenievich: *See—*
Kasulin, Vyacheslav Sergeevich; Bobrov, Boris Sergeevich; Super-Fainshtein, Naum Aronovich; Balabin, Evgeny Evgenievich; Egorov, Anatoly Maximovich; and Makarov, Leonid Viktorovich, 3,775,339.

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Baladjanian, Gregor: *See—*
Commanday, Maurice R.; Clark, Eugene V.; and Baladjanian, Gregor, 3,711,909.

Balaev, Oleg Gavrilovich; Ediny, Jury Grigorievich; and Korol, Nikolai Akimovich. Instrument for crushing stones in urinary bladder. 3,735,764, 5-29-73, Cl. 128-328.000.

Balaguer, Rodolfo R. Removable top with a heating element for a vacuum insulated bottle. 3,757,085, 9-4-73, Cl. 219-523.000.

Balamuth, Lewis; and Karatjas, Manuel, to Ultrasonic Systems, Inc. Ultrasonic electric shaver. 3,756,105, 9-4-73, Cl. 83-14.000.

Balamuth, Lewis; Koris, Arthur; and Farina, Anthony P., to Ultrasonic Systems, Inc. Ultrasonic instructional kit, method and apparatus. 3,774,317, 11-27-73, Cl. 35-19.00r.

Balanos, Constantin, to Volkswagenwerk Aktiengesellschaft. Door arrangement for vehicles. 3,758,990, 9-18-73, Cl. 49-153.000.

Balassa, Leslie L., to Balchem Corporation. Herbicidal compositions and methods of preparing them. 3,725,031, 4-3-73, Cl. 71-105.000.

Balassa, Leslie L., to Balchem Corporation. Pesticidal phosphorothioate compositions and methods of preparing them. 3,761,589, 9-25-73, Cl. 424-200.000.

Balassa, Leslie L., to Lescarden Ltd. Cartilage compositions for dental use. 3,772,432, 11-13-73, Cl. 424-95.000.

Balassa, Leslie L., to Balchem Corporation. Encapsulation process. 3,780,195, 12-18-73, Cl. 99-140.00r.

Balasubramaniam, Dhanikodi: *See—*
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Johnstone, Robert F.; and Balasubramanian, Kodandraman, 3,770,016.

Balbach, Guenter; and Reinert, Guenther, to Bohme, Dr. Th., KG. Chem. Fabrik. Use of sulfonamide derivatives having oxygen-containing end groups as modifying agents and/or pigment grinding agents for the manufacture of molded polyurethane articles and polyrethane varnishes. 3,748,296, 7-24-73, Cl. 260-308.00r.

Balbatun, Jan; and Makarewicz, Antoni. Method of production of multisectional filament coils and control system of a coiling machine operating according to this method. 3,724,190, 4-3-73, Cl. 57-18.000.

Balcarczyk, Leopold, to Osterreichische Studiengesellschaft fur Atomenergie Ges. m.b.H. Rocket with thermal control for influencing the weather. 3,750,576, 8-7-73, Cl. 102-70.260.

Balch, Alfred H., to Marathon Oil Company. Color sonagrams and method for their production. 3,781,785, 12-25-73, Cl. 340-15.5ds.

Balch, David T., to United Aircraft Corporation. Helicopter blade. 3,728,045, 4-17-73, Cl. 416-223.000.

Balchem Corporation: *See—*
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Balchunas, Anthony J.: *See—*
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Miller, Robert E., Jr.; and Balchunas, Anthony J., 3,722,565.

Balchunas, Anthony J., to Miller, Robert E., & Co., Inc. Indexing furniture glide. 3,742,552, 7-3-73, Cl. 16-42.000.

Balchunas, Charles A., to General Electric Company. Wall plug-in time switch. 3,754,107, 8-21-73, Cl. 200-38.00a.

Balco, Inc.: *See—*
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Balzer, Claude P.; Reiff, Almer A.; and Corman, Edward M., 3,759,000.

Balda Werke Photographische Gerate und Kunststoff R. Gruter Kommanditgesellschaft: *See—*
Lange, Karl Heinz, 3,712,196.
Lange, Karl Heinz, 3,777,639.
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Langewiesche, Wilhelm; and Lange, Karl Heinz, 3,709,120.

Balda-Werke: *See—*
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Lange, Karl-Heinz, 3,728,950.
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Balde, Daniel: *See—*
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Balde, John William, to Western Electric Company, Incorporated. Electrically conductive flat cable structures. 3,764,727, 10-9-73, Cl. 174-34.000.

Balderson, Inc.: *See—*
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Baldini, Walter. Method of manufacturing garment collars or lapels. 3,725,954, 4-10-73, Cl. 2-143.000.

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Baldt, Alfonso L., to Alloy Surfaces Co., Inc. Formation of diffusion coatings on nickel containing dispersed thoria. 3,764,371, 10-9-73, Cl. 117-71.00m.

Baldt Corporation: *See—*
Linnenbank, Charles D., 3,774,569.

Balducci, Agostino: *See—*
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Balducci, Walter O., to Emhart Corporation. Latch assembly. 3,776,582, 12-4-73, Cl. 292-92.000.

Baldwin, Brian E.: *See—*
Tischlinger, Edward A.; and Baldwin, Brian E., 3,729,032.

Baldwin, Brian E., to MPL Inc. Liquid dispenser and flanger and method and apparatus for filling same. 3,729,031, 4-24-73, Cl. 141-2.000.

Baldwin, Charles R.: *See—*
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Baldwin, Douglas S.; Benton, Kenneth E.; and Jacques, Vincent L., to International Business Machines Corporation. Cassette player. 3,781,017, 12-25-73, Cl. 274-4.00c.

Baldwin, Francis P.: *See—*
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Baldwin, Francis Paul; Sartori, Guido; and Lefeevre, Jean, to Esso Research and Engineering Company. Vulcanizable olefin copolymers and process for their preparation. 3,745,143, 7-10-73, Cl. 260-41.50e.

Baldwin, Hazel: *See—*
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Baldwin, J. A., Manufacturing Company: *See—*
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Baldwin, Jack A.: *See—*
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Baldwin, Jesse A., to Baldwin, J. A., Manufacturing Company. Disposable spin-on type oil filters. 3,774,764, 11-27-73, Cl. 210-130.000.

Baldwin, Jewell S.; and Baldwin, Hazel. Saw carriage apparatus. 3,707,997, 1-2-73, Cl. 83-483.000.

Baldwin, John Lewis Edwin, to Independent Television Authority. Television systems. 3,742,135, 6-26-73, Cl. 178-6.800.

Baldwin, Keith M., to Michigan Technological University, Board of Control of. Electrolytic electrical field mapping device. 3,764,900, 10-9-73, Cl. 324-71.00r.

Baldwin, Kenneth B.: *See—*
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Baldwin, Kenneth B.; and Sullivan, Ronald D., to Bourns, Inc. Single-turn potentiometer. 3,760,324, 9-18-73, Cl. 338-174.000.

Baldwin, Mart G.; and Reed, Samuel F., Jr., to United States of America, Army. Hydroxy-terminated copolymers of butadiene and ferrocene derivatives. 3,718,633, 2-27-73, Cl. 260-82.100.

Baldwin, Mart G.; and Reed, Samuel F., Jr., to United States of America, Army. Propellant compositions with hydroxy-terminated copolymers of butadiene and ferrocene derivatives. 3,753,812, 8-21-73, Cl. 149-19.000.

Baldwin, Mart G.; and Reed, Samuel F., Jr., to Rohm & Haas Company. Propellant composition with a hydroxy-terminated copolymer-binder-catalyst of butadiene and acrylate. 3,781,178, 12-25-73, Cl. 149-19.900.

Baldwin, Peter John: *See—*
Punter, Thomas James; and Baldwin, Peter John, 3,768,209.
Baldwin, Philip Sidney, to Fiat Societa per Azioni. Valves for controlling fault indicators in vehicular hydraulic braking systems. 3,774,973, 11-27-73, Cl. 303-6.00c.
Baldwin, Philip Sidney. Master cylinders. 3,779,018, 12-18-73, Cl. 60-575.000.
Baldwin, Ralph B.: *See—*
Boboltz, Charles E.; Zwald, Frederick K.; and Baldwin, Ralph B., 3,742,565.
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Baldwin, Richard N., to A. & A. Engineering Co. Depth stop sensing device for an electrical discharge machine. 3,748,427, 7-24-73, Cl. 219-69.00s.
Baldwin, Roger A.; and Cheng, Ming T., to Kerr-McGee Corporation. Process for the nitrosation of M-cresol. 3,714,267, 1-30-73, Cl. 260-62.00n.
Baldwin, Roger A.; and Cheng, Ming T., to Kerr-McGee Corporation. Process for oxidation of 4-nitroso-m-cresol. 3,761,527, 9-25-73, Cl. 260-622.00r.
Baldwin, Samuel L.: *See—*
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Baldwin, Tony Lewis: *See—*
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Baldy, Jean; and Coville, Patrick, to U.S. Philips Corporation. Heating element having a high heating current. 3,761,859, 9-25-73, Cl. 338-238.000.
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Bales, John K. Multipurpose gas meter change valve. 3,754,573, 8-28-73, Cl. 137-608.000.
Bales, John W., Jr.; and Orphoski, Michael A., to United States Steel Corporation. Method of making rim-stabilized steel ingots. 3,754,591, 8-28-73, Cl. 164-57.000.
Bales, Joseph H.: *See—*
Buck, Gordon H.; Bales, Joseph H.; and Prodger, Brian S., 3,757,459.
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Bali, Joseph. Ticket accepting machines in particular for public transit system. 3,780,844, 12-25-73, Cl. 194-4.000.
Balicki, Stanley C. Armored cable-type lock assembly with special end fittings for the armored cable thereof. 3,765,196, 10-16-73, Cl. 70-49.000.
Balin, Jay Z., to Kendall Company, The. Surgical drape with absorptive region. 3,766,913, 10-23-73, Cl. 128-132.00d.
Balini, Andrew, to Bell & Howell Company. Frame count cuer for continuous photographic film printer. 3,716,299, 2-13-73, Cl. 355-83.000.
Balini, Andrew; and Engel, Willi G., to Bell & Howell Company. Synchronized generator for a photographic film printer. 3,765,582, 10-16-73, Cl. 226-9.000.
Balint, Francis A.; Kruger, William P.; Russell, Milton E.; and Trueb, Lucien F., to Hewlett-Packard Company. Secondary emission structure. 3,772,553, 11-13-73, Cl. 313-68.00r.
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Balitzky, Gloria J.; and Sellers, Harold. Floating light for swimming pools. 3,748,457, 7-24-73, Cl. 240-6.40f.
Balje, Otto Erich; Bouchard, Constant L.; Knowles, James; Kosacheff, Dimitri; Pulick, Emil A.; Pulick, Michael A.; and Topouzian, Armen, to Ford Motor Company. Exhaust reactor auxiliary power unit and regenerative. 3,713,294, 1-30-73, Cl. 60-303.000.
Baljet, Daniel J.; Sodderland, George A.; and Hania, John D. H., to Advanced Automated Equipment Ltd. Spring system for vibratory parts feeders. 3,757,932, 9-11-73, Cl. 198-220.0bc.
Balke, Roy Leonard; and Cipriani, Domenico, to General Electric Company. Channel, shaped, laminated, high temperature slot wedge for dynamoelectric machines. 3,735,169, 5-22-73, Cl. 310-214.000.
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Ball Brothers Research Corporation: *See—*
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Ball, Claire G.; Grimm, Arthur C.; and Melville, Thomas, to United States Steel Corporation. Reinforced composite. 3,728,211, 4-17-73, Cl. 161-170.000.
Ball Corporation: *See—*
Cook, Charles W., 3,710,937.
Dollar, David L.; and Richardson, Garland D., 3,767,478.
Hurst, Robert L., 3,712,450.
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Quinn, Richard M.; and Kwiatkowski, Jerome A., 3,762,907.
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Kerchner, Charles F., Jr.; and Ball, David A., 3,731,055.
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Ball, David C.: *See—*
Durant, Will G.; and Ball, David C., 3,715,858.
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Ball, Eric, to Dunlop Holdings Limited. Hose pipes. 3,773,088, 11-20-73, Cl. 138-129.000.
Ball, Frank J., to Westvaco Corporation. Method of making a hydrophobic fibrous product. 3,770,575, 11-6-73, Cl. 162-100.000.
Ball, Geoffrey William. Mass spectrometers. 3,757,115, 9-4-73, Cl. 250-294.000.
Ball, John D.: *See—*
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Ball, John D.: *See—*
Hoyer, Wilmer A.; Rumble, Robert C.; Britton, Donald H.; and Ball, John D., 3,777,147.
Ball, Karlheinz. Apparatus for the manufacture of punched cards. 3,750,502, 8-7-73, Cl. 83-9.000.
Ball, Lawrence: *See—*
Linfield, Robert F.; Farstad, Arnold J.; Allen, James W.; and Ball, Lawrence, 3,740,488.
Ball, Lloyd D.; Friend, Clifford K.; and Schneider, Lynn E., to Sterling Laboratories; division of Sterling Scientific Industries. Target generator. 3,718,988, 3-6-73, Cl. 35-10.400.
Ball, Malcolm James, to Imperial Chemical Industries Limited. Composite cartridge pack for hardening resins. 3,737,027, 6-5-73, Cl. 206-47.00a.
Ball, Rowland E., to Borg-Warner Corporation. Protective overspeed torque coupling. 3,779,354, 12-18-73, Cl. 192-104.000.
Ball, Russell C., Jr.; Denkowski, Walter J.; and Wadsworth, Kenneth, to Philadelphia Gear Corporation. Combination drive for valve operator. 3,738,183, 6-12-73, Cl. 74-89.150.
Ball, Russell C., Jr.; and Liu, John K., to Philadelphia Gear Corporation. Load equalizing clutch controls. 3,757,912, 9-11-73, Cl. 192-.020.
Ball, Russell C., Jr.; and Denkowski, Walter J., to Philadelphia Gear Corporation. Valve operator with explosive cartridge. 3,766,803, 10-23-73, Cl. 74-625.000.
Ball, Stephen D.; and Kekc, Gary L. Bubble transfer device for open system scuba diving applications. 3,721,235, 3-20-73, Cl. 128-142.200.
Ball, Verna D.: *See—*
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Ballard, Albert S. Sealable electrical connector. 3,742,427, 6-26-73, Cl. 339-60.00m.
Ballard, Albert S., to Raytheon Company. Electro-optical differential. 3,766,557, 10-16-73, Cl. 343-5.0st.
Ballard, Alexander K. Multi-line underlining instrument. 3,762,054, 10-2-73, Cl. 33-41.00d.





Ballard, Carlos E.; and McMillan, Thurmond D., to Reed Tool Company. Gelled nitroparaffin explosive composition containing air-entrapper plus inert weighting material. 3,762,970, 10-2-73, Cl. 149-21.000.
Ballard, Charles U. Aircraft seat lock actuator. 3,730,019, 5-1-73, Cl. 74-502.000.
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Ballard, Denis George Harold; Heap, Nicholas; Jones, Eric; Kilbourn, Barry Tarbatt; and Wyatt, Ronald John, to Imperial Chemical Industries Limited. Polymerisation of mono-olefins with an organometallic zirconium complex-1,1,3,3-tetraphenylsiloxane-1,3-dio catalyst. 3,740,384, 6-19-73, Cl. 260-94.90c.
Ballard, Donald R. Extendable boom apparatus. 3,732,743, 5-15-73, Cl. 74-89.180.
Ballard, Estus E. Wrench. 3,752,016, 8-14-73, Cl. 81-64.000.
Ballard, Homer Lee: *See—*
Atwell, Everett C.; and Ballard, Homer Lee, 3,713,347.
Ballard, James L., to General Electric Company. Refrigeration system including head pressure control means. 3,739,596, 6-19-73, Cl. 62-158.000.
Ballard, John L.: *See—*
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Ballard, Jules. Method for forming wedge shaped edge. 3,711,362, 1-16-73, Cl. 156-219.000.
Ballard, Lee N.: *See—*
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Ballard, Norman D., to United Aircraft Corporation. Adaptive spark detection system for an electrochemical machining apparatus. 3,761,380, 9-25-73, Cl. 204-228.000.
Ballard, Norman Edmund, to Rolls-Royce (1971) Limited. High temperature resistant coating. 3,776,747, 12-4-73, Cl. 106-84.000.
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Ballard, Thomas B. Washing machine with oscillating work support. 3,776,246, 12-4-73, Cl. 134-153.000.
Ballas Egg Products Corporation: *See—*
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Ballas, George C.: *See—*
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Ballas, Max; and Painter, Marvin R., to Ballas Egg Products Corporation. Egg white spray drying apparatus and method. 3,720,253, 3-13-73, Cl. 159-4.00f.
Ballast-Nedam Groep N.V.: *See—*
Van Zeggelaar, Gerrit Hendrik, 3,740,533.
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Balle, Gerhard; and Kolb, Gunter, to Bayer Aktiengesellschaft. Self-crosslinkable copolymers. 3,732,190, 5-8-73, Cl. 260-78.50r.
Balle, Walter, to Herbert, Leonhard, Maschinenfabrik. Tyre vulcanizing press. 3,734,656, 5-22-73, Cl. 425-34.000.
Ballenger, Robert J.: *See—*
Van Etta, David; and Ballenger, Robert J., 3,738,550.
Ballentine, Earle W.; and Gindes, Bernard C. Method and apparatus for inducing sleep by applying electrical pulses to plural portions of the head. 3,762,396, 10-2-73, Cl. 128-1.00c.
Ballentine, Jean. Hair strainer: drain strainer. 3,742,524, 7-3-73, Cl. 4-286.000.
Ballestrazzi, Ariz; Tassi, Lamberto; and Tosarelli, Gianni. Device for welding and cutting films of plastics materials in apparatus for packing goods. 3,758,366, 9-11-73, Cl. 156-515.000.
Ballew, Julius R. Earth anchor and apparatus for applying. 3,763,610, 10-9-73, Cl. 52-160.000.
Balli, Heinz; and Krueger, Ulf, to Ciba-Geigy AG. Diamino-xanthene (or thioxanthene)-spirodibenzopyranes. 3,733,337, 5-15-73, Cl. 260-328.000.
Balliett, John W.; and Sherwood, William T., to Eastman Kodak Company. Reflective device for color separation. 3,710,010, 1-9-73, Cl. 178-5.40r.
Balling, Theodore Thomas; Leonard, Richard J.; Ponzoni, George Bernard; Protomastro, Michael Gabriel; and Stefanucci, Arthur, to General Foods Corporation. Successive quenching of coffee during roasting. 3,715,215, 2-6-73, Cl. 99-68.000.
Ballinger, Dale O.; and Stauffer, Norman L., to Honeywell Inc. Transverse recorder. 3,774,226, 11-20-73, Cl. 346-35.000.
Ballinger, Forrest H.: *See—*
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Ballinger, Virgil R. Fire protection apparatus for a building. 3,715,843, 2-13-73, Cl. 52-3.000.
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Ballistic Research Industries: *See—*
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Ballman, Gray C. Battery charger. 3,733,535, 5-15-73, Cl. 320-40.000.
Ballman, Gray C. Means and methods for ferro-resonant float charging circuits. 3,781,630, 12-25-73, Cl. 320-21.000.
Ballmer, Ernst, to Hatebur, F. B., AG. Method and apparatus for compression forging of components. 3,733,873, 5-22-73, Cl. 72-332.000.
Ballo, Frank. Container construction. 3,724,722, 4-3-73, Cl. 222-105.000.
Ballou, Clayton R. Shoring structure. 3,730,572, 5-1-73, Cl. 287-53.500.
Ballou, Clayton R., 1/5 to Hursh, Jack E. Shoring frame system. 3,742,662, 7-3-73, Cl. 52-122.000.
Ballou, Milton L., to Knight Oil Corporation. Rotary brush. 3,748,678, 7-31-73, Cl. 15-24.000.
Ballou, Raymond J.: *See—*
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Sheker, Roger N.; and Ballou, Raymond J., 3,750,015.
Ballou, Richard P., to General Motors Corporation. Two-relay automotive vehicle signaling system. 3,740,714, 6-19-73, Cl. 340-67.000.
Ballou, Richard P., to General Motors Corporation. Two relay control circuit for automotive vehicles. 3,745,362, 7-10-73, Cl. 307-10.00r.
Ballou, Richard P., to General Motors Corporation. Light control circuit. 3,748,529, 7-24-73, Cl. 315-83.000.
Ballou, Richard P., to General Motors Corporation. System for operating an unattended automobile engine. 3,766,398, 10-16-73, Cl. 290-38.000.
Bally Manufacturing Corporation: *See—*
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Balm Paints Limited: *See—*
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Balme, Maurice; and Gruffaz, Max, to Rhone-Poulenc S.A. Polysulphone compositions. 3,712,932, 1-23-73, Cl. 260-857.0pi.
Balme, Maurice; and Ducloux, Maurice, to Rhone-Poulenc S.A. Process for the preparation of molding powders of heat-stable anhydride polycondensates. 3,761,445, 9-25-73, Cl. 260-47.0cp.
Balmer, Robert T.: *See—*
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Balogh, Arbad: *See—*
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Balogh, Edward, Jr.; and Cook, Darwen J., to Burroughs Corporation. Digital processor having variable length addressing. 3,735,355, 5-22-73, Cl. 340-172.500.
Balogh, Erno: *See—*
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Balogh, Roy, to McCabe-Powers Body Company. Mobile derrick. 3,752,328, 8-14-73, Cl. 212-145.000.
Balon Corporation: *See—*
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Balsa Ecuador Lumber Corporation: *See—*
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Balsam, Gunter; and Kuener, Otto, to Merck Patent Gesellschaft mit beschrankter Haftung. Process for the preparation of peruvoside. 3,713,980, 1-30-73, Cl. 195-32.000.
Balsbaugh, Paul H. Log splitter and tube bender. 3,779,295, 12-18-73, Cl. 144-193.00a.
Balsbaugh, Vernon L. Crawler type load transporting device. 3,724,864, 4-3-73, Cl. 280-5.280.
Balse, Helmut; and Gorl, Richard, to Rheinstahl Aktiengesellschaft. Load lifting vehicle having a laterally adjustable ground supported element. 3,749,193, 7-31-73, Cl. 180-9.480.
Balser, Charles B., to General Electric Company. Programmable special purpose processor having simultaneous execution and instruction and data access. 3,775,756, 11-27-73, Cl. 340-172.500.
Balser, Martin; Nagy, Arthur E.; and Proudian, Andrew P., to Xonics Inc. Aircraft vortex detection system. 3,735,333, 5-22-73, Cl. 340-1.00r.
Balsiger, Rudolf, to Zellweger Ltd. Apparatus and process for triggering the camera of a doppler speed-measuring apparatus. 3,754,253, 8-21-73, Cl. 343-7.0ed.
Balston, W. & R., (Industrial) Limited: *See—*
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Baltazzi, Evan S.: *See—*
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Printy, Helen C.; and Baltazzi, Evan S., 3,751,246.

Baltazzi, Evan S.; and Printy, Helen C., to Addressograph-Multigraph Corporation. 0-Aminomethyl-p-phenylenediamines and diazonium salts thereof. 3,743,509, 7-3-73, Cl. 96-91.00r.

Baltazzi, Evan S., to Addressograph-Multigraph Corporation. Organic photoconductive members comprising dicyanomethylene substituted fluorene sensitizers. 3,752,668, 8-14-73, Cl. 96-1.500.

Balthazar, Real J.; and Halberg, Richard A., to Sargent Industries, Inc. Method of making a pipe with refined grain structure. 3,780,555, 12-25-73, Cl. 72-69.000.

Balthes Farm Equipment Manufacturing Limited: *See—*
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Balthes, John, to Balthes Farm Equipment Manufacturing Limited. Agricultural leaf picking machine. 3,731,475, 5-8-73, Cl. 56-27.500.

Baltimore Aircoil Company, Inc.: *See—*
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Baltimore Brushes, Inc.: *See—*
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Baltsas, Stavros; and Patsalos, Peter C. Chance scoring apparatus and method of using same. 3,721,444, 3-20-73, Cl. 273-138.00r.

Baltzer, Philip K., to RCA Corporation. Radiation resistant lithium ferrite cores. 3,767,581, 10-23-73, Cl. 252-62.610.

Balukin, Richard F., to Westinghouse Air Brake Company. Apparatus for regulating brake control pressure. 3,724,912, 4-3-73, Cl. 303-16.000.

Balunas, Vincent J., Jr.: *See—*
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Balut, Ernst: *See—*
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Balwe, Thomas; and Sabel, Johann, to Wacker-Chemie G.m.b.H. Process for the suspension polymerization of vinyl chloride. 3,781,255, 12-25-73, Cl. 260-87.100.

Balykov, Petr Semenovich: *See—*
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Balz, Gunther W., to Roto-Finish Company. Finishing method. 3,745,722, 7-17-73, Cl. 51-314.000.

Balz, Helmut, G.m.b.H., Firma: *See—*
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Balzano, Alfiero F.: *See—*
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Balzano, Alfiero F.; and Regan, John F., to Eaton Corporation. Door lock electrical control unit. 3,748,878, 7-31-73, Cl. 70-218.000.

Balzano, Alfiero F., to Eaton Corporation. Electric strike. 3,749,435, 7-31-73, Cl. 292-341.160.

Balzer, Claude P.; Corman, Edward M.; and Reiff, Almer A., to Balco, Inc. Expansion joint cover assembly. 3,750,359, 8-7-73, Cl. 52-468.000.

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Balzer, David John: *See—*
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Balzer, Hans; Fleck, Fritz; Mercer, Alec Victor; and Paver, Roger, to Sandoz Ltd.; a/k/a Sandoz AG. Novel triazole compounds. 3,732,213, 5-8-73, Cl. 260-240.0ca.

Balzer, Hans; Fleck, Fritz; and Schmid, Hans-Rudolf, to Sandoz Ltd. Stilbene compounds. 3,757,010, 9-4-73, Cl. 260-240.00b.

Balzer, Norbert R.: *See—*
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Balzer, Norbert R.; and Kasper, Robert J., to Park-Ohio Industries, Inc. Slab heating method and apparatus. 3,715,556, 2-6-73, Cl. 219-10.690.

Balzer, Norbert Raymond, to Park-Ohio Industries, Inc. Method for inductively heating and quenching elongated workpieces. 3,761,325, 9-25-73, Cl. 148-153.000.

Balzers Patent- und Beteiligungs-Aktiengesellschaft: *See—*
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Bamber, George E.: *See—*
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Bamberg, George. Pump for parenteral injections and the like. 3,778,195, 12-11-73, Cl. 417-474.000.

Bamberg, William I.; Gungle, Warren C.; and Koury, Frederic, to GTE Sylvania Incorporated. Metal halide lamp containing mercury, light emitting metal, sodium and another alkali metal. 3,761,758, 9-25-73, Cl. 313-229.000.

Bamberger, Carlos E.: *See—*
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Bamford, Robert P.: *See—*
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Bamser, Frank G., Jr.: *See—*
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Ban, Akos; Nagy, Sandor; and Balint, Valer, to Koolaj-es Gazipari Tervezo Vallalat. Well bottom treatment. 3,776,312, 12-4-73, Cl. 166-302.000.

Ban, Itsuki. Magnetic tape cartridge removing apparatus. 3,726,529, 4-10-73, Cl. 274-4.00f.

Ban, Itsuki. Magnetic tape cartridge removing apparatus. 3,730,533, 5-1-73, Cl. 274-4.00f.

Ban, Itsuki. Endless magnetic tape cartridge removing apparatus. 3,730,534, 5-1-73, Cl. 274-4.00b.

Ban, Itsuki. Tape fast feed control apparatus for endless magnetic tape cartridge player. 3,742,320, 6-26-73, Cl. 318-6.000.

Ban, Itsuki, 50% each to Secoh Giken Company Limited and Miyata Electric Works, Inc. Electronic flash system. 3,748,989, 7-31-73, Cl. 95-10.0ce.

Ban, Itsuki. Magnetic tape cartridge play control means. 3,752,484, 8-14-73, Cl. 274-4.00f.

Ban, Massasi: *See—*
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Ban, Yasujiro. Method of continuously manufacturing a plurality of sheet records in a process. 3,740,286, 6-19-73, Cl. 156-219.000.

Banba, Toshitsugu: *See—*
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Bancal, Bernard Robert Laurent Marie: *See—*
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Bancel, Joseph Emmanuel. Farming implement for ridging. 3,750,758, 8-7-73, Cl. 172-58.000.

Bancroft, Allan R., to Atomic Energy of Canada Limited. Extraction of deuterium from hydrogen gas using amines in a bithermal process. 3,716,623, 2-13-73, Cl. 423-248.000.

Bancroft, Charles F., to Hughes Aircraft Company. Phase discatector. 3,777,181, 12-4-73, Cl. 307-232.000.

Bancroft, H. S., Corporation: *See—*
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Bancroft, William G.: *See—*
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Band, Ian T., to Hewlett-Packard Company. Gate control apparatus for setting the input signal counting interval. 3,729,677, 4-24-73, Cl. 324-78.000.

Bandag Incorporated: *See—*
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Bandel, Kurt; Bartle, Walter; Gunther, Ewald; Honegg, Adolf; and Stahl, Heinz, to Daimler-Benz Aktiengesellschaft. Cushioned seat, especially motor vehicle seat with quilting. 3,711,155, 1-16-73, Cl. 297-456.000.

Bandenburg, Daniel J.: *See—*
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Bandflier, Edouard: *See—*
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Bandimere, John C. Fuel pump and method of control therefor. 3,738,344, 6-12-73, Cl. 123-139.0af.

Bandimere, John C. Engine rocker arm stabilizer. 3,754,539, 8-28-73, Cl. 123-90.410.

Bando Chemical Industries, Ltd.: *See—*
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Bando, Masayoshi: *See—*
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Bandrowski, James: *See—*
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Bandukwalla, Phiroze, to General Motors Corporation. Centrifugal compressor blading. 3,749,520, 7-31-73, Cl. 416-183.000.

Bandukwalla, Phiroze, to General Motors Corporation. Radial diffuser. 3,778,186, 12-11-73, Cl. 415-181.000.

Bandukwalla, Phiroze, to General Motors Corporation. Centrifugal compressor diffuser. 3,781,128, 12-25-73, Cl. 415-211.000.

Bandurco, Victor; and Shroff, James R., to USV Pharmaceutical Corporation. Imino-benzyl-pyrazoles. 3,714,182, 1-30-73, Cl. 260-310.00r.

Bandurco, Victor; Elpern, Bill; and Shroff, James R., to USV Pharmaceutical Corporation. N-amino-benzamidines. 3,715,396, 2-6-73, Cl. 260-564.00r.

Bandy, Charles Robert. Charging valve tool. 3,717,008, 2-20-73, Cl. 62-292.000.

Bandy, Emmett O.: *See—*
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Bandy, Lyle E.: *See—*
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Bitzer, Donald L.; Bandy, Lyle E.; Johnson, Roger L.; and Skaperdas, Dominic O., 3,770,012.

Bandy, Robert G. Rotary compressor. 3,771,902, 11-13-73, Cl. 418-91.000.

Bandzauner, Arnold: *See—*
Guhr, Gisela; von Mikusch-Buchberg, Johannes Donatus; Heinrich, Wolfgang; Bandzauner, Arnold; and D'Audiffret, Yves Tollard, 3,775,448.

Bane, James. Motorcycle towing device. 3,776,572, 12-4-73, Cl. 280-292.000.

Banerji, Barenya Kumar, to Unisearch Limited. Flotation recovery of zinc sulphide from ore. 3,745,102, 7-10-73, Cl. 204-130.000.

Banes, Ralph E.: *See—*
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Visos, Charles D.; Love, John J.; Smith, Carl A.; and Banes, Ralph E., 3,727,836.

Baney, Ronald H., to Dow Corning Corporation. Silicone compositions catalyzed with platinum II diacetylacetonate. 3,723,497, 3-27-73, Cl. 260-46.5ua.

Banfer, Hartwig: *See—*
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Greiner, Harry M.; and Banfer, Hartwig, 3,742,849.

Banfield, David Leslie, to United Kingdom Atomic Energy Authority. Method of making a semi-permeable membrane tube. 3,746,591, 7-17-73, Cl. 156-191.000.

Banford, John Alexander: *See—*
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Banford, John Alexander, to Abbott Laboratories. Method of treating bovine mastitis by means of an erythromycin solution. 3,780,737, 12-25-73, Cl. 128-260.000.

Bang, Erik Borje. Production of long chips and products made from same. 3,718,285, 2-27-73, Cl. 241-28.000.

Bang, Mogens W., to Stackpole Carbon Company. Coarse and fine adjustment potentiometer. 3,719,915, 3-6-73, Cl. 338-183.000.

Bang, Mogens W.; and Kronenwetter, Richard P., to Stackpole Carbon Company. Adjustable electrical control device with longitudinal indexing for slide switch. 3,728,499, 4-17-73, Cl. 200-16.00f.

Bangert, Charles, Jr., to General Electric Company. Electrical fire and shock protective apparatus. 3,769,549, 10-30-73, Cl. 317-18.00a.

Bangert, Hans; and Arenz, Werner, to Orenstein & Koppel Aktiengesellschaft. Self-propelling vehicle with tree-felling shears. 3,747,651, 7-24-73, Cl. 144-34.00a.

Bangerter, Kenneth R.: *See—*
Hautaniemi, Bruno Wendell; Bowman, Robert A.; and Bangerter, Kenneth R., 3,722,263.

Bangl, Donald W. Flow-through type solenoid valves. 3,762,683, 10-2-73, Cl. 251-139.000.

Bangor Punta Operations, Inc.: *See—*
Charron, Dwayne W., 3,713,362.
Fong, Leong Quock, 3,734,567.
Gulaian, Varian, 3,755,916.
Gunn, William G., 3,755,950.
Taccone, Russell W., 3,709,282.
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Bangs, Albert. Portable electric cattle guard. 3,756,566, 9-4-73, Cl. 256-10.000.

Banic, Carl V.: *See—*
Gagnon, Richard N.; Banic, Carl V.; and Grasso, Albert P., 3,716,415.

Banic, James M., Jr.: *See—*
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Banigan, Thomas F.: *See—*
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Banin, Amos, to Yissum Research Development Company of the Hebrew University of Jerusalem. Quantitative ion exchange process for clay. 3,725,528, 4-3-73, Cl. 423-112.000.

Banitt, Elden H.: *See—*
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Robertson, Jerry E.; Harrington, Joseph Kenneth; and Banitt, Elden H., 3,722,599.

Bank, Gilbert, to National Midco Industries, Incorporated. Automatic telephone calling apparatus utilizing digital logic device. 3,718,771, 2-27-73, Cl. 179-90.00r.

Bank, Herbert M. Package for providing a packaged product. 3,734,276, 5-22-73, Cl. 206-47.00r.

Bank of Higginsville: *See—*
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Bank of Sunnyside, mesne: *See—*
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Banka, Eugene F.: *See—*
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Banker, Bernard R.: *See—*
Wronka, Adolph A.; Banker, Bernard R.; Andrews, John E., Jr.; and Kliem, Bernd W. A., 3,717,097.

Bankert, Jon Calvin, Jr.; Lutchansky, Milton; Osifchin, Nicholas; and Willis, Clarence Jesse, to Bell Telephone Laboratories, Incorporated. Waveguide structure utilizing compliant helical support. 3,750,058, 7-31-73, Cl. 333-95.00r.

Bankert, Ralph A., to Hercules Incorporated. Diallylamine-amide-polyaldehyde resins having utility as wet and dry strengthening agents in papermaking. 3,728,216, 4-17-73, Cl. 162-167.000.

Banko, Anton, to Surgical Design Corporation. Apparatus for removing blood clots, cataracts and other objects from the eye. 3,732,858, 5-15-73, Cl. 128-2.00b.

Banko, Ronald C.; and Olsony, Thor F., to Philco-Ford Corporation. Cabinet structure. 3,774,984, 11-27-73, Cl. 312-8.000.

Banks, Charles T., to Kimberly-Clark Corporation. Method and apparatus for the formation of fiber fluff. 3,755,856, 9-4-73, Cl. 19-156.300.

Banks, Clayton Hatton. Weighing machines. 3,720,276, 3-13-73, Cl. 177-122.000.

Banks, Donald D.: *See—*
Walukonis, John S., Jr.; and Banks, Donald D., 3,716,023.

Banks, Donald S.: *See—*
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Banks, Donald S., to Raytheon Company. Radar scanning method and apparatus. 3,710,388, 1-9-73, Cl. 343-16.00r.

Banks, Eric John, to Ford Motor Company. Clutch actuator for a geared power transmission mechanism. 3,719,101, 3-6-73, Cl. 74-337.500.

Banks, Eric John, to Ford Motor Company. Motor vehicle transmission. 3,736,806, 6-5-73, Cl. 74-336.000.

Banks, Gary R. Device for displaying sheet members having indicia thereon. 3,714,725, 2-6-73, Cl. 40-84.000.

Banks, Kenneth, to Pilkington Brothers Limited. Apparatus for electrically welding a double walled glazing unit. 3,726,658, 4-10-73, Cl. 65-40.000.

Banks, Raymond H.; Gillespie, Neal D.; and Reani, Adolph W., to International Business Machines Corporation. Butt brazing apparatus and method. 3,751,624, 8-7-73, Cl. 219-85.000.

Banks, Robert, to Nuclear Power Group Limited, The. Nuclear reactors. 3,741,349, 6-26-73, Cl. 188-42.000.

Banks, Robert B.; and Baker, Roger E., to Electro Development Corporation. Pulse width DC converter compensating for pulse repetition rate changes. 3,740,586, 6-19-73, Cl. 307-229.000.

Banks, Robert L.; and Pennella, Filippo, to Phillips Petroleum Company. Disproportionation process. 3,729,525, 4-24-73, Cl. 260-683.00d.

Banks, Robert L., to Phillips Petroleum Company. Increasing the octane of olefinic gasolines using disproportionation, alkylation and reforming steps. 3,763,032, 10-2-73, Cl. 208-93.000.

Banks, Robert L., to Phillips Petroleum Company. Preparation of high octane gasoline using disproportionation, alkylation and dimerization steps. 3,767,565, 10-23-73, Cl. 208-93.000.

Banks, Ronald Eric: *See—*
Haszeldine, Robert Neville; Banks, Ronald Eric; and Taylor, David Robin, 3,709,948.

Banks, William L., Jr. Auxiliary hook stay. 3,722,451, 3-27-73, Cl. 114-102.000.

Bankstahl, Herbert A.: *See—*
North, Irving W.; and Bankstahl, Herbert A., 3,759,041.

Bann, Robert Francis; Moran, William Joseph; and Roth, Philip B., to American Cyanamid Company. Treatment of cellulosic textiles with 1, 3-dimethylol-4,5-dihydroxy-2-imidazoidinone, zinc nitrate and a sequestering agent. 3,746,505, 7-17-73, Cl. 8-74.000.

Bannehr, Konrad: *See—*

Ludwig, Frank; Bannehr, Konrad; Rothe, Dieter; and Tschischke, Werner, 3,748,871.
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Banner, Aubrey E.; and Merren, Thomas O., to Associated Electrical Industries Limited. Mass measurement system for mass spectrometers. 3,723,713, 3-27-73, Cl. 235-151.350.
Banner, Joseph, to Anjac Mfg. Co., Inc. Sliding-door corner junction and support structure. 3,731,431, 5-8-73, Cl. 49-420.000.
Banner Metals, Inc.: *See—*
Wilson, James D., 3,756,167.
Banner Mining Company: *See—*
Green, George E., 3,751,240.
Banner, Philip M. Navigation calculator. 3,721,007, 3-20-73, Cl. 33-1.50d.
Banner, Philip M. Golf computer means. 3,744,714, 7-10-73, Cl. 235-88.000.
Banner, Philip M. Automatic trim tab means for marine craft. 3,760,758, 9-25-73, Cl. 114-66.50p.
Bannett, Roger J.; and Hall, Roland S., Jr., to United States of America, Navy. Dual mode guidance and control system for a homing missile. 3,735,944, 5-29-73, Cl. 244-3.150.
Banning, J., Aktiengesellschaft: *See—*
Wieting, Eugen; and Siepmann, Hans, 3,709,011.
Bannister, Brian: *See—*
Argoudelis, Alexander D.; Bannister, Brian; Kagan, Fred; and Magerlein, Barney J., 3,764,672.
Bannister, Brian, to Upjohn Company, The. Derivatives of lincomycin. 3,737,425, 6-5-73, Cl. 260-210.00r.
Bannister, Brian, to Upjohn Company, The. Process for making derivatives of lincomycin and its analogs. 3,767,649, 10-23-73, Cl. 260-210.00r.
Bannister, John D.; Peters, Joseph C.; and Jordan, Michael, to Damon Corporation. Liquids sampler with probe-bathing chamber. 3,719,086, 3-6-73, Cl. 73-423.00a.
Bannister, John D., to Damon Corporation. Pneumatically operated mixing device. 3,744,766, 7-10-73, Cl. 259-108.000.
Bannister, John D.; and Ferrari, Andres, to Damon Corporation. Method and apparatus for metering fluid utilizing pressure differentials. 3,756,459, 9-4-73, Cl. 222-1.000.
Bannister, John D.; Coller, Frederick L.; and De Santis, Italo J., to Damon Corporation. Apparatus for aspirating precise volumes of fluid sample. 3,759,667, 9-18-73, Cl. 23-259.000.
Bannister, Loren W.: *See—*
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Clark, Frank S.; and Bannister, Loren W., 3,751,368.
Clark, Frank S.; and Bannister, Loren W., 3,755,175.
Clark, Frank S.; and Bannister, Loren W., 3,755,178.
Bannister, Ralph R.; Harris, Gabriel W.; and Boston, Joseph F., to Union Carbide Corporation. Extractive distillation with subsequent lower pressure adiabatic vaporization. 3,769,217, 10-30-73, Cl. 203-53.000.
Bannister, Robert Henry Arthur, to Girling Limited. Railway vehicle disc brakes. 3,762,506, 10-2-73, Cl. 188-59.000.
Bansbich, Paul L., to Petrolite Corporation. Apparatus and process for adding chemicals. 3,710,867, 1-16-73, Cl. 166-244.00c.
Banse, George, to National Manufacturing Co. Chain door fastener. 3,738,694, 6-12-73, Cl. 292-264.000.
Bansemir, Robert H.: *See—*
Altenburger, Otto; and Bansemir, Robert H., 3,729,593.
Bansho, Kiyoshi: *See—*
Tanaka, Tetsuro; and Bansho, Kiyoshi, 3,710,275.
Banta, Charles C., to United States of America, Army. Container for packaging a plurality of explosive units so as to prevent sympathetic detonations. 3,757,933, 9-11-73, Cl. 206-3.000.
Bantz, Clarence W., to Caterpillar Tractor Company. Hydraulic valve with leakage control. 3,707,984, 1-2-73, Cl. 137-312.000.
Banus, Bernard R., to Sterling Manufacturing Company. Calibratable ammeter having a pestoring magnet mounted on a bendable tab. 3,713,024, 1-23-73, Cl. 324-146.000.
Banville, Bertrand, to Prayfel Inc. Computerized race game. 3,717,345, 2-20-73, Cl. 273-86.00r.
Banwarth, Robert F., to United States of America, Federal Bureau of Investigation. Fanfold card guide device with gravity held discharge chute. 3,767,024, 10-23-73, Cl. 197-133.00r.
Banyas, John D.; and Ross, Edward A., to Owens-Illinois, Inc. Method and apparatus for forming a finish on a glass container. 3,726,659, 4-10-73, Cl. 65-70.000.
Banyas, John D.; and Ross, Edward A. Lubrication system for endless chain conveyors. 3,762,504, 10-2-73, Cl. 184-15.00a.
Banyaszati Tervezo Intezet: *See—*
Benedek, Miklos; Irsai, Tamas; Kekete, Sandor; Ambrus, Sandor; and Savolyi, Istvan, 3,731,977.
Banyu Pharmaceutical Co., Ltd.: *See—*
Hidaka, Hiroyoshi; Matsumoto, Ikuo; and Yoshizawa, Junji, 3,776,913.
Banzano, Giorgio, to Honeywell Information Systems Italia S.p.A. Apparatus for controlling the feeding of paper in high-speed printers. 3,740,634, 6-19-73, Cl. 318-345.000.
Banzet, Frederic. Doors with electro-mechanical operating means. 3,763,594, 10-9-73, Cl. 49-126.000.
Bao, Vemulapalli Durganageswar; and Telang, Yeshwant Pandharinath. Rubbing seal for high temperature ceramics. 3,746,352, 7-17-73, Cl. 277-235.000.
Bapat, Dilip C., to National Semiconductor Corporation. Clocked bootstrap inverter circuit. 3,774,055, 11-20-73, Cl. 307-279.000.
Bapgstedt, Gerd. Transfer apparatus. 3,776,393, 12-4-73, Cl. 214-1.00b.
Baptista, John: *See—*
Ty, Henry; and Baptista, John, 3,769,487.
Baptista, John L.; and Smith, Albert C., Jr., to Eastman Kodak Company. Multicolor photographic film elements comprising a minimum sensitivity sound track recording silver halide emulsion layer and processes for their use. 3,737,312, 6-5-73, Cl. 96-4.000.
Barabas, Andrew A., to Castro Convertible Corporation. Convertible sofa bed. 3,747,135, 7-24-73, Cl. 5-13.000.
Barabas, Eugene S.; and Fein, Marvin M., to GAF Corporation. Graft copolymers of poly(vinylpyrrolidone) with acrylic acid and acrylic ester. 3,770,683, 11-6-73, Cl. 260-29.6rw.
Barabino, William A., to Safety Research & Engineering Corporation. Alarm system for pneumatic tires. 3,738,308, 6-12-73, Cl. 116-34.00r.
Baraconi, William V.: *See—*
Baraconi, William V.; and LaFranca, Peter J., 3,724,716.
Baraconi, William V.; and LaFranca, Peter J., to Baraconi, William V. Bag dispenser. 3,724,716, 4-3-73, Cl. 221-47.000.
Baraglia, Nathan A.: *See—*
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Barak, Anthony J.; and Champion, Walter P. Method of constructing indoor or patio green and a plug for the golf cup-thereof. 3,772,841, 11-20-73, Cl. 52-741.000.
Barak, Morton; and Winchell, Harry S., to Medi-Physics, Inc. Radiopharmaceutical generator kit. 3,749,556, 7-31-73, Cl. 23-252.00r.
Barake, Franciscus X. C. M.; Kijkhuis, Christiaan G. M.; and Logemann, Johan D., to Stamicarbon N.V. Process for increasing the corrosion resistance of austenitic stainless steels. 3,720,548, 3-13-73, Cl. 148-6.14r.
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Baran, John S.; and Liang, Chi-Dean, to Searle, G. D., & Co. Manufacture of 11-alkyl steroids. 3,755,301, 8-28-73, Cl. 260-239.55r.
Baran, John S.; and Pitzele, Barnett S., to Searle, G. D., & Co. 4,4-Desmethyl-3,11-dioxooleana-4,12-dien-30-OIC acids and intermediates. 3,755,414, 8-28-73, Cl. 260-468.500.
Baranauckas, Charles F.; and Gordon, Irving, to Borg-Warner Corporation, mesne. Esters of phosphonic acid as fire-retardants in polyurethane foams. 3,737,397, 6-5-73, Cl. 260-2.5aj.
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Baranoff, Albert J. Intermittent type drum advancing mean in a high speed printer. 3,731,622, 5-8-73, Cl. 101-93.00c.
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Baranow, Sanford; and Klingler, Leo J., to Cabot Corporation, mesne. Dispersion hardened metals having improved oxidation characteristics at elevated temperature. 3,743,548, 7-3-73, Cl. 148-32.000.
Baranowski, Frank, Jr. Gas torch. 3,768,962, 10-30-73, Cl. 431-353.000.
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Barasch, Werner, to Becton, Dickinson and Company. Seamless plastic articles having a textured surface. 3,761,965, 10-2-73, Cl. 2-167.000.



Barashkov, Ruslan Yakovlevich: *See—*
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Barat, Jean: *See—*
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Baratta, Lucio. Cable tensostructure including stiffening latticed elements. 3,758,905, 9-18-73, Cl. 14-19.000.
Barb, Earl C., to General Cable Corporation. Ground level terminal housing. 3,751,575, 8-7-73, Cl. 174-52.00r.
Barb, Raymond P.; and Sutar, William, to General Electric Company. Ni-Au base brazing alloy. 3,764,307, 10-9-73, Cl. 75-170.000.
Barba, Diego; D'Agostino, Candido; and Liuzzo, Giuseppe, to Societa Italiana Resine S.p.A. Multiple expansion flash evaporator comprising a continuous casing with a central evaporation chamber. 3,720,586, 3-13-73, Cl. 202-173.000.
Barba, Diego; Liuzzo, Giuseppe; Tagliafferri, Giovanni; and Germana, Antonino, to Societa Italiana Resine S.p.A. Heat-exchanger for desalting sea water. 3,735,808, 5-29-73, Cl. 165- 069.000.
Barba, Diego; Liuzzo, Giuseppe; and Tagliaferri, Giovanni, to Societa Italiana Resine S.p.A. Multi-stage flash evaporator. 3,763,014, 10-2-73, Cl. 202-173.000.
Barba, John J., to Olesen, Larry F. and Olesen, Virginia A. Smoke control device. 3,709,171, 1-9-73, Cl. 110-8.00r.
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Barbano, Normand, to GTE Sylvania Incorporated. Broadband plane antenna with log-periodic reflectors. 3,745,585, 7-10-73, Cl. 343-792.500.
Barbatschi, Ferdinand; Borders, Donald Bruce; and Shay, Anthony Joseph, to American Cyanamid Company. 2-(3,8-Dioxatricyclo [5.1.0.0$^{2,4}$] oct-5-en-5-yl)-4H-pyran-4-one. 3,720,691, 3-13-73, Cl. 260-345.900.
Barbee, Gail G., to Caterpillar Tractor Company. Liquid level indicating means. 3,726,140, 4-10-73, Cl. 73-299.000.
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Barber, Anthony Clifford; and McDougall, Ian Leitch, to Imperial Metal Industries (Kynoch) Limited. Method of fabricating intermetallic type superconductors. 3,763,553, 10-9-73, Cl. 29-599.000.
Barber, Claude L., to Yaun Manufacturing Company, Inc. Material handling implement. 3,777,918, 12-11-73, Cl. 214-138.00r.
Barber, Franklin D., to Standard Car Truck Company. Dampened railway car truck. 3,714,905, 2-6-73, Cl. 105-195.0db.
Barber, Gerald L. Helicopter type vehicle. 3,722,830, 3-27-73, Cl. 244-17.230.
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Barber, James B.: *See—*
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Barber, Joseph J., to Houdaille Industries, Inc. Turret indexing motor control system. 3,774,100, 11-20-73, Cl. 318-601.000.
Barber, Lloyd L., to Standard Precision, Inc. Bayonet-mounting means for sliding drawers. 3,771,849, 11-13-73, Cl. 312-350.000.
Barber, Lloyd L., Jr., to Standard Precision, Inc. Adjustable stops for drawer slides. 3,746,418, 7-17-73, Cl. 312-348.000.
Barber, Mack A., to Reserve Oil and Gas Company. Process of agglomerating ammonium sulfate and making complete fertilizer. 3,738,821, 6-12-73, Cl. 71-36.000.
Barber, Richard H., to McGill Manufacturing Company, Inc. Multiple element bearing seal. 3,748,003, 7-24-73, Cl. 308-187.200.
Barber, Richard P.; and Moses, Glen R., to Burlington Industries, Inc. Process for producing durable press textiles. 3,731,411, 5-8-73, Cl. 38-144.000.
Barber, Sherman H., to Koppers Company, Inc. Continuous casting mold. 3,750,743, 8-7-73, Cl. 164-283.000.
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Barberio, Louis; and Cornacchio, Americo, to Kings Electronics Co., Inc. Cable crimping die tool. 3,732,718, 5-15-73, Cl. 72-410.000.
Barberon, Michel; Fruchard, Elaine, nee Triquet; Eruchart, Robert; Lorthioir, Gerard Louis; and Madar, Roland, to Agence Nationale de Valorisation de la Recherche (ANVAR). Magnetic memory. 3,735,373, 5-22-73, Cl. 340-174.0na.
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Barbier, Maurice, to Societe Anonyme dite: Societe Nationale des Petroles d'Aquitaine. Seismic exploration. 3,736,554, 5-29-73, Cl. 340-7.00r.
Barbier, Pierre Emile. System for recording and presenting audio information to occupants or a vehicle. 3,711,653, 1-16-73, Cl. 179-100.10c.
Barbier, Pierre Roger, to Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France. Protection of the colon of mammals during treatment with antibiotics by simultaneous administration of nystatin and torulopsis tropsis. 3,740,423, 6-19-73, Cl. 42-93.000.
Barbieri, Frank. Safety apparatus for garbage trucks. 3,729,106, 4-24-73, Cl. 214-83.300.
Barbieux, Andre, to ELPHIAC. Apparatus for induction heating of metal sheets and process for heating such metal sheets. 3,766,353, 10-16-73, Cl. 219-10.610.
Barbin, Robert Lloyd, to RCA Corporation. Magnetic beam adjusting arrangements. 3,725,831, 4-3-73, Cl. 335-212.000.
Barbin, Robert Lloyd, to RCA Corporation. Cathode-ray tube with shadow mask having random web distribution. 3,766,419, 10-16-73, Cl. 313-92.00b.
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Barbour, William P., to Control Data Corporation. Traveling cylinder imprinter with wheel-centering means and cylinder-locking means for variable data input. 3,739,716, 6-19-73, Cl. 101-45.000.
Barbulesco, Daniel J.; and Briar, John R., to General Motors Corporation. Spring clutch. 3,724,622, 4-3-73, Cl. 192-105.0ce.
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Bard, John C.; and Maas, Russell H., to Mayer, Oscar, & Co., Inc. Heat-and-serve packages for precooked sausage and the like. 3,780,187, 12-18-73, Cl. 426-113.000.
Bard, Max L. Turbine mixer. 3,744,765, 7-10-73, Cl. 259-96.000.
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Barda, Rudolph C.; and Ward, William H., to Clark Equipment Company. Detachable fork for lift trucks. 3,754,673, 8-28-73, Cl. 214-731.000.
Bardahl, Nils; and Gotz, Friedrich, to Siemens Aktiengesellschaft. Device for limiting the short-circuit energy in electrolytic metal-forming apparatus. 3,779,888, 12-18-73, Cl. 204-228.000.
Bardani, Frank M. Controlled Medications Limited Controlled release medicament. 3,728,445, 4-17-73, Cl. 424-22.000.
Bardeau, William M. Cooking appliance. 3,719,507, 3-6-73, Cl. 99-375.000.
Bardeau, William Milton. Devices for heating or cooking foods. 3,742,931, 7-3-73, Cl. 126-369.000.
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Bardell, Paul H., Jr.; Barson, Fred; Benjamin, Charles E.; and Pecoraro, Raymond P., to International Business Machines Corporation. Semiconductor device fabrication method and product thereby. 3,728,166, 4-17-73, Cl. 148-175.000.
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Bardiau, Roger, to Societe S.E.C.O.R. Frontal multi-spindle lathes. 3,724,300, 4-3-73, Cl. 82-3.000.
Bardin, Robert S. Cooking utensil. 3,713,380, 1-30-73, Cl. 99-422.000.
Bardinet, Guy Marie Paul, to Fabriques de Produits Chemiques de Tham et de Mulhouse. Process for preparing alkyl titanates by transesterification. 3,721,689, 3-20-73, Cl. 260-429.500.
Bardinet, Guy Marie Paul; and Keck, Roger Emile Jules, to Fabriques de Produits Chimiques de Thann et de Mulhouse. Process for preparing alkyl titanates from titanium tetrachloride and alcohols. 3,752,834, 8-14-73, Cl. 260-429.500.
Bardocz, Arpad. Magnetic-kinematic precision stages. 3,720,849, 3-13-73, Cl. 310-8.000.
Bardong, Helmut: *See—*
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Bardwick, John, III. Inertial energy system for vehicles. 3,749,194, 7-31-73, Cl. 180-54.00r.
Bare, Conrad B.; and Pasquali, Joseph W., to Bethlehem Steel Corporation. Process for the extraction of nickel, copper and cobalt from manganiferous ores. 3,751,554, 8-7-73, Cl. 423-32.000.
Bare, Conrad B., to Bethlehem Steel Corporation. Process of treating iron oxide pellets with a chloride and producing iron pellets therefrom. 3,753,687, 8-21-73, Cl. 75-33.000.
Bare, Howard J. Flexible tubing with integral end clamps. 3,729,027, 4-24-73, Cl. 138-109.000.
Barecki, Chester J.; and Lindberg, William S., to American Seating Company. Independent seat rise stacking and row chair. 3,708,202, 1-2-73, Cl. 297-239.000.
Barecki, Chester J.; and Nordmark, Walter E., to American Seating Company. Vehicle attendant's chair. 3,708,203, 1-2-73, Cl. 297-346.000.
Barecki, Chester J., to American Seating Company. Single pedestal transit chair. 3,729,226, 4-24-73, Cl. 297-232.000.
Barecki, Chester J.; and Henrikson, Bror W., to American Seating Company. Sled base frame chair. 3,734,561, 5-22-73, Cl. 297-239.000.
Barecki, Chester J.; and Karrip, Alexander A., to American Seating Company. Rapid transit seating. 3,737,198, 6-5-73, Cl. 297-450.000.
Barecki, Chester J.; and Hozeski, Kenneth W., to American Seating Company. Vehicle chair unit. 3,744,843, 7-10-73, Cl. 297-316.000.
Barecki, Chester J., to American Seating Company. Transit seat with contoured plastic shell. 3,747,978, 7-24-73, Cl. 297-445.000.
Barecki, Chester J., to American Seating Company. Cantilevered seat for motorcoach vehicles or the like. 3,747,979, 7-24-73, Cl. 297-451.000.
Barecki, Chester J.; Van Ryn, Arthur L.; and Hozeski, Kenneth W., to American Seating Company. Desk and tray structure. 3,758,182, 9-11-73, Cl. 312-194.000.
Barecki, Chester J.; and Karrip, Alexander A., to American Seating Company. Airplane seat assembly. 3,762,766, 10-2-73, Cl. 297-217.000.
Barefoot, Carlton Keith. Apparatus for retreading tires. 3,729,358, 4-24-73, Cl. 156-394.000.
Barefoot, Carlton Keith. Apparatus for retreading tires. 3,752,726, 8-14-73, Cl. 156-394.000.
Barefoot, Charles A.; and Williams, Bryn T., to Carolina Medical Electronics, Inc. Hemostatic vascular cuff. 3,726,279, 4-10-73, Cl. 128-327.000.
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Barenyi, Bela; and Haselmann, Heinrich, to Daimler-Benz Aktiengesellschaft. Vehicle body. 3,776,589, 12-4-73, Cl. 296-28.00r.
Bares, James D., to Milbar Corporation. Adjustable spanner wrench. 3,731,560, 5-8-73, Cl. 81-90.00c.
Bares, Roger, to Societe E. Lacroix. Missile fuses. 3,715,988, 2-13-73, Cl. 102-80.000.
Baresel, Detlef, to Bosch, Robert, G.m.b.H. Method for producing fuel cell electrodes having high activity. 3,769,094, 10-30-73, Cl. 136-122.000.
Bareth, Erich, to Kaltenbach & Voigt. Straight or angle dental handpiece. 3,758,948, 9-18-73, Cl. 32-26.000.
Barettella, Bernard. Quill winder cleaning unit. 3,743,194, 7-3-73, Cl. 242-27.000.
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Bargoin, Jean, to Unimeco Anstalt. Lighted match dispenser. 3,712,508, 1-23-73, Cl. 221-141.000.
Barham, Harold N.; and Barham, Harold N., Jr. Method of chemical treatment of cereal grains to make them more responsive to various grain processes. 3,725,081, 4-3-73, Cl. 99-2.00r.
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Barie, Walter P., Jr.; Franke, Norman W.; and Singerman, Gary M., to Gulf Research & Development Company. Liquid stabilizers for vinyl chloride polymers. 3,728,282, 4-17-73, Cl. 252-400.000.
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Cozza, Giorgio; Scaglia, Carlo; and Barilli, Filippo, 3,752,879.
Barilli, Filippo; Lugo, Luigi; Di Fiore, Lucio; and Reni, Cesare, to Societa Italiana Resine S.p.A. Process for separating aromatic hydrocarbons from mixtures containing them by liquid-liquid extraction and azeotropic distillation. 3,725,255, 4-3-73, Cl. 28-331.000.
Baringer, Berlyn E.: *See—*
Huber, John A.; Baringer, Berlyn E.; Bruns, Eilert F.; and Ulewicz, Michael R., 3,715,903.
Barito, Robert W.: *See—*
Smith, William E.; Orlando, Charles M.; and Barito, Robert W., 3,781,229.
Barjavel, Jean. Underwater compressed-gas gun. 3,735,747, 5-29-73, Cl. 124-11.00a.
Bark, Nils-Eric G.; and Kordas, Karl, to International Harvester Company. Method of securing separator in clutch disc. 3,735,474, 5-29-73, Cl. 29-451.000.
Barkan, Edward D.: *See—*
Barkan, Harold; Barkan, Edward D.; and Swartz, Jerome, 3,757,322.
Barkan, Harold; Barkan, Edward D.; and Swartz, Jerome, to Hall-Barkan Instruments, Inc. Transparent touch controlled interface with interreactively related display. 3,757,322, 9-4-73, Cl. 340-365.00c.
Barkan, Robert G. Guitar-like electronic musical instrument using resistor strips and potentiometer means to activate tone generators. 3,742,114, 6-26-73, Cl. 84-1.160.
Barkelew, Richard C. Replaceable combination valve seat and flow diverter. 3,727,637, 4-17-73, Cl. 137-561.000.
Barkely, John R., to Du Pont de Nemours, E. I., and Company. Process and apparatus for control of domain walls in the ferroelastic-ferroelectric crystals. 3,732,549, 5-8-73, Cl. 340-173.200.
Barker, Allan; and Perks, Maurice Arthur, to United Kingdom Atomic Energy Authority. Liquid cooled nuclear reactor core. 3,736,225, 5-29-73, Cl. 176-40.000.
Barker, Anthony Sydney Charles: *See—*
Baker, William Albert; Barker, Anthony Sydney Charles; Holden, John James Edmund; and Winterburn, Stanley Pilkington, 3,724,252.
Barker, Charles J.; and Perry, John H., to Mead Corporation, The. Web sterilizing system. 3,750,367, 8-7-73, Cl. 53-180.000.
Barker, Donald E. Apparatus for facial stimulation. 3,709,228, 1-9-73, Cl. 128-410.000.
Barker, Eugene C.: *See—*
Anderson, Steven A.; Barker, Eugene C.; and Yang, Tung Han, 3,724,681.
Barker, Frank: *See—*
Constant, Paul C., Jr.; Hodge, Walter; Barker, Frank; and Keller, Edward S., 3,735,513.
Barker, George P.; and McKay, Cameron E. Hydraulic dredge having articulated ladder and swell compensator. 3,739,503, 6-19-73, Cl. 37-67.000.
Barker, George Paton: *See—*
McKay, Cameron Edward; and Barker, George Paton, 3,734,564.
Barker, George R. Asparagus harvester. 3,712,038, 1-23-73, Cl. 56-327.00a.
Barker, George R. Method of packing asparagus in the growing field. 3,753,736, 8-21-73, Cl. 99-100.00r.
Barker, Graham; and Gordon, Ronald H., to Witco Chemical Corporation. Pre-electric shave compositions. 3,734,858, 5-22-73, Cl. 252-90.000.
Barker, James D. Transportable container for electric cords and connectors. 3,733,478, 5-15-73, Cl. 240-2.00r.
Barker, James E., to Cities Service Company. Treatment of phosphoric acid to recover alkali metal fluosilicates. 3,714,330, 1-30-73, Cl. 423-321.000.
Barker, James E., to Cities Service Company. Manufacture of basic cupric compounds. 3,725,535, 4-3-73, Cl. 423-419.000.
Barker, James E.; and MacDonald, Howard R., to Rohr Industries, Inc. Interlocking, ring type ball bearing with seals. 3,748,002, 7-24-73, Cl. 308-174.000.
Barker, John H.; Dribelbis, Norman C.; and Stevens, Keith B., Sr., to International Business Machines Corporation. Gate mechanism for card reader. 3,779,542, 12-18-73, Cl. 271-60.000.
Barker, Joseph B., III: *See—*
Slater, Robert W.; and Barker, Joseph B., III, 3,718,973.
Barker, Joseph K. Camper. 3,752,528, 8-14-73, Cl. 296-23.00r.
Barker, Joseph K. Portable collapsible shelter. 3,768,860, 10-30-73, Cl. 297-184.000.
Barker, June N.: *See—*
Youdin, Myron; Barker, June N.; and Reich, Theobald, 3,769,966.
Barker, Lynn: *See—*
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Barker Manufacturing Company, Inc.: *See—*
Budrow, Jack C.; and Reed, Glenn A., 3,739,387.
Barker, Michael D.: *See—*
Boyce, Clive B. C.; Barker, Michael D.; and Wood, Jack, 3,709,902.
Barker, Michael D.; and Kirby, Peter, to Shell Oil Company. Insecticidal compositions and methods of combatting insects using phosphorylated 1,2,5-thiadiazoles. 3,729,557, 4-24-73, Cl. 424-200.000.
Barker, R. E., & Co., Limited: *See—*
Marsden, Geoffrey, 3,738,512.
Barker, Richard G., to Union Camp Corporation. Oxidation of sulfide pulping liquor to form polysulfide liquor in situ. 3,723,242, 3-27-73, Cl. 162-38.000.
Barker, Robert S., to Halcon International, Inc. Catalyst for hydrocarbon oxidation. 3,759,840, 9-18-73, Cl. 252-432.000.
Barker, Theodore R., II: *See—*
Koomey, Paul C.; Stivers, George S.; and Barker, Theodore R., II, 3,750,096.
Barker, Theodore R., III: *See—*
Koomey, Paul C.; Streb, Alan J.; Stivers, George S.; and Barker, Theodore R., III, 3,732,534.
Barker, Thomas Harlon; and Stenglein, Richard, to Bell Telephone Laboratories, Incorporated. Switch having twin contact operator cards. 3,745,268, 7-10-73, Cl. 200-1.000.
Barker-Coleman Company: *See—*
Day, Donald W., 3,768,059.
Barkey, Kenneth T., to Eastman Kodak Company. Poly(ethylene terephthalate) polyester with lower diethylene glycol content. 3,749,697, 7-31-73, Cl. 260-75.00r.
Barkhudarov, Eduard Mikhailovich; Kervalishvili, Nikolai Arsenovich; and Kortkhondzhia, Vladimir Parmenovich. Device for applying thin films to articles. 3,728,246, 4-17-73, Cl. 204-298.000.
Barkhuff, Warren T. Collapsible foot stool. 3,770,316, 11-6-73, Cl. 297-438.000.
Barkhurst, Ernest F., to Acme-Cleveland Corporation. Toolholder. 3,731,565, 5-8-73, Cl. 82-34.00r.
Barkley, George G.: *See—*
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Barkley, William. Submarine home. 3,708,991, 1-9-73, Cl. 61-69.000.
Barko Hydraulics, Inc.: *See—*
Bartell, Maurice J., 3,739,823.
Bartell, Maurice J., 3,752,338.
Barkov, Nikolai Konstantinovich; Kucherova, Natalya Fedorovna; Kochetkov, Nikolai Konstantinovich; Zhukova, Izida Grigorievna; and Sharkova, Nina Mikhailovna. 3,6-Dimethyl-1,2,3,4,4a,9a-hexahydro γ-carboline dihydrochloride for treating mental diseases. 3,743,740, 7-3-73, Cl. 424-267.000.
Barkow, August G. Wooden shipping containers. 3,724,701, 4-3-73, Cl. 217-65.000.
Barkow, William Henry: *See—*
Gross, Josef; and Barkow, William Henry, 3,735,299.
Barkow, William Henry; and Gross, Josef, to RCA Corporation. Deflection yoke for use with in-line electron guns. 3,721,930, 3-20-73, Cl. 335-213.000.
Barland, Lauri C., to Precision Industries, Inc., mesne. Stitching machines. 3,747,823, 7-24-73, Cl. 227-99.000.
Barland, Lauri C., to Precision Industries, Inc., mesne. Stitching head apparatus. 3,747,825, 7-24-73, Cl. 227-90.000.
Barleen, David G.: *See—*
Wong, Stephen; Wright, Louis J.; and Barleen, David G., 3,713,128.
Barley, Thomas A.: *See—*
Rast, Gustaf J., Jr.; and Barley, Thomas A., 3,760,256.
Barley, Thomas A.; and Rast, Gustaf J., Jr., to United States of America, Army. Homodyne multiplier. 3,772,584, 11-13-73, Cl. 321-60.000.
Barlow, Alan; and Campbell, James Robert, to Smiths Industries, Limited. Mounting arrangements. 3,767,058, 10-23-73, Cl. 211-41.000.
Barlow, Charles Brian; and Tomlin, Clive Dudley Spencer, to Imperial Chemical Industries Limited. Chemical compounds and compositions. 3,778,437, 12-11-73, Cl. 260-256.40n.
Barlow Corporation: *See—*
Jakacki, Wallace B., 3,755,614.

Barlow, George Edward, to Imperial Chemical Industries Limited. Production of continuous filament, non-woven webs. 3,708,365, 1-2-73, Cl. 156-181.000.

Barlow, George Edward, to Imperial Chemical Industries Limited. Fibrous sheet materials and filter elements formed therefrom. 3,769,148, 10-30-73, Cl. 161-123.000.

Barlow, Gordon A.: *See—*
Glass, Marvin I.; and Barlow, Gordon A., 3,773,330.

Barlow, Gordon A., to Glass, Marvin, & Associates. Baseball game. 3,709,494, 1-9-73, Cl. 273-89.000.

Barlow, Gordon A., to Glass, Marvin, & Associates. Marble type board game apparatus. 3,709,497, 1-9-73, Cl. 273-130.000.

Barlow, Gordon A., to Glass, Marvin, & Associates. Maze game apparatus. 3,747,930, 7-24-73, Cl. 273-113.000.

Barlow, Gordon A., to Glass, Marvin, & Associates. Doll. 3,757,465, 9-11-73, Cl. 46-135.00r.

Barlow, Gordon A.; Kramer, Norman; Brand, Derek Albert; and Imatt, Alexander, to Glass, Marvin, & Associates. System for operating miniature vehicles. 3,774,340, 11-27-73, Cl. 46-244.00a.

Barlow, Gordon A., to Glass, Marvin, & Associates. Game wit race figure movement determined by projectile progerting skill. 3,781,011, 12-25-73, Cl. 273-86.00g.

Barlow, Harry Campbell: *See—*
Buck, Raymond Herbert; and Barlow, Harry Campbell, 3,776,769.

Barlow, Joel William; Azrak, Raymond George; and Robeson, Lloyd Mahlon, to Union Carbide Corporation. Thermal stabilization of polysulfone polymers. 3,708,454, 1-2-73, Cl. 260-37.00r.

Barlow, John, to G.K.N. Group Services Limited. Production of composite materials. 3,776,612, 12-4-73, Cl. 308-238.000.

Barlow, Malcolm; and Lundquist, Jerry R., to Ampex Corporation. Duplex metallic overcoating. 3,767,369, 10-23-73, Cl. 29-194.000.

Barlow, Richard A. Expandable A-frame type trailable building structure. 3,714,746, 2-6-73, Cl. 52-69.000.

Barlow, Richard A. Parallel attachable, two story expandable, trailable building structures. 3,774,956, 11-27-73, Cl. 296-23.00g.

Barltrop, Richard Kenneth, to Elliott Brothers (London) Limited. Aircraft flight control systems. 3,708,735, 1-2-73, Cl. 318-564.000.

Barmag Barmer Maschinenfabrik Aktiengesellschaft: *See—*
Bauer, Karl; Mayer, Manfred; Illg, Peter; and Schimmel, Bernd, 3,746,233.
Grein, Hermann, 3,779,471.
Hensen, Friedhelm; Siemetzki, Hans; and Gathmann, Egon, 3,751,015.
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Mayer, Manfred; and Naydowski, Reinhard, 3,729,915.
Rehn, Karl-Heinz; and Middelmann, Heinz, 3,716,980.
Remscheid, Horst Pawel; and Ruppel, Friedrich, 3,749,536.
Schippers, Heinz; and Hensen, Friedhelm, 3,712,594.
Schippers, Heinz; Hensen, Friedhelm; and Lenk, Erich, 3,719,442.
Schippers, Heinz; Lenk, Erich; and Streppel, Herbert, 3,730,448.
Schippers, Heinz, 3,746,318.
Schippers, Heinz, 3,746,481.
Schippers, Heinz, 3,762,692.

Barman, Rolf. Method of manufacturing toothpicks. 3,716,086, 2-13-73, Cl. 144-326.00r.

Barmbold, Hermann: *See—*
Wolf, Konrad; and Barmbold, Hermann, 3,734,411.

Barmby, David S.: *See—*
Steinmetz, Ib; and Barmby, David S., 3,764,516.

Barmherzig, Sam, to Security Techniques, Inc. Ignition and hood lock assembly for automotive vehicle. 3,744,285, 7-10-73, Cl. 70-241.000.

Barna, Theodore B.; Dimmick, Roger F.; Ricklefs, Merlin J.; Schaffer, Walter S.; and Westphal, Gordon W., to International Business Machines Corporation. Machine for punching and printing document cards. 3,737,097, 6-5-73, Cl. 234-114.000.

Barnabe, Charles E., to Olin Corporation. Multiple tier horizontal diaphragm cells. 3,770,611, 11-6-73, Cl. 204-256.000.

Barnabei, Philip S.: *See—*
Durgin, George A.; and Barnabei, Philip S., 3,767,322.

Barnard, Daniel D., to Bendix Corporation, The. Fluidic timer. 3,713,456, 1-30-73, Cl. 137-81.500.

Barnard, Daniel D., to Bendix Corporation, The. Flow control device with a bistable fluid switch. 3,721,256, 3-20-73, Cl. 137-805.000.

Barnard, Daniel D., to Bendix Corporation, The. Sensing arrangement for a fluidic liquid level sensor and control means. 3,742,967, 7-3-73, Cl. 137-819.000.

Barnard, Dominic Paul Edmund, to Smiths Industries Limited. Time delay switch with improved dashpot means. 3,731,021, 5-1-73, Cl. 200-34.000.

Barnard, Douglas: *See—*
Baker, Crispin Stuart Leworthy; Barnard, Douglas; and Porter, Maurice Read, 3,775,441.

Barnard, John C. Cooling systems for internal combustion engines. 3,765,384, 10-16-73, Cl. 123-41.320.

Barnard, John Marles Herbert; Knight, Derek Ian; and Longbottom, Eric, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Apparatus for the construction of bridges. 3,750,21, 8-7-73, Cl. 14-1.000.

Barnard, Leonard: *See—*
Mallette, Gertrude E., 3,713,178.

Barnard, Mark Cary Sedgwick; and Butler, Lawrence. Thermal regenerators. 3,780,791, 12-25-73, Cl. 165-9.000.

Barnard, Mark Gary Sedgwick; and Airey, Leslie, to Secretary of State for Defence and Leyland Gas Turbines Limited. Temperature-responsive control for gas turbine engines. 3,719,041, 3-6-73, Cl. 60-39.250.

Barnard, Ralph G.: *See—*
Sherrill, Ernest Kohn; Hall, James M.; and Barnard, Ralph G., 3,745,301.

Barnard, Ronald K., to National Distillers and Chemical Corporation. Digital integrating flowmeter. 3,780,579, 12-25-73, Cl. 73-229.00r.

Barnard, Russell D.: *See—*
Berkovitz, Robert A., 3,718,773.

Barnas, Eugene F.: *See—*
Richter, Sidney B.; and Barnas, Eugene F., 3,733,414.

Barnbrook, Thomas George; and Wren, Frederick James, to Timken Company, The. Rolling bearing. 3,726,576, 4-10-73, Cl. 308-207.000.

Barnea, Daniel I.: *See—*
Bahl, Lalit R.; Barnea, Daniel I.; Grossman, David O.; and Kobayashi, Hisashi, 3,769,453.

Barnebey, Herbert L., to Barnebey-Cheney Co. Multiple fluid filter plate assembly. 3,771,661, 11-13-73, Cl. 210-240.000.

Barnebey, Herbert L., to Barnebey-Cheney Co. Fluid flow control valves. 3,773,077, 11-20-73, Cl. 137-625.280.

Barnebey-Cheney Co.: *See—*
Barnebey, Herbert L., 3,771,661.
Barnebey, Herbert L., 3,773,077.

Barner, Robert P., Jr.: *See—*
Alvarez, Joseph A.; and Barner, Robert P., Jr., 3,723,976.
Alvarez, Joseph A.; Barner, Robert P., Jr.; and Hallett, Robert J., 3,761,883.

Barner, Robert Paul; Deveer, John Anton; and Oblonsky, Jan Gustav, to International Business Machines Corporation. Memory control in a multipurpose system utilizing a broadcast. 3,771,137, 11-6-73, Cl. 340-172.500.

Barnes & Jones, Inc.: *See—*
Reid, Samuel J.; Mullett, Edward J.; and Hogan, John B., 3,725,989.

Barnes, Anthony Michael Preston, to Recording Designs Limited. Rotary drive systems. 3,777,246, 12-4-73, Cl. 318-696.000.

Barnes, Carl E., to Radiation Research Corporation. Polymers of 2-pyrrolidone. 3,721,652, 3-20-73, Cl. 260-78.00p.

Barnes, Charles E., to Carborundum Company, The. Pipe cleaning apparatus. 3,750,339, 8-7-73, Cl. 51-9.000.

Barnes, Charles M.; Kosaeski, Raymond, Jr.; and Putt, James S., to Bendix Corporation, The. Fluid level switch. 3,750,124, 7-31-73, Cl. 340-244.00e.

Barnes, Clare Earl; and Owen, Brian, to Bell Telephone Laboratories, Incorporated. Broadband circulator having multiple resonance modes. 3,714,608, 1-30-73, Cl. 333-1.100.

Barnes, Clare Earl, to Bell Telephone Laboratories, Incorporated. Resonance suppression in interdigital capacitors useful as DC bias breaks in diode oscillator circuits. 3,764,938, 10-9-73, Cl. 331-96.000.

Barnes, Claude Earnest. Three-wheel vehicle. 3,712,400, 1-23-73, Cl. 180-27.000.

Barnes, Derek; and Mathur, Vishwa N. P., to MacMillan Bloedel Limited. Method for drying materials with microwave energy. 3,775,860, 12-4-73, Cl. 34-1.000.

Barnes, Don, Ltd.: *See—*
Barnes, Thomas Donald, Jr., 3,744,215.

Barnes, Donnie G. Ladder support spacer. 3,741,510, 6-26-73, Cl. 248-229.000.

Barnes, Douglas W., to Littlcomputers, Inc. Sequential card sorting apparatus. 3,712,467, 1-23-73, Cl. 209-110.500.

Barnes Drill Co.: *See—*
Estabrook, Mark R.; and Treder, Wilfred F. W., 3,736,703.
Estabrook, Mark R., 3,777,788.

Barnes, Dwaine R., to Caterpillar Tractor Company. Bearing service tool. 3,722,057, 3-27-73, Cl. 29-200.00d.

Barnes, Edward. Meter. 3,736,890, 6-5-73, Cl. 111-7.000.

Barnes, Emmett W., to General Electric Company. Grounding clip for plug-in surface heating unit. 3,781,757, 12-25-73, Cl. 339-14.001.

Barnes Engineering Company: *See—*
Astheimer, Robert W., 3,735,127.
Astheimer, Robert W., 3,756,726.
Falbel, Gerald, 3,751,664.
Kemezys, Vincent A., 3,776,649.





McHenry, Thomas F., 3,761,318.
Schwarz, Frank, 3,760,399.
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Yoder, John R., 3,746,421.

Barnes, Estil N.: *See—*
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Barnes, Estil N.; and Collins, Harold T., to Phillips Petroleum Company. Process for preparing textured filled olefin polymer extrusions. 3,717,695, 2-20-73, Cl. 264-90.000.

Barnes, Forrest G. Electronic smoke detector. 3,710,365, 1-9-73, Cl. 340-237.00s.

Barnes, Frank S., to Patent Technology International, Inc. Quantum state memory. 3,754,988, 8-28-73, Cl. 117-212.000.

Barnes, Gene A., to Eaton Corporation. Pressure switch. 3,764,763, 10-9-73, Cl. 220-83.0sa.

Barnes, George H.: *See—*
Bacon, James R.; Barnes, George H.; and Schott, John C., 3,718,834.

Barnes, George John Preston, to International Standard Electric Corporation. AGC circuit to maintain amplification at a fixed level between speech bursts. 3,723,897, 3-27-73, Cl. 330-29.000.

Barnes, Hamilton Nigel, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Vehicle braking systems. 3,735,844, 5-29-73, Cl. 188-181.00t.

Barnes, Herbert W.: *See—*
McCauley, Thomas Vernon; Barnes, Herbert W.; and Suman, George O., Jr., 3,743,021.

Barnes, James A.; and Kesner, Donald R., to Motorola, Inc. Single ramp analog to digital converter with feedback. 3,750,142, 7-31-73, Cl. 340-347.0cc.

Barnes, James E. Lock nut drive head. 3,768,345, 10-30-73, Cl. 81-90.00b.

Barnes, James H. Meat cutting and extruding device. 3,762,658, 10-2-73, Cl. 241-82.500.

Barnes, Jeffery W.: *See—*
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Barnes, John V., to Ford Motor Company. Rear suspension system for a motor vehicle. 3,777,838, 12-11-73, Cl. 180-71.000.

Barnes, Lawrence G.: *See—*
Klaphaak, Daniel J.; and Barnes, Lawrence G., 3,720,737.

Barnes, Michael Harry, to United Kingdom Atomic Energy Authority. Preparation of noradrenaline. 3,720,582, 3-13-73, Cl. 195-30.000.

Barnes, Michael W.: *See—*
McDowell, Curtis S.; and Barnes, Michael W., 3,709,920.

Barnes, Onald R., to Mohr, John, & Sons. Poultry shackle. 3,715,026, 2-6-73, Cl. 198-177.000.

Barnes, Ralph. Apparatus for moulding helmet shells and the like. 3,712,787, 1-23-73, Cl. 425-438.000.

Barnes, Ralph W., Jr.: *See—*
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Barnes, Richard C.: *See—*
Keith, M. Robert; and Barnes, Richard C., 3,716,733.

Barnes, Richard D., to Southern Imperial, Inc. Ground cover. 3,727,347, 4-17-73, Cl. 47-32.000.

Barnes, Robert B.: *See—*
Winstead, Jordan D.; and Barnes, Robert B., 3,719,356.

Barnes, Robert E.; and Secor, Nelson A., to Bead Chain and Manufacturing Company, The. Hollow contact pin with wire wrap terminal and method of making same. 3,748,634, 7-24-73, Cl. 339-258.00r.

Barnes, Robert Keith: *See—*
Kleigman, Jonathan Morris; and Barnes, Robert Keith, 3,780,087.

Barnes, Robert L.; and Grafstein, Daniel. High temperature bis(epoxyalkyl)carborane adhesives. 3,725,176, 4-3-73, Cl. 156-330.000.

Barnes, Robert L.; Block, William M.; and Grafstein, Daniel, to Singer Company, The, mesne. Polyurethane copolymers derived from the carborane-silicon phthalocyanine monomer. 3,730,950, 5-1-73, Cl. 260-77.5aq.

Barnes, Roland C. Rate adaptive nonsynchronous demodulator apparatus for biphase binary signals. 3,737,632, 6-5-73, Cl. 235-61.11e.

Barnes, Roland O. Rate adaptive nonsynchronous demodulator apparatus. 3,760,412, 9-18-73, Cl. 340-347.0dd.

Barnes, Ronald B., to Du Pont de Nemours, E. I., and Company, mesne. Terminal applicator. 3,777,349, 12-11-73, Cl. 29-203.000.

Barnes, Roy J.; and Stroot, Donald H., to Caterpillar Tractor Company. Ejector-type refuse container. 3,759,561, 9-18-73, Cl. 294-69.00r.

Barnes, Thomas Carl; and Knapp, Malcolm Hubert, to General Electric Corporation. Emergency lubrication supply system. 3,779,345, 12-18-73, Cl. 184-6.400.

Barnes, Thomas Donald, Jr., to Barnes, Don, Ltd. Method and apparatus for cupola emission control. 3,744,215, 7-10-73, Cl. 55-83.000.

Barnes, Thomas R.; Chastain, George R.; and Wetzel, Don C., to Docutel Corporation. Credit card automatic currency dispenser. 3,761,682, 9-25-73, Cl. 235-61.70b.

Barnes, Vernon John: *See—*
Hayes, Ira Wade; and Barnes, Vernon John, 3,751,050.

Barnes, Vernon M., Jr.; and Eisenlohr, Gerald M., to Texaco Inc., mesne. Inlet port covers for reaction vehicle. 3,768,255, 10-30-73, Cl. 60-2.450.

Barnes, William A., to Robertson, H. H., Company. Aircraft hangar. 3,739,537, 6-19-73, Cl. 52-64.000.

Barnes, William R., to International Telephone and Telegraph Corporation, mesne. Steel deck insert. 3,769,774, 11-6-73, Cl. 52-698.000.

Barnes, William S. Apparatus for performing division and base conversion. 3,752,964, 8-14-73, Cl. 235-92.0ca.

Barnett, Allan E.: *See—*
Sinfelt, John H.; Barnett, Allan E.; and Carter, James L., 3,769,201.

Barnett, Allen M.; and Galginattis, Simeon V., to General Electric Company. Selective liquid phase epitaxial growth process. 3,715,245, 2-6-73, Cl. 148-171.000.

Barnett, David W.: *See—*
Reding, John T.; and Barnett, David W., 3,721,618.
Riggs, Olen L., Jr.; and Barnett, David W., 3,714,004.

Barnett, Edward M. Periodontal and dental cleanser and periodontal stimulator. 3,775,848, 12-4-73, Cl. 132-89.000.

Barnett, Erwin M.: *See—*
Esposito, Vincent J., Jr., 3,778,054.

Barnett, Eugene J.; and Shreffler, Wesley E., to Westinghouse Electric Corporation. Shutter arrangement for windowed door of heat cleaning oven. 3,720,196, 3-13-73, Cl. 126-197.000.

Barnett, Glenroy W.: *See—*
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Barnett, Irvin: *See—*
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Barnett, Irvin; and Peters, Walter B., to Johns-Manville Corporation. Glass fiber friction element. 3,743,069, 7-3-73, Cl. 192-107.00m.

Barnett, Irvin. Extruded asbestos yarn for paper dryer felts. 3,759,027, 9-18-73, Cl. 57-140.0by.

Barnett, Irvin, to Johns-Manville Corporation. Fiber glass groove packing. 3,771,305, 11-13-73, Cl. 57-140.00g.

Barnett, J. Sterling: *See—*
Felder, John W., Jr.; and Barnett, J. Sterling, 3,736,215.

Barnett, James H., Jr.: *See—*
Radnofsky, Matthew I.; Barnett, James H., Jr.; Harrison, Floyd L.; and Marak, Ralph J., 3,736,607.

Barnett, John E., to Stryker Corporation. Pneumatically powered device. 3,734,652, 5-22-73, Cl. 418-70.000.

Barnett, Karl F., to Cadillac Products, Inc. Bag dispenser. 3,718,251, 2-27-73, Cl. 206-47.00r.

Barnett, Louis H. Apparatus for precision bending of plastic pipe. 3,753,635, 8-21-73, Cl. 425-162.000.

Barnett, Morris A.: *See—*
Schinnerer, Roy L.; Silver, Alexander; Sladek, Leonard T.; and Barnett, Morris A., 3,740,163.

Barnett, Ray V. Harness racing sulky. 3,771,810, 11-13-73, Cl. 280-63.000.

Barnett, Ronald R.; and Drach, Deorge, Jr., to General Motors Corporation. Occupant restraint system. 3,774,936, 11-27-73, Cl. 280-150.0ab.

Barnett, Roy F.; Levy, Warren W.; and Simons, Dolph, to Simco Company, Inc., The. Electrostatic discharge devices with high temperature arc resistance. 3,735,198, 5-22-73, Cl. 317-2.00f.

Barnett, Thomas G. Baseball practice device. 3,729,194, 4-24-73, Cl. 273-26.00e.

Barnette, Bert W.: *See—*
Merkel, Charles M.; and Barnette, Bert W., 3,747,985.

Barnette, Stanley Ronald. Method of making plastic article with a substantially enveloped core. 3,761,554, 9-25-73, Cl. 264-69.000.

Barneveld, Dirk: *See—*
Dikhoff, Johannes Aloysius Maria; De Boer, Franciscus Jacobus; and Barneveld, Dirk, 3,763,050.

Barnewald, Rudolf: *See—*
Barten, Hans; Barnewald, Rudolf; and Hanich, Werner, 3,718,197.

Barney, Jan Alan. Modular slidable member and mounting bracket combination. 3,729,242, 4-24-73, Cl. 312-107.000.

Barney, John J.; and Flanagan, James L., to Leesona Corporation. Apparatus for extruding plastic material. 3,743,143, 7-3-73, Cl. 222-145.000.

Barney, Trentis E.; and Clark, Alexander Jay. Golf swing practice device. 3,708,175, 1-2-73, Cl. 273-196.000.

Barnhard, Philip, IV. Seismographic device. 3,730,289, 5-1-73, Cl. 181-.5nc.

Barnhardt, Lyall F.; and Whitmore, Bruce C. Method of producing a killed steel. 3,769,004, 10-30-73, Cl. 75-129.000.

Barnhardt, Robert W.; and Grubbs, William J., to Zellweger AG. Method and apparatus for the continuous withdrawal of samples

from industrial process baths or the like for analysis. 3,733,906, 5-22-73, Cl. 73-421.00b.

Barnhart, Charles Calvin, to Clear Pack Company. Apparatus for forming an embossed thermoplastic sheet. 3,709,647, 1-9-73, Cl. 425-224.000.

Barnhart, James H.: *See—*
Gambs, Gerard C.; Nix, William H.; Barnhart, James H.; and Cathcart, John G., 3,778,239.

Barnhart, Robert E.; and Doerger, Henry L., to Procter & Gamble Company, The. Transfer and accumulating apparatus. 3,762,582, 10-2-73, Cl. 214-16.40r.

Barnhart, Robert R.: *See—*
Kindle, Robert W.; Barnhart, Robert R.; and Paul, Philip T., 3,728,192.

Barnhill, Charles W.: *See—*
Ponder, Billy W.; and Barnhill, Charles W., 3,739,004.

Barnikol-Oettler, Kurt: *See—*
Hartmann, Werner; Barnikol-Oettler, Kurt; and Teichmuller, Gerhard, 3,743,636.

Barnowski, Henry G., Jr.: *See—*
Clarke, Gail H., Jr.; and Barnowski, Henry G., Jr., 3,762,953.

Barnstead, John W.; and Wiseman, Everett D., to Vernco Corporation. Cooling means for motor of a wet pick-up vacuum sweeper. 3,730,642, 5-1-73, Cl. 417-424.000.

Barnstead, John W., to Vernco Corporation. Flexible fan. 3,758,231, 9-11-73, Cl. 416-132.000.

Barnstorf, Joachim, to Henkel & Cie G.m.b.H. Process for the production of hydroxy-fatty acid esters. 3,778,465, 12-11-73, Cl. 260-409.000.

Barnum, John J.; deceased (by Kieffer, James M.; assignee), to Sybron Corporation. Washing machine transfer valve. 3,760,825, 9-25-73, Cl. 134-560.000.

Barnum, Phillip R., to Breene, James D. System for changing the output response characteristics of an acoustic input. 3,719,782, 3-6-73, Cl. 179-1.00j.

Barnum, Thomas G., to General Motors Corporation. Lamp failure indicator for a dual-filament lamp. 3,710,367, 1-9-73, Cl. 340-251.000.

Barnum, Viola Hall, to Lee, Raymond, Organization, Inc., The. Pet sanitary litter facility. 3,762,369, 10-2-73, Cl. 119-1.000.

Barodyne, Inc.: *See—*
Silvern, David Harold; and Minton, Stanley J., 3,741,676.
Silvern, David Harold; and Minton, Stanley J., 3,741,677.

Baron, Andrew, Limited: *See—*
Hardaker, Fred, 3,762,613.

Baron, Frank A.; and Benner, Roland G., to Mallinckrodt Chemical Works. Purification of p-aminophenol. 3,717,680, 2-20-73, Cl. 260-575.000.

Baron, Frank A., to Mallinckrodt Chemical Works. Method of purification of N-acetyl-p-aminophenol. 3,748,358, 7-24-73, Cl. 260-562.00p.

Baron, Gerhard; Bechthold, Horst; and Liebgott, Helmut, to Metallgesellschaft Aktiengesellschaft. Process for gasifying heavy hydrocarbons. 3,726,654, 4-10-73, Cl. 48-215.000.

Baron, Jean. Automatic repertory telephone dialer utilizing magnetic memory storage. 3,712,960, 1-23-73, Cl. 179-90.0bb.

Baron, Melvin L.: *See—*
Weidlinger, Paul, 3,755,980.

Baron, Robert J.: *See—*
Crawford, Irvin H.; Democh, Roger E.; and Baron, Robert J., 3,755,069.

Baron, Robert Richard: *See—*
Welch, Dean Earl; and Baron, Robert Richard, 3,743,745.

Baron, Seymour, to Fine Organics, Inc. Production of N-alkylated amines. 3,732,311, 5-8-73, Cl. 260-583.00r.

Baron, Stanley N., to Columbia Broadcasting System, Inc. Character generating apparatus for television tilting. 3,740,743, 6-19-73, Cl. 340-324.00a.

Baron, Stanley N.; and Kreinik, Stephen, to Columbia Broadcasting System, Inc. Method and apparatus for generating self contrasting character images. 3,781,849, 12-25-73, Cl. 340-324.0ad.

Barone, Bruno J.: *See—*
Croce, Louis J.; and Barone, Bruno J., 3,708,531.
Croce, Louis J.; and Barone, Bruno J., 3,714,243.
Croce, Louis J.; and Barone, Bruno J., 3,715,390.

Barone, Bruno J.; and Croce, Louis J., to Petro-Tex Chemical Corporation. Promotion of the oxidation of mononuclear aromatic compounds. 3,715,391, 2-6-73, Cl. 260-523.00a.

Barone, Bruno J.; and Croce, Louis J., to Petro-Tex Chemical Corporation. Promotion of the oxidation of mononuclear aromatic compounds. 3,723,515, 3-27-73, Cl. 260-523.00a.

Barone, Bruno J.; and Croce, Louis J., to Petro-Tex Chemical Corporation. Promotion of the oxidation of mononuclear aromatic compounds. 3,723,518, 3-27-73, Cl. 260-524.00r.

Barone, Bruno J.; and Brill, William F., to Petro-Tex Chemical Corporation. Production of cyclic acetals. 3,725,438, 4-3-73, Cl. 260-340.900.

Barone, Frank J.; and Tolliver, Donald L., to Motorola, Inc. Method of forming integrated circuits utilizing low resistance values, low temperature deposited oxides and shallow junctions. 3,759,762, 9-18-73, Cl. 148-187.000.

Barone, Larry F., Jr.; Patterson, Paul E.; and Shade, Ross A., said Patterson assor. to Mobil Oil Corporation and said Barone and said Shade assors. to ADEC Corporation. Method and apparatus for monitoring fluid flow systems. 3,723,987, 3-27-73, Cl. 340-24.000.

Barough, Victor; and Glenn, Robert. Typewriter correction ribbon and process of manufacture. 3,752,291, 8-14-73, Cl. 197-172.000.

Barouh, Victor; and Glenn, Robert. Correction material and method for the manufacture thereof. 3,776,756, 12-4-73, Cl. 117-36.400.

Barows, Arthur G.; and Parrish, Edward W., to International Harvester Company. Rowless crop harvester. 3,742,689, 7-3-73, Cl. 56-226.000.

Barozzi, Gian Piero: *See—*
Koshi, Ryoichiro; Barozzi, Gian Piero; and Horeschi, Giancarlo, 3,741,470.

Barozzi, Gian Piero; and Horeschi, Giancarlo, to Citizen Watch Co., Ltd. Division control mechanism. 3,722,795, 3-27-73, Cl. 235-62.00f.

Barr, Charles A.: *See—*
Seiden Myron A.; and Barr, Charles A., 3,774,512.

Barr, Charles R.; and Pfaff, Maurice, to Eastman Kodak Company. Complexed p-phenylene diamine containing photographic element and development process therefor. 3,719,492, 3-6-73, Cl. 96-55.000.

Barr, Charles Robert, to Eastman Kodak Company. Photographic compositions and elements comprising coupling compounds which on development release silver halide-complexing materials and dyes. 3,733,201, 5-15-73, Cl. 96-100.000.

Barr, Donald E.: *See—*
Loprest, Frank J.; and Barr, Donald E., 3,744,904.

Barr, Floyd A. Sack cutting attachment for a material receiving hopper. 3,724,721, 4-3-73, Cl. 222-83.500.

Barr, Frederick J., Jr., to Petty Geophysical Engineering Company. Method and apparatus for increasing seismic signal-to-noise ratio. 3,736,556, 5-29-73, Cl. 340-15.5ec.

Barr, Irwin R., to AAI Corporation. Piston primer cartridge with improved one piece primer. 3,744,420, 7-10-73, Cl. 102-38.000.

Barr, James W.: *See—*
Gitchel, Wayne B.; Diddams, Donald G.; and Barr, James W., 3,755,456.

Barr, John Edward, to International Telephone and Telegraph Corporation. Electrical socket adaptor member. 3,777,285, 12-4-73, Cl. 339-17.0cf.

Barr, Paul N.; Wilkinson, Lester; and Neal, Stuart M., to General Motors Corporation. Electronic fuel injection system having deceleration fuel control. 3,731,659, 5-8-73, Cl. 123-32.0ea.

Barr, William A.; Hahlbeck, Edwin C.; and Heine, Ferdinand L., to Milwaukee Gear Company. Gear structure and method of making the same. 3,718,052, 2-27-73, Cl. 74-462.000.

Barr, William H. Torque limiting clutch. 3,727,732, 4-17-73, Cl. 192-26.000.

Barr-Stalfort Company: *See—*
Cunningham, Ernest R., 3,709,410.

Barr-Stalfort Company; division of Pittway Corporation: *See—*
Cunningham, Ernest R.; and Dodson, Marshall, 3,745,741.

Barrabas, Fritz, to Westfalische Bergewerkschaftskasse. Educational system for questioning a plurality of pupils simultaneously. 3,716,929, 2-20-73, Cl. 35-48.00r.

Barrachina, Antonio Vila-Coro: *See—*
Roldan, Cristobal Martinez; Brana, Miguel Fernandez; and Barrachina, Antonio Vila-Coro, 3,764,594.

Barracudaverken AB: *See—*
Johansson, Sven-Goran, 3,733,606.
Larsson, Erik Johan, 3,757,526.

Barradas, George, to Venus Electric Limited. Implement for setting hair. 3,768,491, 10-30-73, Cl. 132-36.00r.

Barrager, Stephen M.; and Smith, Sidney H., to International Business Machines Corporation. Method and apparatus for testing batch fabricated magnetic heads during manufacture utilizing a magnetic filed generated by a current carrying conductor. 3,710,23, 1-9-73, Cl. 324-34.00r.

Barrat, Christian: *See—*
Adam, Wolfgang E.; and Barrat, Christian, 3,773,674.

Barratt, John, to Simon-Vicars Limited. Oven control. 3,721,805, 3-20-73, Cl. 219-492.000.

Barratt, Robert O.: *See—*
Polcer, John; Barratt, Robert O.; and Musterer, Allan E., 3,741,167.

Barratt, Robert O.; and Connell, John M., to Foster Wheeler Corporation. Protected pressure release valve. 3,710,556, 1-16-73, Cl. 55-210.000.

Barratt, Robert O., to Foster Wheeler Corporation. Sodium-heated steam generator. 3,741,164, 6-26-73, Cl. 122-32.000.

Barratt, William C. Apparatus for producing cement sheets. 3,773,447, 11-20-73, Cl. 425-86.000.

Barratt, William C. Apparatus for producing cement sheets. 3,778,206, 12-11-73, Cl. 425-86.000.



Barraud, Pierre, to Industrialized Systems Corporation. Modular multiple-unit building construction. 3,772,834, 11-20-73, Cl. 52-79.000.

Barraya, Pierre Charles Henri. Showcase. 3,760,521, 9-25-73, Cl. 40-152.000.

Barre, Marcel Jean Charles, to Societe Sucriere de l'Atlantique (Engineering). Apparatus for drying liquid-impregnated fibrous or spongy materials, especially sugar-cane bagasse. 3,762,314, 10-2-73, Cl. 100-121.000.

Barreca Products Co.: *See—*
Penniman, Robert, 3,721,373.

Barreca Products Co.; subsidiary of Shelburne Industries, Inc.: *See—*
Penniman, Robert, 3,712,522.

Barrell, John M.; and Moreland, Michael L. Building structure. 3,747,290, 7-24-73, Cl. 52-90.000.

Barrera, Roberto Gonzalez: *See—*
Rubio, Manuel J., 3,709,696.
Rubio, Manuel Jesus, 3,730,732.
Rubio, Manuel Jesus; and Leal, Victor Mario, 3,750,467.

Barrera, Salvatore E., to Wilkes Pool Corporation. Filter unit and filtrate collector therefor. 3,747,768, 7-24-73, Cl. 210-288.000.

Barrera, Salvatore E., to Wilkes Pool Corporation. Adapter for a valve and tank assembly. 3,756,275, 9-4-73, Cl. 137-590.000.

Barrere, Clem A., Jr.; and Casad, Burton M., to Continental Oil Company. Process for recovering condensible components from a gas stream. 3,713,272, 1-30-73, Cl. 55-33.000.

Barrere, Clem A., Jr., to Continental Oil Company. Adsorption process for recovering adsorbable components from a multi-component gas stream. 3,733,775, 5-22-73, Cl. 55-28.000.

Barrere, John A., Jr.: *See—*
Stratta, Julius J.; Frank, Carl W.; and Barrere, John A., Jr., 3,736,288.

Barret, Jean Pierre; Jourdan, Gerard; and Harbonn, Jacques, to Institut Francais du Petrole, des Carburants et Lubrifiants. Process of high reliability for communications between a master installation and secondary installations and device for carrying outthis process. 3,717,844, 2-20-73, Cl. 340-5.00r.

Barret, Jean Pierre; Monnot, Max; and Trognee, Jacques, to Institut Francais du Petrole des Carburants et Lubrifiants. Method based on the doppler effect for determining the distances travelled over by a vehicle and device for practising said method. 3,719921, 3-6-73, Cl. 340-3.00d.

Barret, Jean-Pierre; Therond, Jean-Francois; and Harbonn, Jacques, to Institut Francais du Petrole, des Carburants et Lubrifiants. Method for determining the distance between a vessel and a reference point and device for carrying out this method. 3,745,518 7-10-73, Cl. 340-3.00e.

Barret, Jean-Pierre; and Monnot, Max, to Institut Francais du Petrole, des Carburants et Lubrifiants. Method for determining the distance travelled over by a vehicle with respect to a reference surface and device for practising said method. 3,745,520, 7-1073, Cl. 340-3.00d.

Barrett, A. Lee. Direct contact food freezer. 3,768,272, 10-30-73, Cl. 62-60.000.

Barrett, Burton M.; and Franks, Buyrl A., to Lowrance Electronics Mfg. Corporation. Light shield for an indicating instrument. 3,747,413, 7-24-73, Cl. 73-431.000.

Barrett, Carl R., Jr.; Feeney, James E.; Goldstein, Abe; and Racine, Raymond F., to North American Rockwell Corporation. Multiple frequency radar system having improved response to small targets. 3,745,578, 7-10-73, Cl. 343-17.20r.

Barrett, Charles D., Jr., to Burdett Oxygen Co. of Cleveland, Inc. Cryogenic deflashing apparatus and operating system for same. 3,728,825, 4-24-73, Cl. 51-164.000.

Barrett, Edward E.: *See—*
Olney, Nathaniel M.; Hurkmans, Antoon M.; Barrett, Edward E.; and Leff, Martin J., 3,758,016.

Barrett Electronics Corporation: *See—*
Fernstrom, Henry C., 3,759,403.

Barrett, Fred O.: *See—*
Sturwold, Robert J.; and Barrett, Fred O., 3,769,215.

Barrett, Frederick B.; Nielsen, Peter A.; and Hrabe, Delmer W., to United States of America, Navy. Redeye missile gunner stanchion. 3,720,394, 3-13-73, Cl. 248-125.000.

Barrett, Gilbert R. Game apparatus. 3,747,934, 7-24-73, Cl. 273-135.00e.

Barrett, Harrison H., to Raytheon Company. Imaging system utilizing sparial. 3,748,470, 7-24-73, Cl. 250-363.000.

Barrett, Hugh C.: *See—*
Ross, Donald L.; Barrett, Hugh C.; and McDonald, Gerald J., 3,763,190.

Barrett, Jack H. Teaching or training aid system. 3,751,825, 8-14-73, Cl. 35-6.000.

Barrett, John C.; Bergh, Arndt B.; Price, John E.; and Hornak, Tomas, to Hewlett-Packard Company. Integrated circuit read only memory bit organized in coincident select structure. 3,721,964, 3-20-73, Cl. 340-173.0sp.

Barrett, John H., Jr., to Purex Corporation, Ltd. Laundry prespotter composition. 3,741,902, 6-26-73, Cl. 252-90.000.

Barrett, John H., Jr. Stable liquid enzyme product. 3,746,649, 7-17-73, Cl. 252-170.000.

Barrett, John P., Jr. Footwear article and method for facilitating walking. 3,739,501, 6-19-73, Cl. 36-11.500.

Barrett, Lawrence G., to American Novawood Corporation, The. Methods for producing plastic composite materials. 3,721,579, 3-20-73, Cl. 117-93.310.

Barrett, Paul Anthony. Substituted glyoxal dithiosemicarbazones. 3,709,935, 1-9-73, Cl. 260-552.0sc.

Barrett, Richard C., to Allied Chemical Corporation. Cross-linking agents for paper binders and paper coated therewith. 3,758,324, 9-11-73, Cl. 106-146.000.

Barrett, Robert C., to Chemical Products Corporation. Carbonate composition and process. 3,738,938, 6-12-73, Cl. 252-188.30r.

Barrett, Ronald E., to Calmor of El Paso, Inc. Bi-polar phase detector. 3,771,063, 11-6-73, Cl. 328-134.000.

Barrie, Gilbert. Large scale integrated circuit of reduced area including counter. 3,771,030, 11-6-73, Cl. 317-235.00r.

Barrier, Miller M., to Schlumberger Technology Corporation. Wire guide for a cabling machine. 3,732,680, 5-15-73, Cl. 57-58.340.

Barriere, Alain; and Germain, Gerard, to Automobiles Peugeot and Regie Nationale des Usines Renault. Mechanism for adjusting the position and folding down the backrest of a seat and a seat, in particular for an automobile vehicle, including said mechanism 3,727,978, 4-17-73, Cl. 297-369.000.

Barriere, Georges J. J.; and Dalbera, Michel Rene Joseph, to International Standard Electric Corporation. Surveillance doppler radars. 3,717,874, 2-20-73, Cl. 343-7.0ed.

Barriere, Georges J. J.; and Dalbera, Michel Rene J., to International Standard Electric Corporation. Runway traffic surveillance device. 3,760,416, 9-18-73, Cl. 343-7.0ed.

Barrigher, Charles J.; Devlin, Charles L.; and Malone, Paul E., to General Electric Company. Variable rate load setback circuit. 3,748,491, 7-24-73, Cl. 307-149.000.

Barrineau, Wade H.; and Osborne, Anthony, to Southern Cross Industries, Inc. Ladder rack. 3,722,766, 3-27-73, Cl. 224-42.10f.

Barringer, Anthony Rene, to Barringer Research Limited. Method and apparatus for geochemical surveying. 3,759,617, 9-18-73, Cl. 356-36.000.

Barringer, Anthony Rene, to Barringer Research Limited. Geophysical exploration method using the vertical electric component of a VLF field as a reference. 3,763,419, 10-2-73, Cl. 324-6.000.

Barringer, Anthony Rene, to Barringer Research Limited. Method and apparatus for sensing substances by analysis of adsorbed matter associated with atmospheric particulates. 3,768,302, 10-30-73, Cl. 73-28.000.

Barringer Research Limited: *See—*
Barringer, Anthony Rene, 3,759,617.
Barringer, Anthony Rene, 3,763,419.
Barringer, Anthony Rene, 3,768,302.

Barriva, Raoul M. Refrigeration booster. 3,779,029, 12-18-73, Cl. 62-138.000.

Barrner, Dan Johannes: *See—*
Ljung, Hans Glorg; Barrner, Dan Johannes; and Grellsson, Karl Gustav, 3,745,965.

Barron, Charles D., to Jackson, Byron, Inc. Displacement control system for hoist apparatus. 3,753,552, 8-21-73, Cl. 254-172.00r.

Barron, Charles Dwain; Geczy, Bela; and Wilms, Carl Alfred, to Jackson, Bryon, Inc. Power tong positioning apparatus. 3,780,815, 12-25-73, Cl. 173-43.000.

Barron, Ellis. Flectrum operating means. 3,777,612, 12-11-73, Cl. 84-258.000.

Barron, Frank C.: *See—*
Walker, Paul J.; Barron, Frank C.; and Walker, Philip F., 3,768,963.

Barron, Morris, to United States of America, Navy. Antenna pattern simulator. 3,727,137, 4-10-73, Cl. 325-67.000.

Barron, Richard H.: *See—*
Norman, Robert M.; and Barron, Richard H., 3,771,604.

Barron, Rodger W.; Fellers, Paul J.; and Huggart, Richard L., to Citrus State of Florida, Department of. Process for the production of naturally occurring coloring material from citrus fruit and the product thereof. 3,725,083, 4-3-73, Cl. 99-105.000.

Barron, William J., to Graphic Electronics, Inc. Engraving machine. 3,716,668, 2-13-73, Cl. 178-6.60b.

Barrot, Jean-Pierre; Negrou, Jacques; and Pelte, Charles, to Commissariat a l'Energie Atomique. Time interval analyzer. 3,725,785, 4-3-73, Cl. 324-188.000.

Barrow, George E. Removing contaminants from a fluid stream. 3,756,412, 9-4-73, Cl. 210-180.000.

Barrow, Gilbert C.: *See—*
Massa, Frank; and Barrow, Gilbert C., 3,752,941.

Barrow, Gilbert C., to Massa Division, Dynamics Corporation of America. Piezoelectric transducer having spider-like frame structure. 3,716,681, 2-13-73, Cl. 179-110.00a.

Barrow, Gilbert C., to Massa Division Dynamics Corporation of America. Electroacoustic transducers. 3,736,555, 5-29-73, Cl. 340-8.000.

Barrow, Gilbert C., to Massa Division, Dynamics Corporation of America. Method of making an electroacoustic transducer. 3,736,632, 65-73, Cl. 29-25.350.

Barrow, Gilbert C., to Massa Division, Dynamics Corporation of America. Method for adjusting the resonant frequency and motional electrical impedance of a vibrating diaphram electroacoustic transducer. 3,777,192, 12-4-73, Cl. 310-8.100.

Barrow, Robert B.; Smith, Matthew F.; and Sink, Larry W., to United Aircraft Corporation. Method and apparatus for producing single crystal castings using a consumable electrode. 3,759,310, 9-18-73, Cl. 164-52.000.

Barrows, Guy G. Electric signal for fishing. 3,711,847, 1-16-73, Cl. 340-279.000.

Barrows, Robert E., to Chicago Pneumatic Tool Company. Vibrator unit for testing a motor vehicle for rattles and squeaks. 3,748,896, 7-31-73, Cl. 73-71.500.

Barry, Arthur J.; and Barry, Lawrence J. Pressurized beverage container with twist removable cover. 3,721,361, 3-20-73, Cl. 215-50.000.

Barry, Brian: *See—*
Moore, Christopher John; and Barry, Brian, 3,730,639.

Barry, Claude; and Ratte, Patrice, to Institut de Recherches de la Siderurgie Francaise. Method and apparatus for establishing the firing temperature curve of a sintering charge. 3,779,077, 12-18-73, Cl. 73-341.000.

Barry, Gerald P.: *See—*
Kanengieter, Glenn G.; and Barry, Gerald P., 3,748,840.

Barry, Henry F.: *See—*
Khuri, Albert; Barry, Henry F.; and Hallada, Calvin J., 3,763,303.
Moore, Fred W.; Robitaille, Dennis R.; and Barry, Henry F., 3,726,694.

Barry, James D.; and Boney, William E., to United States of America, Air Force. Carbon monoxide laser by acetylene oxidation. 3,781,713, 12-25-73, Cl. 331-94.500.

Barry, Lawrence J.: *See—*
Barry, Arthur J.; and Barry, Lawrence J., 3,721,361.

Barry, Michael L.: *See—*
Tucker, Ross N.; and Barry, Michael L., 3,736,193.

Barry, Richard J.: *See—*
Paananen, Eugene E.; Csengery, Ladislao C.; and Barry, Richard J., 3,764,087.

Barry, Robert J. Method and apparatus for loading trucks. 3,759,405, 9-18-73, Cl. 214-38.00d.

Barry, Robert Lionel. Electric outlet box mounting. 3,710,972, 1-16-73, Cl. 220-3.600.

Barry-Wehmiller Company: *See—*
Babunovic, Momir, 3,710,918.
Babunovic, Momir; and Faant, Siamac, 3,735,144.
Huling, James K., 3,762,652.

Barsamian, Harut, to National Cash Register Company, The. Firmware sort processor system. 3,713,107, 1-23-73, Cl. 340-172.500.

Barsby, James B.: *See—*
Pitesky, Isadore; and Barsby, James B., 3,776,227.

Barsby, Noel, to Gibbons Brothers Limited. Kiln cars. 3,759,661, 9-18-73, Cl. 432-241.000.

Barsky, George. Direct interesterification of glycerides of fatty acids and products thereof. 3,758,530, 9-11-73, Cl. 260-410.700.

Barson, Clifford Ward, to Dunlop Limited. Tire testing machine. 3,779,073, 12-18-73, Cl. 73-146.000.

Barson, Fred: *See—*
Bardell, Paul H., Jr.; Barson, Fred; Benjamin, Charles E.; and Pecoraro, Raymond P., 3,728,166.

Barsotti, Leo R., to Kaiser Aluminum & Chemical Corporation. Direct conversion of dawsonite to pseudoboehmite. 3,739,062, 6-12-73, Cl. 423-625.000.

Barstow, Glidden J.: *See—*
Geller, Myer; Altman, Daniel E.; and Barstow, Glidden J., 3,758,805.

Barstow, Ormond E., to Dow Chemical Company, The. Refractometer. 3,738,757, 6-12-73, Cl. 356-131.000.

Barstow, Ormond E.; and Parth, William H., to Dow Chemical Company, The. Coulometric analyzer. 3,761,376, 9-25-73, Cl. 204-195.00r.

Barsukov, Mikhail Ivanovich: *See—*
Bogrets, German Nikolaevich; Bondar, Nikolai Pavlovich; Sizonenko, Grigory Alexandrovich; Minakov, Anatoly Gavrilovich; Barsukov, Mikhail Ivanovich; Mitkevich, Grigory Iosifovich; Dudkin, Vyacheslav Fedorovich; Teslya, Andrei Mikhailovich; and Kolomiets, Nkolai Emelyanovich, 3,740,207.

Bart, Philip D.: *See—*
Waznys, Peter J.; and Bart, Philip D., 3,720,019.

Bart, Ronald K.; and Kiovsky, Joseph R., to Norton Company. Catalyst and catalyst carrier composition. 3,736,267, 5-29-73, Cl. 252-466.000.

Bart, Seymour H.: *See—*
Lanphere, Gerald B.; Bart, Seymour H.; and Armstrong, Jack W., 3,710,922.

Bart, Victor R., to United States Steel Corporation. Apparatus for detecting conductive material utilizing a vapor controlled lamp. 3,739,267, 6-12-73, Cl. 324-71.00r.

Barta, Franz; and Grupp, Alfred F., to Meyercord Co., The. Web processing apparatus. 3,737,088, 6-5-73, Cl. 226-119.000.

Barta, Franz; and Grupp, Alfred F., to Meyercord Co., The. Web processing apparatus. 3,737,091, 6-5-73, Cl. 226-193.000.

Barta, Karl; and Pritcheet, Wilson S. Electrical power measuring device. 3,775,683, 11-27-73, Cl. 324-142.000.

Bartalini, Gastone; Brischetto, Nedo; and Giuggioli, Mario, to Societe Rhodiaceta. Process for oxidizing cycloaliphatic hydrocarbons in the liquid phase and relevant apparatus. 3,711,557, 1-16-73, Cl. 260-617.00h.

Barteck, Werner W., to Rehkopf Industries, Inc. Locking material-handling tray. 3,777,885, 12-11-73, Cl. 206-72.000.

Bartee, Charles E.: *See—*
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Emerson, Paul D.; Davis, S. Jack; Oatfield, John C.; Engelman, Fred H.; and Bartee, Charles E., 3,719,212.

Bartel, Charles F., Jr., to Vexilar, Inc. Circuit for water depth meter. 3,764,962, 10-9-73, Cl. 340-3.00r.

Bartelink, Dirk Jan; and Persky, George, to Bell Telephone Laboratories, Incorporated. Planar semiconductor device utilizing confined charge carrier beams. 3,714,473, 1-30-73, Cl. 307-299.000.

Bartelink, Dirk Jan; and Persky, George, to Bell Telephone Laboratories, Incorporated. Semiconductor devices utilizing geometrically controllable current filaments. 3,737,741, 6-5-73, Cl. 317-235.00r.

Bartell, Charles: *See—*
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Bartell, Maurice J., to Berko Hydraulics, Inc. Device for positioning liner plates upon the interior surface of a drum for securement thereto. 3,716,153, 2-13-73, Cl. 214-91.000.

Bartell, Maurice J., to Barko Hydraulics, Inc. Device for cutting tree stumps. 3,739,823, 6-19-73, Cl. 144-2.00n.

Bartell, Maurice J., to Barko Hydraulics, Inc. Device for lining a drum with liner plates. 3,752,338, 8-14-73, Cl. 214-147.00t.

Bartels, Friedrich. Wall structures. 3,733,765, 5-22-73, Cl. 52-474.000.

Bartels, Friedrich. Load bearing structure. 3,752,089, 8-14-73, Cl. 108-161.000.

Bartels, Herbert D., to Continental Can Company, Inc. Method of making stress relieved containers. 3,718,107, 2-27-73, Cl. 113-116.00w.

Bartels, Herbert D., to Continental Can Company, Inc. Score edge protection. 3,744,668, 7-10-73, Cl. 220-54.000.

Bartels, Philip R.: *See—*
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Bartels, Ulrich: *See—*
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Barten, Hans; Barnewald, Rudolf; and Hanich, Werner, to Klockner-Humboldt-Deutz Aktiengesellschaft. Conveyor belt weighing device. 3,718,197, 2-27-73, Cl. 177-16.000.

Barten, Piet Gerard Joseph; and Bathelt, Robert Richard, to U.S. Philips Corporation. Exposure device for manufacturing a display screen of a colour television picture tube. 3,738,234, 6-12-73, Cl. 95-1.00r.

Barten, Piet Gerard Joseph; and Ferguson, Eric Tapley, to U.S. Philips Corporation. Exposure device for manufacturing a display screen of a colour television display tube. 3,780,629, 12-25-73, Cl. 95-1.00r.

Barten, William R.: *See—*
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Bartenbach, Louis: *See—*
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Barter, James A., to PPG Industries, Inc. Liquid dialkyl peroxydicarbonate composition. 3,775,341, 11-27-73, Cl. 252-426.000.

Barter, Le Roy D., to Beckman Instruments, Inc. Digital integrator for evaluating operator selected portions of analog chart traces. 3,767,899, 10-23-73, Cl. 235-61.60a.

Bartera, Ralph E.: *See—*
Miller, Charles G.; and Bartera, Ralph E., 3,736,453.

Barth, David E.: *See—*
Petzon, Arthur R.; Conway, James M.; and Barth, David E., 3,716,876.

Barth, David Edward, to Sybron Corporation. Overbed table. 3,715,997, 2-13-73, Cl. 108-146.000.

Barth, Gerhard: *See—*
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Barth, Henry V., to International Business Machines Corporation. Ultrasonic magnetic surface finisher. 3,771,939, 11-13-73, Cl. 425-385.000.

Barth, Lothar: *See—*
Messner, Sigfried; Depmeyer, Lothar; Barth, Lothar; Graup, Josef; and Rhein, Stein A., 3,750,310.





Barth, Ross E.: *See—*
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Barth, Wayne E., to Pfizer, Inc. 2-Hydroxymethyl-3-hydroxy-6-(1-hydroxy-2-[3, 4-methylenedioxyphenylalkylamino]ethyl)pyridines. 3,763,173, 10-2-73, Cl. 260-296.00b.

Barth, Wayne E., to Pfizer, Inc. 2-Hydroxymethyl-3-benzyloxy-6-pyridinecarboxaldehyde, intermediate for preparing bronchodilators. 3,772,314, 11-13-73, Cl. 260-297.00r.

Barthalon, Maurice: *See—*
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Barthalon, Maurice; Moiroux, Auguste; and Watson, Patrick. Electromagnetic motion imparting means and transportor system embodying the same. 3,707,924, 1-2-73, Cl. 104-148.01m.

Barthalon, Maurice. System for establishing a pneumatic connection between an object and a wall. 3,727,715, 4-17-73, Cl. 180-118.000.

Barthalon, Maurice. Beam-track assembly for air-lift or magnetic-lift vehicles. 3,738,280, 6-12-73, Cl. 104-231.00s.

Barthalon, Maurice; Moiroux, Auguste; and Watson, Patrick. Electromagnetic motion imparting means and transporter system embodying the same. 3,771,462, 11-13-73, Cl. 104-148.01m.

Barthalow, Henry D.: *See—*
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Barthel, Alfred, to Union Carbide Corporation. Method of and apparatus for wrapping layered composite thermal insulation. 3,708,131, 1-2-73, Cl. 242-3.000.

Barthel, Curtis Wallace, Jr. Exerciser and walker apparatus. 3,721,436, 3-20-73, Cl. 272-70.000.

Barthel, Curtis Wallace, Jr. Harness assembly for exerciser and walker devices. 3,761,082, 9-25-73, Cl. 272-70.000.

Barthel, Hans: *See—*
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Barthel, Rolf: *See—*
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Barthelemy, Philippe: *See—*
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Barthelemy, Pierre: *See—*
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Barthlome, Donald E. Automatic traction control system. 3,744,850, 7-10-73, Cl. 303-21.00b.

Bartholoma, Karl: *See—*
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Bartholomaus, Reiner; Dichl, Dieter; and Himmler, Conrad R.; deceased (by Himmler, Irma; heiress), said Diehl and said Bartholomaus assors. to Lohrer, G. L. Rexroth, Eisenwerk GmbH. Regulating apparatus with throttle gaps. 3,712,339, 1-23-73, Cl. 137-625.60.

Bartholomew, Paul E., to Caterpillar Tractor Company. Flexible airfoil for compressor. 3,723,021, 3-27-73, Cl. 415-147.000.

Bartholomew, Ray E.: *See—*
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Bartholomew, Roger F.; and Garfinkel, Harmon M., to Corning Glass Works. Method of removing $SO_2$ and $NO_2$ from gases. 3,715,187, 2-6-73, Cl. 423-235.000.

Bartholomew, Roy E., to Bendix Corporation, The. Air/hydraulic parking-emergency brake system. 3,747,993, 7-24-73, Cl. 303-68.000.

Bartilson, Benjamin M., to United States of America, Army. Wire tying apparatus including timing and stopping mechanism. 3,722,553, 3-27-73, Cl. 140-93.00a.

Bartkus, Edward A.: *See—*
Anderson, Herbert R., Jr.; and Bartkus, Edward A., 3,772,016.

Bartl, Herbert: *See—*
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Bartl, Ronald W.; and Fulton, George G., to Marine Construction & Design Co. Linc hauling and coiling apparatus. 3,765,614, 10-16-73, Cl. 242-47.000.

Bartle, Peter, to Williams, Shelby, Industries, Inc. Stacking chair glider attachment. 3,755,853, 9-4-73, Cl. 16-42.000.

Bartle, Walter: *See—*
Bandel, Kurt; Bartle, Walter; Gunther, Ewald; Honegg, Adolf; and Stahl, Heinz, 3,711,155.

Bartleet, Leslie John, to Unisoc Machine Tools Limited. Feed mechanism for presses. 3,750,806, 8-7-73, Cl. 214-85.00f.

Bartles, Alfred; Drews, Jurgen; and Pinkerneil, Gunther, to Nordischer Maschinenbau Rud. Baader. Skinning machine for fish fillets. 3,739,428, 6-19-73, Cl. 17-62.000.

Bartlet, Dietrich, to Ruhrkohle Aktiengesellschaft. Method for cleaning coal. 3,760,942, 9-25-73, Cl. 209-44.000.

Bartlet, John Lester; and Feit, Eugene David, to Bell Telephone Laboratories, Incorporated. High sensitivity negative electron resist. 3,770,433, 11-6-73, Cl. 96-36.000.

Bartlett, Charles M. Throttle assist mechanical for motorcycle. 3,752,006, 8-14-73, Cl. 74-489.000.

Bartlett, Curry M. Gun butt holder. 3,749,348, 7-31-73, Cl. 248-359.000.

Bartlett, Homer E., to Radiation Incorporated. Shrouded offset parabolic reflector antenna. 3,733,609, 5-15-73, Cl. 343-782.000.

Bartlett, Homer E.; and Sheppard, Emory L., to Radiation Incorporated. Parabolic antenna system having high-illumination and spillover efficiencies. 3,737,909, 6-5-73, Cl. 343-755.000.

Bartlett, Kenneth D. Terminal block covering means. 3,718,889, 2-27-73, Cl. 339-103.00r.

Bartlett, Lawrence D. Spray nozzle. 3,711,029, 1-16-73, Cl. 239-394.000.

Bartlett, Peter G.; Henry, Donald E.; and Murrell, Thomas, to Struthers-Dunn Inc. Process control computer. 3,761,882, 9-25-73, Cl. 340-172.500.

Bartlett, Peter G.; Henry, Donald E.; and Riceman, Kenton L., to Struthers-Dunn Inc. Cabinet for interchangeable circuit boards. 3,764,857, 10-9-73, Cl. 317-101.0dh.

Bartlett, Philip Lee, to Du Pont de Nemours, E. I., and Company. Refrigerants colored for leak indication. 3,770,640, 11-6-72, Cl. 252-68.000.

Bartlett, Raymond H. Stump splitter. 3,721,281, 3-20-73, Cl. 144-2.00n.

Bartlett, William W. Fence post construction. 3,776,522, 12-4-73, Cl. 256-47.000.

Bartley, Donald R.; and Sidles, James, to Goodrich, B. F., Company, The. Method of making a pneumatic tire having a belt wound from a tape. 3,746,590, 7-17-73, Cl. 89-117.000.

Bartley, Keith David; and Wewhirst, Fred Arlington, to Bell Telephone Laboratories, Incorporated. Public telephone mounting. 3,752,927, 8-14-73, Cl. 184-146.00r.

Bartley, Thomas S.; and Wagenknecht, Paul A., to International Paper Company. Foam header assembly. 3,722,469, 3-27-73, Cl. 118-414.000.

Bartley, Thomas S.; Descary, John Gilbert; Futcher, R. James; and Krishnan, R. Gopala, to International Paper Company. Suction box and baffle for fourdrinier type of papermaking machine. 3,764,465, 10-9-73, Cl. 162-351.000.

Bartling, Gerhard, to SKF Kugellagerfabriken GmbH. Spinning device for producing a filament from a fiber strip. 3,756,007, 9-4-73, Cl. 57-58.910.

Bartling, Gerhard, to SKF Kugellagerfabriken GmbH. Multi-unit spinning machine. 3,774,382, 11-27-73, Cl. 57-1.00r.

Bartling, Gerhard; and Schon, Rudolf, to SKF Kugellagerfabriken GmbH. Device for open end spinning. 3,778,990, 12-18-73, Cl. 57-58.950.

Bartlow, Aulden H., to Hendrick Manufacturing Company. Screen having parallel slots and method. 3,716,144, 2-13-73, Cl. 210-499.000.

Bartman, Robert V.: *See—*
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Bartmann, Wilhelm; Alpermann, Hans-Georg; and Jochum, Christian, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Analgestic 1-vinylcarbonylpiperazine compounds. 3,772,297, 11-13-73, Cl. 260-268.0ph.

Bartmann, Wilhelm; and Alpermann, Hans-Georg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 1-(1,2-Diphenyl-2-formylvinyl)-4-methylpiperazine and salts with physiologically tolerated acids. 3,772,298, 11-13-73, Cl. 260-268.00r.

Bartnicki, Wieslaw J.: *See—*
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Bartok, Le-Ann. Footwear having transparent parts. 3,748,758, 7-31-73, Cl. 36-34.00a.

Bartok, Stephen, to Litton Business Systems, Inc. Magnetic transducer components. 3,710,309, 1-9-73, Cl. 339-217.00s.

Bartok, Stephen; Kennedy, Melvin R.; Klose, George J.; Landsinger, Edmund E.; and Stewart, George W., to Mattel, Inc. Mechanically keyed optical organ. 3,751,573, 8-7-73, Cl. 84-1.180.

Bartolini, Robert Alfred; and Karlsons, Dainis, to RCA Corporation. Reduction of non-linear spatial distortion in holographic system employing different wavelengths for recording and playback. 3,763,311, 10-2-73, Cl. 178-5.400.

Bartolmei, Leroy A.: *See—*
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Barton, Bruce H., to Emhart Corporation. Method and apparatus for erecting and bottom sealing cartons. 3,748,972, 7-31-73, Cl. 93-53.00m.

Barton, Charles E.: *See—*
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Barton, David W.; and Muller, George H., to Ford Motor Company. Pneumatic flexible bumper. 3,768,850, 10-30-73, Cl. 293-71.00p.

Barton, Derek Harold Richard, to Research Institute for Medicine and Chemistry Inc. Preparation of 9a-fluoro-11-oxo-steroids. 3,728,337, 4-17-73, Cl. 260-239.55d.

Barton, Derek Harold Richard; and Sammes, Peter George. Sapogenoic acid derivatives. 3,755,304, 8-28-73, Cl. 260-239.55r.

Barton, Frederic D. Vehicle windshield liquid concentrate package. 3,720,305, 3-13-73, Cl. 206-47.00r.

Barton, Frederic D., to Fre-Bar Inc. Cooling system container. 3,757,984, 9-11-73, Cl. 220-27.000.

Barton, Gary I.: *See—*
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Barton, George C., to USM Corporation. Heel seat molding and lasting machines. 3,708,814, 1-9-73, Cl. 12-12.500.

Barton, James, to Ionic International Inc. Barrel type processing apparatus. 3,748,249, 7-24-73, Cl. 204-214.000.

Barton, Jerry M.: *See—*
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Barton, Kenneth R.; and Caldwell, John R., to Eastman Kodak Company. Process for placing modifiers within polyester fibers and films. 3,764,374, 10-9-73, Cl. 117-119.600.

Barton, Oliver A., to Allied Chemical Corporation. Stabilized perchlorofluorocarbon compositions. 3,723,332, 3-27-73, Cl. 252-171.000.

Barton, Robert F., to Gautney & Jones. Peak detector. 3,712,989, 1-23-73, Cl. 307-235.000.

Barton, Robert M., to CMI Corporation. Road texturing machine. 3,775,018, 11-27-73, Cl. 404-93.000.

Barton, Sterling C.: *See—*
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Bartos, Harald: *See—*
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Bartos, Karel; and Bezemek, Vladislav, to Vyzkumny ustav pletarsky. Trousers and the method of manufacture. 3,763,499, 10-9-73, Cl. 2-227.000.

Bartosiak, Andrzej: *See—*
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Bartram, Nial; and Foard, James H., Jr., to Schick Incorporated. Electric razor end cap arrangement. 3,748,730, 7-31-73, Cl. 30-43.100.

Bartram, Nial C.; and Scheid, William J., to Schick Incorporated. Hair dryer. 3,763,573, 10-9-73, Cl. 34-99.000.

Bartsch, Friedrich F.; and Feigin, Robert, to Sybron Corporation. Cation dyes and long chain alkyl quaternary ammonium salt applied to anionically modified nylon in a jute backed carpet. 3,758,269, 9-11-73, Cl. 8-21.00b.

Bartusek, Robert Joseph; and Eckert, Elmer Richard, to Deere & Company. Drive transmission means. 3,746,143, 7-17-73, Cl. 198-88.000.

Bartz, Lothar: *See—*
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Bartz, Maurice R., to International Business Machines Corporation. Optical data entry and display system. 3,760,373, 9-18-73, Cl. 340-172.500.

Bartz, Melvin C., to Beckman Instruments, Inc. Prosthetic device for the deaf. 3,752,939, 8-14-73, Cl. 179-107.00r.

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Baruffa, Olindo, to Mefina S.A. Sewing machine. 3,777,685, 12-11-73, Cl. 112-220.000.

Baruzzini, Gino L., to Pet Incorporated. Modular insulated panel system. 3,729,889, 5-1-73, Cl. 52-264.000.

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Barwise, Robert D. Tree trunk shear. 3,768,528, 10-30-73, Cl. 144-34.00e.

Baryluk, Edward J., 20% to Lee, Raymond, Organization, Inc., The. Ski boot with cleaning device. 3,751,832, 8-14-73, Cl. 36-2.5al.

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Basa, Napoleon A. Therapeutic boot construction. 3,749,091, 7-31-73, Cl. 128-260.000.

Basa, Napoleon A. Racing or the like game apparatus. 3,768,812, 10-30-73, Cl. 273-134.0ch.

Basa, Napoleon A. Aquatic lounge and tray ensemble. 3,769,647, 11-6-73, Cl. 9-400.000.

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Basaraba, Peter, 10% to Lee, Raymond, Organization, Inc., The. Compact camper. 3,774,957, 11-27-73, Cl. 296-23.0mc.

Baschang, Gerhard; Frei, Joerg; Morel, Charles; and Wacker, Oskar, to Ciba-Geigy Corporation. Hexahydro-fluoren-2-yloxy alkanoic acids and esters thereof. 3,743,663, 7-3-73, Cl. 260-413.000.

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Basek, Charles, to Raleigh Industries of Canada Limited Les Industries Raleigh du Canada Limitee. Sproket-actuated bicycle brake. 3,774,732, 11-27-73, Cl. 188-24.000.

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Aigenson, Alexandr Sergeevich; Fryazinov, Vladimir Vasilievich; Malikov, Fatkulla Khairullovich; Sabadash, Julia Sergeevna; Akimov, Vladimir Stefanovich; Dobrozrakova, Natalia Ivanovna; Berg, Genrikh Arturovich; Ezhov, Boris Mikhailovich; Vorms, Georgy Alonsovich; Kubicka, Rudolf; Yaroslav, Veprek; and Cir, Yaroslav, 3,714,025.

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Baskas, Morris J., to Dentipressions Inc. Disposable mixing syringe. 3,760,503, 9-25-73, Cl. 32-17.000.

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Baskerville, Ralph J.; and Yen, Patrick P., to General Electric Company. Means for charging a stored energy circuit breaker closing device. 3,729,065, 4-24-73, Cl. 185-39.000.

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Basner, Ernest L., to Sealy, Inc. Edge support for a spring unit. 3,708,809, 1-9-73, Cl. 5-260.000.

Baso, Miklos; and Wiessner, Edgar, to Siemens Akticngesellschaft. Frame for mounting electrical equipment. 3,740,614, 6-19-73, Cl. 317-99.000.

Basque, Max G.; Magner, James E.; Surls, Joseph P.; and West, Ben F., to Dow Chemical Company, The. Titanium dioxide pigment. 3,749,764, 7-31-73, Cl. 423-610.000.

Bass, Gerald R.: *See—*
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Bass, Harland A.; and Faroudja, Yves C., to Avco Corporation, mesne. Modulation system. 3,778,718, 12-11-73, Cl. 325-139.000.

Bass, James H.; and Smith, Robert P., to Parker-Hannifin Corporation. Engine starter valve. 3,776,266, 12-4-73, Cl. 137-489.000.

Bass, John C., to Gulf General Atomic Incorporated. Fuel pin spacer structure. 3,719,559, 3-6-73, Cl. 176-78.000.

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Bass, Merlyn Duane: *See—*
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Bass, Michael: *See—*
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Bass, Michel; and Pitman, Richard W., to Addressograph-Multigraph Corporation. Keyboard. 3,722,651, 3-27-73, Cl. 197-16.000.

Bass, Robert C., to Bimbo Inc. Fishermans lantern float. 3,707,736, 1-2-73, Cl. 9-8.30r.

Bass, Rudi. Resilient support. 3,727,870, 4-17-73, Cl. 248-350.000.

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Bass, Sidney; Benson, John T.; and Shirwo, Darold M., to Mattel, Inc. Illuminated educational picture viewer toy. 3,748,765, 7-31-73, Cl. 40-63.00a.

Bass Sports, Inc.: *See—*
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Bassand, Denis, to Sandoz Ltd.; a/k/a Sandoz AG. Synergistic insecticidal compositions of O, O-dimethyl-S-(N-methyl-carbamoylmethyl)-thio-thionophosphate and an O, O-dialkyl-dithiophosphoryl-acetic acid derivative. 3,726,975, 4-10-73, Cl. 424-211.000.

Basse, Paul-Werner, to Siemens Aktiengesellschaft. Accelerated bitline discharge of a MOSFET memory. 3,765,002, 10-9-73, Cl. 340-173.0ca.

Basse, Philip; and Sposato, Frank J., to Logimetrics, Incorporated. Frequency control of oscillators using digital techniques. 3,710,274, 1-9-73, Cl. 331-1.00a.

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Bassemir, Robert W.; and Mayer, Julius Robert, to Sun Chemical Corporation. Reflector and cooling means therefor. 3,733,709, 5-22-73, Cl. 34-4.000.

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Bassett, Ernest D. Collating machine. 3,773,313, 11-20-73, Cl. 270-58.000.

Bassett, Kirk W.; and Butler, Richard A., Jr., to Butler Automatic, Inc. Web supply apparatus. 3,753,833, 8-21-73, Cl. 156-504.000.

Bassett, Kirk W.; and Butler, Richard A., Jr., to Butler Automatic, Inc. Web winding. 3,756,526, 9-4-73, Cl. 242-56.00r.

Bassett, Ronald M.; and Geoth, Joseph F., to Mallory, P. R., & Co., Inc., mesne. Rotor driven timer. 3,759,032, 9-18-73, Cl. 58-55.000.

Bassett, W. E., Company, The: *See—*
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Bassham, Kenneth John; and Feast, Alan Arthur John, to International Synthetic Rubber Company Limited, The. Method of treating a polymer latex. 3,781,236, 12-25-73, Cl. 260-23.70m.

Bassi, Ezio; and Riitano, Francesco, said Bassi assor. to Cooperative Industriale Romagnola. Andodontic instrument for concurrent programmed boring, spraying and cleansing of dental root channels. 3,747,216, 7-24-73, Cl. 32-57.000.

Bassick, Joseph. Controlled atmosphere-solid waste disposal system. 3,776,474, 12-4-73, Cl. 241-23.000.

Bassing, Friedrich Wilhelm: *See—*
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Bassinger, Donald F., to DV Displays Corporation. Emergency vehicular warning system. 3,760,353, 9-18-73, Cl. 340-72.000.

Bassist, Rudolph G., 1/2 to Travis Mills Corporation. Yarn measuring apparatus for use with warp knitting machines. 3,727,033, 4-10-73, Cl. 235-92.0pd.

Bassist, Rudolph G., 1/2 to Travis Mills Corporation. Warp knitting machine having exhausted spool detector and spool therefor. 3,751,937, 8-14-73, Cl. 66-86.00a.

Basso, Eugenio; Gulino, Giacomo; and Veronese, Antonio, to Fabbrica Italiana Magneti Marelli S.p.A. Electronic device for controlling a silicon controlled recifier in a capacitor discharge electronic ignition circuit. 3,736,463, 5-29-73, Cl. 315-209.0sc.

Basso, Jude A.; Fulger, Charles V.; and Thompson, Joseph J., to Kellogg Company. Beverage containing egg albumen and amino acid. 3,736,150, 5-29-73, Cl. 99-78.000.

Basso, Jude A.; Lemaire, Normand A.; and Fulger, Charles V., to Kellogg Company. Beverage containing egg albumen and whey. 3,737,326, 6-5-73, Cl. 99-78.000.

Basso, Julius C.: *See—*
Marsh, Richard P.; Whannel, Ralph E.; and Basso, Julius C., 3,734,452.
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Bassoff, Arthur B.: *See—*
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Tersch, Richard W.; and Bassoff, Arthur B., 3,731,591.

Bassoff, Arthur B., to Lear Siegler, Inc. Index device. 3,717,044, 2-20-73, Cl. 74-142.000.

Bassot, Jacques; and Monpetit, Louis, to Societe des Procedes Modernes d'Injection Sopromi. High speed fuel injection system. 3,710,763, 1-16-73, Cl. 123-32.0ea.

Bastacky, Simon. Lead gel storage battery. 3,711,332, 1-16-73, Cl. 136-26.000.

Bastacky, Simon. Process for treating industrial wastes. 3,755,102, 8-28-73, Cl. 204-92.000.

Bastenhof, Dirk, to Societe d'Etudes de Machines Thermiques. Internal-combustion engine intake-valve provided with a deflector plate. 3,757,757, 9-11-73, Cl. 123-188.0va.

Bastiaans, Cedric R., to Westinghouse Electric Corporation. Endless loop tape cassette. 3,768,716, 10-30-73, Cl. 226-113.000.

Bastian, James Winslow: *See—*
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Bastian, Jean-Michel: *See—*
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Bastian, Jean-Michel; Ebnother, Anton; and Rissi, Erwin, to Sandoz Ltd.; a/k/a Sandoz AG. 1,3,4,9b-Tetrahydro indeno[1,2-c]pyridines. 3,749,729, 7-31-73, Cl. 260-294.80b.

Bastide, Claude, to Etablissements Roffo. Spraying device for a liquid distributing system for agricultural use. 3,715,080, 2-6-73, Cl. 239-444.000.

Basting, Dirk; Schafer, Fritz Peter; and Steyer, Bernhard, to Zeiss-Stiftung, Carl; d/b/a Zeiss, Carl. Energy storer and discharge chamber for a gas laser device. 3,757,246, 9-4-73, Cl. 331-94.500.

Basu, Amarendra Nath: *See—*
Mukherjee, Dilip Kumar; Chowdhury, Priya Bandhu; Sama, Jugal Kishore; Basu, Amarendra Nath; Basak, Nitya Goral; and Lahiri, Adinath, 3,775,286.

Basu, Hemendra: *See—*
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Baswell, Harlen L.: *See—*
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Bata Shoe Company, Inc.: *See—*
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Maltby, Frank V., 3,709,973.

Batchelar, Raymond Luscombe; and Heinle, Carl William, to American Can Company. Full panel easy open end. 3,715,050, 2-6-73, Cl. 220-54.000.

Batchelder, Charles F.: *See—*
Rubico, Jerome A.; and Batchelder, Charles F., 3,745,600.

Batchelder, John M.; and Griswold, Augustus W., to Dapak Systems, Inc. Method and apparatus for preparing and assembling communications for mass distribution. 3,749,631, 7-31-73, Cl. 156-350.000.

Batchelder Rubico, Inc.: *See—*
Rubico, Jerome A.; and Batchelder, Charles F., 3,745,600.

Batchelor, Anthony C.: *See—*
Cragg, William D.; Dymoke-Bradshaw, Leslie E. B.; Batchelor, Anthony C.; and Carter, Ronald D., 3,781,492.

Batcher, Kenneth E., to Goodyear Aerospace Corporation. Determination of number of ones in a data field by addition. 3,711,692, 1-16-73, Cl. 235-175.000.

Batcho, Andrew David; and Leimgruber, Willy, to Hoffmann-La Roche Inc. Process and intermediates for the preparation of indoles from ortho-nitrotoluenes. 3,732,245, 5-8-73, Cl. 260-319.100.

Bate, Frederick Douglas Clavell. Automatic sealer control. 3,721,801, 3-20-73, Cl. 219-243.000.

Bate, Geoffrey; Echelmeier, Robert H.; Everett, Larry H.; Kehr, William D.; Schaps, Joseph E.; Taylor, Gerald; and Thornley, Richard F. M., to International Business Machines Corporation. Multi-track overlapped-gap magnetic head assembly. 3,718,776, 2-27-7, Cl. 179-100.20c.

Bate, Ralph G.: *See—*
Sealby, Robert L.; and Bate, Ralph G., 3,772,714.

Bate, Robert Thomas, to Texas Instruments, Incorporated. Magnetic field sensor. 3,714,523, 1-30-73, Cl. 317-235.00r.

Bate, Robert Thomas, to Texas Instruments, Incorporated. Method of measuring magnetic fields utilizing a three dram IGFET with particular bias. 3,714,559, 1-30-73, Cl. 324-43.00r.

Batelle-Institute E.V.: *See—*
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Bateman, Charles G. Locking safety screw closure. 3,774,794, 11-27-73, Cl. 215-9.000.

Bateman, Douglas Alfred; Burrell, Geoffrey John; and Killick, Donald Edward, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Atmospheric visibility measuring apparatus. 3758,211, 9-11-73, Cl. 356-103.000.

Bateman, Edward L., Limited: *See—*
Green, Basil Wayland, 3,751,186.

Bateman, Glenn; and Roberts, John A., to Tektronix Inc. Current transformer. 3,708,749, 1-2-73, Cl. 324-127.000.

Bateman, James R. Feeding arrangement for shredding and bagging device. 3,716,089, 2-13-73, Cl. 56-501.000.

Bateman, John H., to Ciba-Geigy Corporation. Bis (haloximino) acetone and method of preparation. 3,717,678, 2-20-73, Cl. 260-566.00a.

Bateman, Robert F., to Plastics, Inc. Double stack interlocking trays. 3,734,309, 5-22-73, Cl. 214-10.50r.

Bateman, William C. Wheel balancer. 3,757,588, 9-11-73, Cl. 73-483.000.

Bates, Charles. Valve having adjustable seating means. 3,749,358, 7-31-73, Cl. 251-298.000.

Bates, Charles E.: *See—*
Burch, Arthur R.; and Bates, Charles E., 3,746,189.

Bates, Darwin S.; and Szymanski, Edward R., to Addressograph-Multigraph Corporation. Traveling cylinder printer with selectively slidable code bars having plural marking means. 3,736,867, 6-5-73, Cl. 101-45.000.

Bates, David J.: *See—*
Silzars, Aris; and Bates, David J., 3,740,607.

Bates, David J.; Silzars, Ariz; Roberts, Lester A.; and Long, James A., to Watkins-Johnson Company. Electron bombarded semiconductor device. 3,749,961, 7-31-73, Cl. 315-3.000.

Bates, Gary G. Device for watering trees and other plants. 3,754,352, 8-28-73, Cl. 47-48.500.

Bates, Homer J.: *See—*
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Bates, Homer J., to Georgia Tech Research Institute. Unloading device for a capsule-transport pipeline system. 3,724,690, 4-3-73, Cl. 214-52.00c.

Bates, Howard J., Jr.; and Hill, Jack O., to Oceanoics, Inc. Trenching apparatus. 3,717,003, 2-20-73, Cl. 61-72.400.

Bates, James John, to National Research Development Corporation. Electrical current collecting devices. 3,769,535, 10-30-73, Cl. 310-219.000.

Bates, James W., to Gulton Industries, Inc. Low frequency multi-phase sinewave generator circuit. 3,767,996, 10-23-73, Cl. 321-9.00a.

Bates, James W., to Gulton Industries, Inc. Stepped sinusoidal-like waveform generating inverter circuit. 3,768,000, 10-23-73, Cl. 321-27.0ms.

Bates, Kenneth Clayton. Rotary apparatus having two rotors engaging rotary dividers in a housing. 3,781,146, 12-25-73, Cl. 418-6.000.

Bates, Kenneth T.; and Hoare, Michael R., to Westinghouse Canada Limited. Vacuum induction heat treatment of long tubular products. 3,709,999, 1-9-73, Cl. 13-26.000.

Bates Manufacturing Company, The: *See—*
Beger, Richard E., 3,721,485.

Bates, Marcus L., to Williamson, T. D., Inc. Apparatus for communicating service lines to mains. 3,709,250, 1-9-73, Cl. 137-318.000.

Bates, Robert E. Meter setter. 3,730,213, 5-1-73, Cl. 137-364.000.

Bates, William C.; and True, Thomas T., to General Electric Company. Luminance notch filter. 3,728,476, 4-17-73, Cl. 178-5.400.

Batesky, Donald C., to Eastman Kodak Company. Liquid crystal compositions. 3,772,209, 11-13-73, Cl. 252-408.000.

Bateson, George F.: *See—*
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Bateson, Robert N.; and Harper, Judson M., to General Mills, Inc. Apparatus and process for puffing food products. 3,746,546, 7-17-73, Cl. 99-81.000.

Bateson, Sydney: *See—*
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Batey, Robert W.; and Welte, Theodore J. R., to International Telephone and Telegraph Corporation. On-line electronic moisture analysis system. 3,723,865, 3-27-73, Cl. 324-61.00r.

Bath, James G.; and Cahill, Steven P., to Honeywell Information Systems, Inc. Free flight print system for a serial printer. 3,760,926, 9-25-73, Cl. 197-55.000.

Bathelt, Robert Richard: *See—*
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Bathory, Bela Istvan, to Davy and United Engineering Company, Limited. Devices for applying forces. 3,730,036, 5-1-73, Cl. 83-554.000.

Batistelli, Nello: *See—*
Batistelli, Nello; and Adams, James P.S. (said Adams assor. to said), 3,734,357.

Batistelli, Nello; and Adams, James P.S., said Adams assor. to said Batistelli, Nello. Portable holder for pressurized containers. 3,734,357, 5-22-73, Cl. 222-323.000.

Batka, Heimold: *See—*
Altenschopfer, Theodor; Batka, Heimold; Jakobi, Gunter; Krings, Peter; and Lehmann, Hans-Jurgen, 3,779,934.

Batka, Heimold; and Altenschopfer, Theodor, to Henkel & Cie G.m.b.H. Process and agents for the clear-rinse in mechanical dishwashing. 3,775,330, 11-27-73, Cl. 252-89.000.

Batleman, Harvey Lionel: *See—*
von Dohlen, Werner Claus; and Batleman, Harvey Lionel, 3,734,878.

Batley, William R., Jr. Fractionation of alfalfa wetted with molasses serum. 3,775,133, 11-27-73, Cl. 426-378.000.

Batlles, Jorge Ferrer: *See—*
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Baton-Williams, Raymond Herbert. Automatic control for electrode boilers. 3,780,261, 12-18-73, Cl. 219-324.000.

Batsch, Helmut; Jahnel, Benno; Weinz, Ernst August; Berger, Wolfgang; and Dickopp, Gerhard, to Licentia Patent-Verwaltungs-G.m.b.H. Diamond stylus for disc records. 3,781,020, 12-25-73, Cl. 274-38.000.

Batson, Dossie M., to Logging Systems, Inc. Skidder boom for tractor vehicles. 3,764,020, 10-9-73, Cl. 212-7.000.

Batson, William A., to Singer Company, The. Sabre saws with lockable swivel saw bars. 3,729,822, 5-1-73, Cl. 30-394.000.

Batson, William A., to Singer Company, The. Remote mechanical switch for actuating a power tool with particular microswitch locating means. 3,767,876, 10-23-73, Cl. 200-157.000.

Batson, William A., to Singer Company, The. Concentric assembly for portable electric router. 3,767,948, 10-23-73, Cl. 310-50.000.

Batson-Cook Company: *See—*
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Batt, Harold Hilton, to Renhurst Industries Proprietary Limited. Apparatus and method for laying cross filaments and the like. 3,711,932, 1-23-73, Cl. 29-419.000.

Batt, John A.: *See—*
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Batt, Richard S. W.; and De Frate, Louis A., to Du Pont de Nemours, E. I., and Company. Apparatus for the isolation of α-olefin hydrocarbon copolymers from solution. 3,750,736, 8-7-73, Cl. 159-16.00s.

Batta, Louis Bela, to Union Carbide Corporation. Selective adsorption process for air separation. 3,717,974, 2-27-73, Cl. 55-58.000.

Battaerd, Jacobs: *See—*
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Battaglia, Patrick A.; and Fitzwater, Edwin, to General Signal Corporation. Motor brush holder. 3,735,172, 5-22-73, Cl. 310-239.000.

Battaglini, Domenic; Beach, Richard G.; and Raquith, Howard R., to Sybron Corporation. Force balance variable condition transmitter. 3,724,275, 4-3-73, Cl. 73-407.00r.

Battarel, Claude, to Techniques et Systemes Informatiques. Shift register operating by propagation of domains in thin films of magnetic material. 3,739,358, 6-12-73, Cl. 340-174.0mc.

Battarra, Alberto: *See—*
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Batten, Thomas Allen; and Griebling, Stephen Thomas, to Firestone Tire & Rubber Company, The. Tire with folded stabilizer plies. 3,720,252, 3-13-73, Cl. 152-361.000.

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Batter, John F., Jr.; Stella, Joseph A.; and Held, Albert W., to Polaroid Corporation. Photographic film cassette employing coated processor valve. 3,772,975, 11-20-73, Cl. 95-13.000.

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Battersby, Robert J.; and Mucciante, Louis L., to Honeywell Inc. Combination gas valve. 3,779,459, 12-18-73, Cl. 236-15.00a.

Battersby, William R. Double glazing units and methods of making. 3,759,771, 9-18-73, Cl. 156-109.000.

Battershall, Barry W.; and Hoffman, William F. Glass tank construction. 3,721,366, 3-20-73, Cl. 220-82.00r.

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Battista, Albert D., to American Optical Corporation. Laser energy monitor circuit. 3,732,491, 5-8-73, Cl. 324-102.000.

Battista, Orlando A.; Cruz, Mamerto M., Jr.; and Hait, Merritt R., to FMC Corporation. Fibrous collagen derived product having hemostatic and wound binding properties. 3,742,955, 7-3-73, Cl. 128-334.000.

Battista, Orlando A., to Avicon, Inc., mesne. Photographic coatings containing a water-insoluble, ionizable partial salt of collagen. 3,748,142, 7-24-73, Cl. 96-114.000.

Battista, Orlando A., to Avicon, Inc., mesne. Method of forming structures from microcrystalline. 3,758,660, 9-11-73, Cl. 214-202.000.

Battistoni, Richard B.; Ferreri, Vincent; and Gates, George A., to International Business Machines Corporation. Left zero circuit for key entry device. 3,740,726, 6-19-73, Cl. 340-172.500.

Battistoni, Richard B.; Lettieri, John; Pierce, Donald L.; and Weikel, Walter J., to International Business Machines Corporation. Posi-

tioning dual record cards in a composite punch/read station in coordination with keying of source information taken from prtions of the card which may be obstructed by station components. 3,744,310, 7-10-73, Cl. 73-156.000.
Battles, Willis R. Automatic action toy glider-kite string flyer. 3,752,424, 8-14-73, Cl. 244-155.00r.
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Batts, Colossie N. Variable time base integrator circuit for buffet signal measurements. 3,714,827, 2-6-73, Cl. 73-147.000.
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Batts, John H., to Batts, John Thomas, Inc. Molded garment hanger with clamping trouser bar. 3,746,223, 7-17-73, Cl. 223-91.000.
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Batz, James E., to Northern Illinois Gas Company. Analog-to-digital converter employing electrostatic signal coupling apparatus. 3,766,544, 10-16-73, Cl. 340-347.00p.
Batz, Monika, to Telefunken Patentverwertungsgesellschaft m.b.H. Semiconductor device having a screen electrode of intrinsic semiconductor material. 3,710,204, 1-9-73, Cl. 317-235.00r.
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Batzer, Hans; Lohse, Friedrich; and Schmid, Rolf, to Ciba-Geigy AG. Polycarboxylic acid curing agent for polyepoxide resin mixtures. 3,767,617, 10-23-73, Cl. 260-47.0ea.
Batzer, Hans; Habermeier, Juergen; and Porret, Daniel, to Ciba-Geigy AG. Diglycidyl compounds of monohydroxyalkyl hydantoins. 3,772,326, 11-13-73, Cl. 260-309.500.
Bau, Peter; Reichelt, Achim; and Winzer, Gerhard, to Siemens Aktiengesellschaft. Light-effect generator. 3,757,106, 9-4-73, Cl. 240-10.00r.
Bau, Werner: *See—*
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Bauer, Adolf; Weber, Karl Heinz; and Pook, Karl-Heinz, to Boehringer Ingelheim G.m.b.H. Process for the preparation of 3-aminomethylidene-1,5-benzodiazepine-2,4-(3H,5H)-dione. 3,766,169, 10-16-73, Cl. 260-239.30b.
Bauer, Alfons. Device for indicating and recording the speed of travel and the distance travelled by motor vehicles. 3,714,662, 1-30-73, Cl. 346-18.000.
Bauer, Andrew B., to Philco-Ford Corporation. Low loss vortex fluid amplifier valve. 3,712,321, 1-23-73, Cl. 137-81.500.
Bauer, Banjamin B.; and Gravereaux, Daniel W., to Columbia Broadcasting System, Inc. Quadraphonic reproducing system with gain control. 3,708,631, 1-2-73, Cl. 179-100.1td.
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Bauer, Benjamin B., to Columbia Broadcasting System, Inc. Matrixes and decoders for quadruphonic records. 3,745,252, 7-10-73, Cl. 179-1.0gq.
Bauer, Benjamin B., to Columbia Broadcasting System, Inc. Stereo-quadraphonic disc record. 3,770,901, 11-6-73, Cl. 179-100.4st.
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Bauer, Donald J.; Haskett, Philip R.; and Lindstrom, Ronald E., to United States of America, Interior. Process for the production of cuprous oxide. 3,716,615, 2-13-73, Cl. 423-35.000.
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Bauer, George Thomas, to Xerox Corporation. Aperture fluorescent lamp for copying machines. 3,767,956, 10-23-73, Cl. 313-109.000.
Bauer, Gerald H. Wire shaping tool. 3,747,648, 7-24-73, Cl. 140-147.000.
Bauer, H. Fred: *See—*
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Bauer, Hans; Holzer, Helmut; and Schmidt, Gerhard, to Sued-West-Chemie GmbH. Process of producing pigmented, a hardenable resin containing paper sheets, and products. 3,716,395, 2-13-73, Cl. 117-68.000.
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Bauer, James J., to Clark Equipment Company. Apparatus and method for mounting an attachment on a vehicle. 3,732,996, 5-15-73, Cl. 214-152.000.
Bauer, Karl; Mayer, Manfred; Illg, Peter; and Schimmel, Bernd, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Air-supported thread overrun roller. 3,746,233, 7-17-73, Cl. 226-194.000.
Bauer, Karlheinz. Corrosion-protected anchoring rods for anchoring structural parts in the earth, as well as method of producing anchorings with corrosion-protected anchor rods. 3,753,354, 8-21-73, Cl. 61-35.000.
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Bauer, Lowell W., to General Electric Company. Target display for pulse-echo return system. 3,728,725, 4-17-73, Cl. 343-9.000.
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Bauer, Ludwig, to United States of America, Army. S-substituted thiosulfuric acid derivatives and preparation thereof. 3,732,305, 5-8-73, Cl. 260-564.00r.
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Bauer, Paul, Jr., to Owens-Illinois, Inc. Apparatus and method for controlling a centrifugal compressor. 3,778,695, 12-11-73, Cl. 318-481.000.
Bauer, Peter, to Rohm & Haas G.m.b.H. Method for making an insulating body. 3,725,315, 4-3-73, Cl. 260-2.50b.
Bauer, Peter, to Bowles Fluidics Corporation. Shower spray. 3,741,481, 6-26-73, Cl. 239-102.000.
Bauer, Peter, to Erno Raumfahrttechnik GmbH. Oceanological and meterological station. 3,754,439, 8-28-73, Cl. 73-170.00a.
Bauer, Peter; and Neradka, Vincent F., to Bowles Fluidics Corporation. Personal spray and massage apparatus. 3,770,200, 11-6-73, Cl. 239-102.000.
Bauer, Ralf; Lorenz, Wilfred; Rohr, Udo; and Silge, Friedrich, to VEB Warnowwerft Warnemunde. Rollback closure for tightly sealing openings especially of ships. 3,712,258, 1-23-73, Cl. 114-202.000.
Bauer, Ralf; and Schummer, Nils, to VEB Warnowwerft Warnemunde. Ship loading boom installation having loading and suspension tackles and automatic guide blocks for positioning the suspension tackle by the load tackle. 3,768,664, 10-30-73, Cl. 212-3.000.
Bauer, Ralf Rudiger, to International Business Machines Corporation. Method of making flat cables. 3,728,424, 4-17-73, Cl. 264-40.000.
Bauer, Richard H.; and Kilpert, Richard, to Esso Research and Engineering Company. Spray foam insulated pipe. 3,731,710, 5-8-73, Cl. 138-143.000.
Bauer, Ronald; Chung, Harold; Keim, Wilhelm; and Van Zwet, Henry, to Shell Oil Company. Ethylene polymerization in the presence of complex nickel catalysts containing a glycolic acid, thioglycolic, or thiolactic acid ligand. 3,759,889, 9-18-73, Cl. 260-94.0c.
Bauer, Ronald S.; and Holler, Howard V., to Shell Oil Company. Process for making articles from $SO_2$-conjugated diolefin-cyclopentadiene polymer. 3,723,591, 3-27-73, Cl. 264-237.000.
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Bauer, Sigrid; Klupfel, Kurt-Walter; and Faust, Raimund Josef, to Kalle Aktiengesellschaft. Photopolymerizable copying composition. 3,751,259, 8-7-73, Cl. 96-115.00p.
Bauer, Sigrid; Brahm, Richard; and Dietrich, Roland, to Kalle Aktiengesellschaft. Photopolymerizable copying composition and copying material produced therewith. 3,765,898, 10-16-73, Cl. 96-115.00p.
Bauer, Sigrid; Sikora, Helga; and Frass, Hans Werner, to Kalle Aktiengesellschaft. Light-sensitive copying composition containing a light insensitive polymer and a light sensitive heterocyclic compound. 3,776,735, 12-4-73, Cl. 96-115.00r.
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Bauer, William J. Corrugated conduit. 3,731,711, 5-8-73, Cl. 138-178.000.
Bauer, William Valentine, to Lummus Company, The. Three-stage combustion. 3,727,562, 4-17-73, Cl. 110-1.00p.
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Bauerle, Kurt, to Moser, Kuno, GmbH, Firma. Electric shaver with concealable long hair trimmer. 3,763,558, 10-9-73, Cl. 30-34.100.
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Baues, Dietrich; Marini, Richard; and McCauley, Donald, to G.A.C. International Inc. Orthodontic arch wire. 3,729,824, 5-1-73, Cl. 32-14.00a.
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Baugh, Ronald K.; and Beeler, James E. Christmas tree ornament and decoration device. 3,752,407, 8-14-73, Cl. 240-10.00t.
Baugher, Dale Milton; and Awkward, Kenneth Walter, to RCA Corporation. Switching regulator overload protection circuit. 3,736,469, 5-29-73, Cl. 317-22.000.
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Bauknecht, Otto; and Horl, Adolf, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Dic roll apparatus for internal gears. 3,765,202, 10-16-73, Cl. 72-94.000.
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Baum, Donald J. Golf game device. 3,715,123, 2-6-73, Cl. 273-35.00r.
Baum, Edward J. Apparatus for removing pollutants from stack effluents. 3,766,971, 10-23-73, Cl. 165-1.000.
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Baum, Frank M., to First National Bank of Chicago, The. Dispenser for providing warm lather for shaving. 3,710,985, 1-16-73, Cl. 222-146.0ha.
Baum, Gerald A.; and Considine, William J., to M & T Chemicals Inc. Composition and method for controlling bacteria with organotin compounds. 3,745,219, 7-10-73, Cl. 424-288.000.
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Bayless, Jack H., to Esso Production Research Company. Steam oil recovery process. 3,714,985, 2-6-73, Cl. 166-303.000.
Bayless, Jack H.; and Penberthy, Walter L., Jr., to Esso Production Research Company. Insulation for a wellbore. 3,718,184, 2-27-73, Cl. 166-57.000.
Bayless, Jay J. Vehicle door collision plate and latch. 3,713,691, 1-30-73, Cl. 296-152.000.
Bayless, Robert G.: *See*—
Hart, Ronald L.; Emrick, Donald D.; and Bayless, Robert G., 3,755,190.
Bayless, Robert G.; and Emrick, Donald D., to National Cash Register Company, The. Capsule wall'treating utilizing condensation polymerization and capsule product. 3,726,803, 4-10-73, Cl. 252-316.000.
Bayley, Donald S.; Greenwood, Ivan A., Jr.; and Simpson, James H., Jr., to Singer-General Precision, Inc. Optically pumped nuclear magnetic resonance gyroscope. 3,778,700, 12-11-73, Cl. 324-.50r.
Baylis, Anthony B.: *See*—
Hillman, Melville E. D.; and Baylis, Anthony B., 3,743,669.



Baylis, John Harold; and Bond, Anthony John, to Ilford Limited. Photographic emulsions containing alkali metal ferricyanides. 3,741,767, 6-26-73, Cl. 96-94.000.
Baylor, Richard A. Clock actuated awakening device. 3,727,395, 4-17-73, Cl. 58-19.00c.
Bayly, Peter Kingsley, to Wiltshire Cutlery Company Proprietary Limited. Knife scabbard or holder. 3,774,350, 11-27-73, Cl. 51-204.000.
Baymiller, John W., to Armstrong Cork Company. Apparatus for bleaching furniture. 3,708,889, 1-9-73, Cl. 34-83.000.
Bayne, Dennis R.: *See*—
Vahlstrom, Richard E.; Nutten, Donald C.; Rennick, Lyle V.; Bayne, Dennis R.; and Oster, Stanley, 3,735,261.
Vahlstrom, Richard E.; Nutten, Donald C.; Bayne, Dennis R.; and Oster, Stanley, 3,777,262.
Bayne, Gilbert M., to Merck & Co., Inc. Composition and method of treating dopamine deficiency in brain tissue. 3,769,424, 10-30-73, Cl. 424-317.000.
Bayne, John Wallace, to Sperry Rand Limited. Shift register having internal buffer. 3,753,241, 8-14-73, Cl. 340-172.500.
Bayne, Peter D.: *See*—
Krueger, Robert K.; Bayne, Peter D.; and Weston, Steven S., 3,749,795.
Baynes, William R.; and Handler, Elliot, to Mattel, Inc. Track system for toy vehicle. 3,734,404, 5-22-73, Cl. 238-10.00e.
Baynes, William R.; and Larsson, Ake L., to Mattel, Inc. Sequential phonograph toy. 3,741,566, 6-26-73, Cl. 274-9.00r.
Baynes, William R.; Cowell, Robert L.; and May, Herbert, to Mattel, Inc. Randomizing cam for toy phonograph. 3,773,333, 11-20-73, Cl. 274-11.00r.
Baynham, Alexander Christopher; and Dunsmore, Michael Robert Buchanan, to National Research Development Corporation. Tunable microwave filters. 3,748,605, 7-24-73, Cl. 333-73.00s.
Bays, David Edmund, to Allen & Hanburys Limited. Xanthone derivatives. 3,755,319, 8-28-73, Cl. 260-247.50r.
Bays, Fernand, to Vidosa S.A. Apparatus for removing sheets from stacks. 3,740,029, 6-19-73, Cl. 271-11.000.
Bays, Marvin G.: *See*—
Babb, John J.; and Bays, Marvin G., 3,718,206.
Bayshore Concrete Products Corporation: *See*—
Van Buren, Myers, 3,738,786.
Bayssat, Michel; Fontaine, Louis; and Grand, Marcel, to Lipha Lyonnaise Industrielle Pharmaceutique. Substituted cinnamides. 3,780,102, 12-18-73, Cl. 260-558.00r.
Bayton, Warren C. Anti-smog device. 3,743,255, 7-3-73, Cl. 261-79.00r.
Baz, Angel Davila. Mineral mining machines. 3,779,603, 12-18-73, Cl. 299-34.000.
Bazell, Seymour: *See*—
Walker, Robert D.; Bazell, Seymour; Goldberg, Edward M.; and Ostensen, Ralph G., 3,734,100.
Bazell, Seymour; Ostensen, Ralph G.; and Goldberg, Edward M., to Medical Products Corporation. Fiber-optic light console. 3,775,606, 11-27-73, Cl. 240-47.000.
Bazelmans, Joseph B.: *See*—
Harris, Stewart G.; and Bazelmans, Joseph B., 3,774,757.
Bazett, Patrick Seymour, to Kemp Products Limited. Method of stabilizing thermo-plastic containers. 3,716,606, 2-13-73, Cl. 264-25.000.
Bazhaw, Willis O., to Hunt Oil Company. Surveying apparatus. 3,716,923, 2-20-73, Cl. 33-264.000.
Bazler, Seward M.; and Lane, William C., to Mead Corporation, The. High opacity paper. 3,737,371, 6-5-73, Cl. 162-181.00b.
Bazouin, Andre: *See*—
Bakassian, Georges; and Bazouin, Andre, 3,718,682.
Bazouin, Andre; and Lefort, Marcel, to Rhone-Poulenc SA. Process for the preparation of aryldimethylchlorosilane. 3,728,368, 4-17-73, Cl. 260-448.20p.
Bazzarone, Fedele; and Bisone, Dario, to Olivetti, Ing., C., & C., S.p.A. Device for feeding and sorting documents. 3,749,395, 7-31-73, Cl. 271-4.000.
Bazzell, John S.: *See*—
Nettles, Henry D.; and Bazzell, John S., 3,765,442.
Bazzy, Lattif Allan, to Make-A-Tape, Inc. Method of and apparatus for tape cartridge duplication. 3,744,803, 7-10-73, Cl. 274-3.000.
BBA Group Limited: *See*—
Lumb, John B.; and Leeds, Edwards, 3,723,382.
BDH Chemicals Limited: *See*—
Vecht, Aron, 3,714,339.
BDH Pharmaceuticals Limited: *See*—
Burgess, Colin M.; Feather, Peter; and Goatly, Philip H., 3,758,521.
Bea, Karl J. Foldable building construction of roof and wall sections. 3,712,006, 1-23-73, Cl. 52-71.000.
BeA-Verpackungsmaschinen Cast: *See*—
Wierick, Horst, 3,713,951.
Beach, Bill. Wheel alignment tool. 3,731,906, 5-8-73, Cl. 254-100.000.
Beach, David E., to Eastman Kodak Company. Film metering mechanism. 3,709,128, 1-9-73, Cl. 95-31.0fm.
Beach, David E., to Eastman Kodak Company. Film creep preventing means for cameras. 3,712,200, 1-23-73, Cl. 95-31.0fm.
Beach, David E., to Eastman Kodak Company. Camera body release lever mechanism. 3,732,794, 5-15-73, Cl. 95-11.00l.
Beach, David E., to Eastman Kodak Company. Film metering mechanism for cameras. 3,736,854, 6-5-73, Cl. 95-31.0fm.
Beach, David E., to Eastman Kodak Company. Device for preventing film movement in still cameras. 3,748,991, 7-31-73, Cl. 95-31.0fm.
Beach, David E., to Eastman Kodak Company. Film metering device for roll film cameras. 3,750,545, 8-7-73, Cl. 95-31.0fm.
Beach, Eugene H., to United States of America, Navy. Torpedo separation sensing device. 3,756,181, 9-4-73, Cl. 114-20.00r.
Beach, John M.: *See*—
Beach, John M.; and Brown, Melvin A. (said Brown assor. to said), 3,724,608.
Beach, John M.; and Brown, Melvin A., said Brown assor. to said Beach, John M. Draft device. 3,724,608, 4-3-73, Cl. 188-112.000.
Beach, Leland K.: *See*—
Muenker, Adolf H.; Beach, Leland K.; and Engel, Lawrence J., 3,745,075.
Beach, Mary B.: *See*—
Grote, George A., 3,724,177.
Beach, Richard G.: *See*—
Battaglini, Domenic; Beach, Richard G.; and Raquith, Howard R., 3,724,275.
Beach, Richard G.; Stultz, Harry, Jr.; and Symonds, James A., to Sybron Corporation. Differential pressure responsive device of welded construction. 3,722,373, 3-27-73, Cl. 92-97.000.
Beach, Robert C.; and Myers, Stanley L., to Cincinnati Milacron Inc. Method for approximating with linear segments a curvature on a three-dimensional surface. 3,771,168, 11-6-73, Cl. 444-1.000.
Beach, Willard C.: *See*—
Grote, George A., 3,724,177.
Beach, William A.: *See*—
Anderson, John R.; and Beach, William A., 3,768,648.
Beach, Winfield G. Thermal radiation system for soil stabilizer. 3,756,313, 9-4-73, Cl. 165-106.000.
Beach-Buoy, Inc.: *See*—
Brill, Edward F., 3,780,686.
Beacham, Walter Gary, to BTI Ltd. Telephone answering apparatus. 3,728,489, 4-17-73, Cl. 179-6.00r.
Beachem, Ronald G.: *See*—
Fitzgerald, James R.; and Beachem, Ronald G., 3,754,120.
Beachey, Robert W. Racing game apparatus. 3,762,712, 10-2-73, Cl. 273-130.00h.
Beachley, Robert W. Zero-ground fault-cutout desensitizing device. 3,764,855, 10-9-73, Cl. 317-18.00r.
Beachley, Robert W., Jr. Means for dual level ground fault protection of A.C. circuits. 3,764,853, 10-9-73, Cl. 317-18.00d.
Beachy, Dale K.: *See*—
Toperzer, John W.; and Beachy, Dale K., 3,757,849.
Beacom, Oliver J.; and MacBean, Donald G., to JWI Ltd. Insert for paper machine drainage elements. 3,732,142, 5-8-73, Cl. 162-374.000.
Bead Chain and Manufacturing Company, The: *See*—
Barnes, Robert E.; and Secor, Nelson A., 3,748,634.
Beadley, Charles Edward, Jr.: *See*—
Karsten, Kenneth S.; and Beadley, Charles Edward, Jr., 3,737,551.
Beadman, Terence Brockley, to Rolls-Royce Limited. Electronic rate means for a servo driven fuel control. 3,739,250, 6-12-73, Cl. 318-610.000.
Beagle Manufacturing Company: *See*—
McCracken, Robert S., 3,713,958.
Beagles, Robert, to TRW Inc. Intrustion detection system employing triple coincidence space-time logic. 3,715,712, 2-6-73, Cl. 340-276.000.
Beal, Jack L., to Wells Plastics of California, Inc. Plastic micro-electronic packages. 3,767,839, 10-23-73, Cl. 174-52.00s.
Beal, Lawrence E., to Eagle-Picher Industries, Inc. Tire building machine with telescopic interconnection for mounting a bead ring holder. 3,713,950, 1-30-73, Cl. 156-401.000.
Beal, Philip F.; and Shephard, Kenneth P., to Upjohn Company, The. 20,21-Acetonides of pregnenes, 16β-alkyl-17α, 20,21-trihydroxy pregnenes, and processes for the production thereof. 3,725,392, 4-3-73, Cl. 260-239.55d.
Beal, Philip F., III; Lincoln, Frank H., Jr.; and Babcock, John C., to Upjohn Company, The. Racemic dihydro-PGE$_1$ and related compounds. 3,711,528, 1-16-73, Cl. 260-468.00a.
Beal, Philip F., III; and Pike, John E., to Upjohn Company, The. Prostanoic acid derivatives. 3,725,454, 4-3-73, Cl. 260-488.00r.
Beal, Philip F., III; and Pike, John E. 9,15-Dihydroxy prastanoic acids and esters thereof. 3,726,909, 4-10-73, Cl. 260-468.00d.
Beal, Philip F., III; and Pike, John E., to Upjohn Company, The. Prostanoic acid derivatives. 3,729,502, 4-24-73, Cl. 260-468.00d.
Beal, Philip F., III; and Pike, John E., to Upjohn Company, The. PGA$_2$. 3,759,965, 9-18-73, Cl. 260-468.00d.
Beal, Thomas E.; and Curnow, John W., to Sperry Rand Corporation. Power transmission. 3,732,041, 5-8-73, Cl. 417-222.000.

Beal, Walter; Hobday, Cyril; Jack, James; and Keenan, John Francis Edmund, to Ciba-Geigy Corporation. Process for the dyeing of aromatic polyamide fibres. 3,713,769, 1-30-73, Cl. 8-173.000.
Beale, Alvin Francis, Jr., to Dow Chemical Company, The. Biuret-polyethylenimine resins. 3,737,414, 6-5-73, Cl. 260-77.50c.
Beale, John H.; and Carroll, Felix P., to Air Products and Chemicals, Inc. Process for preparation of a polyurethane foam using a polymeric liquid foam stabilizer. 3,746,663, 7-17-73, Cl. 260-2.5ag.
Beale, Julian Robert Anthony; and Kerr, John Anthony, to U.S. Philips Corporation. Methods of manufacturing a semiconductor device. 3,729,811, 5-1-73, Cl. 29-578.000.
Beale, Julian Robert Anthony; Beer, Andrew Francis; Klein, Thomas; and Murphy, Nigel Malcolm St. John, to U.S. Philips Corporation, mesne. Semiconductor devices. 3,745,425, 7-10-73, Cl. 317-235.00r.
Beale, Julian Robert Anthony, to U.S. Philips Corporation. Semiconductor device with internal channel stopper. 3,748,545, 7-24-73, Cl. 317-235.00r.
Beale, Julian Robert Anthony, to U.S. Philips Corporation. Method of manufacturing semi-conductor devices. 3,775,192, 11-27-73, Cl. 148-1.500.
Beall, David A. Portable hopper assembly for bulk material with selectively operable power and gravity feed. 3,744,677, 7-10-73, Cl. 222-162.000.
Beall, Francis C., to Research Corporation, mesne. Wood forming method. 3,717,187, 2-20-73, Cl. 144-327.000.
Beall, George H., to Corning Glass Works. Reduced silica-nucleated glass-ceramic articles. 3,713,854, 1-30-73, Cl. 106-39.0dv.
Beall, George H.; and Rittler, Hermann L., to Corning Glass Works. Glass-ceramics containing pollucite. 3,723,140, 3-27-73, Cl. 106-39.0dv.
Beall, George H.; and Rittler, Hermann L., to Corning Glass Works. Glass-ceramics containing mullite. 3,726,695, 4-10-73, Cl. 106-39.0dv.
Beall, George H., to Corning Glass Works. Strontium fluormica glass-ceramics. 3,756,838, 9-4-73, Cl. 106-39.600.
Beall, Richard W., Jr.: *See—*
Doornbos, William A., 3,730,191.
Beall, Robert A.: *See—*
Clites, Philip G.; and Beall, Robert A., 3,775,091.
Beall, William George. Marine elevator. 3,777,691, 12-11-73, Cl. 114-48.000.
Bealle, John; and Cash, John H., Jr., to Texas Instruments, Incorporated. Method of making glass bonded recording heads. 3,750,274, 8-7-73, Cl. 29-603.000.
Bealor, Jesse L., Jr., to United States of America, Navy. Sea bottom classifier. 3,757,287, 9-4-73, Cl. 340-3.00r.
Bealor, Jesse L., Jr., to United States of America, Navy. Method of making an acoustic window including filling honeycomb cells individually. 3,764,432, 10-9-73, Cl. 156-242.000.
Bealor, Jesse L., Jr.; and Lee, John V., to United States of America, Navy. Echo-range equalizer sonar system. 3,775,734, 11-27-73, Cl. 340-3.00a.
Beals, Charles D.; Fitzpatrick, George I.; and O'Hara, Kim L., to Esso Research and Engineering Company. Measuring pressure in a tubular reactor for polyethylene. 3,721,126, 3-20-73, Cl. 73-388.00r.
Beals, Clifford L. Medicine dispensing cabinet. 3,715,148, 2-6-73, Cl. 312-209.000.
Beals, Duane E.; and Page, Russell D., to Caterpillar Tractor Company. Adjustable control console for vehicles. 3,737,003, 6-5-73, Cl. 180-78.000.
Beam, Jimmie V. Device for cleaning exhaust products. 3,775,948, 12-4-73, Cl. 55-238.000.
Beam, Jon W. Smoking pipe and preformed charge combination. 3,765,428, 10-16-73, Cl. 131-196.000.
Beam, Paul E., Jr.; Hunt, Albert L., Jr.; and Spears, Esten W., Jr., to General Motors Corporation. Turbine stator cooling control. 3,736,069, 5-29-73, Cl. 415-115.000.
Beaman, Alden Gamaliel; and Miller, Oscar Neal, to Hoffmann-La Roche Inc. Nicotinic acid derivatives. 3,738,990, 6-12-73, Cl. 260-295.50r.
Beaman, Clayton E. Tire changing machine adapter. 3,709,279, 1-9-73, Cl. 157-1.240.
Beaman, David W.: *See—*
Bayer, Theodore H.; Beaman, David W.; and Tower, Dell K., 3,735,703.
Beamish, Bernard D.; and Taylor, David G. Apparatus and method for edge stitching/binding workpieces. 3,712,254, 1-23-73, Cl. 112-121.290.
Beamish, Bernard Delacour; and Taylor, David Grieve. Apparatus for making stitchable articles, especially shoes substantially of fabric material and a method therefor. 3,726,399, 4-10-73, Cl. 209-73.000.
Beamon, Howard L.: *See—*
Hanes, James Gordon, Jr.; King, James Frank; Lathery, Willie M.; Beamon, Howard L.; and Newlen, Kenneth W., 3,780,679.
Bean, Carl N., Jr. Combination car top rack and table. 3,731,859, 5-8-73, Cl. 224-42.010.
Bean, Charles P., to General Electric Company. Measurements of particles and molecules. 3,708,402, 1-2-73, Cl. 204-299.000.
Bean, Charles P.; and De Sorbo, Warren, to General Electric Company. Porous bodies and method of making. 3,770,532, 11-6-73, Cl. 156-7.000.
Bean, Claude T., Jr.: *See—*
Dorfman, Edwin; Emerson, William E.; Bean, Claude T., Jr.; and Carr, Russell L. K., 3,734,976.
Bean, Claude Thomas, Jr.: *See—*
Pawlak, Joseph A.; and Bean, Claude Thomas, Jr., 3,749,686.
Bean, Donald E.; Engh, James T.; Hammer, James R.; Igel, John J.; Schettl, Myron D.; Tashjian, Harry J.; and Ulimer, Richard J., to International Business Machines Corporation. Data recorder and verifier. 3,765,603, 10-16-73, Cl. 234-34.000.
Bean, Edwin T., Jr.: *See—*
Trbovich, Nicholas D.; Meyer, William H.; Bean, Edwin T., Jr.; and Robinson, William P., 3,758,113.
Bean, Frank J.; and Sheridan, John F. Lens circumference measuring instrument. 3,740,855, 6-26-73, Cl. 33-141.00e.
Bean, Frederic Roland: *See—*
Olivares, Ismael Adolfo; Bean, Frederic Roland; and Haist, Grant Milford, 3,730,727.
Bean, Jerome Benjamin, Jr.: *See—*
Ahrens, Paul Raymond; and Bean, Jerome Benjamin, Jr., 3,749,966.
Bean, Kenneth E.: *See—*
Pankratz, John M.; and Bean, Kenneth E., 3,765,747.
Bean, Kenneth E.; and Yeakley, Richard L., to Texas Instruments, Incorporated. High density integrated circuits. 3,725,160, 4-3-73, Cl. 156-17.000.
Bean, Kenneth E.; and Gleim, Paul S., to Texas Instruments, Incorporated. Dielectric isolation processes. 3,738,883, 6-12-73, Cl. 156-17.000.
Bean, Kenneth E., to Texas Instruments, Incorporated. Multi-component semiconductor network and method for making same. 3,740,276, 6-19-73, Cl. 148-175.000.
Bean, Kenneth E., to Texas Instruments, Incorporated. Double isolation for electronic devices. 3,769,562, 10-30-73, Cl. 317-235.00r.
Bean, Lloyd F.: *See—*
Mort, Joseph; Sharp, James H.; Bean, Lloyd F.; Chen, Inan; and Emerald, Robert L., 3,764,315.
Bean, Lloyd F., to Xerox Corporation. Methods of organized thermoplastic xerography and photoreceptor structure therefor. 3,719,483, 3-6-73, Cl. 96-1.100.
Bean, Lloyd F., to Xerox Corporation. Imaging system. 3,764,311, 10-9-73, Cl. 96-1.100.
Bean, Samuel L.; and Montone, Anthony W., to Allied Chemical Corporation. Process for the production of hydrous granular sodium silicate. 3,748,103, 7-24-73, Cl. 23-313.000.
Bean, Stephen F., to Autech, Corporation. Distance mode area navigation computer. 3,750,942, 8-7-73, Cl. 235-150.270.
Beane, James O.: *See—*
Adkins, William B.; Bauer, Thomas F.; and Beane, James O., 3,725,333.
Beans, Allen F.; Eddowes, Alfred M.; Gagliardi, Richard P.; and Koos, Edward E., to United States of America, Navy. Instantaneous frequency diversity radar system. 3,729,739, 4-24-73, Cl. 343-17.10r.
Beanstalk Shelving Limited: *See—*
James, David Maldon, 3,728,802.
Bear Brand Hosiery Co.: *See—*
Heinig, Richard H.; and Bowen, Omer, 3,745,793.
Bear Creek Mining Company: *See—*
Walthier, Thomas N.; Rosefelder, Andre Marcel; and Schatz, Clifford E., 3,750,547.
Bear, David L.: *See—*
Porter, Irwin C.; Barcus, Jack L.; Bear, David L.; and Marshall, James E., 3,774,914.
Bear, David L.; and Plurkowsky, Stephen W., to Mattel, Inc. Doll having posable arm joined thereto by elastically stretched connector. 3,713,252, 1-30-73, Cl. 46-120.000.
Bear, Fred B. Fletching machine. 3,717,919, 2-27-73, Cl. 29-208.00r.
Bear, Herman G.: *See—*
Prouty, Robert E.; and Bear, Herman G., 3,760,342.
Bear Manufacturing Corporation: *See—*
Hansen, Warren T., 3,748,969.
Bearce, Winfield Scott: *See—*
Symer, Orten Henry; and Bearce, Winfield Scott, 3,739,223.
Beard, Albert, to Firth Cleveland Extrusions, Limited. Self locking nuts. 3,734,156, 5-22-73, Cl. 151-21.00b.
Beard, Albert L.: *See—*
Hunter, John C.; and Beard, Albert L., 3,710,328.
Beard, Albert Le Messurier, to Honeywell Information Systems, Inc., mesne. Data processing system with selective character addressing of system store. 3,716,838, 2-13-73, Cl. 340-172.500.
Beard, Franklin; and Schwartz, Nelson E. Well pump and the method of pumping. 3,736,983, 6-5-73, Cl. 166-313.000.



Beard, Garry E., to Ford Motor Company. Distributor breaker plate assembly. 3,769,471, 10-30-73, Cl. 200-31.000.
Beard, Hoyt S., to Reynolds, R. J., Tobacco Company. Method for manufacturing jet impingement type filters for smoking articles. 3,778,328, 12-11-73, Cl. 156-215.000.
Beard, Hoyt S.; Payne, Leslie E.; and McArthur, Colin S., to Reynolds, R. J., Tobacco Company. Apparatus and method for manufacturing jet impingement type filters for smoking articles. 3,779,849, 12-18-73, Cl. 156-212.000.
Beard, Myron Gould: *See—*
Wen, Lian-Tong; and Beard, Myron Gould, 3,776,489.
Beard, Richard M.: *See—*
Kropfli, Robert A.; Katz, Isadore; Tritabaugh, Kenneth F.; and Beard, Richard M., 3,739,377.
Beard, Terry D.; and Bleha, William P., Jr., to Hughes Aircraft Company. Liquid crystal optical processor. 3,744,879, 7-10-73, Cl. 350-162.0sf.
Beard, Thomas N. Method of producing hydrocarbons from an oil shale formation containing halite. 3,753,594, 8-21-73, Cl. 299-4.000.
Beard, Thomas N., to Shell Oil Company. Method of producing hydrocarbons from an oil shale formation. 3,759,574, 9-18-73, Cl. 299-4.000.
Beard, Thomas N., to Shell Oil Company. Method of producing hydrocarbons from an oil shale formation containing nahcolite. 3,779,601, 12-18-73, Cl. 299-4.000.
Beard, Thomas N.; and Van Meurs, Peter, to Shell Oil Company. Process for solution mining nahcolite. 3,779,602, 12-18-73, Cl. 299-5.000.
Beard, Thomas Noble, to Shell Oil Company. Method of producing oil from an oil shale formation. 3,739,851, 6-19-73, Cl. 166-254.000.
Beard, Walter C. Self-venting vessel. 3,759,414, 9-18-73, Cl. 220-44.00r.
Beard, William L., Jr.; and Hahn, Ronald E., to Whirlpool Corporation. Knit cycle for clothes dryers. 3,714,717, 2-6-73, Cl. 34-45.000.
Beard, William Q., Jr., to Ethyl Corporation. Oxydehydrogenation of ethane. 3,769,362, 10-30-73, Cl. 260-677.0xa.
Bearde, John N.: *See—*
Kantarian, Edward T.; Bearde, John N.; and Staub, Donald F., 3,708,160.
Bearden, Edith Mae: *See—*
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Bearden, William G.: *See—*
Spurlock, James W.; Howard, George C.; and Bearden, William G., 3,768,557.
Bearden, William G.; and Howard, George C., to Pan American Petroleum Corporation. Multi-layer well screen. 3,712,373, 1-23-73, Cl. 166-232.000.
Bearden, William G.; deceased (by Bearden, Edith Mae; administratrix); Fast, Clarence R.; and Mallinger, Morton A.; deceased (by Mallinger, Zella K.; administratrix), to Amoco Production Company. Explosive fracturing method. 3,718,088, 2-27-73, Cl. 102-21.00.
Bearden, William G.; and Powers, Charles A., to Amoco Production Company. Production of petroleum from unconsolidated formations. 3,729,337, 4-24-73, Cl. 117-98.000.
Beardmore, Geoffrey, to Smiths Industries Limited. Gas-lubricated bearings. 3,726,572, 4-10-73, Cl. 308-9.000.
Beardmore, Geoffrey, to Smiths Industries Limited. Gyroscopes including gas lubricated bearings. 3,747,417, 7-24-73, Cl. 74-5.00r.
Beare, Robert B.; and Jack, Billy Gene, to Fedders Corporation. Dry detergent dispenser. 3,762,608, 10-2-73, Cl. 222-193.000.
Bearer, Louis C.: *See—*
Hughes, James K.; Stegelman, Albert F.; and Bearer, Louis C., 3,726,955.
Bearings, Seals & Gears, Inc.: *See—*
Carlson, Jerome A., 3,747,640.
Carlson, Jerome Albert, 3,759,592.
Bearson, Benhard M.; and Klingtvedt, Orrin C. Adjustable basketball goals. 3,765,676, 10-16-73, Cl. 273-1.50r.
Beasey, Ray A., to American Standard, Inc. Fireplace construction. 3,768,457, 10-30-73, Cl. 126-120.000.
Beasley, Donald L., to Townsend Engineering Company. Hold down attachment for a skinning machine. 3,733,997, 5-22-73, Cl. 99-233.110.
Beasley, Donald L., to Townsend Engineering Company. Stripper means for meat skinning machines. 3,741,105, 6-26-73, Cl. 99-589.000.
Beasley, Donald L., to Townsend Engineering Company. Meat emulsion pump. 3,742,556, 7-3-73, Cl. 17-37.000.
Beasley, Donald L., to Townsend Engineering Company. Fatting attachment for skinning machines. 3,742,841, 7-3-73, Cl. 146-130.000.
Beasley, Gordon Frank; and Whitehurst, George, to Lucas, Joseph, (Industries) Limited. Control apparatus for fuel injection system. 3,776,210, 12-4-73, Cl. 123-139.0am.
Beasley, Hazel A.: *See—*
Thomas, Dalton A., 3,780,840.
Beasley, Joseph D. Method and apparatus for repairing valve seats. 3,755,876, 9-4-73, Cl. 29-401.000.
Beasley, Maurice Trevor, to Lucas, Joseph, (Industries) Limited. Apparatus for hot runner injection moulding. 3,741,704, 6-26-73, Cl. 425-245.000.
Beasley, Maurice Trevor. Reflector panels for road vehicles. 3,748,724, 7-31-73, Cl. 29-558.000.
Beasley, Max M., to Tuftco Corporation. Bobbin creel. 3,716,203, 2-13-73, Cl. 242-131.000.
Beasom, James D., to Radiation Incorporated. Process for forming buried layers to reduce collector resistance in top contact transistors. 3,722,079, 3-27-73, Cl. 29-578.000.
Beasom, James Douglas, to Radiation Incorporated. Semiconductor Device. 3,729,661, 4-24-73, Cl. 317-235.00r.
Beason, Lew R.: *See—*
Hill, William E.; and Beason, Lew R., 3,764,417.
Beaston, Bud A. Device for locating sore spots on horse hooves. 3,777,741, 12-11-73, Cl. 128-2.000.
Beatenbough, Paul K.: *See—*
Scherer, Carl A.; and Beatenbough, Paul K., 3,708,998.
Beatenbough, Paul K.; Hutchins, Ward H.; and Richards, Gary E., to General Motors Corporation. Thermostatic vacuum positioner. 3,718,281, 2-27-73, Cl. 237-2.00a.
Beatenbough, Paul K.; Nichols, Gary E.; and Scherer, Carl A., to General Motors Corporation. Automatic expansion valve, pad mounted, non-piloted. 3,731,498, 5-8-73, Cl. 62-225.000.
Beatenbough, Paul K.; Dresch, Lewis E.; Hutchins, Ward H.; and Weiss, Walter W., to General Motors Corporation. Selector/programmer assembly for automatic temperature control. 3,731,729, 5-8-73, Cl. 165-16.000.
Beatenbough, Paul K., to General Motors Corporation. Automative refrigerant system. 3,738,120, 6-12-73, Cl. 62-229.000.
Beaton & Corbin Manufacturing Company, The: *See—*
Rush, Clifford W.; and Schurman, Peter T., 3,719,209.
Beaton, John M.: *See—*
Huber, Joel E.; and Beaton, John M., 3,767,546.
Beatrice Foods Co.: *See—*
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Binding, Kenneth W., 3,722,765.
Binding, Kenneth W.; and Cunningham, Stanley H., 3,726,410.
Gabler, Karl F., 3,744,781.
Gore, William C.; and Shapiro, Eugene B., 3,707,733.
Gore, William C.; and Shapiro, Eugene B., 3,709,256.
Gore, William C.; and Shapiro, Eugene B., 3,710,591.
Hamilton, Robert M.; and Ziccarelli, Salvatore F., 3,720,519.
Kasik, Robert L., 3,729,326.
Kasik, Robert L.; and Ludsas, Anthony J., 3,765,905.
Keyes, Richard Martin; and Herramann, William Christian, 3,729,177.
Kiziol, Walter, 3,734,076.
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Luksas, Anthony J.; and Williams, Wilmore, 3,711,303.
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Millar, John M.; and Moran, William F., 3,770,482.
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Schlies, Edward L.; Weaver, Harrison; Haun, John W.; and Hensel, Dwight L., 3,760,791.
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Beatrice Foods Co., mesne: *See—*
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Beatrice Foods Co.-Elgin Molded Plastics Div.: *See—*
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Beatson Clark & Company Limited: *See—*
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Beattie, Stephen J.: *See—*
Jackson, Thomas J.; Weltsch, Dan A.; and Beattie, Stephen J., 3,715,797.
Beatty, Bobby D.; Butts, Gary D.; Herold, Stanley J.; and La Grange, Donald E., to United States of America, Navy. Fuze having a pneumatic and inertia arming system. 3,724,385, 4-3-73, Cl. 102-81.000.
Beatty, John W., to General Electric Company. Means for reducing eddy current heating of a tank in electric apparatus. 3,761,599, 9-25-73, Cl. 174-15.00r.
Beatty, John W., to General Electric Company. Double-exhaust gas-blast curcuit breaker. 3,773,994, 11-20-73, Cl. 200-148.00b.
Beatty, John W., to General Electric Company. Gas blast circuit breaker of the axial blast type. 3,780,244, 12-18-73, Cl. 200-148.00b.
Beaty, Ronald W.: *See—*
Munyon, Julian M.; and Beaty, Ronald W., 3,771,892.
Beaty, Thomas, Jr.; and Samander, Asib S. Automatic stacking apparatus. 3,730,357, 5-1-73, Cl. 214-6.0dk.
Beaubien, Laurent A., to United States of America, Navy. Buoyant matrix materials. 3,733,629, 5-22-73, Cl. 9-8.00p.
Beaubien, Thomas S.: *See—*

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Beaucaire, Victor D.: *See—*
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Beaucamp, Klaus: *See—*
Bergmeyer, Hans Ulrich; Beaucamp, Klaus; Jaworek, Dieter; and Nelboeck-Hochstetter, Michael, 3,759,596.
Nelboeck-Hochstetter, Michael; and Beaucamp, Klaus, 3,749,709.

Beauchet, Jean, to Societe Nouvelle de Roulements. Combination bearing materials. 3,734,582, 5-22-73, Cl. 308-173.000.

Beauchet, Jean, to Societe Nouvelle de Roulements. Apparatus for machining bodies of revolution having a circular generatrix. 3,739,530, 6-19-73, Cl. 51-105.00r.

Beauchet, Jean, to Societe Nouvelle de Roulements. Tube cutting devices, notably for automatic lathes. 3,748,935, 7-31-73, Cl. 82-70.10r.

Beaudet, Camille Alphonse. Process for the preparation of beta-naphthoquinone semicarbazone. 3,758,520, 9-11-73, Cl. 260-396.00n.

Beaudin, Mary Louise. Candle canopy. 3,746,852, 7-17-73, Cl. 240-10.00r.

Beaufort (Air-Sea) Equipment Limited: *See—*
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Beaufort, Ronald E.: *See—*
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Beaufour, Albert H.; and Renault, Jean A. Amino pyrimidine derivatives and their preparation. 3,714,165, 1-30-73, Cl. 260-256.40n.

Beaufour, Albert H.; and Esanu, Andre, to Societe d'Etudes de Produits Chimiques. Chondroitin sulphuric acid salts. 3,719,665, 3-6-73, Cl. 260-234.00r.

Beaufour, Albert H., to Societe d'Etudes de Produits Chimiques. β-Pyridyl carbinol nicotinoyl glycinate. 3,770,753, 11-6-73, Cl. 260-295.50a.

Beaulieu, Alexandre J.; Fortin, Roger; Johnson, Derwyn C.; and Robinson, Alexander, to Canada, Her Majesty the Queen in the right of, as represented by the Minister of National Defence of Her Majesty's Canadian Government. Transverse electrode excitation o a molecular gas laser. 3,725,735, 4-3-73, Cl. 315-249.000.

Beaulieu, Bryan J.: *See—*
Boler, Leonard J.; Hanssen, Nels S.; Beaulieu, Bryan J.; Cherne, Lloyd G.; and Halvorson, Halvor O., 3,759,495.

Beaumont, William, Hospital: *See—*
Cook, Kenneth J., 3,747,605.

Beaunit Corporation: *See—*
Lusk, Harold B.; Cooke, Herbert E.; and Pryor, Leon D., 3,729,916.
Myers, William N.; and Hawkins, Miller C., 3,755,519.
Ragep, Gazie K., 3,729,336.

Beauregard, Louis, to Techno-Components Corporation. Automatic degating apparatus. 3,750,346, 8-7-73, Cl. 51-134.000.

Beauregard, Rejean; and Cote, Yvon, to Bombardier Limited. Retractable head lamp assembly. 3,742,205, 6-26-73, Cl. 240-7.10h.

Beausoleil, William F., to International Business Machines Corporation. Monolithic memory utilizing defective storage cells. 3,714,637, 1-30-73, Cl. 340-173.00r.

Beausoleil, William F., to International Business Machines Corporation. Key punch feature. 3,724,749, 4-3-73, Cl. 234-18.000.

Beausoleil, William F., to International Business Machines Corporation. Full capacity monolithic memory utilizing defective storage cells. 3,735,368, 5-22-73, Cl. 340-173.00r.

Beausoleil, William F.; Ho, Irving T.; and Pricer, Wilbur D., to International Business Machines Corporation. Integral hierarchical binary storage element. 3,740,723, 6-19-73, Cl. 340-172.500.

Beausoleil, William F.; and Phelps, Byron E., to International Business Machines Corporation. Shift register storage unit with multi-dimensional dynamic ordering. 3,766,534, 10-16-73, Cl. 340-172.500.

Beausoleil, William Francis, to International Business Machines Corporation. Address translation logic which permits a monolithic memory to utilize defective storage cells. 3,765,001, 10-9-73, Cl. 340-173.00r.

Beausoleil, William Francis, to International Business Machines Corporation. Monolithic memory utilizing defective storage cells. 3,781,826, 12-25-73, Cl. 340-173.00r.

Beauviala, Jean Pierre. Recording and reading device with head movement for compensation of irregularities in tape speed. 3,761,646, 9-25-73, Cl. 179-100.20r.

Beaver, Bob; and Turner, Edward T., Jr., to Weston Paper and Manufacturing Co., The. Counter display container. 3,737,094, 6-5-73, Cl. 229-34.00r.

Beaver, Dale M.: *See—*
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Beaver, Donald V.: *See—*
Driscoll, Richard P.; Lannert, James W.; and Beaver, Donald V , 3,778,014.

Beaver, Donald V., to All-Steel Inc. Unitary panel leg arrangement for office furniture. 3,779,622, 12-18-73, Cl. 312-194.000.

Beaver, Thomas R.: *See—*
Van Benthuysen, John D.; and Beaver, Thomas R., 3,732,520.

Beaver, Thomas R., to CTS Corporation. Method of making an electric switch. 3,718,106, 2-27-73, Cl. 113-119.000.

Beaver-Advance Corporation: *See—*
Gorgei, Donald J.; Weisz, Daniel I.; and Cooper, Russell B., 3,767,031.

Beavers, Bobby R., to LTV Altec, Inc. Directional loudspeaker system. 3,722,616, 3-27-73, Cl. 181-31.00b.

Beavers, Bobby R., to Advanced Technology Center, Inc., mesne. Method for making an acoustic transducer. 3,747,204, 7-24-73, Cl. 29-594.000.

Beavers, Jack L., to Design Products, inc. Free-standing panel system. 3,713,257, 1-30-73, Cl. 52-36.000.

Beavers, Leo E.; Lau, Philip T. S.; and Salminen, Ilmari F., to Eastman Kodak Company. Silver halide emulsion containing para-fluoro phenols. 3,758,308, 9-11-73, Cl. 96-100.000.

Beavon, David K., to Parsons, Ralph, Company, The. Recovery of sulfur compounds from tail gases. 3,752,877, 8-14-73, Cl. 423-244.000.

Beazley, Aubrey G., to Farah Manufacturing Company, Inc. Automatic sewing apparatus. 3,727,567, 4-17-73, Cl. 112-121.110.

Beazley, Aubrey G., to Farah Manufacturing Company, Inc. Pickup and transfer device. 3,727,775, 4-17-73, Cl. 210-1.0bc.

Beazley, Kenneth Michael; and Climpson, Margaret, to English Clays Lovering Pochin & Company Limited. Hydraulic fluids. 3,763,046, 10-2-73, Cl. 252-75.000.

Beazley, Phillip M.; and Norton, Charles J., to Marathon Oil Company. Purification of alkane sulfonate products. 3,729,507, 4-24-73, Cl. 260-513.00b.

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Bebbington, Alan: *See—*
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Bebeck, Andrew Henry, to Bell Telephone Laboratories, Incorporated. Domain propagation arrangement. 3,713,119, 1-23-73, Cl. 340-174.0tf.

Bebinger, Jack E., to Westinghouse Electric Corporation. Self-aligning bearing with multiple assembly sequence. 3,730,598, 5-1-73, Cl. 308-132.000.

Bebinger, Jack E., to Westinghouse Electric Corporation. Securing means for disposer sound jacket. 3,739,992, 6-19-73, Cl. 241-46.00b.

Bebinger, Jack E., to Westinghouse Electric Corporation. Food waste disposer. 3,768,744, 10-30-73, Cl. 241-32.500.

BEC Products, Inc., mesne: *See—*
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Dageford, Ernest C., 3,742,303.
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Becavin, Henri, to Thomson-CSF. Transmitter monitors for ILS beacons. 3,713,160, 1-23-73, Cl. 343-109.000.

Becavin, Henri, to Thomson-CSF. Rectilinear polarization antennas. 3,733,611, 5-15-73, Cl. 343-792.000.

Becavin, Henri G., to Thomson-CSF. High performance radio-navigation stationcus. 3,747,101, 7-17-73, Cl. 343-106.00r.

Becca, Guiseppe; and Origgi, Robert O. Method for obtaining images on metals. 3,759,753, 9-18-73, Cl. 148-6.300.

Beccu, Klaus; Gutjahr, Manfred; Ambert, Jack; and Keiser, Helmuth, to Battelle Memorial Institute. Electrode for electrochemical reduction of oxygen and process for its production. 3,753,782, 8-21-73, Cl. 136-120.0fc.

Bech, Mogens. Device comprising a number of rotatable shelves. 3,732,829, 5-15-73, Cl. 108-95.000.

Bechara, Ibrahim S.; De La Mater, George B.; and Milligan, Barton, to Air Products and Chemicals, Inc. Method for the preparation of aminocarboxylic acid salts. 3,708,533, 1-2-73, Cl. 260-531.00c.

Bechara, Ibrahim S.; De Lamater, George B.; and Milligan, Barton, to Air Products and Chemicals, Inc. Synthesis of oxycarboxylic acids salts. 3,717,676, 2-20-73, Cl. 260-531.00c.

Beche & Grohs GmbH: *See—*
Zimmer, Kurt; and Schneider, Wilhelm, 3,780,560.

Bechem, Werner: *See—*
Hox, Hans Werner; and Bechem, Werner, 3,709,018.

Becher, Heinz-Manfred; and Sehring, Richard, to Boehringer Ingelheim G.m.b.H. Acaricidal compositions containing an O-(2-alkyl-4,6-dinitro-phenyl)-O'-(α-carbalkoxy-alkyl)-carbonate. 3,733,415, 5-15-73, Cl. 424-301.000.

Bechle, Rudolph P., to Potdevin Machine Co. End folding machine. 3,771,280, 11-13-73, Cl. 53-32.000.

Bechler, Vernon D.: *See—*
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Becht, Andrew B. Magnetic tape head cleaning apparatus. 3,761,994, 10-2-73, Cl. 15-210.00r.

Becht, Carl T., to Senco Products, Inc. Fastener applying device. 3,730,414, 5-1-73, Cl. 227-130.000.

Becht, Guenter: *See—*
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Bechtef International Corporation: *See—*
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Bechtel, Alfred R., Jr., to Ashworth Bros. Inc. Card clothing. 3,737,953, 6-12-73, Cl. 19-113.000.





Bechtel, Bartow, to Texas Instruments, Incorporated. Independent aircraft landing monitor system. 3,716,860, 2-13-73, Cl. 343-11.00r.

Bechtel, Bartow; and Green, Max B., to Texas Instruments, Incorporated. Mechanically swept radar antenna for use with an aircraft landing monitor system. 3,739,385, 6-12-73, Cl. 343-705.000.

Bechtel, Bartow; and Snyder, John L., to Texas Instruments, Incorporated. Moving and hard target indicator. 3,755,812, 8-28-73, Cl. 343-7.700.

Bechtel International Corporation: *See—*
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Neville, Roy G., 3,725,346.

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Bechtel, Peter J., to Quaker Oats Company, The. Process for producing a canned egg in meat pet food. 3,738,847, 6-12-73, Cl. 99-187.000.

Bechter, Max: *See—*
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Bechthold, Horst: *See—*
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Bechtiger, Charles G., to Relhor S.A. Delayed snap action microswitch. 3,746,808, 7-17-73, Cl. 200-67.00h.

Bechtold, Charles Louis, to Colgate-Palmolive Company. Soap composition. 3,725,288, 4-3-73, Cl. 252-91.000.

Bechtold, Edwin W., to Itek Corporation. Aspheric lens surface. 3,781,097, 12-25-73, Cl. 351-167.000.

Bechtold, Johann, to Maschinenfabrik Moenus Aktiengesellschaft. Roughening machine for lasted uppers. 3,733,632, 5-22-73, Cl. 12-1.00r.

Bechtold, Max F., to Du Pont de Nemours, E. I., and Company. Hexa(alkoxymethyl)melamine-modified hydroxylated fluoropolymer coated articles. 3,762,940, 10-2-73, Cl. 117-76.00f.

Bechtold, Max F., to Du Pont de Nemours, E. I., and Company. Rotary heat engines. 3,769,796, 11-6-73, Cl. 60-108.000.

Bechtold, Max F.; and Mahler, Walter, to Du Pont de Nemours, E. I., and Company. Method of generating power. 3,772,878, 11-20-73, Cl. 60-36.000.

Bechtold, Max F.; Square, Kennett; and Tullock, Charles W., to Du Pont de Nemours, E. I., and Company. Method of generating power. 3,774,393, 11-27-73, Cl. 60-36.000.

Bechtold, William M.: *See—*
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Beck & Co. (Meters) Limited: *See—*
Petyt, Colin Roderick, 3,716,166.
Phillips, Hugh Edmund, 3,776,423.

Beck, Bruce D, Snowshoe binding. 3,744,162, 7-10-73, Cl. 36-2.5ab.

Beck Carton Corporation: *See—*
Hardy, Albert H., Sr., 3,765,531.

Beck, Charles I.: *See—*
Strommer, Palmer K.; and Beck, Charles I., 3,754,926.

Beck, Charles, Machine Corporation: *See—*
Allen, Philip, 3,777,455.

Beck, Clark H., to Nortec Electronics Corporation. Automatic liquid bubbler. 3,735,568, 5-29-73, Cl. 55-256.000.

Beck, David Walter. Boat ventilator. 3,741,100, 6-26-73, Cl. 98-37.000.

Beck, Don D. Endless cable way for transporting pipe. 3,713,547, 1-30-73, Cl. 214-2.500.

Beck, Edward: *See—*
Bedo, Alfred; and Beck, Edward, 3,761,053.

Beck, Edward G., Jr. Jig for use in apparatus for securing an elongated metal member to a flat metal sheet. 3,776,538, 12-4-73, Cl. 269-46.000.

Beck, Erich: *See—*
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Beck, Erich. Method of preparing regrind. 3,717,307, 2-20-73, Cl. 241-24.000.

Beck, Fritz: *See—*
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Beck, George W., to Safety Skate Company, Inc., The. Silencer for railcar retarders. 3,716,114, 2-13-73, Cl. 188-62.000.

Beck, George W., to Safety Skate Company, Inc., The. Silencer for boxcar retarders. 3,768,600, 10-30-73, Cl. 188-62.000.

Beck, Gunther: *See—*
Von Gizycki, Ulrich; Oertel, Gunter; and Beck, Gunther, 3,772,313.

Beck, Henry H. Air cushion conveyor lift cells. 3,727,984, 4-17-73, Cl. 302-29.000.

Beck, Henry N.; Ledbetter, Harvey D.; and Schmitt, John A., to Dow Chemical Company, The. Nucleation of normally crystalline vinylidene chloride polymers. 3,769,269, 10-30-73, Cl. 260-91.700.

Beck, Henry Nelson: *See—*
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Beck, Hugo: *See—*
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Beck, Jacob Howard, to BTU Engineering Corporation. Modular heater furnace. 3,729,570, 4-24-73, Cl. 13-25.000.

Beck, James, to Lilly, Eli, and Company. Sulfonamide compounds. 3,772,277, 11-13-73, Cl. 260-239.600.

Beck, James C.; and Nielsen, Harrie W., to Singer Company, The. Visual simulation optical system. 3,774,990, 11-27-73, Cl. 350-181.000.

Beck, James E.; and Ho, Edward J., to Bell & Howell Company. Audio-visual method and apparatus. 3,748,027, 7-24-73, Cl. 352-17.000.

Beck, James R., to Lilly, Eli, and Company. 1-(2-Carboxyphenyl)-5,7-dimethoxy-3,4-dihydrocarbostyril intemediates for acronyces. 3,728,350, 4-17-73, Cl. 260-287.00r.

Beck, James R., to Lilly, Eli, and Company. Synthesis of acronycine and related compounds. 3,732,204, 5-8-73, Cl. 260-279.00r.

Beck, James R., to Lilly, Eli, and Company. 3-(1,3-Dialkoxy-, and 1-hydroxy-3-alkoxy-9-oxo-4-acridanyl) propionates as intermediates for acronycine and related compounds. 3,766,187, 10-16-73, Cl. 260-279.00r.

Beck, Karl Maurice, to Abbott Laboratories. Cyclohexylammonium N-cyclohexylsulfmate as resin catalysts. 3,725,323, 4-3-73, Cl. 260-17.300.

Beck, Kenneth O.: *See—*
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Beck, Leonard R. Simplified valve assembly. 3,776,510, 12-4-73, Cl. 251-333.000.

Beck, Lloyd; Igarashi, Yoshiya; Thompson, Benjamin L.; and Thurman, Robert V., to United States of America, Navy. Underwater echo-ranging and signal-return correlation apparatus. 3,764,963, 10-9-73, Cl. 340-3.00r.

Beck, Louis: *See—*
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Beck, Manfred: *See—*
Graulich, Wilhelm; Beck, Manfred; Marwede, Gunter; and Theisen, Dieter, 3,769,369.
Theisen, Dieter; Haas, Friedrich; and Beck, Manfred, 3,732,338.

Beck, Manfred; Schuchter, Johann; Marwede, Gunter; and Kuntz, Egon, to Bayer Aktiengesellschaft. Processing of catalyst-containing polyisoprene solutions. 3,743,631, 7-3-73, Cl. 260-94.70n.

Beck, Marilyn: *See—*
Hou, Shou-Ling; Marley, James A., Jr.; and Beck, Kenneth O., 3,732,471.

Beck, Mark E.: *See—*
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Beck, Martin. Apparatus for harvesting sod. 3,747,686, 7-24-73, Cl. 172-20.000.

Beck, Maurice E., to Kunkle Valve Co., Inc. Valve and method of making the same. 3,777,783, 12-11-73, Cl. 137-625.500.

Beck, Maurice Sidney, to National Research Development Corporation. Detection of electrostatic charge in flowing materials. 3,753,102, 8-14-73, Cl. 324-109.000.

Beck, Maurice Sidney; Musgrave, Gerald; and Wormald, Colin Norman. Cross correlator. 3,777,133, 12-4-73, Cl. 235-181.000.

Beck, Norman A., to Koppers Company, Inc. Selective drum printer with pawl means to lock the type wheel in selected position. 3,730,085, 5-1-73, Cl. 101-110.000.

Beck. Richard, Jr., to Sundstrand Corporation. Centrifugal. 3,734,637, 5-22-73, Cl. 415-122.00r.

Beck, Robert E., to Fellowes Manufacturing Company. Storage box for storing hanging file folders. 3,724,920, 4-3-73, Cl. 312-184.000.

Beck, Robert Haun, to Du Pont de Nemours, E. I., and Company. Photographic developing apparatus. 3,774,521, 11-27-73, Cl. 95-89.00r.

Beck, Robert W., to Esso Production Research Company. Mooring anchor. 3,766,877, 10-23-73, Cl. 114-208.00r.

Beck, Roderick; Harmon, James F.; Shatila, Mounir A.; Richins, David A.; and Lach, John, to American Potato Company. Method for forming French-fry-cut potato pieces. 3,764,345, 10-9-73, Cl. 426-506.000.

Beck, Roderick G.: *See—*
Rainwater, Joe H.; and Beck, Roderick G., 3,764,716.

Beck, Ronald A., to Sperry Rand Corporation. Method of forming keepered word line plated wire memory array. 3,765,081, 10-16-73, Cl. 29-604.000.

Beck, Walter: *See—*
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Beck, William Donald; and Crawford, Juan Hamilton, to Ocean Systems, Inc. Volumetric gas mixing system. 3,762,428, 10-2-73, Cl. 137-88.000.

Beck, William H.; and Cardwell, Gilbert I., Jr., to Garrett Corporation, The. Single reactor force commutated chopper. 3,763,418, 10-2-73, Cl. 321-45.00c.

Beck, William R.: *See—*
Parkhurst, Robert H.; Beck, William R.; and Bungo, Edward M., 3,757,824.

Becka, Michael M.: *See—*
Kamborian, Jacob S.; and Caris, Costa, 3,775,797.
Becke, Edward G., to United States of America, Navy. Plug in antenna, antenna base and test probe system. 3,725,849, 4-3-73, Cl. 339-92.00r.
Becke, Friedrich: *See—*
Hagen, Helmut; and Becke, Friedrich, 3,776,870.
Hagen, Helmut; Becke, Friedrich; and Niemeyer, Juergen, 3,776,910.
Kohlhaupt, Reinhold; and Becke, Friedrich, 3,709,895.
Becke, Friedrich B., to Badische Maschinenfabrik GmbH. Automatic molding plant operation method. 3,743,004, 7-3-73, Cl. 164-18.000.
Becke, Hans W.: *See—*
White, Joseph P.; Amantea, Robert; and Becke, Hans W., 3,769,561.
Becke, Theobald: *See—*
Bergerhoff, Klaus-Peter; and Becke, Theobald, 3,741,419.
Beckenbach, Karl. Inclined hearth kiln for the firing and sintering of material. 3,765,827, 10-16-73, Cl. 432-95.000.
Becker & Van Hullen Niederrheinische Maschinenfabrik: *See—*
Hutter, Wilhelm, 3,761,337.
Becker, Anthony F. Floor scraper. 3,733,637, 5-22-73, Cl. 15-93.00r.
Becker, Anthony F., to DND Corporation. Flange facing machine. 3,762,246, 10-2-73, Cl. 82-4.00c.
Becker, Anthony F.; Crook, W. Mack; Sherer, Charles R.; Lilly, Mason M.; and Kinzbach, Robert B., to DND Corporation. Flange facing machine. 3,772,944, 11-20-73, Cl. 82-4.00c.
Becker, Arno, to Bruckner Apparatebau GmbH. Apparatus for the wet treatment of a textile web. 3,779,049, 12-18-73, Cl. 68-158.000.
Becker, Brant W.: *See—*
Gordon, Bernard M.; Becker, Brant W.; and Prescott, Charles, 3,780,353.
Horwitz, Joshua; Gordon, Bernard M.; and Becker, Brant W., 3,718,923.
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Becker, Charles A.: *See—*
Rickrode, Cyril J.; and Becker, Charles A., 3,722,144.
Becker, Edward A., to Intertherm, Inc. Supplemental heater unit for air conditioner of the dual blower type. 3,731,056, 5-1-73, Cl. 219-361.000.
Becker, Eilhard J., to Emerson Electric Co. Manual reset device with indicating means. 3,737,606, 6-5-73, Cl. 200-169.0pb.
Becker, Erwin; and Schutte, Rolf, to Gesellschaft fur Kernforschung m.b.H. Device for the separation of gaseous or vaporous substances, especially isotopes, with different molecular weights and/or different gas kinetic cross sections. 3,708,964, 1-9-73, C. 55-392.000.
Becker, Erwin; and Putscher, Johann, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus for use with flashcubes or the like. 3,747,491, 7-24-73, Cl. 95-11.00l.
Becker, Gene J. Loader bucket with positive endward ejector. 3,750,816, 8-7-73, Cl. 214-767.000.
Becker, George A.: *See—*
Hanel, Phil G.; and Becker, George A., 3,762,979.
Becker, George L.: *See—*
Tryzna, Joseph J.; and Becker, George L., 3,716,400.
Becker, Gordon D. Locking device for extensible tubes. 3,724,885, 4-3-73, Cl. 287-58.0ct.
Becker, Gunter E.; and Santoro, Joseph F., to Xerox Corporation. Cleaning apparatus for insulating surfaces. 3,766,593, 10-23-73, Cl. 15-308.000.
Becker, H. Jack: *See—*
Taylor, Marvin A.; Johnson, Glenn H.; and Becker, H. Jack, 3,751,111.
Becker, Hans-Dieter; and Gilbert, Alfred R., to General Electric Company. Halogenated biphenols and methods for preparing the same. 3,720,721, 3-13-73, Cl. 260-620.000.
Becker, Hans-Dieter; and Gilbert, Alfred R., to General Electric Company. Halogenated biphenol polyesters and polycarbonates. 3,748,303, 7-24-73, Cl. 260-47.0xa.
Becker, Harold D., to Datel Corporation. Ribbon shift assembly. 3,741,364, 6-26-73, Cl. 197-151.000.
Becker, Harold D., to Datel Corporation. Operational input control mechanism. 3,750,793, 8-7-73, Cl. 197-19.000.
Becker, Harold S.: *See—*
Gordon, Theodore J.; and Becker, Harold S., 3,766,541.
Becker, Herbert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Mixture of a radioactive tracer substance and a propellent for marking drilling tools for deep wells and similar boreholes. 3,716,426, 2-13-73, Cl. 149-38.000.
Becker, Herbert W., Jr.; and Gardner, Harry R., to Greif Bros. Corporation. Drum with plastic liner. 3,756,494, 9-4-73, Cl. 229-14.00b.
Becker, Herrmann. Protective enclosures for ski bindings. 3,737,171, 6-5-73, Cl. 280-11.37k.
Becker, James F., to Beloit Corporation, Downingtown Division. Retractable overhead crimper. 3,740,924, 6-26-73, Cl. 53-380.000.
Becker, James F., to Downingtown Division, Beloit Corporation. Wrapper selector and dispenser. 3,776,081, 12-4-73, Cl. 83-272.000.
Becker, James H.: *See—*
Wysocki, Joseph J.; Adams, James E.; Becker, James H.; Madrid, Robert W.; and Haas, Werner E. L., 3,711,713.
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Wysocki, Joseph J.; Adams, James E.; Becker, James H.; Madrid, Robert W.; and Haas, Werner E. L., 3,718,382.
Becker, James M.; and Jackson, William E. Moment monitoring system for boom-cable type cranes. 3,771,667, 11-13-73, Cl. 212-39.00r.
Becker, James R.; and Furlow, Richard H. Aerosol fire extinguisher and method. 3,721,300, 3-20-73, Cl. 169-31.00r.
Becker, John E., to Eclipse Consultants, Limited. Valve controlled hydraulic coupling. 3,751,923, 8-14-73, Cl. 60-359.000.
Becker, John G.: *See—*
Stebbins, George B.; Stebbins, James F.; and Becker, John G., 3,722,687.
Becker, John G. Rotary type oil or water pump. 3,753,628, 8-21-73, Cl. 417-310.000.
Becker, John V.; and Bellinger, Arthur A., to National Lead Company. Process for producing titanium dioxide product containing aluminum oxide. 3,734,761, 5-22-73, Cl. 106-300.000.
Becker, Joseph Gerald; Mitchell, Robert Lee; and Pierson, William Grant, to Colgate-Palmolive Company. Oral compositions containing an enzyme. 3,733,399, 5-15-73, Cl. 424-50.000.
Becker, Joseph J.; and Cech, Robert E., to General Electric Company. Permanent magnet material powders having superior magnetic characteristics and method. 3,738,876, 6-12-73, Cl. 148-105.000.
Becker, Joseph J.; Schulte-Elte, Karl-Heinrich; and Ohloff, Gunther, to Firmenich S.A., mesne. Methods for the manufacture of macrocyclic compounds. 3,778,483, 12-11-73, Cl. 260-666.0py.
Becker, Karl, KG Maschinenfabrik: *See—*
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Becker, Karl V.: *See—*
Pelletter, R. T.; and Becker, Karl V., 3,727,257.
Becker, Klaus; and Sprung, Hartwig, to Demag Aktiengesellschaft. Monorail. 3,760,737, 9-25-73, Cl. 104-89.000.
Becker, Lanson; and Huffman, Theron M., to General Signal Corporation. Power steering system affording emergency steering capability. 3,719,249, 3-6-73, Cl. 180-79.20r.
Becker, Larry T.: *See—*
Nyman, Bengt E.; and Becker, Larry T., 3,733,931.
Becker, Manfred, to Siemens Aktiengesellschaft. Method and apparatus for storing information in a magneto-optical memory. 3,739,394, 6-12-73, Cl. 346-74.0mt.
Becker, Michael, to Siemens Aktiengesellschaft. Control device for filter circuits connected in parallel with each other and tuned to different resonance frequencies. 3,737,791, 6-5-73, Cl. 328-167.000.
Becker, Otto Alfred. Resistance welding of sheet metal coated with layers. 3,778,583, 12-11-73, Cl. 219-91.000.
Becker, Paul: *See—*
Kapp, Ernst; and Becker, Paul, 3,720,625.
Becker, Paul Horst: *See—*
Hurtig, Roy Eugene; Geri, Don Winston; and Becker, Paul Horst, 3,720,150.
Becker, Philip D., to Buell Industries. Automobile bumper assembly. 3,731,961, 5-8-73, Cl. 287-189.36f.
Becker, Philipp: *See—*
Lindsay, Anthony; Imperati, Ronald Lee; and Becker, Philipp, 3,778,202.
Becker, Raymond: *See—*
Blemly, Marvin S.; and Becker, Raymond, 3,727,560.
Becker, Reinhard, to Becker, Karl, KG Maschinenfabrik. Apparatus for separating and/or counting individual elements of a plurality. 3,715,057, 2-6-73, Cl. 221-211.000.
Becker, Richard W.; and Dappen, Glen M., to Eastman Kodak Company. Diffusion transfer reception elements film units and processes therefor. 3,721,555, 3-20-73, Cl. 96-29.00d.
Becker, Richard W.; Ford, John A., Jr.; Fields, Donald L.; and Reynolds, Delbert D., to Eastman Kodak Company. Selective transfer system and compounds for employment therein. 3,728,113, 4-17-73, Cl. 96-3.000.
Becker, Robert H.: *See—*
Bowermaster, Riley J.; and Becker, Robert H., 3,772,448.
Becker, Robert N.: *See—*
Spisak, Raymond J.; Becker, Robert N.; and McKeithan, Wesley L., 3,731,018.
Becker, Roger T.; McMullin, Donald, Jr.; and Nelson, John J., to Kalamazoo Conveyor Company. Chain for flight conveyor. 3,762,535, 10-2-73, Cl. 198-168.000.
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Becker, Rudolf, to Linde Aktiengesellschaft Zentrale Patentabteilung. Fractionation of air by using refrigeration fro open cycle evaporation of external cryogenic liquid. 3,707,849, 1-2-73, Cl. 62-40.000.
Becker, Rudolf, to Knorr-Bremse GmbH. Apparatus for sorting elongated articles. 3,716,123, 2-13-73, Cl. 193-40.000.
Becker, Rudolf, to Linde Aktiengesellschaft. Regenerator. 3,756,310, 9-4-73, Cl. 165-4.000.
Becker, Rudolf, to Linde Aktiengesellschaft. Short term storage of natural gas. 3,760,597, 9-25-73, Cl. 62-47.000.
Becker, Russell D. Traction pads. 3,749,309, 7-31-73, Cl. 238-14.000.
Becker, Wallace E., to Colgate-Palmolive Company. Method of sugar-coating tablets. 3,753,767, 8-21-73, Cl. 117-100.00a.
Becker, Werner. Printing or stamping device with type belts. 3,744,411, 7-10-73, Cl. 101-111.000.
Becker, Wilhelm, to Reichhold-Albert-Chemie Aktiengesellschaft. N-alkylene-oxy-alkyleneamines of hydroxybenzylamines. 3,734,965, 5-22-73, Cl. 260-570.50p.
Becker, Wilhelm, to Reichhold-Albert-Chemie Aktiengesellschaft. N-Hydroxybenzyl-α,α'-xylene-diamines. 3,751,471, 8-7-73, Cl. 260-570.500.
Becker, Wilhelm, to Reichhold-Albert-Chemie Aktiengesellschaft. Process for the manufacture of glycidyl ethers. 3,766,221, 10-16-73, Cl. 260-348.600.
Becker, Willi, to Pfeiffer, Arthur, Vakuumtechnik GmbH. Rotor and stator wheel construction for a turbo molecular pump. 3,748,055, 7-24-73, Cl. 415-90.000.
Becker, Willi, to Pfeiffer, Arthur, Vakuumtechnik GmbH. Bearing arrangement for molecular and turbo molecular pumps. 3,759,626, 9-18-73, Cl. 415-90.000.
Beckerbauer, Richard, to Du Pont de Nemours, E. I., and Company. Unsaturated-hydroperfluoroalkylsulfonyl fluorides. 3,714,245, 1-30-73, Cl. 260-543.00f.
Beckering, Jacobus J.; Weber, Edwin J.; and Secoura, Ralph J., to Black and Decker Manufacturing Company, The. Hand-operated tool with switch actuator having three-position lock-off assembly. 3,780,246, 12-18-73, Cl. 200-157.000.
Beckers, Hans. Treating of discrete containers. 3,775,229, 11-27-73, Cl. 161-47.000.
Beckers, Norman L., to Diamond Shamrock Corporation. Chlorinated hydrocarbons stabilized with alkoxyaldehyde hydrazone and glycidol. 3,714,052, 1-30-73, Cl. 252-171.000.
Beckers, Norman L., to Diamond Shamrock Corporation. Purification of chlorinated hydrocarbons employing molecular sieves. 3,751,494, 8-7-73, Cl. 260-654.00s.
Beckert, Werner F.; Dengel, Ottmar H.; and McKain, Rodger W., to United States of America, Navy. Hydrogen generating compositions. 3,734,863, 5-22-73, Cl. 252-188.000.
Beckham, Clarence F.: *See—*
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Beckham, David Scott: *See—*
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Beckinger, Gunter; Goullon, Hannes; Wiest, Gerhard; Wehrend, Klaus; and Kiessling, Hans-Albrecht, to Siemens Aktiengesellschaft. Program control unit for a digital data processing installation. 3,736,563, 5-29-73, Cl. 340-172.500.
Beckius, Herbert J. P.: *See—*
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Beckley, William E. Dry chemical unit-fire truck. 3,736,985, 6-5-73, Cl. 169-31.00p.
Beckman, Eugene B., to Foster Wheeler Corporation. Support for reheater and superheater elements. 3,768,448, 10-30-73, Cl. 122-510.000.
Beckman, Frank H.: *See—*
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Barter, Le Roy D., 3,767,899.
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Beckman, Milo H., to ESB Incorporated. Method for forming and placing tubular battery separators and means embodying the method. 3,736,655, 6-5-73, Cl. 29-592.000.
Beckman, Orval E.; and Klymkiw, Walter, to Zenith Radio Corporation. Fine-tuning and stereo indicator system. 3,732,498, 5-8-73, Cl. 325-398.000.
Beckman, Richard K.; and Spangler, Burton H. Audio-visual teaching unit. 3,728,801, 4-24-73, Cl. 35-60.000.
Beckman R.I.I.C., Ltd.: *See—*
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Beckmann, Gunter; Dietrich, Johannes; and Pfeiffer, Kurt, to Chemische Werke Huls Aktiengesellschaft. Polymerization reactor. 3,749,555, 7-31-73, Cl. 23-285.000.
Beckmann, Horst: *See—*
Glaser, Hans Joachim; and Beckmann, Horst, 3,738,928.
Beckner, Carol R.; and Kasper, Klaus B., to Schoeller Technical Papers, Inc. Opaque papers and photographic papers prepared therefrom. 3,758,376, 9-11-73, Cl. 162-162.000.
Beckner, Charles E. Snow removal attachment device for rotary-type mowers. 3,775,878, 12-4-73, Cl. 37-43.001.
Beckstrom, Daniel H., to Kimberly-Clark Corporation. Web strength and tensile tester and method. 3,724,266, 4-3-73, Cl. 73-95.000.
Beckwith Carbon Corporation: *See—*
Cowlard, Frederick Claud, 3,720,575.
Beckwith, Clinton H.: *See—*
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Beckwith, Merton M.: *See—*
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Beckwith, Merton M.; and Hsu, Grace F., to Conversion Chemical Corporation. Bath and method for electrodepositing tin and/or lead. 3,769,182, 10-30-73, Cl. 204-43.00s.
Beckwith, Robert C.; and Hecker, Robert W., Jr., to Rite-Hite, mesne. Dockboard. 3,728,753, 4-24-73, Cl. 14-71.000.
Beckwith, Robert W. Regulator control. 3,721,894, 3-20-73, Cl. 323-20.000.
Becraft, Ardath M.; and Hammer, Clifford E., to United States of America, Air Force. Method of aligning laser beam by rotation. 3,718,398, 2-27-73, Cl. 356-153.000.
Becton, Dickinson and Company: *See—*
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Bed-Well Corporation: *See—*
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Bedard, Eugene. Snow vehicle and suspension system therefor. 3,744,583, 7-10-73, Cl. 180-5.00r.

Bedard, Francis L.; and Price, Robert T., to General Motors Corporation. Speed limiting means for an air valve carburetor. 3,754,540, 8-28-73, Cl. 123-103.000.

Beddoe, George H.: *See—*
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Beddow, Elmer J., to Elec-Tron, Inc. Rotary switch with enlarged shaft journaled in and removable through switch cover. 3,780,245, 12-18-73, Cl. 200-155.00r.

Beddows, Norman Anthony, to General Electric Company. Method of making flexible loop, hard slot coils for dynamoelectric machine windings. 3,750,273, 8-7-73, Cl. 29-596.000.

Bede, James R. Aircraft pants structure. 3,750,986, 8-7-73, Cl. 244-103.00r.

Bedell, John R.: *See—*
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Bedell, Stanley F., to Polaroid Corporation. Color diffusion transfer image-receiving layer comprising a graft copolymer wherein the grafted moiety has mordant capability. 3,756,814, 9-4-73, Cl. 96-3.000.

Bedell, Stanley F., to Polaroid Corporation. Neutralizing layer for color diffusion transfer film. 3,765,885, 10-16-73, Cl. 96-3.000.

Beden, Moses. Valve. 3,741,228, 6-26-73, Cl. 137-614.200.

Bedenk, William T.; and Mitchell, John W., to Procter & Gamble Company, The. Production of puffed ready-to-eat cereal products. 3,708,308, 1-2-73, Cl. 99-81.000.

Bedenk, William T.; and O'Connor, David E., to Procter & Gamble Company, The. Process for production of soy-containing breakfast cereals. 3,753,728, 8-21-73, Cl. 99-81.000.

Bedetti, Gianfranco: *See—*
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Bedford, Beryl A. Automatic switch for slaughterhouse and meat packer rails. 3,739,727, 6-19-73, Cl. 104-103.000.

Bedford, Burnice D., to General Electric Company. Versatile cycloinverter power converter circuits. 3,742,336, 6-26-73, Cl. 321-69.00r.

Bedford, Edward F.; and Russo, Thomas C., to ATCO, Inc. Apparatus for indicating magnitude of vibrations. 3,726,145, 4-10-73, Cl. 73-457.000.

Bedford, John: *See—*
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Bedin, Jean Emile. Multiple bottling and labelling machines. 3,765,460, 10-16-73, Cl. 141-98.000.

Bedker, Bruce D. Composite thread roll. 3,774,432, 11-27-73, Cl. 72-103.000.

Bedmond, Redmond, D., Jr., to Gates Rubber Company, The. Cogbelt and method for its production. 3,772,929, 11-20-73, Cl. 74-231.00c.

Bednarczuk, Daniel; and Milton, Arnold T. Protectors and knee guards. 3,742,517, 7-3-73, Cl. 2-22.000.

Bednarski, Thaddeus E., to Black and Decker Manufacturing Company, The. Method of making an insulated armature. 3,737,987, 6-12-73, Cl. 29-596.000.

Bednarski, Thaddeus E., to Black and Decker Manufacturing Company, The. Method of bonding armature sub-assemblies. 3,737,988, 6-12-73, Cl. 29-596.000.

Bednarz, Othneil A. Ignition distributor. 3,751,610, 8-7-73, Cl. 200-19.00r.

Bedo, Alfred; and Beck, Edward, to Sno-Trik Company. High pressure valve. 3,761,053, 9-25-73, Cl. 251-88.000.

Bedrosian, Paul H., to United States of America, Health, Education, and Welfare. Shipping container for radioactive material using safety closure devices. 3,710,121, 1-9-73, Cl. 250-108.00r.

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Beduchaud, Michel, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Optical scanning assembly with helical-shaped rotating reflector. 3,729,248, 4-24-73, Cl. 350-7.000.

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Caruel, Jacques Emile Jules; Cantaloube, Bernard Andre; Stora, Guy Daniel; Bedue, Jean Robert; Gastebois, Philippe Marc Denis; and Guillevere, Herve Alain, 3,757,522.

Bedwell, Thomas Albert; and McWhirt, Bobby Dwayne, to Hesston Corporation. Structure for varying relative positions of conveyors. 3,722,673, 3-27-73, Cl. 209-73.000.

Bedwell, Thomas Albert, to Hesston Corporation. Control for ground tools of farm implements. 3,743,023, 7-3-73, Cl. 171-5.000.

Beears, Warren L., to Goodrich, B. F., Company, The. N,N'-alkylenebis [β-(alkyl-carboxyalkylthio) propionamides]. 3,742,032, 6-26-73, Cl. 260-481.00r.

Bearers, Warren L., to Goodrich, B. F., Company, The. Phenol-bisamide stabilizer combinations for polyolefins. 3,764,580, 10-9-73, Cl. 260-45.80n.

Beebe, James H.: *See—*
Trogan, John F.; and Beebe, James H., 3,709,077.

Beebe, William F.: *See—*
Neff, Charles G.; and Beebe, William F., 3,746,369.

Beech, Sydney George, to Mansfield Heat Limited. Electric cooking ovens. 3,731,039, 5-1-73, Cl. 219-407.000.

Beecham Group Limited: *See—*
Billett, Eric Harold; and Miller, David, 3,736,347.
Brown, David Maxwell; and Watts, Eric Alfred, 3,725,429.
Burdidge, Colin, 3,772,149.
Cole, Martin; and Planterose, Donald N., 3,712,944.
Cole, Martin; and Rolinson, George Newbolt, 3,737,523.
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Harnden, Michael Raymond, 3,775,399.
Heyes, James; and Ward, Neal, 3,772,319.
Mamalis, Patrick; and Outred, Dennis J., 3,723,429.
Mehta, Minoo Dossabhoy; and Bainbridge, John Graham, 3,746,743.
Melton, Timothy; and Thorne, David Edward, 3,758,574.
Mullan, Noel Austin; and Overell, Brian G., 3,761,585.
Shaltiel, Shmuel; and Sela, Michael, 3,770,584.

Beecham Group Limited, mesne: *See—*
Pars, Harry G.; and Razdan, Raj K., 3,732,233.
Razdan, Raj Kumar; and Thompson, William Raymond, 3,726,883.

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Beecroft, William C.: *See—*
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Beede Electrical Instrument Co., Inc.: *See—*
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Beedy, Robert G., to Bunn, B. H., Company. Dual tension string holder. 3,708,190, 1-2-73, Cl. 289-13.000.

Beehive Machinery Inc.: *See—*
McFarland, Archie Rae, 3,739,994.

Beehler, Richard F., to Lau Incorporated. Vibration damping hub propeller type fans. 3,708,999, 1-9-73, Cl. 64-11.00r.

Beehler, Richard F., to Lau Incorporated. Shaft and hub assembly and improved clip fastener therefor. 3,709,531, 1-9-73, Cl. 287-53.00h.

Beehler, Vernon D.: *See—*
Weissenbach, Joseph, 3,752,355.

Beehler, Willaim H. Umbrella handle attachment. 3,756,259, 9-4-73, Cl. 135-47.000.

Beeken, Basil B.: *See—*
O'Keefe, Robert F.; and Beeken, Basil B., 3,731,708.

Beeken, Basil B., to Automatic Switch Co., mesne. Proximity sensing device. 3,709,027, 1-9-73, Cl. 73-37.500.

Beeken, Basil B.; and O'Keefe, Robert F., to Automatic Switch Co., mesne. Acoustic sensing device. 3,729,702, 4-24-73, Cl. 340-1.00r.

Beeken, Basil B., to Pitney-Bowes, Inc. Acoustical sensing curtain. 3,733,580, 5-15-73, Cl. 340-1.00r.

Beeken, Basil B.; and Ignatjev, Vladimir, to Automatic Switch Co., mesne. Fast acting, low pressure, two positioned valve. 3,749,127, 7-31-73, Cl. 137-625.600.

Beeker, Charles W.; and Crabtree, Royale R., to United States of America, Army. Helicopter sling load electrical adapter. 3,720,902, 3-13-73, Cl. 339-2.00r.

Beekman, Stewart M., to Chatten Chemicals; division of Chattem Drug & Chemical Company. Stable reactive aluminum hydroxide dried gel and method of making same. 3,773,918, 11-20-73, Cl. 423-629.000.

Becler, David R.: *See—*





Copeland, Robert L.; Gamble, Bobby G.; Chase, Vance A.; and Beeler, David R., 3,713,961.
Copeland, Robert L.; Moorefield, Samuel A.; Beeler, David R.; and Chase, Vance A., 3,764,449.

Beeler, James E.: *See—*
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Becley, Michael G.: *See—*
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Beeley, Michael G.; and Thompson, Richard D., to McGraw-Edison Company. Garment press head safety control. 3,722,116, 3-27-73, Cl. 38-27.000.

Beeli, Johann Battesta, to International Telephone and Telegraph Corporation. Television camera tube having channel multiplier surrounding electron gun. 3,716,738, 2-13-73, Cl. 313-65.00r.

Beeli, Johann Battesta; Brown, Roger Henry; and Reif, Philip George, to International Telephone and Telegraph Corporation. Photo-multiplier structure. 3,746,903, 7-17-73, Cl. 313-67.000.

Beelitz, Howard Raymond, to RCA Corporation. Voltage driver circuit. 3,725,801, 4-3-73, Cl. 330-30.00d.

Beeman, Robert H.; and Tarr, Lloyd A., to GTE Automatic Electric Laboratories, Incorporated. Multi-frequency tone detector. 3,760,269, 9-18-73, Cl. 324-78.00d.

Been, Julian F., to United States of America, National Aeronautics and Space Administration. Method and apparatus for measuring electromagnetic radiation. 3,745,357, 7-10-73, Cl. 250-83.30r.

Beenhakker, Albertus Hendrik; and Felthuis, Jacob, to Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V. Heat regenerator, particularly a hot blast stove for a blast furnace plant. 3,713,632, 1-30-73, Cl. 263-19.00r.

Beer, Andrew Francis: *See—*
Beale, Julian Robert Anthony; Beer, Andrew Francis; Klein, Thomas; and Murphy, Nigel Malcolm St. John, 3,745,425.

Beer, Bernard: *See—*
Clody, Donald E.; Beer, Bernard; Vogel, John; and Horovitz, Zula P., 3,740,433.

Beer, Carl C.; and Larson, Sherman L., to Sherman Car Wash Equipment Company. Car wash conveyor. 3,724,390, 4-3-73, Cl. 104-172.00b.

Beer, Donald Courtney, to Otehall Limited. Lever operated electrical switches. 3,774,000, 11-20-73, Cl. 200-172.00a.

Beer, Egon. Automated track-guided material handling system with electrical pulse programming. 3,722,426, 3-27-73, Cl. 104-88.000.

Beer, Ernst. Cathodic protection device. 3,772,179, 11-13-73, Cl. 204-197.000.

Beer, Heinz: *See—*
Olsen, Willi; and Beer, Heinz, 3,740,508.

Beer, Henri Bernard, to Chemnor Corporation. Electrode having platinum metal oxide coating thereon, and method of use thereof. 3,711,385, 1-16-73, Cl. 204-59.000.

Beer, Henri Bernard, to Chemnor Aktiengesellschaft. Electrode and coating therefor. 3,751,296, 8-7-73, Cl. 117-230.000.

Beer, Henri Bernard. Apparatus for electrolyzing tap water to provide sterilizing solution. 3,774,246, 11-27-73, Cl. 4-228.000.

Beer, Henri Bernard, to Chemnor Corporation. Electrode and coating therefor. 3,778,307, 12-11-73, Cl. 117-221.000.

Beer, Ludwig; Fischer, Hermann; and Heil, Eduard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Continuous manufacture of polyesters. 3,723,391, 3-27-73, Cl. 260-75.00m.

Beerbower, Alan: *See—*
Nixon, James; Wallace, Thomas J.; and Beerbower, Alan, 3,709,747.
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Beerli, George: *See—*
Ackerman, Joseph Francis; Beerli, George; Savageau, Robert George; and Weisfeld, Joseph, 3,713,864.

Beerman, Ludovicus Johannes, to Quebec Iron and Titanium Corporation. Furnace electrode seal. 3,709,506, 1-9-73, Cl. 277-12.000.

Beermann, Claus: *See—*
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Rupp, Walter; and Beermann, Claus, 3,708,460.
Schmidt, Erwin; and Beermann, Claus, 3,766,252.

Beermann, Claus; Georgi, Volkmar; Waldmann, Karl; and Wolf, Erhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. N,N-bis-halogenomethyl-carbamic acid esters. 3,752,845, 8-14-73, Cl. 260-482.00c.

Beermann, Heinrich; and Lenting, Hans, to Siemens Aktiengesellschaft. Liquid-cooled electric machine, particularly turbogenerator. 3,753,013, 8-14-73, Cl. 310-54.000.

Beernink, John William. Inspection device. 3,754,679, 8-28-73, Cl. 220-63.000.

Beers, Eugene; Brown, Milton M.; Eckes, William A.; and Penaluna, William A., to Dymo Industries, Inc. Card embossing apparatus. 3,726,380, 4-10-73, Cl. 197-6.600.

Beers, Eugene W.: *See—*
Brown, Milton; Beers, Eugene W.; and Nicole, Andre, 3,753,482.

Beers, Howard L. Apparatus for forming dowel-type joints. 3,756,635, 9-4-73, Cl. 287-127.00r.

Beers, Leroy Walter; and De Santis, Alfred John, to Burroughs Corporation. Information processing system employing stored microprogrammed processors and access free field memories. 3,735,363, 5-22-73, Cl. 340-172.500.

Beers, Melvin D.: *See—*
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Smith, Alfred H., Jr.; and Beers, Melvin D., 3,708,467.

Beerwald, Alexander: *See—*
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Beery, Jack, to Burroughs Corporation. Variable printer intensity control. 3,712,212, 1-23-73, Cl. 101-93.00c.

Beery, Jack; and Templeton, William B., to Burroughs Corporation. Movable gap-control device. 3,734,491, 5-22-73, Cl. 271-51.000.

Beery, Jack; and Russell, Donald C., to Burroughs Corporation. Controlled torque document feed system. 3,737,158, 6-5-73, Cl. 271-10.000.

Beery, Jack; and Luo, Zong S., to Burroughs Corporation. Conical spring. 3,751,025, 8-7-73, Cl. 267-166.000.

Beery, Jack, to Burroughs Corporation. Damping of a step servo motor using one step anticipation logic. 3,760,252, 9-18-73, Cl. 318-611.000.

Beesch, Otto: *See—*
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Beese, Norman C.; and Malloy, James J., Jr., to International Telephone and Telegraph Corporation. Gaseous discharge high intensity lamp with fluid cooled electrode. 3,723,783, 3-27-73, Cl. 313-32.000.

Beesley, Thomas E., to Quantum Assays Corporation. Extraction apparatus. 3,767,365, 10-23-73, Cl. 23-269.000.

Beeson, Phillip, to United States of America, Air Force. Method for forming thrust chambers. 3,714,695, 2-6-73, Cl. 29-157.00c.

Beeson, Robert J.: *See—*
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Beet Sugar Development Foundation: *See—*
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Beets, Roland H. C.: *See—*
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Beezer, Earl. Adjustable motion transmitting device. 3,779,089, 12-18-73, Cl. 74-53.000.

Beezer, Earl F.: *See—*
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Beezer, Earl F. Device for transmitting accurate translational and rotary movements. 3,731,545, 5-8-73, Cl. 74-24.000.

Beezer, Earl F. Device for transmitting adjustable translatory movements in two axis-directions. 3,751,996, 8-14-73, Cl. 74-53.000.

Beffa, Fabio: *See—*
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Beffa, Fabio, to Geigy, J. R., AG. Composite chromium-complex azo dyes. 3,756,771, 9-)4-73, Cl. 8-26.000.

Befferman, Lawrence H. Initial condition indication. 3,721,019, 3-20-73, Cl. 35-1.000.

Begemann, Carl J., to Morris, Philip, Incorporated. Packaging of cigarettes. 3,752,308, 8-14-73, Cl. 206-48.500.

Beger, Richard E., to Bates Manufacturing Company, The. Telephone index device. 3,721,485, 3-20-73, Cl. 312-330.000.

Begg, Geoffrey S.; and Jacobson, Nils Bertil, to Medinova AB. Pipetting device. 3,736,099, 5-29-73, Cl. 23-259.000.

Beggs, Donald; and Scarlett, John C., to Midland-Ross Corporation. Method of and apparatus for reducing iron oxide to metallic iron. 3,748,120, 7-24-73, Cl. 75-35.000.

Beggs, Donald; and Marston, William T., to Midland-Ross Corporation. Method and means for reducing iron oxides in a gaseous reduction process. 3,749,386, 7-1-71, Cl. 266-29.000.

Beggs, Donald; and Scarlett, John C., to Midland-Ross Corporation. Method of and apparatus for reducing iron oxide to metallic iron. 3,764,123, 10-9-73, Cl. 266-29.000.

Beggs, James E., to General Electric Company. Quick-heating impregnated planar cathode. 3,710,161, 1-9-73, Cl. 313-346.000.

Beggs, James E., to General Electric Company. Method of constructing a vapor deposited bi-potential cathode. 3,717,503, 2-20-73, Cl. 117-212.000.

Begley, Daniel P. Fishing lure. 3,769,738, 11-6-73, Cl. 43-42.260.

Begley, Thomas J.: *See—*
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Begley, Thomas J., to Reed Toys Incorporated. Individual air jets to impell balls toward a target. 3,711,097, 1-16-73, Cl. 273-101.000.

Begotti, Pino: *See—*
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Beguin, Daniel E.; Chiron, Bernard; and Cuo, Michel P. G., to International Standard Electric Corporation. Variable directional coupler. 3,758,879, 9-11-73, Cl. 333-10.000.

Beguin, Daniel Edmond, to International Standard Electric Corporation. Polarization adaptive MTI radar transponder. 3,716,856, 2-13-73, Cl. 343-6.8lc.

Beguin, Fred P., to American Optical Corporation. Head set construction. 3,719,954, 3-13-73, Cl. 2-209.000.

Beguin, Rene, to Test, Societe Anonyme d'Etudes Techniques. Fluid dispenser. 3,768,704, 10-30-73, Cl. 222-207.000.

Beguiristain, Luis, II, to Chayes Dental Instrument Corporation, mesne. Piloted shut-off valve. 3,727,877, 4-17-73, Cl. 251-30.000.

Begun, Cary A., to Diamond Shamrock Corporation. Removal of solder flux with azeotropic solvent mixtures. 3,733,218, 5-15-73, Cl. 134-38.000.

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Beham, Gerhard: *See—*
Baumann, Erwin; and Beham, Gerhard, 3,731,853.
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Behane, David; Spradley, Lewis Harold; Cahill, Lysle D.; and Marshall, William W., to Mead Corporation, The. Apparatus for reconstruction of images. 3,723,646, 3-27-73, Cl. 178-66.00r.

Beharrell, George David; and Adams, George Edward. Rim for mounting pneumatic tires on wheels. 3,730,248, 5-1-73, Cl. 152-379.000.

Behavioral Controls, Inc.: *See—*
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Behforouz, Mohammad, to Monsanto Company. Dithioamides. 3,709,907, 1-9-73, Cl. 260-326.00s.

Behl, Betty A. Process for plating aluminum alloys with manganese. 3,765,847, 10-16-73, Cl. 29-197.000.

Behlen Manufacturing Company, Inc.: *See—*
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Behlen, Walter D.; and Hilger, Anthony G., to Behlen Manufacturing Company, Inc. Method of joining strip material. 3,728,779, 4-24-73, Cl. 29-432.000.

Behles, Franz G., to Audi NSU Auto Union Aktiengesellschaft. Device for supplying air into the interior of motor vehicles. 3,709,139, 1-9-73, Cl. 98-2.160.

Behles, Guy. Concealment of cameras for observational purposes. 3,739,703, 6-19-73, Cl. 95-15.000.

Behling, Roy A., Jr.: *See—*
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Behn, Reinhard; Gottlob, Heinrich; Hoyler, Gerhard; and Kessler, Hartmut. Front contacted electrical component. 3,710,211, 1-9-73, Cl. 317-261.000.

Behn, Reinhard; Gottlob, Heinrich; Haid, Hans; Hoyler, Gerhard; and Kessler, Hartmut, to Siemens Aktiengesellschaft. Process for the production of capacitors. 3,728,765, 4-24-73, Cl. 29-25.420.

Behn, Sheldon P., to Super Laundry Machinery Company, Inc. Laundry folding machine with static electricity dissipating means. 3,761,071, 9-25-73, Cl. 270-61.000.

Behn, Sheldon P., to Super Laundry Machinery Company, Inc. Flatwork feeding. 3,772,808, 11-20-73, Cl. 38-143.000.

Behner, Otto; and Puls, Walter, to Bayer Aktiengesellschaft. Substituted 1-amino 4,9-dihydro-3H-pyrido (3,4-B) indoles and process for their preparation. 3,733,333, 5-15-73, Cl. 260-296.00a.

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Behr, Michael I.; Coon, Lewis B., Jr.; and Bickel, Charles E., to Burroughs Corporation. System for processing signals having peaks indicating binary data. 3,719,934, 3-6-73, Cl. 340-174.10h.

Behr, Raymond D.; Couling, Sidney L.; and Alfrey, Turner, Jr., to Dow Chemical Company, The. Direct chill casting method. 3,763,921, 10-9-73, Cl. 164-89.000.

Behr, Raymond Douglas: *See—*
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Behr, Rolf: *See—*
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Behrens, Robert Nick, to Deere & Company. Adjustable mower suspension system. 3,721,076, 3-20-73, Cl. 56-14.900.

Behrens, Rudolf Adolf, to American Cyanamid Company. Vulcanization of halogen-containing acrylic elastomers. 3,746,674, 7-17-73, Cl. 260-23.0ar.

Behrens, Volker; Weirich, Walter; and Rosenberg, Harry, to Gewerkschaft Eisenhutte Westfalia. Control arrangements for mine roof support props. 3,776,098, 12-4-73, Cl. 91-29.000.

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Hoffmann, Hellmut; Hammann, Ingeborg; Behrenz, Wolfgang; Homeyer, Bernhard; and Stendel, Wilhelm, 3,761,479.
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Behymer, Donald J., to Textron, Inc. Auditory training device with radio receiver and hearing aid. 3,742,359, 6-26-73, Cl. 325-26.000.

Beich, Frank R., to American Hospital Supply Corporation. Syringe with self-returnable plunger. 3,738,539, 6-12-73, Cl. 222-341.000.

Beidel, Robert Gary; Burns, Thomas Victor; and Catterall, John Mason, to Bell Telephone Laboratories, Incorporated. Sequential gating circuit. 3,721,770, 3-20-73, Cl. 179-27.00d.

Beiding, William A.; Emenson, Robert B.; and Williams, Raymond L., to Kaiser Aluminum & Chemical Corporation. Agglomerating partially dehydrated gel-derived pseudoboehmitic alumina to form strong porous spheres. 3,714,313, 1-30-73, Cl. 264-117.000.

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Beierle, Frederick P., to Chem.-Nuclear Systems, Inc. Transport cask for radioactive material. 3,754,140, 8-21-73, Cl. 250-507.000.

Beierlein, Reiner, to Siemens Aktiengesellschaft. Handle for high frequency electrodes. 3,720,896, 3-13-73, Cl. 335-206.000.

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Beijer, Louis Benjamin; Driessen, Antonius Jozephus Gerardus Cornelis; and Jacobs, Cornelis Adrianus Joannes, to U.S. Philips Corporation. Wall-stabilized high-pressure mercury lamp and metal iodide vapour discharge lamp with outer envelope. 3,753,018, 8-1-73, Cl. 313-25.000.

Beijering, Willem, to Van Poppel, Gebrs., N.V. Cigarette lighter. 3,709,655, 1-9-73, Cl. 431-344.000.

Beike, Hans. Process and apparatus for the fine comminution of solids. 3,713,592, 1-30-73, Cl. 241-17.000.

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Beil, Ralph G., to Schlumberger Technology Corporation. Acoustic impedance logging using reflection coefficients. 3,739,328, 6-12-73, Cl. 340-15.5ac.

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Dolgoplosk, Boris Alexandrovich; Tinyakova, Elena Ivanovna; Beilin, Solomon Isaakovich; Makovetsky, Kirill Lvovich; Chernenko, Galina Moiseevna; Ostrovskaya, Irina Yakovlevna; Krol, Vladimir Alexandrovich; and Khrennikova, Elena Konstantinovna, 3,740,382.

Beilis, Herbert J. Turn lock. 3,709,540, 1-9-73, Cl. 292-204.000.

Beilke, James E.; and Schulke, Edward W., said Schulke, Edward W., assor. to Peters, Clifford Z. Lowering bed trailer. 3,746,195, 7-17-73, Cl. 214-506.000.

Beilman, John L., to Cornell Aeronautical Laboratory, Inc. Fluid speed indicating apparatus. 3,726,139, 4-10-73, Cl. 73-181.000.

Beilstein, Gunter: *See—*
Husweiler, Arnold; Beilstein, Gunter; Mayer, Adolf; and Paris, Nikolaus, 3,712,912.

Beinfest, Sidney: *See—*
Ramunda, Angelo J.; Adams, Phillip; Beinfest, Sidney; and Gulakowski, Thaddeus A., 3,752,697.

Beinisovich, Boris Anatolievich: *See—*
Tatyanko, Nikolai Vasilievich; Usymbal, Alexandr Gavrilovich; Isikov, Sergei Alexandrovich; Sietsenko, Vladimir Vasilievich; Olcinik, Ivan Pavlovich; Betcher, Alexandr Samuilovich; Pasha, Leonid Georgievich; Ilge, Genrikh Karlovich; Sokulova, Maria Stepanona; Rusanov, Ivan Ivanovich; Gelmikh, Jury Dmitrievich; Khmel, Nikolai Dmitrievich; Kozhushko, Dmitry Ignatievich; and Beinisovich, Boris Anatolievich, 3,747,149.

Beisch, Hans R., to Sargent Industries of Michigan, Inc. Method of manufacture of vehicle wheel trim. 3,757,400, 9-11-73, Cl. 29-159.00a.

Beisch, Hans R.; and Trute, William C., to Sargent Industries of Michigan, Inc. Method of manufacturing vehicle wheel trim. 3,757,401, 9-11-73, Cl. 29-159.00a.

Beisemann, Heinz, to Konings, P., Machinefabriek, Ijzer-en Metaal Gieterij N.V. Support devices for elongate members. 3,770,022, 11-6-73, Cl. 138-108.000.

Beiser, Leo, to Columbia Broadcasting System, Inc. Laser systems and laser control systems. 3,739,296, 6-12-73, Cl. 331-94.50k.

Beiser, Leo, to Columbia Broadcasting System, Inc. Near-confocal device for optical scan enhancement. 3,748,014, 7-24-73, Cl. 350-7.000.

Beishir, Richard Bert, to ACF Industries Incorporated. Electronic fuel injection system. 3,710,766, 1-16-73, Cl. 123-32.0ea.

Beisner, Lowell E. Musical sound recording method. 3,726,530, 4-10-73, Cl. 274-46.000.

Beispel, Robert: *See—*
Wolf, Margery S.; and Beispel, Robert, 3,740,140.

Beissbarth, Osmond. Test stand for vehicle brakes. 3,712,128, 1-23-73, Cl. 73-126.000.

Beistle, Rex G., to International Business Machines Corporation. Web cleaning apparatus having a movable blade. 3,745,602, 7-17-73, Cl. 15-308.000.

Beiswanger, John P. G.: *See—*
Eiseman, Fred S., Jr.; Schenck, Leslie M.; and Beiswanger, John P. G., 3,723,578.

Beiswinger, Wayne J.; and Witte, Walter R., to Verta-Tronics, Inc. Electro-mechanical oscillator of electrodynamical and electromagnetic types. 3,729,691, 4-24-73, Cl. 331-116.00m.

Beith, Richard D., to ET Industries, Inc. Wheel structure. 3,726,566, 4-10-73, Cl. 301-37.00r.

Beitzel, Stuart W.; and Edwards, Robert F., to Water Treatment Corporation. Method and apparatus for mixing gases with water. 3,775,314, 11-27-73, Cl. 210-63.000.

Beizerov, Semen Moiseevich. Water cooling system for vacuum arc furnace. 3,723,632, 3-27-73, Cl. 13-32.000.

Bejach, Benton; and Bernhardt, Earl T., to Borg-Warner Corporation. Variable speed master-slave motor control system with continuous position adjustment. 3,718,845, 2-27-73, Cl. 318-78.000.

Bejach, Benton, to Borg-Warner Corporation. Variable speed plural motor control system with incremental speed synchronization. 3,718,846, 2-27-73, Cl. 318-85.000.

Bejot, Philippe, to Societe Anonyme D.B.A. Disc brake and adjusting device therefor. 3,768,601, 10-30-73, Cl. 188-71.900.

Beka St-Aubin S.A.: *See—*
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Bekel, Heinz: *See—*
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Bekhli, Jury Georgievich: *See—*
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Bernstein, Howard, 3,769,614.

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Belady, Laszlo A.; De Orazio, William R.; and O'Neill, Robert W., to International Business Machines Corporation. Clock for computer performance measurements. 3,771,144, 11-6-73, Cl. 340-172.500.

Belady, Laszlo Antal; Evangelisti, Carlo John; and Roth, Rogert Ingersoll, to International Business Machines Corporation. System and method for the continuous movement of a sheet having graphic subject matter thereon through a window of a display screen. ,716,842, 2-13-73, Cl. 340-172.500.

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Belanger, Inc.: *See—*
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Belanger, James A., to Belanger, Inc. Finishing wheel and packs therefor. 3,768,214, 10-30-73, Cl. 51-332.000.

Belanger, James A., to Belanger, Inc. Replacement pack cylindrical hub structures. 3,772,833, 11-20-73, Cl. 51-337.000.

Belanger, Patrice: *See—*
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Belanger, Raymond, to Sogever Limitee. Electrically operated safety lock for doors. 3,767,240, 10-23-73, Cl. 292-144.000.

Belanger, Regis; and Belanger, Edouard. Safety device for neutralizing the clutch of a snowmobile. 3,750,486, 8-7-73, Cl. 74-230.17e.

Belansky, Rudolph J., to Illinois Tool Works Inc. Limited slip differential mechanisms. 3,738,192, 6-12-73, Cl. 74-711.000.

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Belde, Horst; and Daubach, Ewald, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Pigment formulations. 3,730,747, 5-1-73, Cl. 106-288.00b.

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Belet, Joseph J.; and Quanstrom, Jack L., to International Business Machines Corporation. Bipolar conversion analog-to-digital converter. 3,737,893, 6-5-73, Cl. 340-347.0nt.

Belew, Robert R., to United States of America, National Aeronautics and Space Administration. Docking structure for spacecraft. 3,737,117, 6-5-73, Cl. 244-1.0sd.

Belgard, Truly M. Oven broiler cooking utensil. 3,747,506, 7-24-73, Cl. 99-349.000.

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Belin, Marcel Andre. Floating barrier for circumscribing oil pools or like refuse. 3,739,584, 6-19-73, Cl. 61-1.00f.

Beling, Thomas E., to Sigma Instruments Inc. Electronic lighting control responsive to ambient light. 3,735,141, 5-22-73, Cl. 250-214.00r.

Beling, Thomas E., to Sigma Instruments Inc. Constant current power supply. 3,767,998, 10-23-73, Cl. 321-18.000.

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Belisle, Brice. Combined card game apparatus and playing cards. 3,761,094, 9-25-73, Cl. 273-148.00a.

Belisle, Walter R. Curtains for airport ramps. 3,713,183, 1-30-73, Cl. 14-71.000.

Belitz, Fritz; and Bender, Karl-Richard, to Minox GmbH. Device for feeding exposure values to apparatus including photoelectric exposure meters and control devices. 3,777,635, 12-11-73, Cl. 95-10.0ct.

Beliveau, Gilles; Beliveau, Jean-Marc; and Beliveau, Victor. Variable diameter centrifugally-operated drive pulley. 3,715,930, 2-13-73, Cl. 74-230.17e.

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Belk, Earl H. Cover. 3,727,972, 4-17-73, Cl. 296-137.00r.

Belk, Earl H. Reversible recliner. 3,751,740, 8-14-73, Cl. 5-37.000.

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Belkin, Giora. Container having a time controlled locking mechanism. 3,750,435, 8-7-73, Cl. 70-272.000.

Belkin, Nathan L. Hospital garment. 3,729,747, 5-1-73, Cl. 2-114.000.

Belkin, Nikolai Vasilievich; Alexandrovich, Eduard-Gely Vitalievich; Razin, Anatoly Alexandrovich; Kanunov, Mikhail Alexeevich; Tsukerman, Veniamin Aronovich; Sloeva, Galina Nikolaevna; Tsvetkov, Leonard Vasilievich; and Dron, Ninel Alexeevna. X-ray pulse ube. 3,716,737, 2-13-73, Cl. 313-59.000.

Belknap, Donald J., 50% to Shapiro, Nelson H. and 50% to Field, Milton M. Miniature incandescent lamp and apparatus and method for making the same. 3,729,783, 5-1-73, Cl. 29-25.130.

Belknap, Donald J., 27.50% to Shapiro, Nelson H. and 22.50% to Field, Milton M. Apparatus and methods for making miniature incandescent lamps and the like. 3,736,630, 6-5-73, Cl. 29-25.200.

Belknap, Donald J., 27.50% to Shapiro, Nelson H. and 22.50% to Field, Milton M. Method and apparatus for making incandescent lamps. 3,762,900, 10-2-73, Cl. 65-59.000.

Belknap, Donald J., 27.50% to Shapiro, Nelson H. and 22.50% to Field, Milton M. Miniature incandescent lamp and apparatus and method for making the same. 3,763,390, 10-2-73, Cl. 313-315.000.

Belknap, Jack S. Locking device for securing an outboard motor to a boat. 3,731,504, 5-8-73, Cl. 70-58.000.

Belknap, John C. Traction device for vehicle tires. 3,756,301, 9-4-73, Cl. 152-225.000.

Belknap, Louis S., to Cabot Corporation. Aluminum trichloride production. 3,721,731, 3-20-73, Cl. 423-264.000.

Belkovsky, Viktor Alexandrovich; Grzhimalsky, Leopold Leopoldovich; Ilievsky, Irma Irmovich; Lotsmanov, Sergei Nikolaevich; Petrunin, Ivan Egorovich; Sukhov, Anatoly Vasilievich; Tikhonov, Boris Sergeevich; Levin, Boris Isaakovich; Moroz, Pavel Kirillovich Strekalov, Genrikh Nikolaevich; Chernov, Andrei Nikolaevich; Chizhov, Sergei Ilich; and Shevyakov, Nikolai Nikolaevich. Hard solder for high-temperature brazing of constructional materials. 3,709,682, 1-9-73, Cl. 75-134.00c.

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Bell, Alan; and Jackson, Winston J., Jr., to Eastman Kodak Company. Phenoxyphthalate polyesters. 3,723,388, 3-27-73, Cl. 260-47.00c.

Bell, Alan, to Foster Wheeler John Brown Boilers Limited. Power plants. 3,724,212, 4-3-73, Cl. 60-73.000.

Bell, Alfred S.; and Churchman, Fred L. Apparatus for detecting deviation in tire pressure. 3,710,314, 1-9-73, Cl. 340-58.000.

Bell, Allan D., Jr., to Dektor Counterintelligence and Security. Telephone security device. 3,715,514, 2-6-73, Cl. 179-81.00e.

Bell, Anthony J., to Goodyear Tire & Rubber Company, The. Ring-opening polymerization of cycloolefins. 3,772,255, 11-13-73, Cl. 260-82.20d.

Bell, Antony Geoffrey, to Texas Instruments, Incorporated. Capacitively coupled load control. 3,743,862, 7-3-73, Cl. 307-251.000.

Bell, Antony Geoffrey, to Texas Instruments, Incorporated. Fault protected output buffer. 3,749,936, 7-31-73, Cl. 307-202.000.





Bell, Berl L. Street and parking lot cleaner attachment for vehicles. 3,708,823, 1-9-73, Cl. 15-340.000.

Bell Bryant Pty. Ltd.: *See—*
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Bell, C. Gordon. Homogeneous memory for digital computer systems. 3,731,285, 5-1-73, Cl. 340-172.500.

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Bell, Carl F. Method of preparing a composite pie. 3,753,733, 8-21-73, Cl. 99-92.000.

Bell, Cecil R.; Swaim, Jessie E.; Gilgo, Horace Paul; Rogers, Robert C.; Sizemore, Walter Ray; and Orr, Samuel M., Jr., to Hanes Corporation. Hosiery packaging machine. 3,707,825, 1-2-73, Cl. 53-282.000.

Bell, Christy W.; and Titus, Charles H., to General Electric Company. Electro-thermal process for production of off shore oil through on shore walls. 3,724,543, 4-3-73, Cl. 166-248.000.

Bell, Christy W.; and Titus, Charles H., to General Electric Company. System and apparatus for dual transmission of petrochemical fluids and unidirectional electric current. 3,743,854, 7-3-73, Cl. 307-147.000.

Bell, Clarence A.; Gwinn, Ralph; Jennison, Rolland N.; Jones, Bryon; and Strauss, Philip W., to Whirlpool Corporation. Defrost control. 3,759,049, 9-18-73, Cl. 62-80.000.

Bell, David. Process for removing metals from petroleum. 3,749,665, 7-31-73, Cl. 208-253.000.

Bell, Edwin A., to Cities Service Oil Company. Oil skimmer. 3,708,070, 1-2-73, Cl. 210-242.000.

Bell, Edwin A.; and Padden, Thaddeus F., to Cities Service Oil Company. Suction oil decanter. 3,760,944, 9-25-73, Cl. 210-110.000.

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Bell, Graham H. Single set-up sequential heat process for making diamond heat sinks. 3,727,667, 4-17-73, Cl. 164-80.000.

Bell, Gregory E., to General Motors Corporation. System for encouraging use of seat belts in a motor vehicle. 3,740,711, 6-19-73, Cl. 340-52.00e.

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Bell, Harold, to Mighty-Mac, Inc. T-bar zipper tab handle. 3,719,973, 3-13-73, Cl. 24-205.15h.

Bell, Harry F.; Rich, David W.; and Smith, Matthew C., to International Business Machines Corporation. Electroless plating processes for room temperature deposition nickel. 3,753,742, 8-21-73, Cl. 106-1.000.

Bell, James Alexander Evert, to International Nickel Company, Inc., The. Level control for rotating furnaces. 3,770,257, 11-6-73, Cl. 266-18.000.

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Bell, Joseph P. Automobile wheel light accessory. 3,767,909, 10-23-73, Cl. 240-8.120.

Bell, Kenneth B.; Brutt, Frederick J.; and Mazanek, Alfonso J., to Westinghouse Electric Corporation. Rotary type grounding switch. 3,742,158, 6-26-73, Cl. 200-1.00g.

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Bennett, John Theodore George; and Read, John Anthony, to Kollsman Instrument Limited. Altimeters. 3,750,473, 8-7-73, Cl. 73-387.000.

Bennett, Joseph C.; and Reimer, William A., to GTE Automatic Electric Laboratories Incorporated. Mechanically alterable diode matrix memory. 3,713,110, 1-23-73, Cl. 340-173.osp.

Bennett, Joseph C.; Reimer, William A.; and Winters, Hilary M., to GTE Automatic Electric Laboratories Incorporated. Wire braid forming apparatus. 3,742,574, 7-3-73, Cl. 29-203.0mm.

Bennett, Joseph C.; and Wenzel, Anton, to GTE Automatic Electric Laboratories, Incorporated. Insulated common strip. 3,760,330, 9-18-73, Cl. 339-18.00r.

Bennett, Kenneth A., to Petrodata, Inc. Data transmission responsive to synchronization signal. 3,727,179, 4-10-73, Cl. 340-15.5dt.

Bennett, Lawrence A. Self-enclosed folding bed. 3,755,832, 9-4-73, Cl. 5-2.000.

Bennett, Lowell L.: *See—*
Lohr, Raymond J.; Smith, James; and Bennett, Lowell L., 3,780,665.

Bennett, Malvin. Means for loading and unloading a camper. 3,722,721, 3-27-73, Cl. 214-515.000.

Bennett, Michael C.; and Mattaliano, John A., to Becton, Dickinson and Company. Method of collecting blood and separating cellular components thereof. 3,750,645, 8-7-73, Cl. 128-2.00g.

Bennett, Moreland P., to General Electric Company. Fusion braid weld. 3,781,513, 12-25-73, Cl. 219-137.000.

Bennett, Norman. Passenger restraint barrier. 3,720,445, 3-13-73, Cl. 297-390.000.

Bennett Pump Incorporated: *See—*
Booth, William M.; and Westrick, Robert E., 3,708,654.
Booth, William M.; and Thompson, Robert C., 3,772,916.
Mankin, Paul A.; Mitchell, Thomas O.; and Zanoni, Paul, 3,757,581.
Mitchell, Thomas O., 3,716,309.
Mitchell, Thomas O., 3,738,531.
Zanoni, Paul; and Shunta, Richard F., 3,734,124.

Bennett Pump Incorporated, mesne: *See—*
Zanoni, Paul, 3,715,863.

Bennett, Reginald Frank Charles: *See—*
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Bennett, Richard J.: *See—*
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Bennett, Richard J.; and Louthan, Rector P., to Phillips Petroleum Company. Plasticized sulfur, bituminous or asphalt impregnated fabric. 3,721,578, 3-20-73, Cl. 117-92.000.

Bennett, Richard J.; and Gagle, Duane W., to Phillips Petroleum Company. Resilient material of particulate rubber in a binder of butadiene and coumarone indene polymers. 3,726,944, 4-10-73, Cl. 260-829.000.

Bennett, Robert A. Multi position adjustable roofing knife. 3,708,881, 1-9-73, Cl. 30-320.000.

Bennett, Robert A., to Waterbury Lock & Specialty Co. Power tape units and locking and releasing device therefor. 3,744,733, 7-10-73, Cl. 242-107.300.

Bennett, Robert A. Handy mans wrench. 3,745,860, 7-17-73, Cl. 81-121.00r.

Bennett, Robert A., 1/2 to Mattern, Ware and Davis. Statistical hook and loop area fasteners. 3,778,870, 12-18-73, Cl. 24-204.00r.

Bennett, Robert B., to Chromalloy American Corporation. Garment construction. 3,751,731, 8-14-73, Cl. 2-227.000.

Bennett, Robert B., to Dow Chemical Company, The. Insulation installation. 3,753,848, 8-21-73, Cl. 161-120.000.

Bennett, Robert B.; and Waling, Stephen J., to Dow Chemical Company, The. Method of preparing arched structures. 3,763,618, 10-9-73, Cl. 52-741.000.

Bennett, Robert George, to Avco Corporation. Lance with distance measuring sub-system. 3,727,897, 4-17-73, Cl. 266-34.01m.

Bennett, Robert Neil; and Morum, Francis John, to British Petroleum Company, Limited, The. Production of lubricating oils. 3,732,156, 5-8-73, Cl. 208-111.000.

Bennett, Roger; and Clelford, Anthony Peter, to Westinghouse Brake English Electric. Multi-terminal semiconductor devices having pressure contacts for main and gate electrodes. 3,729,659, 4-24-73, Cl. 317-234.00r.

Bennett, Ronald, to Fluid Chemical Company, Inc. Unitary aerosol mounting cap expander. 3,757,717, 9-11-73, Cl. 113-18.00e.

Bennett, Ronald E., to Westinghouse Electric Corporation. Circuit breaker with improved trip means. 3,747,033, 7-17-73, Cl. 335-35.000.

Bennett, Sandra J.: *See—*
Bennett, Frederic C.; and Bennett, Sandra J., 3,761,119.

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Baker, Philip G.; Bennett, Stewart; and Young, Richard W., 3,740,127.
Land, Edwin H.; and Bennett, Stewart, 3,771,862.

Bennett, Stewart, to Polaroid Corporation. Photographic motion picture apparatus. 3,747,488, 7-24-73, Cl. 95-112.000.

Bennett, Victor A., Jr., to Currier-Smith Corporation. Electronic resistance memory. 3,735,367, 5-22-73, Cl. 340-173.0sp.

Bennett, Walter Scott, Jr., to Burroughs Corporation. Method and apparatus for obtaining the reciprocal of a number and the quotient of two numbers. 3,777,132, 12-4-73, Cl. 235-164.000.

Bennett, Walter V.; and Bose, Norman J., to Singer Company, The. Joy stick digital direction and rate control unit. 3,770,915, 11-6-73, Cl. 200-6.00a.

Bennett, Weston T.; Coveney, Donald B.; Lamb, Charles A.; and Hanson, Jonathan Leslie, to Black Clawson Company, The. Headbox for vertical double-wire paper machine. 3,734,822, 5-22-73, Cl. 162-343.000.

Bennett, Wilbur G.: *See—*
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Bennett, William A.: *See—*
Lee, Lewis R.; Whybro, Robert S. D.; and Bennett, William A., 3,741,415.

Bennett, William B. Disposable ashtray liner. 3,753,441, 8-21-73, Cl. 131-235.000.

Bennett, William C., to Novar Corporation. Apparatus for operating on tape in tape cartridges. 3,720,363, 3-13-73, Cl. 226-51.000.

Bennett, William C., to Novar Corporation. Apparatus for operating on tape in tape cartridges. 3,743,301, 7-3-73, Cl. 274-4.00b.

Bennett, William G., to Teleflex, Inc. Remote control assembly. 3,710,645, 1-16-73, Cl. 74-501.00p.

Bennett, William N. Molded ski. 3,734,519, 5-22-73, Cl. 280-11.13r.

Bennett, William R.: *See—*
Shaheen, Joseph M.; Quintana, Leo J.; and Bennett, William R., 3,769,112.

Bennett, William Roy: *See—*
Inns, David Harold; Bennett, William Roy; and Chambers, Arnold, 3,773,490.

Bennett, William S.; Collier, Albert F.; and Taylor, Arthur Roger, to Singer Company, The. Wide angle display for digitally generated video information. 3,757,040, 9-4-73, Cl. 178-6.800.

Bennetto, Harold H. Rotary engine. 3,730,145, 5-1-73, Cl. 123-8.410.

Bennetts, John F. Fishing lure. 3,775,892, 12-4-73, Cl. 43-42.140.

Bennewitz, Paul F., to Thunder Scientific Corporation. Moisture sensing element and method of making same. 3,748,625, 7-24-73, Cl. 338-34.000.

Benney, Harry D.: *See—*
Niehaus, Edward J.; and Benney, Harry D., 3,754,493.

Bennich, Hans H:son; Johansson, Stig G. O.; and Wide, Leif E., to Pharmacia AB. Method for determining the presence of reagin-immunoglobulins (reagin-Ig) directed against certain allergens, in aqueous samples. 3,720,760, 3-13-73, Cl. 424-1.000.

Benninger, Arthur C.; and Long, Meletus I., to Tri-Brook, Inc. Semi-trailer dump body construction. 3,712,676, 1-23-73, Cl. 298-22.00r.

Benninghoven, Alfred, to Bayer Aktiengesellschaft. Process and apparatus for the mass spectrometric analysis of surfaces of solids. 3,742,227, 6-26-73, Cl. 250-49.50p.

Bennington, C. Earl, to Voplex Corporation. Workpiece transfer apparatus. 3,711,680, 1-16-73, Cl. 219-243.000.

Bennington, William E. Dental floss dispenser. 3,747,611, 7-24-73, Cl. 132-91.000.

Bennison, Michael Newstead, to Clarkson, W. J., Limited. Material stitching apparatus. 3,726,241, 4-10-73, Cl. 112-121.150.

Bennison, Michael Newstead, to Clarkson, W. J., Limited. Material stitching apparatus. 3,754,520, 8-28-73, Cl. 112-121.120.

Bennon, Saul: *See—*
Wagenaar, Loren B.; True, Walter F.; and Bennon, Saul, 3,746,935.

Benoit, Alfred E. Bow sight. 3,747,222, 7-24-73, Cl. 33-265.000.

Benoit, Alfred E. Method of making archery arrow. 3,749,623, 7-31-73, Cl. 156-187.000.

Benoit, Edith C., 20% to Lee, Raymond, Organization, Inc., The. Drawer divider. 3,746,181, 7-17-73, Cl. 211-184.000.

Benoit, Roland A.; and Tripodi, Joseph R., to Royal Metal Corporation. Console control for beds with interlocking switch operators. 3,711,664, 1-16-73, Cl. 200-5.00r.

Benoit, Roland A.; and Curran, John. Bed crank mounting. 3,771,385, 11-13-73, Cl. 74-547.000.





Benoun, Samuel M.; and David, Roger F., to Align-A-Wrist Company, The. Wrist brace. 3,779,550, 12-18-73, Cl. 273-54.00b.

Benoy, Gaston Jacob: *See—*
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Vandenberghe, Antoon Leon; Willems, Jozef Frans; Pollet, Robert Joseph; Benoy, Gaston Jacob; and Van Doorselaer, Marcel Karel, 3,761,277.

Benrud, Vernal M.; and Horst, Richard L., to Sperry Rand Corporation. Sense-digit line selection matrix for memory system. 3,742,467, 6-26-73, Cl. 340-174.0rc.

Bens, Everett M.: *See—*
Carpenter, Wayne R.; and Bens, Everett M., 3,769,227.
Morley, Carl H.; and Bens, Everett M., 3,726,802.

Bens, Everett M.; and Morley, Carl H., to United States of America, Navy. Chemiluminescent formulation containing inorganic salt solution. 3,728,270, 4-17-73, Cl. 252-188.300.

Bensch, Alan C.: *See—*
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Benschop, Gerardus Cornelis Marie: *See—*
Friebel, Hendrikus Johannes Christianus; Jonker, Simon; Emmasingel, Eindhoven; and Benschop, Gerardus Cornelis Marie, 3,780,429.

Bense, William M.: *See—*
Allam, James N.; and Bense, William M., 3,733,034.

Bense, William M., to Lessona Corporation. Apparatus and method for false twisting yarn. 3,742,692, 7-3-73, Cl. 57-34.0hs.

Bensinger, Wolf-Dieter, to Daimler-Benz Aktiengesellschaft. Method of preassembly and assembly of a multipartite seal. 3,745,630, 7-17-73, Cl. 29-156.600.

Benson, Albert; Mausner, Marvin; and Carasik, William, to Witco Chemical Company, Inc. Process for producing phosphate ester surface active compositions. 3,770,855, 11-6-73, Cl. 269-988.999.

Benson, Bengt Anders. Perception apparatus for the blind. 3,740,446, 6-19-73, Cl. 35-35.00a.

Benson, Carl: *See—*
Ayres, Waldemar; Walker, Evelyn; Holderith, William; Benson, Carl; and Bandrowski, James, 3,779,083.

Benson, Carl F., to Torrington Company, The. Preloaded incremental feed device. 3,713,349, 1-30-73, Cl. 74-409.000.

Benson, Carl I., Jr., to Paragon Gears Incorporated. Releasable power-transmitting device of the friction plate type. 3,724,620, 4-3-73, Cl. 192-70.230.

Benson, Carl I. Jr., to Paragon Gears Incorporated. Reversible power transmission. 3,735,644, 5-29-73, Cl. 74-355.000.

Benson, Clark K.: *See—*
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Benson, Ernest J.; Tull, Alonzo E.; and Weiveris, William V., to Bentul Equipment Corporation. Method for stacking and sheet interleafing frozen patties. 3,772,040, 11-13-73, Cl. 426-420.000.

Benson, George Mead, to Bell Telephone Laboratories, Incorporated. Autobalanced diode bridge sampling gate. 3,721,829, 3-20-73, Cl. 307-235.000.

Benson, Glendon M., to New Process Industries, Inc. Electromechanical latching actuator. 3,772,540, 11-13-73, Cl. 310-14.000.

Benson, Gustav E.; and Potter, Douglas E., to Owens-Corning Fiberglas Corporation. Method and apparatus for intermittently texturing yarn. 3,710,461, 1-16-73, Cl. 28-1.400.

Benson, Gustav E., to Owens-Corning Fiberglas Corporation. Yarn treating apparatus. 3,749,055, 7-31-73, Cl. 114-234.000.

Benson, Gustav E.; and Taylor, Everett W., to Owens-Corning Fiberglas Corporation. Apparatus for cleaning and texturing linear material. 3,763,526, 10-9-73, Cl. 28-1.400.

Benson, Gustav E.; and Taylor, Everett W., to Owens-Corning Fiberglas Corporation. Apparatus for treating and collecting yarn. 3,776,183, 12-4-73, Cl. 118-235.000.

Benson, Gustav E.; and Yakuboff, Paul D., to Owens-Corning Fiberglas Corporation. Apparatus for impregnating and coating fibrous strands. 3,779,207, 12-18-73, Cl. 118-109.000.

Benson, Gustav Eric Valdemar, to Perpedos AB. Dispensing apparatus. 3,715,060, 2-6-73, Cl. 222-207.000.

Benson, Harold L.; and Callaway, Dwight W., to General Electric Corporation. Tailless wedge bonding of gold wire to palladium-silver cermets. 3,747,198, 7-24-73, Cl. 29-471.100.

Benson, Harold R.: *See—*
Weihsmantel, Richard A.; and Benson, Harold R., 3,738,748.

Benson, Harry J., mesne: *See—*
Williams, Will B., 3,711,256.

Benson, Harvey D.: *See—*
Palopoli, Frank P.; and Benson, Harvey D., 3,721,712.

Benson, Harvey S., Jr., to Envirco Corporation. Process for separating particles from aerosols. 3,724,181, 4-3-73, Cl. 55-432.000.

Benson, Henry E., to Warren Industries. Corner bracket and roller asembly for sliding doors. 3,716,890, 2-20-73, Cl. 16-91.000.

Benson, Hugh H.: *See—*
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Benson, Jack M.: *See—*
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Benson, James A.: *See—*
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Benson, John S. Chiropractic table. 3,747,916, 7-24-73, Cl. 269-322.000.

Benson, John T.: *See—*
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Benson, Paul R.: *See—*
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Benson, Richard J. Fishing device. 3,714,731, 2-6-73, Cl. 43-43.110.

Benson, Robert D. Windshield cleaning apparatus. 3,757,379, 9-11-73, Cl. 15-250.00y.

Benson, Robert W.; Chapman, James Ronald; Reed, Robert G.; and Smith, Hoyt L., to Cutters Machine Company, Inc. Electrically controlled cloth spreading machine. 3,776,542, 12-4-73, Cl. 270-31.000.

Benson, Ronald W.: *See—*
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Benson, Victor Mark: *See—*
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Benson, Wilfred Y.; and Andrews, James T., to Mohawk Data Sciences Corporation. Type carrier assembly. 3,741,109, 6-26-73, Cl. 101-93.00c.

Benson, William H., to Eriez Manufacturing Company. Electromagnetic turnoff system for permanent magnets. 3,740,683, 6-19-73, Cl. 335-284.000.

Bensussan, Andre M.: *See—*
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Bent, John H., to Minnesota Mining and Manufacturing Company, mesne. Pneumatic tool. 3,752,241, 8-14-73, Cl. 173-163.000.

Benteler, Helmut, to Benteler-Werke AG. Method of making an insulated tube. 3,717,527, 2-20-73, Cl. 156-79.000.

Benteler-Werke AG: *See—*
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Bentle, Ralph W. Corner control system for plaster walls. 3,765,138, 10-16-73, Cl. 52-255.000.

Bentley, Albert Byron: *See—*
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Bentley, Alone M.; and Wilson, Laurie A. Wig tote. 3,740,013, 6-19-73, Cl. 248-224.000.

Bentley, Arthur P. Rotary vane internal combustion engine. 3,762,375, 10-2-73, Cl. 125-8.310.

Bentley, Arthur P. Centrifugally operated impact and friction clutches. 3,762,519, 10-2-73, Cl. 192-105.0bb.

Bentley, Charles A. Deck structure and connector for demountable parking building, or the like. 3,722,160, 3-27-73, Cl. 52-278.000.

Bentley, Clarence H., 20% to Bentley, Delbert John, 20% to Bentley, Albert Byron, 20% to Bentley, Rodney Douglas and 20% to Bentley, David Alan. Pressure relief valve. 3,714,965, 2-6-73, Cl. 137-541.000.

Bentley, Daniel L., to General Motors Corporation. Exhaust system clamp assembly. 3,774,270, 11-27-73, Cl. 24-276.000.

Bentley, David Alan: *See—*
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Bentley, David R.: *See—*
Scheitlin, George E.; and Bentley, David R., 3,727,410.

Bentley, David Ray: *See—*
Scheitlin, George E.; and Bentley, David Ray, 3,775,979.

Bentley, Delbert John: *See—*
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Bentley, Floyd Edward; and Godfrey, Norman Bell, to Jefferson Chemical Company, Inc. Epoxy resin composition containing a polyoxyalkylene, substituted piperazine, salicylic acid and a phenol. 3,740,373, 6-19-73, Cl. 260-47.0ec.

Bentley, Floyd Edward; and Waddill, Harold George, to Jefferson Chemical Company, Inc. Detergent slurry compositions. 3,755,203, 8-28-73, Cl. 252-536.000.

Bentley, James Sydney, to Photographic Silver Recovery Limited. Method of recovering silver from waste silver solutions. 3,715,291, 2-6-73, Cl. 204-109.000.

Bentley, Ralph C.; and Burroughs, James R., to Voplex Corporation. Box having a carrying handle-latch. 3,741,433, 6-26-73, Cl. 220-55.700.

Bentley, Richard Paul. Super super. 3,744,067, 7-10-73, Cl. 6-1.000.

Bentley, Richard Paul. Visual comparator system. 3,773,425, 11-20-73, Cl. 356-191.000.

Bentley, Robert W.; and Cieslak, Arthur B., to Stromberg-Carlson Corporation. Guide and mounting support with positive means for captivating a printed circuit card disposed thereon. 3,762,574, 10-2-73, Cl. 211-41.000.

Bentley, Rodney Douglas: *See—*
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Bentley, William; and Kellar, John D., to PPG Industries, Inc. Manufacture of glass sheets having predetermined outline shapes. 3,717,290, 2-20-73, Cl. 225-2.000.
Bentley-Leek, Herbert, to Saunders Valve Company Limited. Method of manufacturing valve seating rings. 3,774,277, 11-27-73, Cl. 29-157.10r.
Benton, Charles Michael; and Niehaus, Howard E., to National-Southwire Aluminum Company. Muffler for aluminum cell tapping crucible. 3,732,948, 5-15-73, Cl. 181-36.00r.
Benton, Kenneth E.: *See—*
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Benton, Kenneth E.; and Jacques, Vincent L., to International Business Machines Corporation. Cassette player. 3,781,016, 12-25-73, Cl. 274-4.00c.
Benton, Lawrence M., Jr. Electric visual display. 3,726,033, 4-10-73, Cl. 40-52.00r.
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Bentsen, Louis J., to Honeywell Inc. Diaphragm logic day signal circuit. 3,708,115, 1-2-73, Cl. 236-47.000.
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Bentz, Erwin J. H.; and Hiserote, Roger D., to Caterpillar Tractor Company. Dual cooling system for engines. 3,752,132, 8-14-73, Cl. 123-119.0cd.
Bentz, Francis: *See—*
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Benyon, Carl W., Jr.; and Leibowitz, Donald, to RCA Corporation. Electroacoustic semiconductor device employing an IGFET. 3,749,984, 7-31-73, Cl. 317-235.00r.
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Benz, Mark G.; and Martin, Donald L., to General Electric Company. Stabilized permanent magnet comprising a sintered and quenched body of compacted cobalt-rare earth particles. 3,755,007, 8-28-73, Cl. 148-101.000.
Benzaria, Jacques Raphael; and Zundel, Claude, to Societe Anonyme: Degremont Societe Generale d'Epuration et d'Assainissement. Elution process for the regeneration of spent activated carbon. 3,720,626, 3-13-73, Cl. 252-413.000.
Benziger, Theodore M., to United States of America, Atomic Energy Commission. High-energy plastic bonded explosive. 3,778,319, 12-11-73, Cl. 149-92.000.
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Benzing, Peter; Klein, Richard; and Trampisch, Alfred, 3,729,093.
Benzing, Peter; Klein, Richard; and Trampisch, Alfred, to Benzing, Hugo, OHG. Dispenser for C-washers and the like and washer package for use with the dispenser. 3,729,093, 4-24-73, Cl. 206-65.00r.
Benzon, Robert O.; and Dybdal, Richard K. Screw conveyor coupling. 3,730,332, 5-1-73, Cl. 198-213.000.
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Ber, Andre Lucas, Netherlands: *See—*
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Berchtold, Helmut; and Vollrath, Friedrich, to Bockemuhl, Johannes, Firma. Device for treating photographic material. 3,726,201, 4-10-73, Cl. 95-100.000.
Berchtold, Ludwig, to Marker, Hannes. Setting means for use with safety ski bindings. 3,733,083, 5-15-73, Cl. 280-11.35r.
Berchtold, Robert F. High pressure bleed valve tool. 3,718,057, 2-27-73, Cl. 81-15.400.
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Bercz, Christa V.; Rozmanith, Jolan S.; and Bercz, Jeno P., to Lurex, Inc. Fishing lure containing a chemiluminescent substance. 3,762,092, 10-2-73, Cl. 43-17.600.
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Bercz, Christa V.; Rozmanith, Jolan S.; and Bercz, Jeno P., 3,708,903.
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Berdahl, James M., to Mead Johnson & Company, mesne. Substituted 3-phenylindan-1-one oximes. 3,770,828, 11-6-73, Cl. 260-566.00a.
Berde, Botond, to Sandoz Ltd., a/k/a Sandoz AG. Hydrogenated ergot alkaloid compositions and methods of using same. 3,733,423, 5-15-73, Cl. 424-253.000.
Berdelle-Hilge, Philipp, to Intermag GmbH. Continuous fermentation process for producing alcoholic beverages. 3,737,323, 6-5-73, Cl. 99-31.000.
Berdelle-Hilge, Philipp, to Intermag GmbH. Process and apparatus for the continuous treatment of liquids with enzyme carriers. 3,769,175, 10-30-73, Cl. 195-139.000.
Berding, Andrew R., to International Business Machines Corporation. Memory cell circuit. 3,725,878, 4-3-73, Cl. 340-173.0ff.
Berdrin, Albert. Alternative input drives on housing of gearbox for tools rotating about vertical axes. 3,713,494, 1-30-73, Cl. 172-59.000.
Berducone, Dominique. Magnetic latch. 3,744,833, 7-10-73, Cl. 292-251.500.
Berecz, Imre, to Kaynar Mfg. Co., Inc. Systematized apparatus for driving fasteners. 3,750,257, 8-7-73, Cl. 29-212.00r.
Bereday, Sigmund: *See—*
Bereday, Sigmund; Kolic, Edwin S.; Lutz, Garson A.; Grotta, Henry M.; and Gibbs, John H. (said Kolic, Lutz, Grotta and Gibbs assors. to), 3,734,784.
Bereday, Sigmund; Kolic, Edwin S.; Lutz, Garson A.; Grotta, Henry M.; and Gibbs, John H., said Kolic, Lutz, Grotta and Gibbs assors. to Bereday, Sigmund. Treating aluminum surfaces. 3,734,784, 5-22-73, Cl. 148-6.270.
Beregi, Laszlo: *See—*
Le Douarec, Jean-Claude; Beregi, Laszlo; and Hugon, Pierre, 3,743,739.
Beregi, Laszlo; Hugon, Pierre; and Le Douarec, Jean-Claude, to Societe en nom Collectif Science Union et Cie, Societe Francaise de Recherche Medicale. Biphenylyl pyrozole compounds. 3,725,432, 4-3-73, Cl. 260-310.00r.
Beregi, Laszlo; Hugon, Pierre; and Laubie, Michel, to Societe en nom Collectif Science Union et Cie, Societe Francaise de Recherche Medicale. 1-(3-Sulfomoyl-4-chloro-benzomido)-3-(2-furyl)-pyrrolidine. 3,729,484, 4-24-73, Cl. 260-326.300.
Beregi, Laszlo; Hugon, Pierre; and Le Douarec, Jean-Claude, to Societe en nom Collectif Science Union et Cie, Societe Francaise de Recherche Medicale. Aromatic amino acids and esters thereof. 3,759,979, 9-18-73, Cl. 260-471.00a.
Beregow, Alex. Magnetic thread holder and cutter. 3,712,255, 1-23-73, Cl. 112-252.000.
Bereit, Arnold E. E. Device for the hydrostatic supporting of machine parts. 3,724,597, 4-3-73, Cl. 184-5.000.
Berenbaum, Arthur; and McDonough, Robert M., to Philco-Ford Corporation. Key-operated television channel selector. 3,721,926, 3-20-73, Cl. 334-7.000.
Berenbaum, Morris Benjamin; Pachuta, John Michael; and Sorg, Earl Harry. Curable polysulfide polymers. 3,736,301, 5-29-73, Cl. 260-79.000.
Berends, Emerson R., to Rockwell Manufacturing Company. Planer. 3,718,168, 2-27-73, Cl. 144-117.00r.
Berends, Howard, to Holland Hitch Company. Convertible dolly-tandem axle. 3,717,363, 2-20-73, Cl. 280-476.000.
Berends, Howard P., to Holland Hitch Company. Vehicular bag hoist. 3,717,273, 2-20-73, Cl. 214-512.000.
Berends, Howard P., to Holland Hitch Company. Container lift. 3,730,366, 5-1-73, Cl. 214-512.000.



Berends, Werner; Jacob, Heinz-Jurgen; and Eggelsmann, Harry, to U.S. Philips Corporation. X-ray tube. 3,719,846, 3-6-73, Cl. 313-57.000.
Berendsen, Jules Robert: *See—*
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Berendt, Hans Ulrich: *See—*
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Berens, Alfred S.; Bainard, Dean R.; and Corsi, George L., to Federal-Mogul Corporation. Shaft seal with expandable outer periphery. 3,743,305, 7-3-73, Cl. 277-37.000.
Berens, James J. Phostmetic nail. 3,765,410, 10-16-73, Cl. 128-81.00a.
Berenson, Allen V.: *See—*
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Beres, Steven W.: *See—*
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Beres, Steven W.; and Steiman, Wolf, to VCA Corporation. Mass or bulk forming dispenser cap for pressure cans. 3,744,678, 7-10-73, Cl. 222-205.000.
Beresic, John I. Hat-mounted container for accessories. 3,750,192, 8-7-73, Cl. 2-185.00r.
Beresic, John I. Hat embodying means for containing small accessories. 3,765,031, 10-16-73, Cl. 2-185.00r.
Beresinsky, Isaac, to Moledeth Development Company Ltd. Elevator-conveyor for bulk material. 3,762,534, 10-2-73, Cl. 198-165.000.
Beresnikow, Victor, to Canadian Stackpole Ltd. Dyanmic ground detector. 3,757,169, 9-4-73, Cl. 317-18.00r.
Beretta, Alessandro. Tape misfeeding protected recorder-reproducer. 3,711,004, 1-16-73, Cl. 226-181.000.
Beretta, Graziella: *See—*
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Beretta, Oscar, to Societe Anonyme a Responsabilite Limitee: Technifil. Dismountable and superposable baskets. 3,762,593, 10-2-73, Cl. 220-6.000.
Berezansky, Louis P. Centrifugal switch. 3,717,733, 2-20-73, Cl. 200-80.000.
Berezhnoi, Ivan Arkhipovich: *See—*
Brusakov, Jury Ivanovich; Livshits, Irma Solomonovna; Kiselev, Vasily Pavlovich; Cheltsov, Vasily Mikhailovich; Avdeev, Mikhail Pavlovich; Marin, Semen Panteleevich; Alivoivodich, Miro Khristoforovich; Kulikov, Alexei Kuzmich; Berezhnoi, Ivan Arkhipovich; olpin, Pavel Ilich; Chernyakhovsky, Leonid Vladimirovich; Eltsova; Zoya Vasilievna; Medvedeva, Lidia Nikolaevna; and Kolomitsky, Fedor Mifodievich, 3,775,092.
Berezin, Gilbert H., to Du Pont de Nemours, E. I., and Company. Tricyclo[4.3.1.1 3,8]-undecane-4-one. 3,729,513, 4-24-73, Cl. 260-586.00a.
Berezin, Leonid Georgievich: *See—*
Kozheurov, Vsevolod Rodionovich; Berezin, Leonid Georgievich; Safarov, Georgy Samuilovich; and Bulgakov, Petr Lavrentievich, 3,741,280.
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Berg, Albert T., Jr.; and Langlie, Howard. Fence insulator with eccentric post-attaching means. 3,733,429, 5-15-73, Cl. 174-161.00f.
Berg, Albert T., Jr.; and Langlie, Howard. Rake attachment for rotary power mowers. 3,753,341, 8-21-73, Cl. 56-400.040.
Berg, Allen Charles: *See—*
Murthy, Nanjundiah Narasimha; Macura, Joseph Steven; Gergely, William, Jr.; and Berg, Allen Charles, 3,724,366.
Berg, Arthur Henry, to Cambridge Filter Corporation. Apparatus for collecting filtered airborne. 3,757,496, 9-11-73, Cl. 55-293.000.
Berg, Bengt, to Aktiebolaget Svenska Flaktfabriken. Procedure for drying of cellulose. 3,739,482, 6-19-73, Cl. 34-12.000.
Berg, Bror Hugo Olof, to Molnlycke AB. Apparatus for applying adhesive tape, particularly self-adhesive tape, to a moving support surface in the form of a continuous web, a sheet or an article. 3,758,367, 9-11-73, Cl. 156-519.000.
Berg, Charles H.: *See—*
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Berg, Daniel: *See—*
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Berg, David R., to General Electric Company. Room air-conditioner one-piece chassis. 3,727,421, 4-17-73, Cl. 62-262.000.
Berg, Dennis R. $CO_2$ food freezing method and apparatus. 3,708,995, 1-9-73, Cl. 62-63.000.
Berg, Edgar A.: *See—*
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Berg Electronics, Inc.: *See—*
Berg, Quentin, 3,722,087.
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Berg, Gerhard; and Nordsiek, Karl-Heinz, to Chemische Werke Huls Aktiengesellschaft. Process for the production of non-discoloring, heat-stable and degradation-resistant polyisoprenes. 3,770,694, 11-6-73, Cl. 260-45.90r.
Berg, Harvey A.: *See—*
Werfel, Laurence M.; and Berg, Harvey A., 3,730,475.
Berg, Ib Anthon. Passive radiometric detection system. 3,735,405, 5-22-73, Cl. 343-100.0me.
Berg, John A., to Schottel of America, Inc. Steering assembly. 3,707,939, 1-2-73, Cl. 115-35.000.
Berg, Joseph A.; and Eames, Loren W. Seat having relatively adjustable sections. 3,749,442, 7-31-73, Cl. 297-312.000.
Berg, Lawrence D.: *See—*
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Berg, Leif; and Nes, Ragnar Jonas, to Ingeniorene Lund, Mohr & Giaever-Enger. Process of counteracting a tilting of a ship's hull during loading and unloading of comparatively heavy cargo units and a device to be used in such process. 3,716,154, 2-13-73, C. 214-152.000.
Berg, Lloyd; and Malsam, John S., to United States of America, Interior. Catalytic hydrogenation using a $KCl-ZnCl_2$ molten salt mixture as a catalyst. 3,736,250, 5-29-73, Cl. 208-10.000.
Berg, Louis L., to Creative Tool Company. High energy impact tool assembly. 3,712,390, 1-23-73, Cl. 173-132.000.
Berg Manufacturing Company, The: *See—*
Cannella, Joseph L., 3,719,125.
Horowitz, Charles, 3,740,106.
Horowitz, Charles; and Campanini, Sergio, 3,773,365.
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Berg Manufacturing Company, The, mesne: *See—*
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Berg, Markus; Fries, Walter; Hartenstein, Josef; and Werner, Claus, to Henkel & Cie G.m.b.H. Softening finishes for washed laundry. 3,775,316, 11-27-73, Cl. 252-8.800.
Berg Mfg. & Sales Co.: *See—*
Cannella, Joseph L., 3,708,212.
Berg, Nephi Edward, to Hendrix Wire and Cable Corporation. Character display terminal. 3,728,710, 4-17-73, Cl. 340-324.00a.
Berg, Norman H., 20% to Lee, Raymond, Organization, Inc., The. Home fire standby hose assembly. 3,749,118, 7-31-73, Cl. 137-355.280.
Berg, Quentin. Apparatus for terminal manufacture. 3,707,933, 1-2-73, Cl. 113-1.00r.
Berg, Quentin, to Berg Electronics, Inc. Method and apparatus for mounting terminals on a circuit board. 3,722,087, 3-27-73, Cl. 29-626.000.
Berg, Quentin, to Du Pont de Nemours, E. I., and Company. Terminal method and manufacture. 3,758,944, 9-18-73, Cl. 29-630.000.
Berg, Raymond: *See—*
Greenfield, Walter; and Berg, Raymond, 3,720,341.
Berg, Raymond B.: *See—*
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Berg, Rober M., to General Motors Corporation. Machining process. 3,749,625, 7-31-73, Cl. 156-250.000.
Berg, Ronald, to Institutt for Atomenergi. Method for thermal activation of a surface active material. 3,769,776, 11-6-73, Cl. 55-67.000.
Berg, Thomas L. Method and apparatus for decorating articles. 3,718,517, 2-27-73, Cl. 156-234.000.
Berg, Walter; Hanel, Gottfried; and Elster, Heinz, to Walzmaschinenfabrik August Schmitz GmbH. Method of rolling cutlery pieces. 3,776,012, 12-4-73, Cl. 72-203.000.
Berg, Winfred M. Transmission belt. 3,748,917, 7-31-73, Cl. 74-231.00r.
Bergamaschi, Mario: *See—*
Lauria, Francesco; Vecchietti, Vittorio; Bergamaschi, Mario; and Tommasini, Raffaele, 3,732,308.

Bergamini, Giorgio, to Pignone Sud S.p.A. Dual regulator pneumatic control system having automatic alignment means for cascade and manual operation. 3,707,980, 1-2-73, Cl. 137-84.000.

Bergantzel, Richard P.: *See—*
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Berge, Thomas D.: *See—*
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Bergem, Norman; Blindheim, Ulf; Onsager, Olav-Torgeir; and Wang, Hagbarth, to Sentralinstitutt for Industriell forskning. Process for dimerization, codimerization, polymerization and copolymerization of mono-olefines. 3,709,953, 1-9-73, Cl. 260-683.15d.

Bergemann, Horst: *See—*
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Eaves, Dennis Robert; and Bergemann, Horst, 3,764,152.

Bergen, Klaus: *See—*
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Bergen, Stephen Archbold; and Dubsky, Hanniel Elidad, to Pye Limited. Chromatographic column. 3,735,570, 5-29-73, Cl. 55-386.000.

Berger & Gorin, Inc.: *See—*
Yonkers, George Smilow; and Kayen, Samuel L., 3,710,996.

Berger, Abe: *See—*
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Dezuba, George P.; Berger, Abe; and Selin, Terry G., 3,730,932.
Hamilton, Stephen B.; Beers, Melvin D.; Berger, Abe; and Selin, Terry G., 3,714,089.
Holub, Fred F.; and Berger, Abe, 3,763,081.
Holub, Fred F.; Berger, Abe; and Hardman, Bruce B., 3,770,768.
Wilkus, Edward V.; and Berger, Abe, 3,715,370.

Berger, Abe, to General Electric Company. Disilyl-containing compounds. 3,729,496, 4-24-73, Cl. 260-448.80r.

Berger, Abe; and Selin, Terry G., to General Electric Company. Acrylate or methacrylate silanes. 3,746,734, 7-17-73, Cl. 260-448.20b.

Berger, Abe; and Selin, Terry G., to General Electric Company. Silyl maleates and polysiloxane maleates. 3,759,968, 9-18-73, Cl. 260-448.20q.

Berger, Abe, to General Electric Company. Organosilicon compound with isothiocyanate substituent bonded through divalent bridge. 3,759,969, 9-18-73, Cl. 260-448.20n.

Berger, Abe; and Selin, Terry G. Poylsiloxane maleates. 3,773,817, 11-20-73, Cl. 260-448.20b.

Berger, Abe, to General Electric Company. Disilyl-containing compounds. 3,773,819, 11-20-73, Cl. 260-448.20n.

Berger, Abe; and Selin, Terry G., to General Electric Company. Silyl maleates and polysiloxane maleates. 3,778,459, 12-11-73, Cl. 260-448.20n.

Berger, Abe; and Selin, Terry G., to General Electric Company. Silyl maleates and polysiloxane maleates. 3,780,080, 12-18-73, Cl. 260-448.20b.

Berger, Albert J. Olefin production. 3,726,938, 4-10-73, Cl. 260-683.00d.

Berger, Arthur; and Borgaes, Edeltraut E., to Baxter Laboratories, Inc. Thiazolopyrimidines for reviving an overdose of barbiturate. 3,745,217, 7-10-73, Cl. 424-251.000.

Berger, Arthur; and Borgaes, Edeltraut E., to Baxter Laboratories, Inc. Methods of antagonizing barbiturates with uracil thiopseudoureas. 3,749,765, 7-31-73, Cl. 424-251.000.

Berger, Arthur; and Borgaes, Edeltraut E., to Baxter Laboratories, Inc. Uracil ureas for reviving an animal given an overdose of barbiturate. 3,749,782, 7-31-73, Cl. 424-251.000.

Berger, Arthur; and Borgaes, Edeltraut E., to Baxter Laboratories, Inc. Uracil thioureas for reviving an animal given an overdose of barbiturate. 3,749,783, 7-31-73, Cl. 424-251.000.

Berger, Arthur; and Borgaes, Edeltraut E., to Baxter Laboratories, Inc. Uracil thioureas. 3,755,326, 8-28-73, Cl. 260-256.50r.

Berger, Arthur; and Borgaes, Edeltraut E., to Baxter Laboratories, Inc. Uracil ureas. 3,761,478, 9-25-73, Cl. 260-256.40c.

Berger, Arthur; and Borgaes, Edeltraut E., to Baxter Laboratories, Inc. Method of producing thiazolopyrimidines by reaction of uracil thioureas with hydrogen peroxide. 3,769,287, 10-30-73, Cl. 260-256.50r.

Berger, Arthur; and Borgaes, Edeltraut E., to Baxter Laboratories, Inc. Method of producing thiazolopyrimidines by reaction of 6-amino-1,3-dimethyluracil with alkyl isothiocyanate. 3,772,290, 11-13-73, Cl. 260-256.50r.

Berger, Carl, to Unican Security Systems, Ltd. Solid electrolyte films and devices containing same. 3,708,729, 1-2-73, Cl. 317-230.000.

Berger, Carl F.: *See—*
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Berger, Charles V., to Universal Oil Products Company. Process for the production of high purity meta-xylene. 3,773,846, 11-20-73, Cl. 260-674.00a.

Berger, Curt, to Les Forges de Zeebrugge S.A. Process for the surface treatment of non metallic cases such as cartridges, and the so treated cases. 3,727,512, 4-17-73, Cl. 86-20.000.

Berger, Curt, to Wallengerg, Henry, & Co. Process for the manufacture of combustible cases for fuel charges or explosive charges. 3,747,532, 7-24-73, Cl. 102-97.000.

Berger, Dieter; Hahnlein, Eberhard; and Seeliger, Horst, to Feldmuhle Anlagen- und Produktionsgesellschaft mit beschrankter Haftung. Method and apparatus for manufacturing non-woven fabrics. 3,758,378, 9-11-73, Cl. 162-216.000.

Berger, Emil J., Jr., to Turbo Machine Company. Method for producing synthetic torque yarns. 3,774,388, 11-27-73, Cl. 57-157.0ts.

Berger, France B., to Singer Company, The. Method and apparatus for improving the accuracy of doppler velocity measurement over the sea. 3,761,926, 9-25-73, Cl. 343-9.000.

Berger, Frank M.: *See—*
Reisner, David B.; Ludwig, Bernard J.; Berger, Frank M.; and Sofia, Robert D., 3,773,953.
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Berger, Franz: *See—*
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Berger, Gila; Daren, Stephen; Levy, Moshe; and Vofsi, David, to Yeda Research and Development Co., Ltd. Process for the production of bromostyrene and alkyl bromide. 3,737,469, 6-5-73, Cl. 260-650.00r.

Berger, Hans-Jurgen; Usedom, Hans-Wilhelm; and Michaelis, Horst, to Vereinigte Flugtechnische Werke-Fokker GmbH. Feedback control system with digital control elements. 3,743,823, 7-3-73, Cl. 235-150.100.

Berger, Heinz, to August Herzog Maschinenfabrik. Braiding machine for brading knotless netting. 3,714,862, 2-6-73, Cl. 87-8.000.

Berger, Heinz; and Berger, Heinz-Werner. Apparatus for detoxifying exhaust emissions of an internal-combustion engine. 3,775,064, 11-27-73, Cl. 23-288.00f.

Berger, Heinz-Werner: *See—*
Berger, Heinz; and Berger, Heinz-Werner, 3,775,064.

Berger, Horst; and Weese, Harry. Interstitial space frame system. 3,751,864, 8-14-73, Cl. 52-79.000.

Berger, Horst. Modified prestressed membrane structure. 3,773,061, 11-20-73, Cl. 135-1.00r.

Berger, Horst H.; and Wiedmann, Siegried K., to International Business Machines Corporation. Monolithic semiconductor circuit for a logic circuit concept of high packing density. 3,736,477, 5-29-73, Cl. 317-235.00r.

Berger, Isaac: *See—*
Cavestany, Adrian V.; and Berger, Isaac, 3,726,267.

Berger, Isaac, to Carrier Corporation. Air conditioning unit having means for providing filtered make-up air. 3,729,951, 5-1-73, Cl. 62-427.000.

Berger, Isaac, to Carrier Corporation. Air conditioning unit. 3,742,725, 7-3-73, Cl. 62-419.000.

Berger, Isaac, to Carrier Corporation. Combination electric water heater and electric space heater. 3,767,894, 10-23-73, Cl. 219-321.000.

Berger, James K., to Pioneer Magnetics, Inc. Sector and address track writing instrument for a rotating magnetic memory. 3,755,790, 8-28-73, Cl. 340-172.500.

Berger, Jenson & Nicholson Limited: *See—*
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Berger, Joel G.: *See—*
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Berger, Julius, to Hoffmann-La Roche Inc. Antibiotic X-5108 and methods for the production thereof. 3,708,577, 1-2-73, Cl. 424-121.000.

Berger, Julius, to Hoffmann-La Roche Inc. Coccidiostats. 3,719,753, 3-6-73, Cl. 424-122.000.

Berger, Julius, to Hoffmann-La Roche Inc. Process for preparing an antibiotic substance which comprised fermenting the organism streptomyces hazeliensis. 3,723,254, 3-27-73, Cl. 195-80.000.

Berger, Julius; and Rosenberger, Michael, to Hoffmann-La Roche Inc. Microbiological preparation of optically active 9-oxo-5(S)-hydroxy-decanoic acid and the lactone thereof. 3,732,268, 5-8-73, Cl. 260-413.000.

Berger, Julius, to Berger, Julius, Firma. Lawn cutting device in particular lawn edge cutter. 3,740,936, 6-26-73, Cl. 56-246.000.

Berger, Julius; Pruess, David; and Scannell, James Parnell, to Hoffmann-La Roche Inc. L-trans-2-amino-4-2-aminoethoxy)-3-butenoic acid. 3,751,459, 8-7-73, Cl. 260-534.00m.

Berger, Julius; Pruess, David; and Scannell, James Parnell, to Hoffmann-La Roche Inc. L-Trans-2-amino-4-(2-aminoethoxy)-3-butenoic acid. 3,775,255, 11-27-73, Cl. 195-80.000.

Berger, Julius, Firma: *See—*
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Berger, Karl Gustav; and Fernstrom, Gustaf Harry, to Atlas Copco Aktiebolag. Reversible pressure fluid actuated vane motor. 3,718,410, 2-27-73, Cl. 418-15.000.

Berger, Leonard: *See—*
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Berger, Phill: *See—*
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Berger, Richard M.; and Brooks, Elwin W., to American Filtrona Corporation. Apparatus for making filter means. 3,774,508, 11-27-73, Cl. 93-1.00c.

Berger, Robert L., to Western Electric Company, Incorporated. Temperature compensated field effect transistor crystal oscillator. 3,757,245, 9-40-73, Cl. 331-66.000.

Berger, Robert L.; and Holt, Alwin J., Jr., to Western Electric Company, Incorporated. Junction field effect transistor device for replacing a pentode. 3,767,946, 10-23-73, Cl. 307-304.000.

Berger, Rolf, to Eumuco Aktiengesellschaft fur Maschinenbau. Conveying device for a drop forging press. 3,760,957, 9-25-73, Cl. 214-1.0bb.

Berger, Sidney E.; and Williams, Thomas C., to Union Carbide Corporation. Silicon paper release compositions. 3,726,710, 4-10-73, Cl. 117-93.310.

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Berkovits, Barough V., to American Optical Corporation. Electrode for atrial pacing with curved end for atrial wall engagement. 3,729,008, 4-24-73, Cl. 128-418.000.

Berkovits, Barouh V.: *See—*
Thaler, Sherwood S.; and Berkovits, Barouh V., 3,746,005.

Berkovits, Barouh V., to American Optical Corporation. Atrial and ventricular demand pacer with separate atrial and ventricular beat detectors. 3,747,604, 7-24-73, Cl. 128-419.00p.

Berkovits, Barouh V., to American Optical Corporation. Synchronizedatrial and ventricular pacer and timing circuitry therefor. 3,757,791, 9-11-73, Cl. 128-419.00p.

Berkovits, Barouh V.; Denouter, Pieter J.; and Lewis, Edward L., to American Optical Corporation. Pacer connector. 3,760,332, 9-18-73, Cl. 339-66.00r.

Berkovits, Barouh V., to American Optical Corporation. Rate discrimination circuit. 3,766,413, 10-16-73, Cl. 307-294.000.

Berkovits, Barouh V.; and Guillette, Robert A., to American Optical Corporation. Atrial and ventricular demand pacer having wide-range atrial escape interval. 3,768,486, 10-30-73, Cl. 128-419.00p.

Berkovitz, Harry, to Westinghouse Electric Corporation. Duplex counterweightless shuttle elevator system. 3,750,849, 8-7-73, Cl. 187-16.000.

Berkovitz, Robert A., 22.5 to Barnard, Russell D., 5% to Dolph, Norman, 5% to Felfe, Peter F. and 22.5% to Killion, John. Four channel recording and reproducing system. 3,718,773, 2-27-73, Cl. 179-100.1td.

Berkovskaya, Karina Fridrikhovna; Lapteva, Nina Vitalievna; and Podlaskin, Boris Georgievich. Apparatus for analyzing an image. 3,781,553, 12-25-73, Cl. 250-553.000.

Berkovsky, Alexandr Mikhailovich; Turetsky, Veniamin Efimovich; Kulakov, Vladimir Petrovich; and Vakhrameev, Leonid Alexandrovich. Device for electric heating of the anodes in high-voltage mercury-arc rectifiers. 3,748,530, 7-24-73, Cl. 315-114.000.

Berkowitch, John Emmanuel, to Du Pont de Nemours, E. I., and Company. Plexifilimentary cellulose strand. 3,740,940, 6-26-73, Cl. 57-140.00r.

Berkowitz, Ami E.; and Meiklejohn, William H., to General Electric Company. Liquid identification using magnetic particles having a preselected curie temperature. 3,736,500, 5-29-73, Cl. 324-34.00r.

Berkowitz, Irving L., to Kason Hardware Corporation. Self-closing door hinges. 3,748,688, 7-31-73, Cl. 16-153.000.

Berkowitz, Lawrence; Novickis, Georgs; and Sheth, Prafulchandra N., to Dickson Paper Fibre, Inc. Trash separating apparatus. 3,757,946, 9-11-73, Cl. 209-120.000.

Berkowitz, Milton. Hanger for fabric and supporting assembly therefor. 3,720,324, 3-13-73, Cl. 211-45.000.

Berkowitz, Murray, to Curtiss-Wright Corporation. Rotary combustion engine with improved firing channel. 3,722,480, 3-27-73, Cl. 123-8.010.

Berkowitz, Sidney; and Mesiah, Raymond N., to FMC Corporation. Chlorination of cyanoric acid. 3,712,891, 1-23-73, Cl. 260-248.00c.

Berkowitz, Sidney; and Carlberg, James R., to United States of America, Navy. Programmable feature extractor and speech recognizer. 3,755,627, 8-28-73, Cl. 179-1.0sa.

Berkowitz, Sidney; Cohen, Milton A.; and Yochum, Paul R., to FMC Corporation. Dichloroisocyanurate manufacture. 3,758,463, 9-11-73, Cl. 260-248.00c.

Berkowitz, Sidney, to FMC Corporation. Production of vinylidene chloride and methyl chloroform. 3,760,015, 9-18-73, Cl. 260-658.00r.

Berland, Abram; and Berland, Moises. Introduced in liquifiers. 3,738,583, 6-12-73, Cl. 241-46.170.

Berland, Abram; and Berland, Moises. Chopper for meat and other foods. 3,738,585, 6-12-73, Cl. 241-186.00r.

Berland, Guy: *See—*
Genot, Jeanne, nee Delarbre; Le Grives, Emile; and Berland, Guy, 3,738,771.

Berland, Jean-Rene: *See—*
Claisse, Jacques B.; Mitrani, Moni S.; and Berland, Jean-Rene, 3,731,212.

Berland, Moises: *See—*
Berland, Abram; and Berland, Moises, 3,738,583.
Berland, Abram; and Berland, Moises, 3,738,585.

Berland, Ole, to American Danish Oticon A/S (Aktienselskabet William Demant). Transistorized amplifier. 3,729,588, 4-24-73, Cl. 179-1.00a.

Berlant, George, to New Hermes Engraving Corporation. Attachment kit for copying machine for engraving jewelry rings. 3,718,072, 2-27-73, Cl. 90-62.00r.

Berle, Axel Gunnar; Nilsson, Lars Gunnar; and Olofsson, Hans Kristoffer, to Atlas Copco Aktiebolag. Control valve for elastic pressure fluid. 3,731,707, 5-8-73, Cl. 137-625.660.

Berler, Robert M.: *See—*
Pert, Norman A.; Berler, Robert M.; and Murthy, Nanjundian N., 3,761,685.

Berler, Robert M.; Alpert, Norman; and Murthy, Nanjudiah N., to Pitney Bowes-Alpex, Inc. Data processing system and reader therefor. 3,731,064, 5-1-73, Cl. 235-61.11e.

Berler, Robert M., to Pitney Bowes-Alpex, Inc. Unidirectional fluorescent ink imprinted coded document and method of decoding. 3,763,356, 10-2-73, Cl. 235-61.12n.

Berler Robert M., to Pitney Bowes-Alpex, Inc. Printed code scanning system. 3,774,014, 11-20-73, Cl. 235-61.11e.

Berlier, Richard A.; and Ritchie, Robert T., to International Business Machines Corporation. Development of electrostatic images. 3,754,962, 8-28-73, Cl. 117-17.500.

Berliet, M., Automobiles: *See—*
Sibeud, Jean Paul, 3,720,934.

Berlin, Aaron S.: *See—*
Little, Vincent C.; Berlin, Aaron S.; and Leadore, Toney C., 3,712,217.

Berlin, Aaron S.; Little, Vincent C.; and Leadore, Toney E., to United States of America, Army. Non protuberance munition. 3,731,631, 5-8-73, Cl. 102-64.000.

Berlin, Alfred Anisimovich; Kefeli, Tamara Yakovlevna; Marshavina, Natalia Lvovna; Strongin, Grigory Mikhailovich; Kara-Giaur, Nikolai Vladimirovich; Kolomazov, Boris Ivanovich; Efimov, Alexei Vasilievich; Bodrova, Aglaida Nikolaevna; and Altshuler, Judif arkovna, to Institut Khimicheskoi Fiziki An SSSR. Oligocarbonate acrylates and a process for producing the same. 3,716,571, 2-13-73, Cl. 260-463.000.

Berlin, Milton: *See—*
Rheingold, Lawrence M.; Berlin, Milton; De Lalio, Louis; and Schierwagen, Alfred, 3,719,536.
Rheingold, Lawrence M.; and Berlin, Milton, 3,764,276.

Berlin, Milton; and Rheingold, Lawrence M., to Templet Industries, Inc. Optical device. 3,751,140, 8-7-73, Cl. 350-305.000.

Berlin, Zalman Leivikovich; Isarev, Igor Vladimirovich; Vasilchenko, Anatoly Stepanovich; Maslovsky, Gennady Vasilievich; Serkov, Anatoly Gavrilovich; Yakimovich, Hviktor Yakovlevich; and Ivanovsky, Evgeny Alexandrovich, to Gosudarstvenny nauchno-issledovaelsky institut tsvetnykh metallov. Method for removing heat from fluidized bed of roasting furnace and device for effecting the same. 3,712,369, 1-23-73, Cl. 165-1.000.

Berlincourt, Don A.; and Horvath, David J., to Vernitron Corporation. Piezoelectrically ignited gas burner with dual purpose electrode. 3,729,288, 4-24-73, Cl. 431-264.000.

Berlincourt, Don A.; and Schweitzer, Earl O., to Vernitron Corporation. Multi-burner gas stove with piezoelectric ignition. 3,730,672, 5-1-73, Cl. 431-264.000.

Berlincourt, Don A.; and Sliker, Lawrence S., to Vernitron Corporation, mesne. Piezoelectric transformer. 3,736,446, 5-29-73, Cl. 310-8.000.

Berlincourt, Don A., to Vernitron Corporation, mesne. Piezoelectric starter and ballast for gaseous discharge lamps. 3,764,848, 10-9-73, Cl. 315-55.000.

Berlyn, Martin John. Generation of hot vapour. 3,708,976, 1-9-73, Cl. 60-39.250.

Berlyn, Ronald Cory, to Lucas, Joseph, (Industries) Limited. Masks for use in the manufacture of circuit boards. 3,738,639, 6-12-73, Cl. 269-317.000.

Berman, Abraham; and Gerber, George V., to Vishay Intertechnology, Inc. Electrical components with flexible terminal means. 3,718,883, 2-27-73, Cl. 338-322.000.

Berman, Baruch; Gelb, George Howard; Richardson, Neal Allen; and Wang, Tsih C., to TRW Inc. Power train using multiple power sources. 3,732,751, 5-15-73, Cl. 74-675.000.

Berman, Baruch, to TRW Inc. Simplified battery powered regenerative drive system. 3,753,059, 8-14-73, Cl. 318-139.000.

Berman, Dennis W.; and Gergoe, Bela, to General Motors Corporation. Vehicle body door hinge hold-open clip. 3,710,417, 1-16-73, Cl. 16-142.000.

Berman, Edel, to Warner-Lambert Company. Fertility control employing quinestrol and quingestauol acetate. 3,755,573, 8-28-73, Cl. 424-238.000.

Berman, Elliot; and Ekman, Carl F. W., to Itek Corporation. Data storage systems. 3,711,282, 1-16-73, Cl. 96-29.00r.

Berman, Elliot; and Philbrick, Richard W., to Itek Corporation. Photographic contrast control. 3,713,823, 1-30-73, Cl. 96-48.0hd.

Berman, Elliot; and Ekman, Carl F., to Itek Corporation. Photographic image transfer apparatus. 3,751,161, 8-7-73, Cl. 355-27.000.

Berman, George A.: *See—*
Clark, Hubert M.; and Berman, George A., 3,738,784.

Berman, George A.; and Choinski, Graydon J., to TRW Inc. Pressure control valve. 3,738,380, 6-12-73, Cl. 137-115.000.

Berman, Irwin, to Foster Wheeler Corporation. Pressure vessel. 3,747,795, 7-24-73, Cl. 220-3.000.

Berman, Lawrence U., to Kraftco Corporation. Method for polymerizing fatty acids. 3,732,263, 5-8-73, Cl. 260-407.000.

Berman, Leopold, to Domodula Uno, Inc. Modular housing system. 3,755,974, 9-4-73, Cl. 52-73.000.

Berman, Merril, to Worthington Corporation. Means to overcome low flow problems of inducers in centrifugal pumps. 3,723,019, 3-27-73, Cl. 415-53.000.

Berman, Mort R., to Avalon Industries, Inc. Translucent plastic candle mold. 3,752,433, 8-14-73, Cl. 249-94.000.

Berman, Paul A., to Westinghouse Electric Corporation. Heat recovery steam generator employing means for preventing economizer steaming. 3,756,023, 9-4-73, Cl. 60-106.000.

Berman, Richard M.; Schwartz, Bernard; and Bethke, Lyman W., to Alphamedics Mfg. Corporation. Peristaltic pump. 3,737,251, 6-5-73, Cl. 417-12.000.

Berman, Seymour S. Apparatus for hip dislocation treatment. 3,759,252, 9-18-73, Cl. 128-70.000.

Bermann, Francis; Courtaud, Paul; Dioux, Claude; Manifacier, Andre; Raboeuf, Andre; and Ruffet, Pierre, to Commissariat a l'Energie Atomique. Portable detector for dosimetry of X and gamma radiation. 3,752,985, 8-14-73, Cl. 250-472.000.

Bermender, Norman W., to North American Aviation, Inc. Gas generator charge with decreased temperature sensitivity. 3,718,094, 2-27-73, Cl. 102-101.000.

Bermingham, Peter D.: *See—*
Dernovshek, Joseph F.; and Bermingham, Peter D., 3,718,210.

Bermingham, Peter D., to Goodyear Tire & Rubber Company, The. Brake disc with beryllium core and carbon wear faces. 3,724,613, 4-3-73, Cl. 188-218.0xc.

Bernacchi, Jerald R.: *See—*
Lutz, Rober Clare; and Bernacchi, Jerald R., 3,760,194.

Bernaerts, Henry J., to United States of America, Navy. Telescoping guard for Hazelton propellers. 3,717,114, 2-20-73, Cl. 114-16.00r.

Bernaerts, Henry J., to United States of America, Navy. Yieldable blades for propellers. 3,744,927, 7-10-73, Cl. 416-2.000.

Bernald, Ronald Lee, to Schmall, Peter. Attachment for a hand tool. 3,762,452, 10-2-73, Cl. 147-134.00d.

Bernard, Alain Clair: *See—*
Bernard, Alain Clair, 3,779,676.

Bernard, Alain Clair, to Bernard, Alain Clair. Apparatus for making the composite product. 3,779,676, 12-18-73, Cl. 425-11.000.

Bernard, Alain M.; and Gay, Michel J. L., to Office National d'Etudes et de Recherches Aerospatiales (par abreviation O.N.E.R.A.). Ball electrostatic accelerometer. 3,742,767, 7-3-73, Cl. 73-517.00b.

Bernard, Albert: *See—*
Tagarie, Frederic Louis Joseph; Bernard, Albert; and Saint-Aubin, Georges Gilbert, 3,780,617.

Bernard, Arthur A.; and Bernard, Richard A., to Bernard Welding Equipment Company. Thermionic insulated arc welding gun. 3,728,514, 4-17-73, Cl. 219-130.000.

Bernard, Arthur A.; and Bernard, Richard A., to Dover Corporation. Arc welding gun unitized gas hose and electrical control cord. 3,746,832, 7-17-73, Cl. 219-130.000.

Bernard, Dominic Paul Edmund, to Smiths Industries Limited. Heating elements. 3,757,087, 9-4-73, Cl. 219-549.000.

Bernard, George G., to Union Oil Company of California. Method of placing a well on production. 3,750,753, 8-7-73, Cl. 166-309.000.

Bernard, Jacques; and Gatti, Franco, to Ates Componenti Elettronici S.p.A. Deflection system for color-television tube. 3,780,338, 12-18-73, Cl. 315-23.00r.

Bernard, Jean C.; and Pascal, Pierre J., to Naphtachimie. Application of adhesive coating to isotactic polypropylene and composition therefor. 3,712,828, 1-23-73, Cl. 117-47.00a.

Bernard, Jean-Louis: *See—*
Attali, Georges; Aitken, John; and Bernard, Jean-Louis, 3,753,294.

Bernard, Jean-Pierre, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Device for winding conductor wire on a pin. 3,759,454, 9-18-73, Cl. 242-7.060.

Bernard, John E., Jr. Ventilator device. 3,779,149, 12-18-73, Cl. 98-2.160.

Bernard, Louis M., mesne: *See—*
Dumont, Roger, 3,741,578.

Bernard, Marcel, to Societe Industrielle Honeywell Bull (Societe Anonyme). Testing device for differential amplifiers. 3,718,857, 2-27-73, Cl. 324-57.00r.

Bernard, Pierre James, to Esso Research and Engineering Company. Synthetic carboxylic acids of high molecular weight. 3,778,455, 12-11-73, Cl. 260-413.000.

Bernard, Rene George, to Societe d'Etudes Verrieres Appliquees. Shutter valves for high-vacuum applications. 3,717,322, 2-20-73, Cl. 251-61.000.

Bernard, Richard A.: *See—*
Bernard, Arthur A.; and Bernard, Richard A., 3,728,514.
Bernard, Arthur A.; and Bernard, Richard A., 3,746,832.

Bernard Welding Equipment Company: *See—*
Bernard, Arthur A.; and Bernard, Richard A., 3,728,514.

Bernardi Bros., Inc.: *See—*
Bernardi, Donald A., 3,744,433.
Bernardi, Donald A.; and Chambers, Samuel S., 3,746,251.
Bernardi, Eugene P., 3,742,520.
Bernardi, Robert P., 3,731,332.
Bernardi, Robert P.; and Bernardi, Donald A., 3,750,212.

Bernardi, Donald A.: *See—*
Bernardi, Robert P.; and Bernardi, Donald A., 3,750,212.





Bernardi, Donald A., to Bernardi Bros., Inc. Apparatus for moving a vehicle along a path of travel. 3,744,433, 7-10-73, Cl. 104-172.00b.

Bernardi, Donald A.; and Chambers, Samuel S., to Bernardi Bros., Inc. Load shifting apparatus. 3,746,251, 7-17-73, Cl. 238-4.000.

Bernardi, Eugene P., to Bernardi Bros., Inc. Public rest room cleaning system. 3,742,520, 7-3-73, Cl. 4-1.000.

Bernardi, Giancarlo: *See—*
Sianesi, Dario; Bernardi, Giancarlo; and Veroli, Gianfranco, 3,721,638.
Sianesi, Dario; Bernardi, Giancarlo; and Veroli, Gianfranco, 3,755,235.

Bernardi, James T. Column flange and stiffener plate construction. 3,716,957, 2-20-73, Cl. 52-633.000.

Bernardi, James T. Beam end construction for semi-rigid connection to a column. 3,716,959, 2-20-73, Cl. 52-721.000.

Bernardi, Luigi; Bertazzoli, Cesare; Chieli, Tecla; and Maggioni, Paola, to Societa Farmaceutici Italia. Hydroxyisoquinuclidine derivatives. 3,709,893, 1-9-73, Cl. 260-293.540.

Bernardi, Luigi; and Goffredo, Onfrio. Process for the preparaion of L-dopa. 3,717,673, 2-20-73, Cl. 260-519.000.

Bernardi, Robert P., to Bernardi Bros., Inc. Automatic car wash apparatus. 3,731,332, 5-8-73, Cl. 15-21.00e.

Bernardi, Robert P.; and Bernardi, Donald A., to Bernardi Bros., Inc. Vehicle washing installation. 3,750,212, 8-7-73, Cl. 15-21.00d.

Bernardi, William A.: *See—*
Noble, Roger R.; and Bernardi, William A., 3,767,833.

Bernardin, Leo J., to Kimberly-Clark Corporation. Absorbent fibers of phosphorylated cellulose with ion exchange properties and catamenial tampons made therefrom. 3,739,782, 6-19-73, Cl. 128-285.000.

Bernardin, Rodney A.: *See—*
Burford, Milton K.; Simpson, Robert A.; and Bernardin, Rodney A., 3,774,540.

Bernardo, Edward T.; Cherochak, Joseph G.; and Sipel, Richard G., to International Business Machines Corporation. Component insertion apparatus. 3,710,479, 1-16-73, Cl. 29-203.00b.

Bernasconi, Gabriele: *See—*
Poretti, Isidoro; and Bernasconi, Gabriele, 3,750,141.

Bernasconi, Gabriele; and Poretti, Isidoro, to Societa Italiana Telecomunicazioni Siemens S.p.A. Telecommunication system with transmitting stations selectively operable as temporary reference stations. 3,761,814, 9-25-73, Cl. 325-4.000.

Bernasconi, Raymond, to Ciba-Geigy Corporation. α-(1,2,3,4-Tetrahydro-6-quinolyl)-carboxylic acids and derivatives thereof for treating inflammation. 3,778,511, 12-11-73, Cl. 424-258.000.

Bernat, Henry A.; and Murray, William K., to Tri-State Oil Tool Industries, Inc. Pulling tool. 3,752,230, 8-14-73, Cl. 166-98.000.

Bernath, John, to Du-Kote Corporation. Dry lubrication. 3,776,762, 12-4-73, Cl. 117-93.1go.

Bernath, Kornel; Moffett, S. Neil; and Papafingos, Pandelis N., to American Metal Climax, Inc. Composition and method for producing corrosion resistant and protective coatings on aluminum and aluminum alloys. 3,713,904, 1-30-73, Cl. 148-6.160.

Bernath, Stanley. Electrical convertor means and circuit. 3,723,757, 3-27-73, Cl. 307-114.000.

Bernatowicz, Daniel T.: *See—*
Forestieri, Americo F.; Broder, Jacob D.; and Bernatowicz, Daniel T., 3,780,424.

Bernau, Mary L.: *See—*
Hudziak, Josephine M.; and Bernau, Mary L., 3,769,938.

Bernauer, Karl; Borgulya, Janos; and Bohni, Erika, to Hoffmann-La Roche Inc. Naphthoquinone derivatives. 3,729,492, 4-24-73, Cl. 260-396.00r.

Berndt, Carl W., to United States of America, Atomic Energy Commission. Graphics display system. 3,736,411, 5-29-73, Cl. 235-151.000.

Berndt, Gerhard: *See—*
Eimer, Johannes; Windemuth, Erwin; Berndt, Gerhard; and Koch, Hans-Joachim, 3,726,838.
Witt, Harro; Troemel, Gerhard; and Berndt, Gerhard, 3,770,681.

Berndt, Hans-Detlef; and Wiechert, Rudolf, to Schering AG. Process for the preparation of pregnane derivatives. 3,741,997, 6-26-73, Cl. 260-397.400.

Berndt, Hartmut: *See—*
Doll, Robert; and Berndt, Hartmut, 3,778,122.

Berndt, Heinz: *See—*
Meyer-Stoll, Hans Albrecht; and Berndt, Heinz, 3,766,100.

Berndt, Joachim: *See—*
Kuhdorf, Gunther; and Berndt, Joachim, 3,746,632.

Berndt, Wilbur C.; and Hardenbrook, Harry J. Cold pressure bandage. 3,717,145, 2-20-73, Cl. 128-82.100.

Berndtsson, Gunnar Ingemar: *See—*
Unger, Hans Peter Olof; Westberg, Johan Eric Hayden; Berndtsson, Gunnar Ingemar; and Schwartz, Stephan Lars, 3,708,110.

Berne, Charles, to Edwards Company Inc. Audible signal apparatus. 3,742,493, 6-26-73, Cl. 340-388.000.

Berner, David L.; Jacobson, Glen A.; and Trombold, Charles D., to Campbell Soup Company. Spice antioxidant principle and process for the extraction thereof. 3,732,111, 5-8-73, Cl. 99-140.00r.

Berner, Kurt: *See—*
Schobinger, Ulrich; Christoffel, Cla; and Berner, Kurt, 3,719,617.

Berner, Ole, to Dameca A/S. Valve, preferably for anaesthetic plants of the closed type. 3,780,760, 12-25-73, Cl. 137-516.250.

Berner, Warren E., to General Electric Company. Substrate supported semiconductive stack. 3,736,475, 5-29-73, Cl. 317-234.00r.

Berner, Warren E., to General Electric Company. Process for manufacture of substrate supported semiconductive stack. 3,753,289, 8-21-73, Cl. 27-580.000.

Berner, Warren E., to General Electric Company. Semiconductor device including low impedance connections. 3,771,025, 11-6-73, Cl. 317-234.00r.

Bernett, Frank E., to Tile Council of America, Inc. Methods for grouting tile. 3,735,545, 5-29-73, Cl. 52-744.000.

Berney, Jean-Claude, to Golay, Bernard, S.A. Hairspring assembly for oscillator. 3,735,586, 5-29-73, Cl. 58-114.000.

Berney, Jean-Claude, to Compagnie des Montres Longines Francillon S.A. and Golay, Bernard, S.A. Electronic timepiece. 3,766,454, 10-16-73, Cl. 318-128.000.

Berney, Jean-Claude, to Golay, Bernard, S.A. Variable capacitor for adjusting the frequency of a quartz-crystal clock. 3,778,998, 12-18-73, Cl. 58-23.0ao.

Berney, Joseph C. Packing station for foldable carton handling apparatus. 3,724,185, 4-3-73, Cl. 53-186.000.

Berney, Joseph C. Handling apparatus for foldable cartons. 3,747,482, 7-24-73, Cl. 93-53.00r.

Bernhardt, Blaise: *See—*
Bernhardt, Blaise; and House, Donald (said House assor. to said), 3,726,256.

Bernhardt, Blaise; and House, Donald, said House assor. to said Bernhardt, Blaise. Demountable horse corral and trailer structure. 3,726,256, 4-10-73, Cl. 119-20.000.

Bernhardt, Daniel. Heat sealed food container. 3,765,595, 10-16-73, Cl. 229-43.000.

Bernhardt, Earl T.: *See—*
Bejach, Benton; and Bernhardt, Earl T., 3,718,845.

Bernhardt, Gunther, to Dynamit Nobel Aktiengesellschaft. Metallizing of plastic materials. 3,764,488, 10-9-73, Cl. 204-38.00b.

Bernhardt, Herman E.: *See—*
Loudon, Donald C.; and Bernhardt, Herman E., 3,765,390.

Bernhardt, Walter O., to Beet Sugar Development Foundation. Method and apparatus for rapidly and selectively determining purity of process streams. 3,713,738, 1-30-73, Cl. 356-73.000.

Bernheim, Willy; and Deiner, Hans, to Chemische Fabrik Pfersee GmbH. Water-soluble or inherently water-dispersible condensation products. 3,725,502, 4-3-73, Cl. 260-830.0tw.

Bernheim, Willy; and Deiner, Hans, to Chemische Fabrik Pfersee G.m.b.H. Process for the production of concentrated aqueous emulsions or insoluble liquid, pasty or solid organic or inorganic substances. 3,729,437, 4-24-73, Cl. 260-29.2ep.

Bernheim, Willy; and Deiner, Hans, to Chemische Fabrik Pfersee GmbH. Process for producing emulsions of organopolysiloxanes. 3,748,275, 7-24-73, Cl. 252-312.000.

Bernhoft, Gerald W.; and Miller, David A., to Koehring Company. Control for mobile construction machine. 3,773,084, 11-20-73, Cl. 137-627.500.

Bernholz, William Francis; Nahta, Roop; and Redston, John Percy, to PVO International Inc. Apparatus for treating textile fibers in staple fiber form. 3,762,188, 10-2-73, Cl. 68-19.100.

Berni, Rene P., to GAF Corporation. Process for removing polyvinyl halide residues from processing equipment. 3,764,384, 10-9-73, Cl. 134-12.000.

Berni, Rene P.; and Grifo, Richard A., to GAF Corporation. Process for washing polyester materials. 3,771,951, 11-13-73, Cl. 8-137.000.

Bernic, Thornber B.: *See—*
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Bernicot, Bernard. Scaper-extractor. 3,770,099, 11-6-73, Cl. 198-36.000.

Bernier, Chester A., to Square D Company. Selectively mountable motor starter unit with reversibly positionable circuit breaker operating mechanism. 3,714,387, 1-30-73, Cl. 200-168.00r.

Bernier, Edgar R.: *See—*
Hayner, Paul F.; and Bernier, Edgar R., 3,734,130.

Bernier, Gerald L.: *See—*
Deschamps, Nicholas H.; and Bernier, Gerald L., 3,769,770.

Bernier, Robert V., to TRW Inc. Film mount and mask for a pair of panoramic stereoscopic images. 3,723,904, 3-27-73, Cl. 40-152.000.

Bernier, Robert V., to TRW Inc. Film notcher and cutter. 3,771,402, 11-13-73, Cl. 83-459.000.

Bernklau, Kurt: *See—*
Lenz, Hans; Kolbe, Joachim; Marzolph, Herbert; and Bernklau, Kurt, 3,770,495.

Bernklau, Xaver: *See—*

Kramer, Heinrich; Butz, Josef; Muller, Richard; Thoma, Ludwig; Pollmann, Johann; Zielbauer, Hans; and Bernklau, Xaver, 3,764,431.

Bernold, Jean P. Method and apparatus for building roads. 3,716,302, 2-13-73, Cl. 404-70.000.

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Berns, Charles, to Edwards Company, Inc. Stable multivibrator D.C. bell. 3,781,877, 12-25-73, Cl. 340-396.000.

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Bernstein, Bernard J. Barbecue spit and drive mechanism. 3,733,999, 5-22-73, Cl. 99-337.000.

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Bernstein, Frank: *See—*
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Bernstein, Howard, to Bel Fuse Inc. Bi-filar delay line. 3,740,673, 6-19-73, Cl. 333-29.00r.

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Bernstein, Jack: *See—*
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Hohen, Hans; and Bernstein, Jack, 3,720,675.
Krapcho, John; and Bernstein, Jack, 3,738,999.
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Simon, Pierre; Bernstein, Jack; and Krapcho, John, 3,708,586.
Yale, Harry L.; and Bernstein, Jack, 3,723,463.
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Bernstein, Jerome; and Weissman, Walter, to Esso Research and Engineering Company. Process for preparing jet fuel. 3,751,360, 8-7-73, Cl. 208-61.000.

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Bernstein, Philip, to ESB Incorporated. Organic depolarizer. 3,708,344, 1-2-73, Cl. 136-137.000.

Bernstein, Sidney: *See—*
Wood, Harrison F.; and Bernstein, Sidney, 3,781,192.

Bernstein, Theodore: *See—*
Miller, Joseph G.; Stichman, John H.; and Bernstein, Theodore, 3,708,685.

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Bernt, Erich: *See—*
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Gruber, Wolfgang; Bergmeyer, Hans Ulrich; Werner, Wolfgang; Bernt, Erich; and Gawehn, Karlfried, 3,721,607.
Wahlefeld, August Wilhelm; Bernt, Erich; Gruber, Wolfgang; and Bergmeyer, Hans Ulrich, 3,754,862.

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Bernt Paul, to Siemens Aktiengesellschaft. Optical radiation detecting apparatus. 3,777,160, 12-4-73, Cl. 250-338.000.

Berntsen Cast Products, Inc., mesne: *See—*
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Berntsen, Walter H.: *See—*
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Bernu, John M., to Timesavers, Inc. Wide belt sanding machine with improved support for outboard end of cantilevered center bar. 3,777,442, 12-11-73, Cl. 51-135.00r.

Beroza, Morton: *See—*
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McGovern, Terrence P.; Beroza, Morton; and Ladd, Thyril L., 3,761,584.
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Beroza, Morton; McGovern, Terrence P.; Schwartz, Paul H., Jr.; and Hamilton, Donald W., to United States of America, Agriculture. Mixtures of cyclohexanealkanoic acids, their esters and eugenol as attractions for the Japanese beetle. 3,743,719, 7-3-73, Cl.424-84.000.

Berquin, Yves; Duval, Pierre; and Alleton, Jean-Claude, to Azote et Produits Chimiques S.A. Process for concentrating solutions. 3,780,161, 12-18-73, Cl. 423-310.000.

Berrer, Dagman; and Vogel, Christian, to Ciba-Geigy Corporation. Herbicidal 4-methoxy-2,6-diamino-s-triazines. 3,746,530, 7-17-73, Cl. 71-93.000.

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Berrett, James R.; and Feulner, Roger J., to Honeywell Inc. Temperature control and supervision system for building air conditioning system. 3,716,096, 2-13-73, Cl. 165-22.000.

Berriman, Lester P.: *See—*
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Berriman, Lester P., to Dresser Industries, Inc. Fluid compensator valve. 3,741,240, 6-26-73, Cl. 137-483.000.

Berry, Chester R.; and Marino, Salvatore J., to Eastman Kodak Company. Silver halide grains and photographic emulsions. 3,772,031, 11-13-73, Cl. 96-108.000.

Berry, Currie B.: *See—*
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Berry, Currie B., Jr.; and Valdo, Alex R., to Ethyl Corporation. Foamed aluminum. 3,725,037, 4-3-73, Cl. 75-20.00f.

Berry, David A.: *See—*
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Berry, Elton L.: *See—*
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Berry, George William; Gregory, Milton Wesley; and Ambrose, John Louis, to Johns-Manville Corporation. Composite pipe wrap material and method. 3,757,829, 9-11-73, Cl. 138-146.000.

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Berry, Jean-Luc: *See—*
Dardaine, Edgar; and Berry, Jean-Luc, 3,755,987.
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Berry, Jean-Luc, to Remy, E. P., et Cie. Device for opening containers in a sterile environment. 3,757,622, 9-11-73, Cl. 83-165.000.

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Berry Metal Company: *See—*
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Berry, Norman H. Ignition circuit radiation suppression structure. 3,771,006, 11-6-73, Cl. 313-118.000.

Berry, Pierre Rene; and Fernandez, Roman, to Societe d'Etudes Verrieres Appliquees. Door check. 3,760,455, 9-25-73, Cl. 16-53.000.

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Berry, Robert E.; and Wagner, Charles J., Jr., to United States of America, Agriculture. Method of preparing a dehydrated deacidified citrus juice product. 3,723,133, 3-27-73, Cl. 99-105.000.





Berry, Robert F.; and Blackwell, Henry W., to Dresser Industries, Inc. Method of making well pressure sealing cup reinforcing structure. 3,722,053, 3-27-73, Cl. 29-163.500.

Berry, Robert J.; and Dubois, Chester G., to Outboard Marine Corporation. Starter and shift interlock. 3,739,763, 6-19-73, Cl. 123-179.00k.

Berry, Steven R.: *See—*
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Berry, Thomas E., to Shell Oil Company. Zinc-containing zeolite catalyst. 3,714,029, 1-30-73, Cl. 208-111.000.

Berry, Thomas F.: *See—*
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Berry, Thomas L., Jr., to Litho-Paint Poster Company. Mobile price-rail marker. 3,708,899, 1-9-73, Cl. 40-128.000.

Berry, Walter C., Jr., to Du Pont de Nemours, E. I., and Company. Apparatus for joining filaments to a tow. 3,732,678, 5-15-73, Cl. 57-22.000.

Berry, Walter L., Jr.; Nisonger, Dan P.; and Craig, Preston S., to Thiokol Chemical Corporation. Process for the manufacture of orthochlorobenzalmalononitrile. 3,715,379, 2-6-73, Cl. 260-465.00g.

Berry, William A., to Addmaster Corporation. Key switch. 3,732,387, 5-8-73, Cl. 200-159.00r.

Berry, William A., to Addmaster Corporation. Keyboard printed circuit switch assembly with axially movable coil spring contact and associated key type actuator. 3,735,058, 5-22-73, Cl. 200-16.00a.

Berrybart, Inc.: *See—*
De Nicola, Frank; and Vallender, Edward, 3,771,708.

Berryman, Carlene. Therapeutic walking apparatus. 3,747,233, 7-24-73, Cl. 35-29.00r.

Berryman, Robert Dean; Erickson, Donald Henry; and Raphel, Julio Cesar, said Berryman and Raphel assor. to Bell Telephone Laboratories, Incorporated and said Erickson assor. to American Telephone and Telegraph Company. Control arrangement for directionalizng audio transmission. 3,714,380, 1-30-73, Cl. 179-18.0ah.

Berryman, William O., to Baker Oil Tools, Inc. Down-hole adjustable hydraulic fishing jar. 3,735,827, 5-29-73, Cl. 175-296.000.

Berryman, William O., to Baker Oil Tools, Inc. Accelerator for fishing jars. 3,735,828, 5-29-73, Cl. 175-299.000.

Bers, Abraham, to Massachusetts Institute of Technology. Generation of weakly damped electron plasma surface waves on a semiconductor; amplification and coupling of acoustic waves on an adjacent piezoelectric. 3,731,214, 5-1-73, Cl. 330-5.500.

Bersche, Fridolin L. Calendar attachment. 3,766,674, 10-23-73, Cl. 40-113.000.

Berson, Bertrand Edward; and Upadhyayula, Chainulu Lakshminarsimha, to RCA Corporation. Variable delay line utilizing one part reflection type amplifier. 3,721,924, 3-20-73, Cl. 333-31.00r.

Berstein, Gregor; Hardy, John F.; and Doppler, Leonard H., to Cabot Corporation. Silica-urea formal dehyde polymer combination flatting additive composition. 3,714,085, 1-30-73, Cl. 260-39.0sb.

Berstein, Gregor, to Cabot Corporation. Pigment compositions containing rutile titania and particulate urea-formaldehyde resin. 3,737,404, 6-5-73, Cl. 260-39.00r.

Berstein, Jack: *See—*
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Bert, Paul A.; Jedynak, Leo; and Guif, Stanley E., to Oak Electro/Netics Corporation. Security system including means for polling the premises to be protected. 3,765,016, 10-9-73, Cl. 340-408.00r.

Berta, Dominic A., to United States of America, Navy. Method of curing double base propellants. 3,725,157, 4-3-73, Cl. 149-97.000.

Berta, Dominic A., to Hercules Incorporated. Nucleated polypropylene. 3,773,741, 11-20-73, Cl. 260-93.700.

Berta, Remo Joseph; and Byrnes, Peter Gordon, to Union Carbide Corporation. Apparatus for the recovery of halocarbons. 3,720,072, 3-13-73, Cl. 62-54.000.

Bertagni, Jose Juan. Flat diaphragm for sound transducers. 3,722,617, 3-27-73, Cl. 181-32.00r.

Bertagni, Jose Juan. Flat loudspeaker with enhanced low frequency. 3,767,005, 10-23-73, Cl. 181-32.00r.

Bertagni, Jose Juan. Diaphragm for sound transducers, method and apparatus for manufacturing it. 3,779,336, 12-18-73, Cl. 181-31.00b.

Bertario, Luigi, to Alluminio Maucceri Borghetto S.p.A. Beading and/or screw-threading machine head, for metal caps used for stoppering containers having a pouring mouth. 3,771,285, 11-13-73, Cl. 53-334.000.

Bertazzoli, Cesare: *See—*
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Bertelli, Giuseppe, to S.E.B.A.C. S.p.A. Motorcycle suspension device. 3,751,022, 8-7-73, Cl. 267-60.000.

Bertelli, Guido: *See—*
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Bertellini, Gianfranco: *See—*
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Bertelloti, Ansano, to GTE Automatic Electric Laboratories Incorporated. Guard for preventing inadvertent operation of electrical switches. 3,746,818, 7-17-73, Cl. 200-168.00h.

Bertellotti, Ansano; and Thayer, Robert F., to GTE Automatic Electric Laboratories, Incorporated. Printed wiring card shelf. 3,716,760, 2-13-73, Cl. 317-10.0dh.

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Bertelson, Richard Edward, to General Electric Company. Fluidic seal for segmented nozzle diaphragm. 3,728,041, 4-17-73, Cl. 415-189.000.

Berth, Michel; Sesvignes, Francois; and Piaget, Claude, to U.S. Philips Corporation. Radiation-sensitive semiconductor target for a camera tube. 3,743,899, 7-3-73, Cl. 317-235.00r.

Berth, Peter: *See—*
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Jakobi, Gunter; and Berth, Peter, 3,775,348.

Berth, Peter; Bellinger, Horst; and Hachmann, Klaus, to Henkel & Cie GmbH. Synergistic bleaching textile treating compositions with an antimicrobial action. 3,753,914, 8-21-73, Cl. 252-95.000.

Bertheas, Jean, to Thomson-CSF. Self-guidance methods and devices for anti-submarine missiles. 3,745,956, 7-17-73, Cl. 114-23.000.

Bertheas, Jean, to Thomson-CSF. Systems for processing and generating frequency modulated signals. 3,761,821, 9-25-73, Cl. 325-496.000.

Berthelemy, Jacques; Boul, Pierre Germain R.; and Sauvan, Jacques Louis, to Societe Anonyme: Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. System for discovering a critical path in a network. 3,735,109, 5-22-73, Cl. 235-185.000.

Berthelot, Louis Marie Joseph: *See—*
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Berthet, Aristide; and Blum, Jacques, to Institut de Recherches de la Siderurgie Francaise. Method of regulating molten metal supply. 3,773,218, 11-20-73, Cl. 222-1.000.

Berthiaume, Pierre P.; Bowler, William; Cass, George Robert; Schotman, Jan; Scott, J. Frank; and Thivierge, Jacques, to Canadian National Railway Company. Short scale for weighing railway vehicles. 3,746,111, 7-17-73, Cl. 177-163.000.

Berthier, Daniel; Fauque, Jean-Marc; and Max, Jacques, to Commissariat a l'Energie Atomique. System for generating the fourier transform of a function. 3,745,317, 7-10-73, Cl. 235-156.000.

Berthier, Rene Marie. Installation for controlling the condition of water in concrete structures. 3,778,948, 12-18-73, Cl. 52-302.000.

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Berthiez, Charles William. Production of bodies of revolution. 3,741,070, 6-26-73, Cl. 90-11.00c.

Berthold, Gunter, to VEB Petrolchemisches Kombinat Schwedt. Chromatographic apparatus and method. 3,779,069, 12-18-73, Cl. 73-23.100.

Berthold, H., AG, Firma: *See—*
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Berthold, Rainer. Electro-optical determination of wear of paper making screen. 3,725,666, 4-3-73, Cl. 250-219.0df.

Berthold, Werner; Von Konig, Anita; and Timmler, Helmut, to Agfa-Gevaert Aktiengesellschaft. Stabilising developed photographic images. 3,718,468, 2-27-73, Cl. 96-50.000.

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Berthoumieux, Robert: *See—*
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Berthoux, Jean; Schneider, Gerard; and Surville, Renaud de, to Progil. Process of manufacturing acrylic derivatives. 3,708,523, 1-2-73, Cl. 260-486.00d.

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Berti, Jerome L.: *See—*
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Bertin, Daniel; Perronnet, Jacques; and Teche, Andre, to Roussel-UCLAF. Tetrahydropyrimidines. 3,732,228, 5-8-73, Cl. 260-260.000.

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Bertin, Jean Henri, to Bertin & Cie. Snow and ice track clearer for ground effect machines. 3,712,242, 1-23-73, Cl. 104-279.000.

Bertin, Jean Henri; Berthelot, Maurice Paul; and Delamare, Guy Robert, to Societe d'Etudes et de Developpement des Aeroglisseurs Marins Terrestres et Amphibies S.E.-D.A.M. Facility for confining a pressurised fluid cushion for a ground-effect machine. 3,71,507, 1-30-73, Cl. 180-127.000.

Bertin, Jean Henri; and Francois, Paul, to Bertin & Cie. Cushion confining system. 3,724,588, 4-3-73, Cl. 180-118.000.

Bertin, Jean Henri, to Bertin & Cie. Ground-effect guide facility for a machine moving along a track. 3,744,429, 7-10-73, Cl. 104-23.0fs.

Bertin, Jean Henri, to Bertin & Cie. Aircraft having an auxiliary lift device. 3,756,542, 9-4-73, Cl. 244-42.0cc.

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Bertin, Jlan Henry, to Bertin & Cie. Multi-cushion and multi-fan system for surface effect machines. 3,779,333, 12-18-73, Cl. 180-121.000.

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Bertolacini, Ralph J.; and Radford, Herschel D., to Standard Oil Company. Process for treating a high-boiling petroleum hydrocarbon feedstock. 3,714,032, 1-30-73, Cl. 208-216.000.

Bertolacini, Ralph J.; and Kim, Dae K., to Standard Oil Company. Reforming petroleum hydrocarbons with gallium-promoted catalysts. 3,772,183, 11-13-73, Cl. 208-65.000.

Bertolacini, Ralph J.; and Kim, Dae K., to Standard Oil Company. Reforming petroleum hydrocarbons with catalysts promoted with gallium and rhenium. 3,772,184, 11-13-73, Cl. 208-65.000.

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Bertolini, William A., to Bertolini Engineering Co., Inc. Locking device. 3,737,135, 6-5-73, Cl. 248-361.00r.

Bertolini, William A., to Bertolini Engineering Co., Inc. Chassis with locking device. 3,767,255, 10-23-73, Cl. 296-35.00a.

Berton, Roger J.; Daniel, Roger P.; and Reuter, Conrad N., to Ford Motor Company. Crash dummy viscous neck. 3,740,871, 6-26-73, Cl. 35-17.000.

Bertone, Pier Felice; Golzio, Pier Giorgio; and Vrola, Vincenzo, to RIV-SKF Officine di Villar Perosa S.p.A. Device for evaluating the vibrations of a revolving member. 3,745,815, 7-17-73, Cl. 73-71.400.

Bertoni, Lucio: *See—*
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Bertoni, Luigi; Pizzamiglio, Giancarlo; Fava, Renato; and Cimarosti, Giordano, to Montecatini Edison S.p.A. Equipment for the control and the regulation of an alkali-chlorine electrolysis plant with mercury-cathode cells. 3,734,848, 5-22-73, Cl. 204-220.00.

Bertorelli, Orlando Leonard, to Huber, J. M., Corporation. Particle-size modified pigments and method of increasing pigment dispersibility. 3,743,527, 7-3-73, Cl. 106-309.000.

Bertoya, Hastings Charles Maxim; Ross, Donald Mackenzie; Brook, Richard Anthony; Allnutt, Anthony John; and Semos, Robert Ernest, to Sira Institute. Method of and an electro-optical system for inspecting material. 3,779,649, 12-18-73, Cl. 356-200.000.

Bertozzi, Eugene R., to Thiokol Chemical Corporation. Polyurethane prepolymers cured with melamine or dicyandiamide. 3,726,835, 4-10-73, Cl. 260-75.0nh.

Bertozzi, Eugene R., to Thiokol Chemical Corporation. One package heat activatable polysulfide cure system. 3,748,314, 7-24-73, Cl. 260-79.000.

Bertozzi, Eugene R., to Thiokol Chemical Corporation. Process for preparing polythiodiglycol. 3,778,478, 12-11-73, Cl. 260-608.000.

Bertram, Hans-Herwig: *See—*
Arlt, Dieter; Bertram, Hans-Herwig; Pedain, Josef; Zankl, Erich; Zankl, Walter; and De Ramis, Angelika Zankl, 3,752,793.

Bertram, Uwe; Isernhagen, Rolf; Neuhaus, Hans; Schwandt, Jurgen; and Stewen, Ludolf, to U.S. Philips Corporation. Constructable logic system. 3,728,534, 4-17-73, Cl. 235-184.000.

Bertram, Uwe; Hoffmann, Hans; and Neuhaus, Hans Wilhelm, to U.S. Philips Corporation. Integrated circuit comprising strip-like conductors. 3,753,005, 8-14-73, Cl. 307-213.000.

Bertran & Hargraves, Inc.: *See—*
Hargraves, William J., 3,780,997.

Bertrand, Bernard; and Lesueur, Claude, to Automobiles Peugeot and Regie Nationale des Usines Renault. Adjustable jet and its application in an apparatus for recycling the exhaust gases of an internal combustion engine. 3,728,992, 4-24-73, Cl. 123-119.00a.

Bertrand, Francois Robert, to Medial de Toledo & Cie. N-Disubstituted derivatives of α-amino acids. 3,763,216, 10-2-73, Cl. 260-471.00a.

Bertrand, Francois Robert. Tertiary amines with antalgic and anti-inflammatory activity. 3,769,410, 10-30-73, Cl. 424-258.000.

Bertrand, James G. Motorized collapsible tube dispenser. 3,738,533, 6-12-73, Cl. 222-102.000.

Bertrand, Jean Jacques. Anchoring device. 3,769,768, 11-6-73, Cl. 52-154.000.

Bertrand, Jean-Noel Marie; and Vaerman, Joseph Marie, to Labofina S.A. Process for the production of manganic carboxylates. 3,755,391, 8-28-73, Cl. 260-429.00r.

Bertrand, Marcel J., to Uniroyal Englebert Deutschland AG. Pneumatic tire. 3,735,790, 5-29-73, Cl. 152-36.100.

Bertrand, Marcel Jean; and Moitzheim, Henrich, to Uniroyal A.G. Tire building drum for positioning a bead ring. 3,745,085, 7-10-73, Cl. 156-400.000.

Bertrandi, Luigi. Method for producing rubber and like molded articles. 3,770,864, 11-6-73, Cl. 264-268.000.

Bertsch, Peter K.: *See—*
Richmond, Thomas C.; and Bertsch, Peter K., 3,736,761.

Bertus, Brent J.: *See—*
Walker, Darrell W.; Farha, Floyd E., Jr.; and Bertus, Brent J., 3,781,223.

Bertus, Brent J.; Farha, Floyd, Jr.; and Johnston, Harlin D., to Phillips Petroleum Company. Oxidative dehydrogenation of paraffinic hydrocarbons. 3,745,194, 7-10-73, Cl. 260-680.00e.

Bertva, John T.: *See—*
Dixon, Don P.; and Bertva, John T., 3,724,232.
Thrasher, George E., Jr.; and Bertva, John T., 3,731,763.

Berwanger, Howard W.: *See—*
Sheroff, Irving; and Berwanger, Howard W., 3,753,558.

Berwick, Charles; and Henry, Colin Alexander, to Homasote Company. Hermetic sealing of apertured articles. 3,738,903, 6-12-73, Cl. 161-113.000.

Berwin, Ted W., to Hughes Aircraft Company. Cathode ray beam current control system utilizing variable duty cycle and amplitude modulation. 3,708,716, 1-2-73, Cl. 315-30.000.

Beryllium Corporation, The: *See—*
Velten, Edmund M.; Jagaciak, George J.; Wambold, John N.; and Epstein, Arthur, 3,724,050.

Berzatzy, Paul G. Tennis racket attachment. 3,712,618, 1-23-73, Cl. 273-75.000.

Berzbach, Rainer: *See—*
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Berzin, Gunard Valdemarovich: *See—*





Abramov, Viktor Petrovich; Junga, Yan Petrovich; Berzin, Gunard Valdemarovich; Skrupsky, Voldemar Petrovich; Frolov, Petr Nikolaevich; Lugovskoi, Andrei Lukyanovich; Shilgorin, Felix Alexandrovich; Dalbinsh, Yan Yanovich; Rotsen, Karl Arturovich; Ziemelis,Andris Eduardovich; Elksnis, Artur Yanovich; and Priede, Bruno Andreevich, 3,709,270.

Besant, Colin Bowden: *See—*
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Jebb, Alan; and Besant, Colin Bowden, 3,778,905.

Besch, Alois Ruppert, to Bunker-Ramo Corporation, The. Apparatus for the operation of a tool. 3,741,562, 6-26-73, Cl. 269-96.000.

Beschmann, Horst; and Wanner, Ernst. Joint of light metal parts. 3,713,679, 1-30-73, Cl. 287-189.36d.

Bese, Andras: *See—*
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Besel, Fred A.; and Setzer, William C., to Olin Corporation. Aluminum alloy conductor. 3,711,339, 1-16-73, Cl. 148-32.500.

Besel, Fred A.; and Setzer, William C., to Olin Corporation. Process for obtaining aluminum alloy conductor. 3,763,686, 10-9-73, Cl. 72-364.000.

Besel, Fred A. High conductivity aluminum alloys. 3,770,515, 11-6-73, Cl. 148-11.50a.

Besemann, Alfred, to Peters, Werner H. K., Maschinenfabrik GmbH. Apparatus for grooving and/or longitudinally cutting a continuous web. 3,760,697, 9-25-73, Cl. 93-58.20r.

Besenbruch, Alex; and Hofmann, Arthur R., to Besenbruch-Hofman, Inc. Adjustable grinding tool for brake cylinders and the like. 3,713,256, 1-30-73, Cl. 51-353.000.

Besenbruch-Hofman, Inc.: *See—*
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Besenfelder, Edward R., to Honeywell Information Systems, Inc. Phase-locked oscillator for use with variable speed data source. 3,731,220, 5-1-73, Cl. 331-1.00a.

Besler, Herbert C. Oxygen bottle carrier particularly for stretchers. 3,761,968, 10-2-73, Cl. 5-92.000.

Besnard, Jean-Claude, to Saint-Gobain Industries. Photochromic window with capillary flow control. 3,761,165, 9-25-73, Cl. 350-312.000.

Beson, John, to Rockwell Manufacturing Company. Head to hanger hydraulic connection. 3,739,846, 6-19-73, Cl. 166-89.000.

Bespak Industries Limited: *See—*
Warren, William Edward, 3,780,913.

Bespalov, Oleg Georgievich: *See—*
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Bessemer Securities Corporation: *See—*
Kahle, Rolf D.; Studey, David K.; and Bryson, James D., 3,746,444.

Bessen, Irwin I.; and Farrey, Harold E. Reducing re-evaporation of vacuum vapor deposited coatings. 3,761,302, 9-25-73, Cl. 117-71.00m.

Besser, Paul J.: *See—*
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Mee, Jack E.; Besser, Paul J.; Pulliam, George R.; Heinz, David M.; and Elkins, Perry E., 3,745,046.
Pulliam, George R.; Besser, Paul J.; Mee, Jack E.; and Heinz, David M., 3,753,814.

Besserdich, Orrin H.; and Crawford, Donald C., to FMC Corporation. Method of and apparatus for packaging flexible articles. 3,766,701, 10-23-73, Cl. 53-26.000.

Bessett, Clifford H.; and Misdom, Theodore H., to Packaging Corporation of America. Package for fragile articles. 3,732,976, 5-15-73, Cl. 206-65.00r.

Bessette, Georges Henri. Automotive transmission. 3,762,164, 10-2-73, Cl. 60-425.000.

Bessette, Ronald J.: *See—*
Shepard, Leonard F., granted to United States Atomic Energy Commission under the provisions of 42 U.S.C. 2182; Durney, George P.; Case, Melvin C.; Kenneway, A. J., III; Wise, Robert C.; Rinehart, Dixie; Bessette, Ronald J.; and Pulling, Richard C., 3,751,77.

Bessho, Michio, to Kawasaki Yuko Kabushiki Kaisha. Injection molding machine for thermo-setting plastics. 3,710,987, 1-16-73, Cl. 222-386.000.

Bessho, Motoaki: *See—*
Inai, Yuichi; Okazaki, Kanzo; Shimada, Katsutoshi; Kagei, Kengo; and Bessho, Motoaki, 3,776,946.

Bessho, Yoshio: *See—*
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Besson, A. P., & Partner Limited: *See—*
Lawson, Peter James; and Kocsis, Ferenc, 3,742,491,

Besson, Andre, to Societe de Traitements Electrolytiques et Electrothermiques. Vacuum tight high-frequency coaxial lead-through capable of handling high power. 3,710,001, 1-9-73, Cl. 174-15.0bh.

Besson, Jean R.; and Boillot, Jean R., to Office National d'Etudes et de Recherches Aerospatiales (par abreviation O.N.E.R.A.). System for measuring time difference between and synchronizing precision clocks. 3,722,258, 3-27-73, Cl. 73-6.000.

Besson, Louis Pierre Albert, to Chabas & Besson S.A. Process and apparatus for calibrating and surfacing tubes. 3,779,064, 12-18-73, Cl. 72-283.000.

Besson, Rene: *See—*
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Besson, Rene; Schneiter, Ali; and Meister, Rene, to Ebauches S.A. Calendar timepiece. 3,775,965, 12-4-73, Cl. 58-58.000.

Bessyo, Kiyoshi: *See—*
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Best, Donald C., to Union Carbide Corporation. Stabilization of lactone compounds. 3,752,828, 8-14-73, Cl. 260-343.000.

Best, Donald Edward, to Levellers, A. M., and I., Ltd. Automatic device for trimming vessels. 3,777,694, 12-11-73, Cl. 114-126.000.

Best, Howard S.; and Spycher, Anthony A., to Corning Glass Works. Successive lens polishing apparatus. 3,775,909, 12-4-73, Cl. 51-110.000.

Best, John F., to Owens-Illinois, Inc. Method and apparatus for applying a carrier to to a cluster of containers. 3,742,677, 7-3-73, Cl. 53-26.000.

Best, John H., & Sons, Inc.: *See—*
Best, Leon H.; and Davis, Robert D., 3,759,396.

Best, John S., to Dow Chemical Company, The. Insulated trafficked surfaces. 3,722,378, 3-27-73, Cl. 94-4.000.

Best, John S., to Dow Chemical Company, The. Method for suppressing the formation of ice in natural or man-made bodies of water. 3,768,264, 10-30-73, Cl. 61-1.00r.

Best, John S., to Dow Chemical Company, The. Arrangement to control heat flow between a member and its environment. 3,768,547, 10-30-73, Cl. 165-45.000.

Best, John S.; and Duda, John Larry, to Dow Chemical Company, The. Well structure and method for protecting permafrost. 3,771,590, 11-13-73, Cl. 165-1.000.

Best, John S., to Dow Chemical Company, The. Method of making sodium chloride concentrate from sea water. 3,779,030, 12-18-73, Cl. 62-58.000.

Best, Leon H.; and Davis, Robert D., to Best, John H., & Sons, Inc. Display stand. 3,759,396, 9-18-73, Cl. 211-47.000.

Best Lock Corporation: *See—*
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McCullum, Rolland Gene, 3,715,899.

Best, Maurice P.: *See—*
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Best Quality Plastics, Inc.: *See—*
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Best, Robert: *See—*
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Best, Roland W.; Doughty, Raymond A.; and Vander Burgh, Leonard F., to Staley, A. E., Manufacturing Company. Bleached starch composition of improved enzyme convertibility and process for use thereof. 3,709,788, 1-9-73, Cl. 195-31.00r.

Best, Theodore R., Jr. Apparatus for distillation of fluids. 3,741,879, 6-26-73, Cl. 202-236.000.

Best, Walter E., to Best Lock Corporation. Heavy cable shackle padlock. 3,728,879, 4-24-73, Cl. 70-38.00r.

Beste, Lawrence F.; Jones, Edward B.; and Yates, Paul C., to Du Pont de Nemours, E. I., and Company. Colloidal metal oxide sols in polar organic solvents. 3,718,584, 2-27-73, Cl. 252-8.100.

Beste, Lawrence Forwood: *See—*
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Bestehorn, Ute W. Indexed packaging and stacking device. 3,712,463, 1-23-73, Cl. 206-65.00r.

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Bestenreiner, Friedrich; Deml, Reinhold; Kubitzek, Alfred; and Borowski, Kurt, to Agfa-Gevaert Aktiengesellschaft. Distance measuring apparatus. 3,714,435, 1-30-73, Cl. 250-83.30a.

Bestenreiner, Friedrich, to Agfa-Gevaert Aktiengesellschaft. Three-dimensional picture projection. 3,715,154, 2-6-73, Cl. 352-61.000.

Bestenreiner, Friedrich; Deml, Reinhold; Helmberger, Josef; and Pfeifer, Josef, to Agfa-Gevaert Aktiengesellschaft. Apparatus for simultaneous reproduction of images of selected superimposed pictures. 3,740,464, 6-19-73, Cl. 178-6.800.

Bestenreiner, Friedrich; and Deml, Reinhold, to Agfa-Gevaert Aktiengesellschaft. Photographic recording and reproducing method and apparatus utilizing spatial carrier frequencies. 3,748,019, 7-24-73, Cl. 350-162.0sf.

Bestenreiner, Friedrich; and Deml, Reinhold, to Agfa-Gevaert Aktiengesellschaft. Method of photographic color recording. 3,759,155, 9-18-73, Cl. 95-12.200.

Bestenreiner, Friedrich; and Deml, Reinhold, to Agfa-Gevaert Aktiengesellschaft. Method for the production of lenticular elements. 3,775,110, 11-27-73, Cl. 96-27.00r.

Bestenreiner, Friedrich; Helmberger, Josef; Muller, Rudolf; and Simm, Walter, to Agfa-Gevaert Aktiengesellschaft. Method and apparatus for making color prints on paper. 3,780,214, 12-18-73, Cl. 178-5.20r.

Bestenreiner, Fritz; Helmberger, Josef; and Wick, Richard, to Agfa-Gevaert Aktiengesellschaft. Method and apparatus for the production of color prints on paper. 3,745,235, 7-10-73, Cl. 178-5.20r.

Bestetti, Luigi: *See—*
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Bestian, Walter. Dialkyl-xanthine derivatives. 3,734,911, 5-22-73, Cl. 260-256.000.

Besuner, Sidney; and Pardun, Richard L. Multiple liquid sample collection apparatus. 3,722,502, 3-27-73, Cl. 128-2.00f.

Beta Corporation of St. Louis: *See—*
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Beta Engineering & Development Ltd.: *See—*
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Beta Instrument Company Limited: *See—*
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Betchelt, Rodi; and Reynolds, Clifton J., to Aerojet-General Corporation. Fluid-operable linear actuators. 3,763,747, 10-9-73, Cl. 92-33.000.

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Bete, John U.; and Burnham, Richard C., to Bete Fog Nozzle, Inc. Spray nozzle. 3,746,262, 7-17-73, Cl. 239-458.000.

Betere, Antonio. Installations for the continuous production of needled multi-ply materials. 3,755,863, 9-4-73, Cl. 28-4.00r.

Bethe, Eugene J., to Uniroyal Inc. Apparatus for molding foam articles. 3,718,417, 2-27-73, Cl. 425-406.000.

Bethe, Klaus, to U.S. Philips Corporation. Thermistor and method of manufacturing same. 3,745,506, 7-10-73, Cl. 338-22.000.

Bethea, Thomas J.; Dixon, Charles R.; Hargett, Wyatt P., Jr.; and Stokes, William H., to Celanese Corporation. Aspirator. 3,750,922, 8-7-73, Cl. 226-97.000.

Bethea, Thomas J.; and Ritchie, Joe L., to Celanese Corporation. Mechanized bobbin handler. 3,765,160, 10-16-73, Cl. 57-53.000.

Bethge, Walther. Method for emplacing filament-shaped materials into thermoplastic materials and products produced thereby. 3,769,125, 10-30-73, Cl. 156-166.000.

Bethhehem Steel Corporation: *See—*
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Bethke, Dale L. Template bushing and locking means. 3,768,918, 10-30-73, Cl. 408-72.00b.

Bethke, Lyman W.: *See—*
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Bethke, Robert P.; Mac Fadden, David P.; Nelson, Ronald H., Sr.; and Ross, Steven G., to U.S. Industries, Inc. Plastic bag. 3,758,024, 9-11-73, Cl. 229-57.000.

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Bare, Conrad B., 3,753,687.
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Bethsold, Karl R., to Honeywell Information Systems, Inc. Process of mass soldering electrical components to circuit boards having runs formed from insulated magnet wire. 3,778,883, 12-18-73, Cl. 29-495.000.

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Betke, Adolf C., to Allis, Louis, Company, The. Firing control circuit for grid-controlled switching devices. 3,743,908, 7-3-73, Cl. 318-345.000.

Betke, Erich, to Dynamit Nobel Aktiengesellschaft. Apparatus for cementing together cut-to-size shank upper material. 3,757,373, 9-11-73, Cl. 12-52.000.

Betlejewski, Frank W.: *See—*
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Betremieux, Pierre Arthur; Feissel, Henri Gerard; Gallard, Jean Hilaire; and Lagadec, Isidore, to Societe Industrielle Honeywell Bull (Societe Anonyme). Memory matrix and its process of fabrication. 3,713,885, 1-30-73, Cl. 117-212.000.

Betschart, Alois, Jr. Self-releasing ski-binding. 3,779,570, 12-18-73, Cl. 280-11.35r.

Betschart, Robert J.; and Brown, John S., to FMC Corporation. Independent mold frozen confection machine. 3,763,661, 10-9-73, Cl. 62-345.000.

Betschart, Robert J., to FMC Corporation. Manifolding for frozen confection machine. 3,771,322, 11-13-73, Cl. 62-345.000.

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Better, Bernard R.; Kosinski, Joseph W.; and Hain, Edward, to Bendix Corporation, The. Arrangement for preloading ball screw assemblies and method of manufacture of the ball screw nut therefor. 3,720,116, 3-13-73, Cl. 74-459.000.

Better, Bernard R.; and Hain, Edward, to Bendix Corporation, The. Method and nut for preloading ball screw assemblies and method of manufacture of the preload nut member. 3,722,312, 3-27-73, Cl. 74-459.000.

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Bettermann, Dieter; and Schomisch, Alois, to Leybold-Heraeus-Verwaltung G.m.b.H. Thermal treatment of powdered or granular material. 3,742,614, 7-3-73, Cl. 34-147.000.

Bettermann, Peter; Reuschel, Heinz; and Wolf, Manfred, to Rheinmetall G.m.b.H. Device on weapon barrels for reduction of the angle jump of a projectile. 3,732,778, 5-15-73, Cl. 89-19.00r.





Bettiga, Albert C.; and Chang, Leo S., to International Business Machines Corporation. Toner distribution process. 3,731,146, 5-1-73, Cl. 317-3.000.

Bettin, Hubertus: *See—*
Firnig, Fritz; Bettin, Hubertus; and Lorenzen, Gunter, 3,781,904.

Bettin, Hubertus, to Olympia Werke AG. Output device for electronic data processing systems. 3,732,408, 5-8-73, Cl. 235-155.000.

Bettin, Hubertus, to Olympia Werke AG. Serial BCD adder with radix correction. 3,739,162, 6-12-73, Cl. 235-170.000.

Bettin, Hubertus, to Olympia Werke AG. Apparatus for producing an imprint electrostatic capillary. 3,750,564, 8-7-73, Cl. 101-1.000.

Bettini, Francesco: *See—*
Azzalin, Bruno; and Bettini, Francesco, 3,721,398.

Bettini, Giuseppe; and Bisone, Dario, to Olivetti, Ing., C., & C., S.p.A. Tape feed and control for character recognition device. 3,768,752, 10-30-73, Cl. 242-185.000.

Bettis, Edward S.; MacPherson, Herbert G.; Perry, Alfred M.; and Smith, Orville L., to United States of America, Atomic Energy Commission. Single fluid molten salt nuclear breeder reactor. 3,743,577, 7-3-73, Cl. 176-49.000.

Bettoni, Michele. Process for producing synthetic fiber textile materials in pieces or in strips. 3,708,363, 1-2-73, Cl. 156-148.000.

Betts, E. Douglas; Hanson, Donald K.; and Stephenson, Donald K., to Outboard Marine Corporation. Exhaust muffler. 3,776,366, 12-4-73, Cl. 181-57.000.

Betts, Edward E.; and Kulczycki, Stanley N., to McDonnell Douglas Corporation. Silent drive coat hanger rack mechanism. 3,738,497, 6-12-73, Cl. 211-1.500.

Betts, Gary W.: *See—*
Schmitt, Robert A.; Betts, Gary W.; Johnson, Forrest H.; and Carlson, Lloyd, 3,719,288.

Betts, James F.: *See—*
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Betts, Malcolm Charles: *See—*
Heyes, Roger Wallace; Betts, Malcolm Charles; and Cranswick, Helen Barbara, 3,748,411.

Betts, Max William: *See—*
Flavell, John; Betts, Max William; and Robinson, Frank, 3,735,812.

Betts, Max William; and Robinson, Frank, to Courtaulds Limited. Knitted garment panel. 3,777,511, 12-11-73, Cl. 66-76.000.

Betts, Paul J., to Browne Morse Co. Molding. 3,752,548, 8-14-73, Cl. 312-140.400.

Betts, Paul J., to Morse, Browne, Company. Laboratory drainboard. 3,779,392, 12-18-73, Cl. 211-75.000.

Betts, Robert E., to United States of America, Army. Rocket motor with combined nozzle and suspension plate. 3,717,998, 2-27-73, Cl. 60-255.000.

Betts, Robert E., to United States of America, Army. Support and pressure sealant for carpet roll type solid propellant grain. 3,726,090, 4-10-73, Cl. 60-255.000.

Betts, Robert E.; and Williams, Nathan P., to United States of America, Army. Missile motor igniter assembly. 3,750,581, 8-7-73, Cl. 102-49.700.

Betts, William K.; and Sawtschenko, Alexander P., to International Business Machines Corporation. Serial loop communications system. 3,723,971, 3-27-73, Cl. 340-163.00r.

Betty, Roy J., Jr.; and Nemeth, Harold C., to Akzona Incorporated. Protective polish. 3,756,835, 9-4-73, Cl. 106-11.000.

Betush, Frank A., to Progressive Machine Products, Inc. Control unit for dental. 3,755,899, 9-4-73, Cl. 32-22.000.

Betz, Carl R.; and McCracken, Ivan H., to Microfab Systems Corporation. Photoglass shipping apparatus. 3,768,393, 10-30-73, Cl. 95-100.000.

Betz, Erwin C. Metallic catalyst and aluminum oxide containing supports from acid leached alloys. 3,712,856, 1-23-73, Cl. 204-29.000.

Betz, Friedel: *See—*
Fries, Gunther K.; Oberhauser, Ernst-Gunther; and Betz, Friedel, 3,741,059.

Betz Laboratories, Inc.: *See—*
Hansen, Gerald D.; and Dryden, Paul C., 3,757,210.
Lieberman, Hillel; and Graffeo, Anthony J., 3,751,373.
Stern, Arthur M.; and Gasner, Lawrence L., 3,737,374.
Stern, Arthur M.; and Gasner, Lawrence L., 3,764,014.
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Wiley, David R., 3,713,792.

Betzler, Mark H., to Air Products and Chemicals, Inc. Ferruleless barbed tubing connector. 3,711,130, 1-16-73, Cl. 285-239.000.

Beucler, Harlan L., to Cargill, Incorporated. Animal feed supplement. 3,753,722, 8-21-73, Cl. 99-2.0nd.

Beuerman, Donald R.: *See—*
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Beuk, Jack F.; and Warner, William D. Proteolytic enzyme formulation. 3,709,790, 1-9-73, Cl. 195-66.00r.

Beukers, John M.: *See—*
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Beukers, John M.; and Poppe, Martin. Antenna for weather balloon. 3,781,893, 12-25-73, Cl. 343-702.000.

Beukers Laboratories, Inc.: *See—*
Poppe, Martin C., Jr.; and Masoian, Leon M., 3,739,390.
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Beule, Rainer: *See—*
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Beun, Matthijs; and Reijnierse, Pieter, to U.S. Philips Corporation. Method of and device for preparing characters for recognition. 3,735,349, 5-22-73, Cl. 340-146.30h.

Beun, Matthijs; and Reinjnierse, Pieter, to U.S. Philips Corporation. Method of and device for the removal of short projecting stroke elements of characters. 3,753,229, 8-14-73, Cl. 340-146.3ma.

Beurrier, Henry Richard, to Bell Telephone Laboratories, Incorporated. Broadband transformers. 3,731,237, 5-1-73, Cl. 333-24.00r.

Beurrier, Henry Richard, to Bell Telephone Laboratories, Incorporated. Impedance-matched amplifiers. 3,748,588, 7-24-73, Cl. 330-30.00r.

Beusch, Christian. Machine for continuously making icc. 3,744,266, 7-10-73, Cl. 62-189.000.

Beusink, Bernard Joseph: *See—*
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Beutel, Peter: *See—*
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Beutel, Peter; and Koenig, Karl-Heinz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for the production of substituted thionophosphoryl chlorides. 3,781,389, 12-25-73, Cl. 260-986.000.

Beuth, Jack L.: *See—*
Andrews, William P.; and Beuth, Jack L., 3,749,629.

Beuther, Harold; and Swift, Harold E., to Ameripol, Inc. Dehydrogenation process. 3,708,550, 1-2-73, Cl. 260-680.00r.

Beuther, Harold; Chun, Sun W.; Hamilton, Harry A.; and McIlvried, Howard G., to Gulf Research & Development Company. Oxidative sweetening with a calcined cogelled composite of silica and iron salt impregnated with a copper salt. 3,741,888, 6-26-73, Cl. 208191.000.

Beutl, Gerhard, to Kronseder, Herrmann. Rotary label transfer apparatus. 3,748,210, 7-24-73, Cl. 156-567.000.

Beutler, Daniel James: *See—*
Beutler, Elzy Alonzo; and Beutler, Daniel James, 3,731,840.

Beutler, Elzy Alonzo; and Beutler, Daniel James. Paint tray and handle unit. 3,731,840, 5-8-73, Cl. 220-95.000.

Beutler, Hans; De Lamotte, Emmanuel; and Perry, Anthony James, to Aktiengesellschaft Brown, Boveri & Cie. Method of producing carbon fiber-reinforced metal. 3,720,257, 3-13-73, Cl. 164-75.000.

Beutter, Karl, to Audi NSU Auto Union Aktiengesellschaft. Sealing arrangement for rotary combustion engine. 3,712,767, 1-23-73, Cl. 418-121.000.

Bevacqua, Louis A., to Motorola, Inc. High voltage coil boot. 3,716,038, 2-13-73, Cl. 123-148.00a.

Bevacqua, Peter V. Portable holder and saw blade guide slot for ridgedly camping and cutting flexible armored electrical cable at right angles to the cable axis. 3,741,061, 6-26-73, Cl. 83-454.000.

Bevan, Brian: *See—*
Bevan, Jane; and Bevan, Brian, 3,748,748.

Bevan, C. G., Associates Limited: *See—*
Bevan, Christopher Graham, 3,770,859.

Bevan, Christopher Graham, to Bevan, C. G., Associates Limited. Building materials. 3,770,859, 11-6-73, Cl. 264-71.000.

Bevan, Jane; and Bevan, Brian. Voice puzzle game. 3,748,748, 7-31-73, Cl. 35-8.00a.

Bevan, Ronald, to Imperial Chemical Industries, Limited. Sheet handling. 3,724,685, 4-3-73, Cl. 214-8.50r.

Bevard, Marion Wallace; Bevard, Samuel Street, Jr.; and Groom, Frederick, III. Non-hardenable, high-density fill composition and process for making same. 3,719,511, 3-6-73, Cl. 106-90.000.

BeVard, Ralph E., to Eraser Company, Inc., The. Wire stripper wheel for tough plastic. 3,719,007, 3-6-73, Cl. 51-207.000.

Bevard, Samuel Street, Jr.: *See—*
Bevard, Marion Wallace; Bevard, Samuel Street, Jr.; and Groom, Frederick, III, 3,719,511.

Bevens, Freer T. Well system. 3,768,555, 10-30-73, Cl. 166-67.000.

Bever, Thomas L.: *See—*
Reichard, Thomas E.; and Bever, Thomas L., 3,749,499.

Beverett, James H. Abbreviated cycle coffeemaker. 3,715,974, 2-13-73, Cl. 99-285.000.

Beverett, James H. Automatic dripolator, single compartment. 3,748,999, 7-31-73, Cl. 99-313.000.

Beveridge, Archibald D.: *See—*

Mercer, Cecil S.; Beveridge, Archibald D.; and McDowall, Frederick A., 3,775,930.
Beveridge, Harold N. Electrostatic loudspeaker and amplifier. 3,773,976, 11-20-73, Cl. 179-1.00a.
Beveridge, Thomas E.; and Andrle, Stephen G. Cover and lifting mechanism for pick-ups. 3,762,762, 10-2-73, Cl. 296-137.00b.
Beverly, Gordon Maxwell, to Imperial Chemical Industries Limited. Aromatic polysulphones containing phosphorus compounds to increase melt stability. 3,755,256, 8-28-73, Cl. 260-49.000.
Bevis Industries, Inc.: *See—*
Hyatt, Frederick; and Arruda, Frederick Earl, 3,727,273.
Bewersdorf, Elmer D.: *See—*
McCain, William B.; Cosgrove, James F.; and Bewersdorf, Elmer D., 3,732,766.
Bewley, Thomas; Cooke, Maurice Dudley; and Wirth, Max Marin, to BP Chemicals Limited. Phenol plant effluent treatment. 3,746,639, 7-17-73, Cl. 210-18.000.
Bexell, Joel L.: *See—*
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Bey, Alvin E.; and Heffel, James R., to Dow Corning Corporation. Carboxyfunctional silicones. 3,729,444, 4-24-73, Cl. 260-46.50e.
Bey, Alvin E.; and Heffel, James R., to Dow Corning Corporation. Paper sized with carboxy-functional silicones. 3,755,070, 8-28-73, Cl. 162-164.000.
Bey, Alvin E.; and Heffel, James R., to Dow Corning Corporation. Paper sized with carboxy-functional silicones. 3,755,071, 8-28-73, Cl. 162-184.000.
Bey, Alvin E.; and Heffel, James R., to Dow Corning Corporation. Aqueous dispersions of carboxyfunctional silicones. 3,763,069, 10-2-73, Cl. 260-29.20m.
Bey, Michael P.: *See—*
Bey, Paul P.; and Bey, Michael P., 3,765,778.
Bey, Paul B.; and Patten, Raymond A., to United States of America, Navy. Optical film thickness monitor. 3,744,916, 7-10-73, Cl. 356-161.000.
Bey, Paul P.; Giuliani, John F.; and Rabin, Herbert, to United States of America, Navy. Liquid medium for optical third harmonic generation. 3,718,602, 2-27-73, Cl. 252-301.20r.
Bey, Paul P.; and Bey, Michael P. Digital optical density for measuring the difference in optical density between an absorber of known density and a sample absorber. 3,765,778, 10-16-73, Cl. 356-202.000.
Beyard, Romayne M.; and Horai, John C., to GAF Corporation. Colored roofing granules. 3,752,696, 8-14-73, Cl. 117-100.00d.
Beydler, William W., to Westinghouse Electric Corporation. Pulse doppler moving-target radar. 3,742,499, 6-26-73, Cl. 343-7.700.
Beyer, Erwin: *See—*
Andra, Wolfhart; Beyer, Erwin; Leonhard, Fritz; Thul, Heribert; and Winter-Gerst, Louis, 3,728,752.
Beyer, Gerhard; and Nagelsmann, Hermann, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Filter- and screen cloths made from coated polyester material. 3,713,875, 1-30-73, Cl. 117-98.000.
Beyer, Henry R.: *See—*
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Beyer, Herbert: *See—*
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Beyer, Jacques: *See—*
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Beyer, James N.; Moore, Earl P., Jr.; and Rusher, Robert L., to Du Pont de Nemours, E. I., and Company. Refractory laminate based on negative sol or silicate and positive sol. 3,751,276, 8-7-73, Cl. 106-38.300.
Beyer, Myron S.: *See—*
Manne, Stanley; and Beyer, Myron S., 3,753,828.
Beyer, Norman H.; and Zuk, Joseph, to Chrysler Corporation. Master cylinder. 3,731,487, 5-8-73, Cl. 60-54.60e.
Beyer, Rodney B.: *See—*
Anderson, Ralph; and Beyer, Rodney B., 3,715,299.
Beyer, Rolf H.; Collings, Peter R.; and Laponsky, Alfred B., to Westinghouse Electric Corporation. Broad spectral response pickup tube. 3,748,523, 7-24-73, Cl. 315-10.000.
Beyer, Rolf R.: *See—*
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Beyerle, Rudi: *See—*
Stachel, Adolf; Beyerle, Rudi; Nitz, Rolf-Eberhard; Resag, Klaus; and Schraven, Eckhard, 3,751,413.
Stachel, Adolf; Beyerle, Rudi; Nitz, Rolf-Eberhard; Resag, Klaus; and Schraven, Eckhard, 3,757,019.
Stachel, Adolf; Beyerle, Rudi; Nitz, Rolf-Eberhard; Resag, Klaus; and Schraven, Eckhard, 3,759,907.
Beyerle, Rudi; and Stachel, Adolf; deceased (by Stachel, Inge; and Stachel, Sophie; heirs), to Cassella Farbwerke Mainkur Aktiengesellschaft. Basically substituted 2,4-(1H,3H)-quinazolindione derivatives. 3,718,648, 2-27-73, Cl. 260-247.20a.
Beyerle, Rudi; Stachel, Ingeburg Lydia Katharina; Nitz, Rolf-Eberhard; Resag, Klaus; and Schraven, Eckhard, to Cassella Farbwerke Mainkur Aktiengesellschaft. Furfuryl amino-coumarins. 3,726,902, 4-10-73, Cl. 260-343.20r.
Beyerle, Rudi; Stachel, Adolf; deceased (by Stachel, Ingeburg Lydia Katharina); Nitz, Rolf-Eberhard; Resag, Klaus; and Schraven, Eckhard, to Cassella Farbwerke Mainkur Aktiengesellschaft. Basically substituted coumarin compounds. 3,732,251, 5-8-73, Cl. 260343.20r.
Beyerle, Rudi; Stachel, Adolf; deceased (by Stachel, Ingeburg Lydia Katharina; heiress-at-law); Nitz, Rolf-Eberhard; and Scholtholt, Josef. Certain 3-(3-amino-2-benzoyloxypropyl)-4 (3H)-quinazolinones. 3,738,985, 6-12-73, Cl. 260-243.00b.
Beyerle, Rudi; Nitz, Rolf-Eberhard; Resag, Klaus; Schraven, Eckhard; and Stachel, Adolf; deceased (by Stachel, Inge; and Stachel, Sophie; heirs), to Cassella Farbwerke Mainkur Aktiengesellschaft. Basically substituted 2,4-(1H,3H)-quinazolindione derivative. 3,740,398, 6-19-73, Cl. 260-247.20a.
Beyerle, Rudi; and Stachel, Adolf; deceased (by Stachel, Ingeburg Lydia Katharina; heiress-at-law), to Cassella Farbwerke Mainkur Aktiengesellschaft. Basically substituted 4(3H)-quinazolinone derivatives. 3,748,327, 7-24-73, Cl. 260-243.00b.
Beyerle, Rudi; Stachel, Ingerburg Lydia Katharina; Nitz, Rolf-Eberhard; Resag, Klaus; and Schraven, Bokhard, to Cassella Farbwerke Mainkur Aktiengesellschaft. Thiomorpholine-coumarin derivatives. 3,772,280, 11-13-73, Cl. 260-243.00b.
Beyerlein, David G.: *See—*
Sweet, Douglas W.; and Beyerlein, David G., 3,740,103.
Van Ostrom, David L.; Sweet, Douglas W.; and Beyerlein, David G., 3,709,567.
Beyerlein, David G., to General Motors Corporation. Variable sensitivity anti-lock brake control. 3,716,273, 2-13-73, Cl. 303-21.0cg.
Beyerlein, Fritz W., to Signetics Corporation. Alignment and bonding method for semiconductor components. 3,722,072, 3-27-73, Cl. 29-471.300.
Beyerlin, Hans-Peter, to Giegle, G., & Co., GmbH. Fluorescent pigments having an isocyanate resin base. 3,741,907, 6-26-73, Cl. 252-301.20r.
Beyers, Marvin E.; Bockhaus, James A.; and Stedman, Robert N., to Caterpillar Tractor Company. Motor grader with power actuated side casting means. 3,744,568, 7-10-73, Cl. 172-33.000.
Beyl, Jean Joseph Alfred. Heel hold-down device for ski boot. 3,724,868, 4-3-73, Cl. 280-11.35t.
Beyl, Volker: *See—*
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Beyleveld, Wilhelmus M.: *See—*
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Oxenrider, Bryce C.; Woolf, Cyril; and Beyleveld, Wilhelmus M., 3,751,469.
Oxenrider, Bryce C.; Woolf, Cyril; Dear, Robert E. A.; and Beyleveld, Wilhelmus M., 3,752,840.
Beyleveld, Wilhelmus M.; Oxenrider, Bryce C.; and Woolf, Cyril, to Allied Chemical Corporation. Fluorocarbon amides. 3,754,026, 8-21-73, Cl. 260-534.00m.
Beymer, Glen E. Mobile metal forming machine for siding. 3,710,607, 1-16-73, Cl. 72-30.000.
Bezar, William, to Techni-Tool Inc. Tool for removing and inserting modules. 3,757,406, 9-11-73, Cl. 29-203.00h.
Bezemek, Vladislav: *See—*
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Bezrukov, Alexandr Fredorovich; Balykov, Petr Semenovich; Mashkovsky, Arkady Vsevolodovich; and Vasin, Eduard Lvgenievich. Roller conveyor. 3,771,633, 11-13-73, Cl. 193-35.00a.
Bezu, Maurice, to Societe d'Etudes & de Realisations Electroniques. Observation instrument with panoramic vision. 3,762,795, 10-2-73, Cl. 350-16.000.
Bezverkhny, Grigory: *See—*
Fedjukin, Dmitry Lvovich; Sergeeva, Ljudmila Semenovna; Bakharev, Andrei Nikolaevich; Korochkin, Petr Evmenovich; Aronov, Anatoly Izrailevich; Gorlina, Inna Leonidovna; Kravets, Arkady Timofeevich; Goloskov, Emmanuil Isaakovich; Annenberg, Ernest Alexandroich; Fedotova, Svetlana Evgenievna; and Bezverkhny, Grigory, 3,747,281.
Bhagat, Gopel C., to Xerox Corporation. Method of preparing a toner dispenser. 3,740,288, 6-19-73, Cl. 156-275.000.
Bhagawan, Venkatesha S.; Jones, Richard A.; McDowell, Allen W.; Mine, George D.; Remsburger, Louis J.; Rupp, Bruce A.; and Whittaker, Rodney R., to International Business Machines Corporation. Keyboard with four character set shift. 3,778,819, 12-11-73, Cl 340-365.00s.
Bhakuni, Roop S.; and Cormany, Joseph L., Jr., to Goodyear Tire & Rubber Company, The. Cyanuric acid derivatives as finish additives. 3,718,587, 2-27-73, Cl. 252-8.600.
Bhakuni, Roop S.; and Cormany, Joseph L., Jr., to Goodyear Tire & Rubber Company, The. Aliphatic diisocyanate finish additive. 3,755,165, 8-28-73, Cl. 252-8.600.
Bhan, Sharma Chandra: *See—*
Tandon, Tej Narayan; Lal, Saneja Iundar; and Bhan, Sharma Chandra, 3,774,776.
Bhankuni, Roop S.; and Cormany, Joseph L., Jr., to Goodyear Tire & Rubber Company, The. Polyurethane finish additive. 3,748,291, 7-24-73, Cl. 260-18.0tn.



Bharucha, Nanabhai Rustomji; and Ward, John Joseph Bernard. Electrodeposition of metals. 3,772,167, 11-13-73, Cl. 204-43.00t.
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Bharucha, Nanbhai Rustomji; and Janjua, Mohammad Barakat Ilahi, to Canada Wire and Cable Company Limited. Plating copper on aluminum. 3,775,264, 11-27-73, Cl. 204-28.000.
Bharucha, Nanbhai Rustomji; and Janjua, Mohammad Barakat Ilahi, to Canada Wire and Cable Company Limited. Method of plating copper on aluminum. 3,775,265, 11-27-73, Cl. 204-33.000.
Bhasin, Harish P., to Cenco Incorporated. Static stirrer apparatus and process. 3,762,466, 10-2-73, Cl. 165-108.000.
Bhaskar, Surindar N.; Cutright, Duane E.; and Gross, Arthur, to United States of America, Army. Pulsating hydrojet lavage device. 3,757,806, 9-11-73, Cl. 134-191.000.
Bhatia, Harsaran S.; Davis, Donald E.; and Martin, David H., to International Business Machines Corporation. Push-pull line driver circuit. 3,757,138, 9-4-73, Cl. 307-235.00r.
Bhatia, Mahesh, to Anchor Plastics Company, Inc. Cutting tubular plastic extrusion. 3,730,035, 5-1-73, Cl. 83-54.000.
Bhatia, Vijay H.; and Clendenen, Harold K., to TRW Inc. Angle drive. 3,774,466, 11-27-73, Cl. 74-417.000.
Bhatt, Harshad J.; and Tuttle, James W., to Cogar Corporation. Fabrication method for making an aluminum alloy having a high resistance to electromigration. 3,716,469, 2-13-73, Cl. 204-192.000.
Bhatt, Harshad J., to Cogar Corporation. Fabrication method for making an aluminum alloy having a high resistance to electromigration. 3,717,564, 2-20-73, Cl. 204-192.000.
Bhatt, Pradip: *See—*
Radtke, Shcrade F.; Miron, Jerry; Bhatt, Pradip; Shah, Bharat C.; and Skeist, Irving, 3,719,551.
Skeist, Irving; Miron, Jerry; Steinfink, Murray; Savla, Manilal; Robles, Joseph; and Bhatt, Pradip, 3,759,869.
Bhattacharyya, Ranendra Kumar, to Western Electric Company, Incorporated. Methods and apparatus for trimming thin-film devices to value by means of a computer-controlled anodization process. 3,723,257, 3-27-73, Cl. 204-15.000.
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Bhaumik, Mani L.; Diem, Don D.; and Mann, Michael M., to Northrop Corporation. Room temperature colaser. 3,761,838, 9-25-73, Cl. 331-94.500.
Bhikuni, Roop S.; and Cormany, Joseph L., Jr., to Goodyear Tire & Rubber Company, The. Polyamide in combination with polycarbonate, metal complex, polyisocyanating agent for polyester modification and rubber tire structures made therefrom. 3,714,772, 2-6-7, Cl. 57-153.000.
Bhuta, Mahendra; and Sacks, William, to Allied Chemical Corporation. Polyamide composite film. 3,762,986, 10-2-73, Cl. 161-227.000.
Bhuta, Pravin G.: *See—*
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Bhuta, Pravin G.; and Aprahamian, Robert, to TRW Inc. Pulsed acousto-optical echo imaging method and apparatus. 3,763,693, 10-9-73, Cl. 73-67.900.
Bi-Be-Lo, Inc.: *See—*
Lindahl, Paul A., 3,712,510.
Biach, John L. Torquing device. 3,745,858, 7-17-73, Cl. 81-57.039.
Biagetti, Richard Victor, to Bell Telephone Laboratories, Incorporated. Fabrication of lead-acid batteries. 3,765,943, 10-16-73, Cl. 136-27.000.
Biagi, Alvaro; and McGarrett, Douglas, to Republic Electronics Industries Corporation. Temperature and load compensated R.F. detector for peak power measurement system. 3,755,735; 8-28-73, Cl. 324-95.000.
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Bial, Wolfgang; McDonnell, Michael John; and King, Gordon Alan. Electrical bulb failure indicating circuits. 3,774,188, 11-20-73, Cl. 340-251.000.
Bialas, Horst; and Lindenthal, Friedrich, to Dierks & Sohne. Mixing machines. 3,722,831, 3-27-73, Cl. 259-6.000.
Biale, Giovanni: *See—*
Fenton, Donald M.; and Biale, Giovanni, 3,755,421.
Biale, Giovanni, to Union Oil Company of California. Self-crosslinking vinyl acetate latices. 3,714,096, 1-30-73, Cl. 260-29.4ua.
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Biale, Giovanni; and Pilling, Richard L., to Union Oil Company of California. Crosslinkable vinyl acetate latices. 3,714,100, 1-30-73, Cl. 260-29.6ta.
Biale, Giovanni, to Union Oil Company of California. Vapor phase carbonylation. 3,733,362, 5-15-73, Cl. 260-604.0hf.
Biale, John: *See—*
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Biale, John, to Union Oil Company of California. Polymerization of ethylene with a supported palladium catalyst. 3,738,977, 6-12-73, Cl. 260-94.9da.
Bialek, Norman. Video image retrieval catalog system. 3,757,037, 9-4-73, Cl. 178-6.60a.
Bialobrzeski, Walter. Electrical grid. 3,758,980, 9-18-73, Cl. 43-112.000.
Bialous, Charles A., to General Electric Company. Thermally stable polycarbonate composition. 3,742,083, 6-26-73, Cl. 260-824.00r.
Bialous, Charles A., to General Electric Company. Thermally stable polycarbonate composition. 3,742,085, 6-26-73, Cl. 260-827.000.
Bialous, Charles A.; and Jaquiss, Donald B. G., to General Electric Company. Thermal oxidatively stable polycarbonate composition. 3,766,139, 10-16-73, Cl. 260-47.0xa.
Bianca, Edorado Guiseppe. Load transfer device. 3,746,191, 7-17-73, Cl. 214-16.1cc.
Bianchetta, Donald L.; Sears, Richard L. M.; McWilliams, Orcenith D.; and Scheidt, James E., to Caterpillar Tractor Company. Hydraulic steering system. 3,720,282, 3-13-73, Cl. 180-79.20r.
Bianchetta, Donald L.; Guhl, Richard E.; Kershaw, Samuel L.; and Szentes, John F., to Caterpillar Tractor Company. Vehicle power and brake cooling control. 3,727,730, 4-17-73, Cl. 192-3.00r.
Bianchetta, Donald L.; and Lohbauer, Kenneth R., to Caterpillar Tractor Company. Hydraulic control valve assembly. 3,759,292, 9-18-73, Cl. 137-596.000.
Bianchetta, Donald L., to Caterpillar Tractor Company. Brake saver circuit. 3,759,357, 9-18-73, Cl. 192-3.00r.
Bianchetta, Donald L.; and Lohbauer, Kenneth R., to Caterpillar Tractor Company. Pilot control valve. 3,771,564, 11-13-73, Cl. 137-625.630.
Bianchi, Angelo: *See—*
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Bianchi, Gerardo: *See—*
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Bianchi, Giancarlo Eletti: *See—*
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Bianchi, Giuseppe; and Nidola, Antonio E., to Oronzio de Nora Impianti Elettrochimici S.p.A. Activated graphite. 3,759,842, 9-18-73, Cl. 252-447.000.
Bianchi, John E. Front open holster with low mounting. 3,749,293, 7-31-73, Cl. 224-2.00b.
Bianchi, Nereo, to Necchi S.p.A. Work clamp for sewing machines. 3,713,405, 1-30-73, Cl. 112-76.000.
Bianchi, Nereo, to Necchi S.p.A. Automatic apparatus for making welted pockets. 3,745,946, 7-17-73, Cl. 112-65.000.
Bianchi, Ralph A., to JBF Scientific Corporation. Liquid surface sweeping apparatus. 3,716,142, 2-13-73, Cl. 210-242.000.
Bianchini, Giacomo. Fabrics coupling machine. 3,738,897, 6-12-73, Cl. 156-498.000.
Bianchino, Daniel C. Mannequin structure. 3,713,375, 1-30-73, Cl. 95-82.000.
Bianesi, Dario; and Pasetti, Adolfo, to Montecatini Edison S.p.A. Fluorinated oxygen-containing copolymers. 3,770,792, 11-6-73, Cl. 260-463.000.
Bianucci, Giancarlo: *See—*
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Bias, Sydney C. Control device. 3,768,511, 10-30-73, Cl. 137-597.000.
Biasotti, Joseph Brian, to Texaco Inc. Motor fuel composition. 3,764,281, 10-9-73, Cl. 44-62.000.
Biava, Domenick R.: *See—*
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Bibb, Everett I. Method of constructing reinforced articles having a plastic core, and frame therefor. 3,749,594, 7-31-73, Cl. 117-104.00a.
Bibby, Malcolm M.; and Wise, Raleigh W., to Monsanto Company. Apparatus for indicating departure from predetermined limits. 3,726,132, 4-10-73, Cl. 73-101.000.
Bibl, Wilhelm, to Wenczler & Heidenhain. Apparatus for measuring of test pieces. 3,744,139, 7-10-73, Cl. 33-174.00p.
Biblarz, Oscar, to United States of America, Navy. Electrogasdynamic spectral anemometer. 3,777,564, 12-11-73, Cl. 73-194.00f.
Bibler, David R. Poultry handling system. 3,718,118, 2-27-73, Cl. 119-16.000.
Bice, Charles D.; Senchur, Frank W.; and Few, Robert A., to Westinghouse Electric Corporation. Contact-pressure linkage for a circuit interrupter of the torsion-spring type. 3,721,790, 3-20-73, Cl. 200-170.00a.
Bice, James W.; and Timm, Will; deceased (by Timm, Asta; representative), to Celesco Industries, Inc., mesne. Differential pressure transducer. 3,762,208, 10-2-73, Cl. 73-398.0ar.
Bice, Keith Charles, to Mindrill Limited. Drilling apparatus. 3,757,873, 9-11-73, Cl. 173-43.000.
Bich, Claude H. Writing implement. 3,776,646, 12-4-73, Cl. 401-199.000.
Bichard, Frank Rouget: *See—*
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Bichel, Darwin Carl; and Malcolm, Robert La Verne, to Deere & Company. Crop feeding conveyor for a harvester. 3,780,851, 12-25-73, Cl. 198-175.000.
Bichell, William J.: *See—*
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Bick, Maurice; and Lochet, Jean A., to Auric Corporation. Bright gold alloy electroplating bath and process. 3,716,463, 2-13-73, Cl. 204-43.000.
Bick, Maurice; and Lochet, Jean A., to Auric Corporation. Gold plating bath for barrel plating operations. 3,770,596, 11-6-73, Cl. 204-43.00g.
Bickart, Charles J.: *See—*
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Bickel, Charles E.: *See—*
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Bickel, Hans: *See—*
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Prelog, Vladimir; Zaehner, Hans; and Bickel, Hans, 3,769,418.
Bickel, Hans; Bosshardt, Rolf; and Mueller, Johannes, to Ciba-Geigy Corporation. Derivatives of 7-aminocephalosporanic acid. 3,719,673, 3-6-73, Cl. 260-243.00c.
Bickel, Hans; Mueller, Johannes; Bosshardt, Rolf; Peter, Heinrich; and Fechtig, Bruno, to Ciba-Geigy Corporation. Derivatives of 7-aminocephalosporanic acid. 3,726,865, 4-10-73, Cl. 260-243.00c.
Bickel, Hans; and Kump, Wilhelm, to Ciba-Geigy Corporation. Antibiotically active compounds. 3,738,980, 6-12-73, Cl. 260-239.30p.
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Bickford, Allan M.; and Czajka, Ronald J., to Sweatman, Fraser, Inc. Continuous flow anesthesia apparatus. 3,739,799, 6-19-73, Cl. 137-88.000.
Bickford, Cudley V.: *See—*
Price, Ralph E.; and Bickford, Cudley V., 3,751,857.
Bickford, Harry G.; Kieny, Leonard A., Jr.; and Peltier, Lewis G., Jr., to International Business Machines Corporation. Surface characterization. 3,733,893, 5-22-73, Cl. 73-73.000.
Bickford, John H., to Veeder Industries Inc. Fluid dispensing apparatus computing and/or preselecting system. 3,756,630, 9-4-73, Cl. 235-151.340.
Bickham, Francis L., to Price, H. C., Co. Manual beveler and sealer for pipe coatings. 3,743,470, 7-3-73, Cl. 425-458.000.
Bickl, Horst; and Pfeifer, Josef, to Agfa-Gevaert Aktiengesellschaft. Method and arrangement for positioning of a selected image in a sequence of images at a predetermined location. 3,731,063, 5-1-73, Cl. 235-61.11e.
Bickl, Horst; Lange, Joachim; Neumann, Heinrich; Goschin, Bernhard; and Reider, Alois, to Agfa-Gevaert Aktiengesellschaft. Unbalance detection circuits for plural parrallel lamp systems. 3,732,461, 5-8-73, Cl. 315-130.000.
Bickler, Donald Bertram, to Globe-Union Inc. Energy sensitive readout device. 3,739,182, 6-12-73, Cl. 250-219.0dc.
Bickley Furnaces Incorporated: *See—*
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Bickoff, Emanuel M.; and Kohler, George O., to United States of America, Agriculture. Method of preparing animal litter. 3,747,564, 7-24-73, Cl. 119-1.000.
Bidanset, Edward J., to Technicon Instruments Corporation. Tape cartridge for use in automated sample analysis apparatus. 3,728,081, 4-17-73, Cl. 23-259.000.
Biddick, Royce E., to Union Oil Company of California. Electrode with passageways and weir-shaped electrolyte collecting means. 3,708,341, 1-2-73, Cl. 136-120.0fc.
Biddick, Royce E.; and Ockerman, John B., to United States of America, Army. Stabilization of boron phosphate sulfuric acid gels. 3,751,304, 8-7-73, Cl. 136-158.000.
Biddison, John M., to Globe Tool and Engineering Company, The. Automatic armature winding. 3,713,209, 1-30-73, Cl. 29-597.000.
Biddle, James A., to Lockheed Aircraft Corporation. Wire stripping device. 3,769,705, 11-6-73, Cl. 30-90.100.
Biddle, James G., Company: *See—*
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Biddy, Basil Glover: *See—*
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Bideau, Max A.; Chauveton, Charles E.; Fruchard, Alain; and Laurens, Marc, to Eastman Kodak Company. Printing from color transparencies. 3,764,212, 10-9-73, Cl. 355-100.000.
Bidgood, William T. Eyeglasses with counterbalanced temple pieces. 3,768,892, 10-30-73, Cl. 351-158.000.
Bidiwala, Bash S., to Philco-Ford Corporation. Refrigerant drier. 3,755,994, 9-4-73, Cl. 55-387.000.
Bidlack, Richard Henry; McKelvey, William John; and Rezelman, James Alan, to Bell Telephone Laboratories, Incorporated. Continuous inband testing of trunks with automatic trunk substitution upon detecting a defective trunk. 3,742,154, 6-26-73, Cl. 179-175.00.
Bidwell, Arthur W., to Magnode Products, Inc. Anode fitting. 3,718,571, 2-27-73, Cl. 204-197.000.
Bidwell, Arthur W., to Magnode Products, Inc. Fluid fitting. 3,718,573, 2-27-73, Cl. 204-297.00r.
Bidwell, Donald E., to Pemberton, J. C. Detent mechanism. 3,768,333, 10-30-73, Cl. 74-527.000.
Bieber, Clarence George; and Mihalisin, John Raymond, to International Nickel Company, Inc., The. Ultra hard iron-colbalt-molybdenum-nickel alloys. 3,719,474, 3-6-73, Cl. 75-123.000.
Bieber, George. Device for dumping beet boxes. 3,738,707, 6-12-73, Cl. 298-18.000.
Bieber, George F.: *See—*
Kearney, Thomas J.; and Bieber, George F., 3,733,710.
Bieber, William J. Dual-mode shifter for automatic transmissions. 3,728,908, 4-24-73, Cl. 74-473.00r.
Bieber, William J. Transmission shifter having connectional mode and racing mode operational capabilities. 3,757,600, 9-11-73, Cl. 74-473.00r.
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Biechler, Charles S.: *See—*
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Biederman, William. Optical cephalostat. 3,708,663, 1-2-73, Cl. 250-59.000.
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Biegert, Karl E.; and Tice, Robert M., to Ultronic Systems Corporation. Apparatus for controlling output data rate. 3,728,683, 4-17-73, Cl. 340-172.500.
Biehl, Richard E., to Materials Research Corporation. Heated substrate support station for sputtering systems. 3,749,662, 7-31-73, Cl. 204-298.000.
Biel, John H.: *See—*
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Bielawski, Joseph J., to Western Electric Company, Incorporated. Method of encasing a toroidally shaped object with a heat shrinkable covering. 3,710,531, 1-16-73, Cl. 53-13.000.
Bielefelder Haushaltsgeraete GmbH & Co. KG.: *See—*
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Bielenberg, Max J.: *See—*
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Bielfeldt, Friedrich Bernd; and Neureuther, Jurgen, to Eckert & Ziegler GmbH, Firma. Screw-type injection-molding machine. 3,773,451, 11-20-73, Cl. 425-147.000.
Bielfeldt, Heinz, to Sauer, J. P., & Sohn GmbH. Cylinder breech for small firearms. 3,707,795, 1-2-73, Cl. 42-16.000.
Bielfeldt, Heinz, to Sauer, J. P., & Sohn GmbH. Safety apparatus for a gun triggering mechanism. 3,707,796, 1-2-73, Cl. 42-70.00c.
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Bienenfeld, Myron, to Magic Mold, Inc. Support garment. 3,710,801, 1-16-73, Cl. 128-547.000.
Bienenfeld, Myron, to Magic Mold, Inc. Adjustable support garment. 3,763,866, 10-9-73, Cl. 128-558.000.
Bienert, Klaus; Lang, Winfried; and Weidner, Herbert, to Wacker-Chemitronic Gesellschaft fur Elektronik Grundstoffe m.b.H. Process for making boron nitride bodies. 3,711,594, 1-16-73, Cl. 423-290.000.
Bienert, Klaus; Lang, Winfried; and Nordt, Egon, to Wacker-Chemitronic Gesellschaft fur Elektronik Grundstoffe m.b.H. Treated quartz vessels for use in producing and further processing III-V semiconductor bodies low in silicon. 3,734,817, 5-22-73, Cl. 161-92.000.
Bienert, Klaus; Lang, Winfried; and Kremser, Fritz, to Wacker-Chemitronic Gesellschaft fur Elektronik Grundstoffe m.b.H. Process for producing monocrystals from III-V compounds melts with a boron oxide rim. 3,741,817, 6-26-73, Cl. 148-1.600.
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Bienert, Walter B.; and Trimmer, Donald S., to Sinclair & Valentine Company, Inc. Pressureless non-contact electrostatic printing. 3,741,117, 626-73, Cl. 101-426.000.
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Bienz, Hans, to Stoba AG. Security seal. 3,708,835, 1-9-73, Cl. 24-16.0pb.
Bier, David A.; and Curtze, Edward W., to PPG Industries, Inc. Cutting of glass. 3,756,104, 9-4-73, Cl. 83-8.000.
Bier, David A., to PPG Industries, Inc. Glass cutting using a direct-current torque motor. 3,760,997, 9-25-73, Cl. 225-2.000.
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Bier, Kenneth C., to Holley Carburetor Company. Remote metering system. 3,724,435, 4-3-73, Cl. 123-139.00e.
Bierbrauer, Henry C. Impact absorbing vehicle bumper. 3,752,523, 8-14-73, Cl. 293-89.000.
Bierdemann, George Haenl: *See—*
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Bieri, Hans. Rotary outlet valve for metallurgical ladles. 3,760,992, 9-25-73, Cl. 222-512.000.
Bierlein, John David, to Du Pont de Nemours, E. I., and Company. Optical scanner. 3,760,385, 9-18-73, Cl. 340-174.0yc.
Bierly, Meade Goodman, to AMP Incorporated. Overcurrent foldback circuit. 3,771,021, 11-6-73, Cl. 317-33.0vr.
Biermann, Peter, to Marker, Hannes. Toe iron for safety ski bindings. 3,719,368, 3-6-73, Cl. 280-11.35t.
Bierweiler, Robert A. Building construction. 3,742,660, 7-3-73, Cl. 52-79.000.
Bierwirth, Henry C.; and Foty, James V., to Lear Siegler, Inc. Mounting for roof top air condition. 3,721,106, 3-20-73, Cl. 62-297.000.
Bierwith, Stanton F., to Great Canadian Oil Sands, Limited. Electroslag guide nozzle. 3,761,674, 9-25-73, Cl. 219-73.000.
Bierwith, Stanton F., to Great Canadian Oil Sands, Limited. Method of manufacturing laminated teeth for bucketwheel excavator using electroslag coating. 3,766,354, 10-16-73, Cl. 219-77.000.
Bierwith, Stanton F., to Great Canadian Oil Sands, Limited. Method of providing alloyed zones on a hard faced workpiece. 3,778,580, 12-11-73, Cl. 219-73.000.
Bieschke, Hillard J., to Knox Manufacturing Company. Mounting device for projection screen. 3,750,994, 8-7-73, Cl. 248-324.000.
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Biesheuvel, Arnoldus: *See—*
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Biesinger, Erwin; Kostora, Lothar; and Sohnchen, Karl, to Seco Maschinenbau GmbH & Co., KG. Drum having displaceable textile web partition means. 3,738,129, 6-12-73, Cl. 68-145.000.
Biet, Jean-Pierre, to Compagnie Generale d'Electricite. Window for a laser tube end piece. 3,715,684, 2-6-73, Cl. 331-94.500.
Biever, Robert E. Portable high volume gas supply system. 3,727,651, 4-17-73, Cl. 141-231.000.
Biewer, Mathias L., to MSI Data Corporation. Data collection system including controlled partial switching of the data collection modules thereof. 3,771,132, 11-6-73, Cl. 340-172.500.
Biffle, Morris S. Drill head and sealing apparatus therefore. 3,724,862, 4-3-73, Cl. 277-31.000.
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Bigalke, Erhard; Pundt, Dieter H. W.; and Wolf, Jurgen, to Volkswagenwerk Aktiengesellschaft. Storage control for gasoline injection installations of combustion engines. 3,707,951, 1-2-73, Cl. 123-32.0ea.
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Bigelow, John Howard, to Du Pont de Nemours, E. I., and Company. Boranes as photographic stabilizers. 3,725,078, 4-3-73, Cl. 96-109.000.
Bigelow, John Howard, to Du Pont de Nemours, E. I., and Company. Boron hydrides as reduction sensitizers in developing-out silver halide emulsions. 3,761,275, 9-25-73, Cl. 96-107.000.
Bigelow, John Howard, to Du Pont de Nemours, E. I., and Company. Silver halide emulsion sensitized with a polyhedral haloborane. 3,779,777, 12-18-73, Cl. 96-107.000.
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Biggerstaff, William L. Pivoting chair with pivotally displaceable seat and back. 3,767,190, 10-23-73, Cl. 272-58.000.
Biggi, Frank J. Register structures. 3,720,154, 3-13-73, Cl. 98-110.000.
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Bigland, Bernard Keith, to General Engineering Company (Radcliffe) Limited. Manufacture of plastic film. 3,714,309, 1-30-73, Cl. 264-89.000.
Bigler, Boyd R.: *See—*
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Bigot, Bernard, to Produits Chimiques Pechiney-Saint-Gobain and V.C.B. Union Chimique-Chimische Bedrijven. Process for the manufacture of phosphoric acid in the wet way. 3,755,539, 8-28-73, Cl. 423-320.000.
Biguenet, Charles, to CSF-Compagnie Generale de Telegraphie Sans Fil. Titanium filament for use in vacuum techniques. 3,724,049, 4-3-73, Cl. 29-191.000.
Bihun, Edward J.; and Castello, Michael, to Van Dresser Corporation. Wire mat assembly for a box spring. 3,761,972, 10-2-73, Cl. 5-247.000.
Bijasiewicz, Tadeusz M.; and Somerhalder, Robert A., to Wean United, Inc. Design of rotary strip accumulator. 3,729,144, 4-24-73, Cl. 242-55.000.
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Bijleveld, Eduard; and Cleij, Jan, to N.V. Octrooien Maalschappij Activit. Process for the purification of gases and vapors. 3,727,379, 4-17-73, Cl. 55-73.000.
Bikes, Robert L. F. Gun holder. 3,767,094, 10-23-73, Cl. 224-1.00r.
Bikmametov, Ilgiz Ganeevich: *See—*
Belenky, Alexandr Mikhailovich; Lazko, Viktor Evgenievich; Toschev, Mikhailovich; Bikmametov, Ilgiz Ganeevich; Vilkov, Vladimir Kirillovich; Mosendz, Nikolai Alexandrovich; Yakushina, Galina Mikhailovna; and Mikhailov, Mikhail Vasilievich Poplavko, 3,770,45.
Bil, Milus S., to Clarol Incorporated. Heterocyclic nitro-P-phenylenediamines. 3,758,499, 9-11-73, Cl. 260-326.501.
Bila Cup AB: *See—*
Persson, Karl Rune, 3,765,564.
Biland, Hans Rudolf: *See—*
Dunnenberger, Max; and Biland, Hans Rudolf, 3,734,884.
Bilas, Michael. Vehicle suspension. 3,740,071, 6-19-73, Cl. 280-124.00r.
Bilas, Michael. Trailer vehicle suspension. 3,743,315, 7-3-73, Cl. 280-134.00r.
Bilas, Michael. Wheeled vehicle suspension. 3,762,487, 10-2-73, Cl. 180-24.090.
Bilas, Michael. Tiltable mounting for dump truck bodies. 3,770,320, 11-6-73, Cl. 298-17.00s.
Bilbao, Francisco. Clothes iron rest for ironing boards. 3,739,507, 6-19-73, Cl. 38-107.000.

Bilbow, Patrick J., to Lyn-Weld Company, Inc. Foam handling apparatus and method. 3,741,416, 6-26-73, Cl. 42-152.000.

Bilbrey, Robert A., to West, Benjamin W.; d/b/a California Controls Company. Temperature sensing device. 3,777,696, 12-11-73, Cl. 116-114.500.

Bilco, Arthur, to Raymond Corporation, The. Hydraulic seals. 3,738,665, 6-12-73, Cl. 277-3.000.

Bilco, Arthur, to Raymond Corporation, The. Lift truck load wheel arrangement. 3,778,080, 12-11-73, Cl. 280-104.50r.

Bildahl, Richard L.: *See—*
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Anderson, Lloyd L.; and Bildahl, Richard L., 3,716,279.

Bildahl, Richard L.; and Chandrasekaran, R., to Amerock Corporation. Drawer with snap-on front panel. 3,752,553, 8-14-73, Cl. 312-330.000.

Bildfell, Johann T., to Trail-Air Scoop Limited. Aerodynamic deflector. 3,731,969, 5-8-73, Cl. 296-1.00s.

Bilek, Zdenek: *See—*
Brown, Milton T.; and Bilek, Zdenek, 3,736,035.

Biletsky, Semen Mikhailovich: *See—*
Raevsky, Georgy Vladimirovich; Biletsky, Semen Mikhailovich; and Burmenko, Eduard Jurievich, 3,711,075.

Bilgutay, Ilhan M. Optical character reading system and bar code font therefor. 3,744,025, 7-3-73, Cl. 340-146.30z.

Bilhorn, John M.: *See—*
Bergum, Bernard C.; Bilhorn, John M.; Kenyon, Kenneth H.; Macaulay, William R.; and Youngquist, John A., 3,770,505.
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Bilhorn, John M.; Bergum, Bernard C.; and Anderson, Kent V., to ESB Incorporated. Flat cell battery with both terminals on one face. 3,734,780, 5-22-73, Cl. 136-111.000.

Bilhorn, John M., to ESB Incorporated. Duplex electrode construction using continuous metal carrier strip coated on both sides with conductive adhesive. 3,740,270, 6-19-73, Cl. 136-111.000.

Bilhorn, John M., to ESB Incorporated. Battery having wrapper comprising laminates of metal and electrically conductive plastic. 3,741,814, 6-26-73, Cl. 136-111.000.

Bilicki, Stanley A.; and Blondo, Rans J. Flashing. 3,708,185, 1-2-73, Cl. 285-42.000.

Bill, Jacky, to Haefely, Emil, & Cie AG. Process and means for replacement of components and/or operating media in encapsulated installations. 3,757,404, 9-11-73, Cl. 29-200.00d.

Billarani, Patrick; Goubeau, Robert; and Langlois, Jacques, to Velcro France. Partitions covered with a facing a fabric. 3,780,479, 12-25-73, Cl. 52-222.000.

Billard, Jacques: *See—*
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Billault, Pierre: *See—*
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Wehr, Robert L.; Rearick, Edward W., Jr.; and Mc Bride, Lemuel R., 3,770,266.

Bille, Holger Steen, to Softal Elektronik GmbH. Method of improving the surface activity of electrically conductive carrier strips. 3,708,733, 1-2-73, Cl. 317-262.00a.

Biller, Efim; Goller, Roman; Pflugk, Hellmuth; and Schlegel, Richard, to Union Rheinische Braunkohlen Kraftstoff Aktiengesellschaft. Process for the production of alkyl dihydroxy benzenes. 3,778,481, 12-11-73, Cl. 260-629.000.

Billerbeck, Fred W.; Everett, Lawrence H.; and Ritsema, Craig T., to Gerber Products Company. Sweetened storage stable peanut butter spread. 3,749,587, 7-31-73, Cl. 99-128.000.

Billester, Henry R., to Sloan Valve Company. Operating arrangement for flush valves. 3,778,023, 12-11-73, Cl. 251-30.000.

Billet, James; and Gough, Stanley T. D., to Mobil Oil Corporation. Method of combatting fungi using dimethyl 1,2,5-thiadiazol-3-yl phosphate. 3,752,887, 8-14-73, Cl. 424-200.000.

Billet, James; and Gough, Stanely T. D., to Mobil Oil Corporation. Dimethyl 1;2,5-thiadiazol-3-yl phosphate. 3,770,756, 11-6-73, Cl. 260-302.00e.

Billeter, Henry R., to Sloan Valve Company. Angle cocks with vent valves. 3,714,968, 2-6-73, Cl. 137-596.200.

Billeter, Henry R., to Sloan Valve Company. Combination cut-out cock and dirt collectors. 3,748,837, 7-31-73, Cl. 55-418.000.

Billett, Eric Harold; and Miller, David, to Beecham Group Limited. Substituted alkenoic acids and esters and salts thereof. 3,736,347, 5-29-73, Cl. 260-469.000.

Billett, Ronald J.: *See—*
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Billi, G., & C. S.p.A.: *See—*
Billi, Giorgio, 3,721,111.
Billi, Giorgio, 3,735,608.
Conti, Gianni, 3,726,110.
Conti, Paolo, 3,777,513.
Gasparri, Mario, 3,733,858.
Negri, Ettore, 3,726,111.

Billi, Giorgio, to Billi, G., & C. S.p.A. Closed toe hosiery. 3,721,111. 3-20-73, Cl. 66-187.000.

Billi, Giorgio, to Billi, G., & C., S.p.A. Yarn tensioning device for circular knitting machines and the like. 3,735,608, 5-29-73, Cl. 66-125.00r.

Billi S.p.A.: *See—*
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Pieracci, Angiolo; and Giachetti, Alfredo, 3,769,814.

Billin, Arthur Gilbert, to Sybron Corporation. Disposable electrode switch. 3,752,160, 8-14-73, Cl. 128-303.170.

Billin, Arthur Gilbert, to Sybron Corporation. Safety devices for electrical apparatus of medical and other types. 3,761,769, 9-25-73, Cl. 317-18.00d.

Billingham, John: *See—*
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Billings, Robert C.: *See—*
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Billings, Roy O. Hydraulic actuators for orienting implements on cranes. 3,751,099, 8-7-73, Cl. 294-88.000.

Billings, Roy O. Hose minder. 3,776,403, 12-4-73, Cl. 214-137.000.

Billings, Ruth E.: *See—*
Sullivan, Hugh R.; and Billings, Ruth E., 3,715,359.

Billings, William G., to Phillips Petroleum Company. Pyridine-organocopper product and preparation. 3,712,894, 1-23-73, Cl. 260-270.000.

Billings, William G.; and Nelson, William T. Nickel-calcium aluminate-barium salt catalyst. 3,748,280, 7-24-73, Cl. 252-430.000.

Billings, William W.; and Calfee, Wendell, to Westinghouse Electric Corporation. Over and under excitation protection circuit for alternating current power systems including improved demodulator circuit. 3,748,493, 7-24-73, Cl. 307-232.000.

Billingsley, Frederic C.: *See—*
United States of America, National Aeronautics and Space Administration, 3,770,903.

Billingsley, James E. Vehicle snowplow with three-point quick connect hitch. 3,760,516, 9-25-73, Cl. 37-42.00r.

Billingsley, Raymond L.; Howard, Ralph L.; and Noreen, Donald H., to Westinghouse Electric Corporation. Method of and apparatus for material storage and retrieval in a warehouse system. 3,719,287, 3-6-73, Cl. 214-16.40a.

Billingsly, Lloyd E.: *See—*
White, William E., Jr.; and Billingsly, Lloyd E., 3,780,421.

Billington, Evans R., to Golconda Corporation. Regulator atmospheric pressure protector. 3,768,503, 10-30-73, Cl. 137-377.000.

Billis, John: *See—*
Pfleger, Frederick W.; and Billis, John, 3,754,231.

Billman, Kenneth W., to United States of America, National Aeronautics and Space Administration. Infrared tunable laser. 3,753,148, 8-14-73, Cl. 331-94.500.

Billman, Kenneth W.; and Leonard, Eugene T., to United States of America, National Aeronautics and Space Administration. Alignment apparatus using a laser having a gravitationally sensitive cavity reflector. 3,764,220, 10-9-73, Cl. 356-153.000.

Billman, Roger O. Valve apparatus. 3,744,512, 7-10-73, Cl. 137-238.000.

Billmann, Gerhard Leonhard Emil: *See—*
Stieler, Alfred Otto Hugo; and Billmann, Gerhard Leonhard Emil, 3,777,926.

Billock, Paul J.: *See—*
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Billottet, Henri: *See—*
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Bills, Alan M.: *See—*
Falkehag, Sten I.; Bills, Alan M.; and Hintz, Harold L., 3,762,990.

Bills, Alan M., to Westvaco Corporation. Alkanolamides of dicarboxylic acid. 3,763,053, 10-2-73, Cl. 252-357.000.

Bills, Howard. Motorized cultivator. 3,756,324, 9-4-73, Cl. 172-40.000.

Bills, Max E.; and Hansen, Henry J., Jr., to United States Steel Corporation. Cold rolled sheet. 3,754,873, 8-28-73, Cl. 29-183.500.

Billson, John A., to General Electric Company. Reflector alignment apparatus. 3,737,960, 6-12-73, Cl. 29-25.150.

Bilobran, John, to General Motors Corporation. Rotary machine apex seal. 3,752,607, 8-14-73, Cl. 418-124.000.

Bilow, Norman; and Rosenberg, Harold, to United States of America, Air Force. Process for curing polyferrocenylenes. 3,725,175, 4-3-73, Cl. 156-327.000.

Bilow, Norman; and Landis, Abraham L., to Hughes Aircraft Company. Method of preparing polyarylene polymers with alkyl amino aromatics, compositions thereof and products. 3,729,433, 4-24-73, Cl. 260-2.00h.

Bilow, Norman; and Jones, John R., to Hughes Aircraft Company. Solid lubricants and methods. 3,730,893, 5-1-73, Cl. 252-12.400.





Bilow, Norman; and Rosenberg, Harold. Cured polyferrocenylenes and process for curing. 3,748,206, 7-24-73, Cl. 156-327.000.

Bilow, Norman, to Hughes Aircraft Company. Method of preparing resin compositions. 3,758,630, 9-11-73, Cl. 260-823.000.

Bilow, Norman, to O'Brien Corporation, The. Thermosetting plastics and method therefor. 3,769,249, 10-30-73, Cl. 260-28.000.

Bilow, Norman, to United States of America, Air Force. Process for preparing a polyphenylene lacquer and laminates fabricated therewith. 3,778,405, 12-11-73, Cl. 260-33.80r.

Bilstein, August, Firma: *See—*
Willich, Jean Herbert; and De Baan, Johannes J., 3,774,895.

Bilton, John, to Fluidrive Engineering Company, Limited. Scoop-trimmed fluid couplings. 3,733,821, 5-22-73, Cl. 60-351.000.

Bilton, John, to Fluidrive Engineering Company, Limited. Hydrodynamic power drives. 3,747,348, 7-24-73, Cl. 60-351.000.

Bilz, Otto; and Fauth, Otto, to Bilz, Otto, Firma. Drilling chuck. 3,723,017, 3-27-73, Cl. 408-16.000.

Bilz, Otto, Firma: *See—*
Bilz, Otto; and Fauth, Otto, 3,723,017.

Bima Maschinenfabrik GmbH, Firma: *See—*
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Bimbo Inc.: *See—*
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Bimer, Russel M.; and Schuldt, Paul H., to Diamond Shamrock Corporation. Polychloro derivatives of dicarboxy pyridines. 3,766,195, 10-16-73, Cl. 260-295.00r.

Bimler, Rudolf. Orthopedic leg support. 3,717,144, 2-20-73, Cl. 128-80.00a.

Binage, Derek Sidney: *See—*
Melrose, David Robert; and Binage, Derek Sidney, 3,727,865.

Binard, Pierre; and Trine, Joseph, to Elphiac. Induction heating apparatus. 3,743,810, 7-3-73, Cl. 219-10.670.

Binard, William J.: *See—*
Dye, John F.; and Binard, William J., 3,726,283.
Dye, John F.; and Binard, William J., 3,742,960.

Binard, William J.; and Dye, John F., to Kendall Company, The. Vent for liquid drainage system. 3,730,209, 5-1-73, Cl. 137-217.000.

Binard, William J.; and Dye, John F., to Kendall Company, The. Fenestrated drape. 3,741,206, 6-26-73, Cl. 128-132.00d.

Binard, William J.; and Dye, John F., to Kendall Company, The. Endometrial sampler. 3,777,743, 12-11-73, Cl. 128-2.00b.

Binary Systems, Inc.: *See—*
Reilly, John J., Jr., 3,731,062.
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Binasik, Chester S.; Hudson, Daniel H.; and Voorheis, Temple S., to Coen Company, Inc. Combustion chamber burner throat construction. 3,765,345, 10-16-73, Cl. 110-1.00a.

Binczewski, George J.: *See—*
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Binda, Frederick J.: *See—*
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Bindel, Paul H. Undulating rectal flushing apparatus. 3,762,410, 10-2-73, Cl. 128-229.000.

Binder, Georg: *See—*
Hagenlocher, Walter; and Binder, Georg, 3,731,126.

Binder, Horst: *See—*
Benda, Klaus V.; Binder, Horst; and Paul, Wolfgang, 3,737,344.

Binder, Horst; Kuhn, Wolfgang H.; Lindner, Werner; and Sandstede, Gerd, to Batelle-Institute E.V. Hydrogen electrodes for fuel cells. 3,708,342, 1-2-73, Cl. 136-121.000.

Binder, Horst; Kuhn, Wolfgang H.; and Sandstede, Gerd, to Battelle Institut. Electrodes with mixed catalysts of metal carbide for hydrogen fuel cells. 3,756,860, 9-4-73, Cl. 136-120.0fc.

Binder, Rolf; Grundler, Christof; and Wildbolz, Rudolf, to Rieter Machine Works, Ltd. Method and apparatus for producing an even continuous layer of fibers. 3,709,406, 1-9-73, Cl. 222-55.000.

Binder, Rolf; and Wildbolz, Rudolf, to Rieter Machine Works, Ltd. Apparatus for feeding fiber material into a chute. 3,712,682, 1-23-73, Cl. 302-28.000.

Binder, Rudolf: *See—*
Andres, Rudolf; Kolle, Erwin; and Binder, Rudolf, 3,746,393.

Bindernagel, Ali, to Kocks, Friedrich. Rolling mills. 3,726,119, 4-10-73, Cl. 72-234.000.

Bindernagel, Ali; and Demny, Werner, to Kocks, Friedrich. Rolling mills. 3,754,425, 8-28-73, Cl. 72-234.000.

Bindernagel, Ali, to Kocks, Friedrich. Methods of rolling. 3,756,060, 9-4-73, Cl. 72-205.000.

Binding, Kenneth W., to Beatrice Foods Co. Car top rack. 3,722,765, 3-27-73, Cl. 224-42.10e.

Binding, Kenneth W.; and Cunningham, Stanley H., to Beatrice Foods Co. Ski clamping device. 3,726,410, 4-10-73, Cl. 211-60.0sk.

Bindon, Glyn A., to Ace Controls, Inc. Adjustable shock absorber. 3,731,770, 5-8-73, Cl. 188-285.000.

Binek, Heinz, to Consolidated Burris International, Ltd., mesne. Seating furniture and method of manufacturing such furniture. 3,709,560, 1-9-73, Cl. 297-445.000.

Bing, Herbert A.; Brayton, Christopher; and Rubinstein, Leon, to Polaroid Corporation. Low-cost roller-type photographic fluid spreading apparatus. 3,745,904, 7-17-73, Cl. 95-89.000.

Bingeman, Wilbur H.; Grimone, Frank H.; and Kerstetter, Donald R., to GTE Sylvania Incorporated. Electron discharge device having increased heater-cathode breakdown voltage. 3,767,958, 10-23-73, Cl. 313-238.000.

Bingemann, Wilhelm: *See—*
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Binger, Wayne W.; Zelly, Walter O.; Hoch, Fred R.; and Dickerson, Paul B., to Aluminum Company of America. Resistance welding of aluminum. 3,751,626, 8-7-73, Cl. 219-119.000.

Binger, Wayne W.; and Sager, Richard K., to Aluminum Company of America. Aluminum welding. 3,771,214, 11-13-73, Cl. 29-488.000.

Bingham, Samuel, Company: *See—*
Brown, James K., 3,750,250.
Brown, James K., 3,771,206.

Bingham, Seymour P., to Stone & Webster Engineering Corporation. Segregation process using metallic iron as reductant. 3,761,245, 9-25-73, Cl. 75-82.000.

Bingham, Sidney H. Combined running and guard rail. 3,756,508, 9-4-73, Cl. 238-17.000.

Bingham, Wallace Karl, to Minnesota Mining and Manufacturing Company. Reflex-reflective structures including fabric and transfer foils. 3,758,192, 9-11-73, Cl. 350-105.000.

Bingley, Donald W., to Raytheon Company. Regulated cycloconverter. 3,743,919, 7-3-73, Cl. 321-69.00r.

Bingley, Donald W., to Raytheon Company. Vector addition sine wave power control using single inverter and return of energy to inverter source. 3,764,887, 10-9-73, Cl. 321-45.00r.

Bini, Franco, to Billi S.p.A. Pattern mechanism for knitting machines. 3,774,417, 11-27-73, Cl. 66-155.000.

Bini, Rodney James, to Norman, George, & Co., Pty., Ltd. Sheet material attaching means. 3,749,441, 7-31-73, Cl. 297-223.000.

Biniecki, Stanislaw; Kubikowski, Piotr; Kostowski, Wojciech; and Nantka-Namirski, Pawel. Furan carboxylic acid pyridylamides. 3,758,485, 9-11-73, Cl. 260-295.0am.

Biniores, Frank D. Watercloset safety control. 3,727,243, 4-17-73, Cl. 4-41.000.

Bink, Werner R.; and Dempster, George, to Sherritt Gordon Mines Limited. Diverting and sampling gate. 3,735,641, 5-29-73, Cl. 73-423.00r.

Binkert, Charles E., to Kolodziej, A.A. Food patty turning device. 3,761,120, 9-25-73, Cl. 294-8.000.

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Binkley, Carl R., to Sperry Rand Corporation. Power transmission. 3,771,555, 11-13-73, Cl. 137-491.000.

Binkley, Jonathan A. Wind weight. 3,747,887, 7-24-73, Cl. 248-361.00r.

Binkley, Norman C.; and Hammond, Joseph P., to United States of America, Atomic Energy Commission. Bonding tungsten with a fugitive alloy binder. 3,707,763, 1-2-73, Cl. 29-498.000.

Binkley, Ralph N., to Western Electric Company, Incorporated. Multi-directional indexing apparatus. 3,757,963, 9-11-73, Cl. 214-1.0bh.

Binkowski, Leo J., to Minnesota Mining and Manufacturing Company. Neutralizing device. 3,757,164, 9-4-73, Cl. 317-2.00r.

Binks, Chester; and Herbert, Ronald M., to Restaurant Technology, Inc. Bun steam injector. 3,735,749, 5-29-73, Cl. 126-20.000.

Binks, Chester J.; Helfer, Donald F.; Herbert, Ronald M.; and Kroll, Steve, to Restaurant Technology, Inc. Food holding cabinet. 3,752,549, 8-14-73, Cl. 312-236.000.

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Binnig, Horst; Freyen, Jurgen; and Middleman, Dirk-Friedrich. Digital multiplex control servo. 3,781,627, 12-25-73, Cl. 318-562.000.

Binnings, Gerald F.; Meyer, Theodore N.; and Riley, Mel J., to Aerojet-General Corporation. Microscope attachment. 3,738,730, 6-12-73, Cl. 350-90.000.

Binns, John W.: *See—*
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Binns, Julian R. H.; and Grange, Kenneth H. Coat hook assembly. 3,733,043, 5-15-73, Cl. 248-225.000.

Binoche, Michel G., to S.K.M. Paint spray-gun head. 3,773,263, 11-20-73, Cl. 239-296.000.

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Binzer, Thomas J., to General Electric Company. Lighted control console with information center. 3,764,793, 10-9-73, Cl. 240-2.0pa.

Bio-Consultants, Inc.: *See—*
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Bio-Controls Corporation: *See—*
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Bio-Dynamics, Inc.: *See—*
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Bio-Lab, Inc.: *See—*
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Bio-Logics, Inc.: *See—*
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Bio-Logics, Products, Inc.: *See—*
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Bio-Logics Products, Inc., mesne: *See—*
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Bio-Medical Sciences, Inc.: *See—*
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Bio-Pure, Inc.: *See—*
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Bio-Response, Inc.: *See—*
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Biochemie Gesellschaft m.b.H.: *See—*
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Biomarine Industries, Inc.: *See—*
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Parker, Frederick A., 3,722,510.
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Biome Company Inc., The: *See—*
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Biondi, Emanuele; and Biondi, Leonardo. Method and apparatus for making the human voice audible and comprehensible to severely deaf persons. 3,781,491, 12-25-73, Cl. 179-107.00r.

Biondi, Frank J., to United States of America, Atomic Energy Commission, mesne. Apparatus for testing ductility of sheets. 3,736,794, 6-5-73, Cl. 73-102.000.

Biondi, Leonardo: *See—*
Biondi, Emanuele; and Biondi, Leonardo, 3,781,491.

Biondi, Phyllis R.; and Kelso, Jery M. Beach locker. 3,710,736, 1-16-73, Cl. 109-50.000.

Biondo, Nunzio, to Italsider S.p.A. Self-locking for loop chains. 3,777,477, 12-11-73, Cl. 59-93.000.

Biora, Julio L.; and Winkle, Charles V., to Richardson Chemical Company, The. Method of simultaneously electroplating and machining a metal surface. 3,769,181, 10-30-73, Cl. 204-35.00r.

Biorex Laboratories Limited: *See—*
Gottfried, Siegfried, 3,708,575.
Turner, John Cameron, 3,734,944.
Turner, John Cameron; and Sleep, Michael Christopher (said Turner assor. to), 3,742,021.

Biospectrum, Incorporated: *See—*
Eddleman, Roy T.; and Schmitz, Richard L., 3,766,360.

Biospherics Incorporated: *See—*
Levin, Gilbert V.; and Topol, George J., 3,730,882.
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Bioteknika International, Inc.: *See—*
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Biotecknike International Inc.: *See—*
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$BiO_2$ Systems, Inc.: *See—*
Smart, David Ol, IV; Pennington, Grover B.; Plettner, Richard M.; and Maughan, Robert F., 3,709,363.

Biquard, Pierre: *See—*
Lewiner, Jacques; and Biquard, Pierre, 3,742,152.

Bir, Wallace G.; and Tsang, Louis C., to Monsanto Company. Removing oligomers from styrene vapor. 3,719,720, 3-6-73, Cl. 260-669.00a.

Birch Brothers Inc.: *See—*
Straujups, John E.; and Bellwood, Frederick J., 3,778,963.

Birch, Fernando Francis: *See—*
Poenisch, Richard Bruce; and Birch, Fernando Francis, 3,778,382.

Birch, Richard J.: *See—*
Willis, Frederick Gordon, Jr., 3,733,616.
Willis, Frederick Gordon, Jr., 3,768,931.

Birchall, James Derek; and Cassidy, John Edward, to Imperial Chemical Industries Limited. Pre-treatment of metal substrates with complex halogen-containing phosphates of aluminum. 3,772,060, 11-13-73, Cl. 117-69.000.

Birchall, James Derek; Cassidy, John Edward; and Smith, Frank, to Imperial Chemical Industries Limited. Fluorocarbon polymer composition containing an adhesion promoter. 3,781,239, 12-25-73, Cl. 260-30.60r.

Birchall, Thomas D.; and Powell, Johnnie L., to Mandrel Industries, Inc. Processing apparatus for objects. 3,710,753, 1-16-73, Cl. 118-2.000.

Bircher, Brian John, to Imperial Chemical Industries Limited. Process of preparing polyurethanes from aliphatic polyisocyanate and polyhydroxy compound in the presence of catalyst containing 4-N:N-dimethy laminopyridine and dialkyl tins dialkanoate. 3,775,76, 11-27-73, Cl. 260-77.5ac.

Bircher, Johannes; Weidenhagen, Rudolf; Mainz, Uber; Reinicke, Hans; Leonhauser, Senta; and Bauer, Ingeborg, 1/2 to Sud-deutsche, Zucher, mesne and 1/2 to Laevosan Gesellschaft mgH & Co., KG. Treatment of hepatopathias with saccharides. 3,772,433, 11-13-73,Cl. 424-180.000.

Birchfield, Jerry Linward; and Moss, Richard Wallace, to Rollins Protective Services Company. Diversity RF alarm system. 3,757,315, 9-4-73, Cl. 340-224.000.

Birchler, Robert O.; and Williams, E. R., to Texas Instruments, Incorporated. Process for encapsulating electronic components in plastic. 3,716,764, 2-13-73, Cl. 317-234.000.

Birchmeier, Hans P.: *See—*
Sharp, Richard S.; and Birchmeier, Hans P., 3,768,074.

Birchnall, Eric James: *See—*
Sedgfield, Hugh B.; Brown, Norman Kenneth; and Birchnall, Eric James, 3,708,029.

Birckhead, Lennox, 1/2 to Air Products and Chemicals, Inc. and 1/2 to Scott Paper Company, mesne. Powder deposition system. 3,777,874, 12-11-73, Cl. 198-56.000.

Birckhead, Lennox, Jr.; Evans, Charles P.; and Olsen, Alden W., to Vitek Research Corporation. Conveyor belt construction. 3,745,846, 7-17-73, Cl. 74-23.00r.

Bird & Son, Inc.: *See—*
Jackson, James W., 3,737,498.

Bird, Arnett L.: *See—*
Amos, James L.; Bird, Arnett L.; and Snyder, Robert P., 3,732,345.

Bird, Arnett L.; Lehrer, Ronald G.; and Mullen, John E., to Dow Chemical Company, The. Process of providing uniform gloss, lacquer coated alkenyl aromatic resin article. 3,773,552, 11-20-73, Cl. 117-138.8ua.

Bird, Forrest M.; and Pohndorf, Henry L. Non-rebreathing valve assembly and compression bulb resuscitator using same. 3,726,274, 4-10-73, Cl. 128-145.800.

Bird, Forrest M.; and Pohndorf, Henry Louis. Apparatus for mixing gases. 3,727,627, 4-17-73, Cl. 137-100.000.

Bird, Forrest M.; and Pohndorf, Henry L. Fail-safe breathing circuit and valve assembly for use therewith. 3,739,776, 6-19-73, Cl. 128-145.800.

Bird, Forrest M.; and Pohndorf, Henry L. Automatic respirator. 3,753,436, 8-21-73, Cl. 128-145.800.

Bird, George L., Jr.; and Woo, Way Dong, to Kybe Corporation. Redundant offset recording. 3,761,903, 9-25-73, Cl. 340-174.10g.

Bird, George R.; and Rosenoff, Alan E., to Polaroid Corporation. Photoresponsive articles comprising multilayer spectral sensitization systems. 3,730,714, 5-1-73, Cl. 96-1.700.

Bird Island, Inc.: *See—*
Maker, Paul, 3,717,913.
Moncrieff, Alexander D. F., 3,710,685.





Bird, Jack L. Power operated cigarette lighter. 3,708,180, 1-2-73, Cl. 280-150.00r.

Bird, James E.; and Carter, Paul R., to United States Steel Corporation. Can stock with differential protective coatings. 3,749,651, 7-31-73, Cl. 204-56.00r.

Bird Machine Company, Inc.: *See—*
Baker, Donald Brooks, 3,739,605.
Baker, Donald Brooks, 3,753,529.
Bolton, Joseph A., III; and Le Blanc, Peter Edmund, 3,726,401.
Nelson, George L., 3,713,541.
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Bird, Martin George, to Eastman Kodak Company. Apparatus for coating a continuous web. 3,735,729, 5-29-73, Cl. 118-50.000.

Bird Provision Co.: *See—*
Vogel, Virgil W.; and Vogel, Paul W., 3,711,298.

Bird, Richard A.: *See—*
Baker, James N.; Bird, Richard A.; and Bush, Glenn W., 3,775,151.

Bird, Robert J., to American Optical Corporation. Laser beam attitude control device. 3,748,041, 7-24-73, Cl. 356-149.000.

Bird, Stanford W., to Plastronics Corporation. Pie container. 3,737,068, 6-5-73, Cl. 220-60.000.

Bird, Walter W., to Birdair Structures, Inc. Square ended air inflated structures. 3,728,831, 4-24-73, Cl. 52-2.000.

Bird, Walter W., to Birdair Structures, Inc. Large air supported structures. 3,744,191, 7-10-73, Cl. 52-2.000.

Bird, William A.; and La Grone, Bobby D., to U.S. Rubber Reclaiming Co., Inc. Drying wet elastomeric material. 3,768,171, 10-30-73, Cl. 34-12.000.

Birdair Structures, Inc.: *See—*
Bird, Walter W., 3,728,831.
Bird, Walter W., 3,744,191.

Birdwell, Venson E., Sr. Expansible reservoir unit for liquid cooled engines. 3,765,383, 10-16-73, Cl. 123-41.500.

Biren, Steven; and Costello, Thomas V., to United States of America, Navy. Sonic aircraft/vehicle discriminator. 3,714,620, 1-30-73, Cl. 340-15.000.

Birenzvige, Amnon: *See—*
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Birge, William T.: *See—*
Podlewski, Robert S.; and Birge, William T., 3,778,118.

Birglechner, Georg, to Telefunken Patentverwertungsgesellschaft m.b.H. Method of manufacturing semiconductor component. 3,762,899, 10-2-73, Cl. 65-42.000.

Biringer, Paul Peter, to Ajax Magnethermic Corporation. Frequency converter for converting multi-phase low frequency alternating current into single-phase higher frequency alternating current. 3,715,647, 2-6-73, Cl. 321-7.000.

Birjukova, Tatyana Semenovna: *See—*
Alexandrov, Albert Ivanovich; Levin, Solomon Isaakovich; Chestnov, Valery Fedorovich; Kovaleva, Raisa Markovna; Birjukova, Tatyana Semenovna; Burko, Albert Ivanovich; and Naumov, Mikhail Grigorievich, 3,728,005.

Birk, Billy D., to Balderson, Inc. Quick hitch assembly. 3,760,883, 9-25-73, Cl. 172-273.000.

Birk, Donald G.: *See—*
Rodriguez, Leopoldo; and Birk, Donald G., 3,722,146.

Birk, James R.: *See—*
Heredy, Laszlo; and Birk, James R., 3,745,109.

Birk, James R.; and Huber, Donald A., to North American Rockwell Corporation. Pyrolysis method. 3,708,270, 1-2-73, Cl. 48-202.000.

Birk, James R., to North American Rockwell Corporation. Method for producing heat. 3,710,737, 1-16-73, Cl. 110-1.500.

Birke, August H., to Shell Oil Company. Dibenzimidazole-siurea grease thickening agents. 3,752,765, 8-14-73, Cl. 252-51.50a.

Birke, Gerhard, to Haas, W. Ernst, & Sohn, Firma. Scrubber for removing particulate matter from gaseous fluid. 3,778,982, 12-18-73, Cl. 55-290.000.

Birke, Walter: *See—*
Von Der Eltz, Hans-Ulrich; Gross, Richard; and Birke, Walter, 3,721,524.
Von der Eltz, Hans-Ulrich; Birke, Walter; Kunze, Wolfgang; and Schon, Franz, 3,768,968.

Birkeland, Stephen P., to Minnesota Mining and Manufacturing Company. Photothermic silver halide element containing mercuris soap and a color-forming coupler. 3,764,328, 10-9-73, Cl. 96-67.000.

Birkendahl, Karl oHG: *See—*
Ahrendt, Heinrich; and Birkendahl, Karl oHG, 3,778,220.

Birkenhagen, Manfred, to Sauer, J. P., & Sohn, GmbH. Small firearms with exchangeable barrel. 3,731,418, 5-8-73, Cl. 42-75.00b.

Birkenmaier, Max; Brandestini, Antonio; and Ros, Mirko Robin; deceased (by Ros, Erika Emma, nee Marti; Siager, Franziska Jelena, nee Ross; and Ros, Cornelia Erica; heirs). Method of prestressing concrete pressure tanks. 3,725,999, 4-10-73, Cl. 29-505.000.

Birkenmaier, Wilhelm: *See—*
Simon, Horst; and Birkenmaier, Wilhelm, 3,709,135.

Birkenmeyer, Robert D.; and Kagan, Fred, to Upjohn Company, The. $\Delta^{4'}$-α-Analogs of lincomycin. 3,726,858, 4-10-73, Cl. 260-210.00r.

Birkenstock, Karl. Article of footwear. 3,722,113, 3-27-73, Cl. 36-11.500.

Birkett, Samuel, Limited: *See—*
Thornton, Brian, 3,724,753.

Birkholtz, Gottfried, to Schenck, Carl, Maschinenfabrik GmbH, Firma. Device for compensating elastic after-effects or creeping. 3,735,320, 5-22-73, Cl. 338-2.000.

Birkholz, William Stephen: *See—*
Phalin, Thomas Lawrence; and Birkholz, William Stephen, 3,714,755.

Birkigt, Louis, to Brevets Aero-Mecaniques S.A. Shell cartridges. 3,724,377, 4-3-73, Cl. 102-38.000.

Birkin, Michael S., to British Railways Board. Error detection in communication system by repetition of data. 3,781,792, 12-25-73, Cl. 340-146.1ba.

Birkin, Michael Sambrook, to British Railways Board. Communication systems for receiving and checking repeatedly transmitted multi-digital telegrams. 3,737,577, 6-5-73, Cl. 178-23.00a.

Birkner, William B., to Morgan Adhesives Company. Method and apparatus to form shrink wrapped coil package. 3,726,396, 4-10-73, Cl. 206-52.00r.

Birko, Arnold: *See—*
Dennis, Herman W.; and Birko, Arnold, 3,713,944.

Birks, Albert S., to Automation Industries, Inc. Ultrasonic non-destructive material tester. 3,760,634, 9-25-73, Cl. 73-67.80r.

Birmingham, Peter D.: *See—*
Dernovashek, Joseph F.; Birmingham, Peter D.; and Fuchs, Charles E., 3,753,476.

Birmingham Small Arms Company Limited, The: *See—*
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Birnbaum, Burton H.; and Spier, Daniel J., to Computer Instruments Corporation. Method and apparatus for handling data from a plurality of channels. 3,715,510, 2-6-73, Cl. 179-15.0bm.

Birnbaum, Jerome: *See—*
Inamine, Edward; and Birnbaum, Jerome, 3,770,590.

Birnbaum, Jerome; and Inamine, Edward, to Merck & Co., Inc. Fermentation process. 3,769,169, 10-30-73, Cl. 195-80.000.

Birner, Richard A.; Kohler, Robert D.; and Lang, Stewart M., to Owens-Illinois, Inc. Inspecting articles. 3,716,136, 2-13-73, Cl. 209-82.000.

Biro, F., Joseph. Ice guard for drinking glasses. 3,752,320, 8-14-73, Cl. 210-469.000.

Biro Manufacturing Company, The: *See—*
Wenger, Carl D., 3,752,298.

Biro, Steven L., to Ford Motor Company. Compound motion transmitting linkage. 3,712,150, 1-23-73, Cl. 74-473.00r.

Birsch, Arthur E.: *See—*
Ommaya, Ayub; and Birsch, Arthur E., 3,765,412.

Birtchet, Ralph D.; and Carlson, James O., to Schneider-Simpson, Inc. Screed extension assembly for asphalt paving machine. 3,712,189, 1-23-73, Cl. 94-45.00r.

Birth, Ronald R., to Eastman Kodak Company. Apparatus for rapid processing photographic film. 3,744,394, 7-10-73, Cl. 95-89.00r.

Birum, Herbert Lamont, Jr. Partition device. 3,768,222, 10-30-73, Cl. 52-239.000.

Bis, Tadeck Valentin. Device for centering disc records on the turntable of a record player. 3,741,567, 6-26-73, Cl. 274-10.00s.

Bisberg, Aaron M. Folder for overhead projector. 3,709,590, 1-9-73, Cl. 353-120.000.

Biscar, Jean P., to University of California, the Regents of the. Three electrode flow meter. 3,717,031, 2-20-73, Cl. 73-194.0em.

Biscardi, Charles T., to Merit Metal Products Corporation. Deterrent spring clip. 3,776,583, 12-4-73, Cl. 292-307.00r.

Bischof, Kaspar; Hoskins, Robert D.; and Shepherd, John M., to Midcal Aluminum, Inc. Sealing compound applying machine and method. 3,717,184, 2-20-73, Cl. 141-1.000.

Bischof und Klein: *See—*
Konerman, Fritz, 3,764,251.

Bischofberger, Walter; and Mauthe, Gerhard, to Aktiengesellschaft Brown, Boveri & Cie. Electrical compression switch. 3,745,283, 7-10-73, Cl. 200-148.00r.

Bischoff Chemical Corporation: *See—*
Greenberg, Walter H., 3,744,775.
Nussbaum, Frank J., 3,723,584.
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Bischoff, Gottfried, Bau Kompl. Gasreinigungs und Wasserruckkuhlanlagen Kommanditgesellschaft: *See—*
Hausberg, Gerhard; and Hegemann, Karl-Rudolf, 3,726,065.

Bischoff, Q., Baukompletter Gasreinigungs- und Wasserruckkuhlanlagen KG: *See—*
Hausberg, Gerhard; Kruger, Georg; and Benigraf, Karl-Martin, 3,773,472.

Bischoff, Vincent E.; and Keur, Robert I., to Dick, A. B., Company. Ink analyzer and compensator. 3,771,568, 11-13-73, Cl. 137-805.000.

Bisciglia, Natale R., to North American Rockwell Corporation. Control fold liquid expulsion bladder. 3,722,751, 3-27-73, Cl. 222-94.000.

Bise, Donald L.; and Surprenant, Ronald J., to Lear Siegler, Inc. Voice frequency repeater. 3,778,563, 12-11-73, Cl. 179-170.00r.

Bishel, Robert Anthony, to International Nickel Company, Inc., The. Self-shielding cored wire to weld cast iron. 3,778,588, 12-11-73, Cl. 219-146.000.

Bishop, Arlo G., to Clark Equipment Company. Dual hose reel. 3,709,252, 1-9-73, Cl. 137-355.170.

Bishop, Arthur E.: *See—*
Bishop, Arthur E.; and Henrich, Richard E., 3,730,018.

Bishop, Arthur E.; and Henrich, Richard E., to Bishop, Arthur E. Torque-balanced steering system. 3,730,018, 5-1-73, Cl. 74-498.000.

Bishop, Arthur E. Rack and pinion variable ratio steering gear. 3,753,378, 8-21-73, Cl. 74-422.000.

Bishop, Arthur L. Apparatus for making valve sleeves. 3,765,305, 10-16-73, Cl. 90-24.00r.

Bishop Buffets, Inc.: *See—*
Kegler, Cyril L., 3,720,302.

Bishop, Charles D.: *See—*
Mondshine, William G.; and Bishop, Charles D., 3,726,271.

Bishop, Clyde E., to Continental Oil Company. Conversion of alkyl nitrates to carboxylic acids. 3,770,782, 11-6-73, Cl. 260-413.000.

Bishop, David A., to International Business Machines Corporation. Right hand margin control system. 3,757,921, 9-11-73, Cl. 197-19.000.

Bishop, David A. Seal for sewage disposal systems. 3,768,816, 10-30-73, Cl. 277-65.000.

Bishop, Dolloff F.: *See—*
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Bishop, Dolloff F.; Cassel, Alan F.; and Pressley, Thomas A., to United States of America, Environmental Protection Agency. Waste water purification by breakpoint chlorination and carbon adsorption. 3,733,266, 5-15-73, Cl. 210-26.000.

Bishop, Dolloff F., Jr.: *See—*
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Bishop, Dwight; and Baskin, Ronald W., to Southwire Company. Method and apparatus for stripping cable. 3,724,189, 4-3-73, Cl. 57-2.500.

Bishop Eaves & Sons Limited: *See—*
Eaves, Dennis Robert; and Bergemann, Horst, 3,727,432.

Bishop Freeman Company: *See—*
Davis, Harvey L., 3,733,724.

Bishop, George H., to American Air Filter Company, Inc. Filter assembly with replaceable filter element. 3,774,377, 11-27-73, Cl. 55-493.000.

Bishop, Gilbert H. Method and apparatus for forming ice island for drilling or the like. 3,738,114, 6-12-73, Cl. 61-46.500.

Bishop, Glick U.; and Knox, Robin B., to Martin Marietta Corporation. Dynamic electromagnetic environment simulator. 3,719,812, 3-6-73, Cl. 235-151.310.

Bishop, Harold A.: *See—*
Deane, William Ronald, 3,730,161.

Bishop, Harold F.; and Deck, James R., to Exomet, Incorporated. Flexible exothermic mat and method of use. 3,751,308, 8-7-73, Cl. 148-127.000.

Bishop, Hugh S., to PPG Industries, Inc. Edge-roll machine in float glass apparatus. 3,709,673, 1-9-73, Cl. 65-182.00r.

Bishop, Irving N.: *See—*
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Bishop, Jerald W.: *See—*
Stewart, Edward T.; and Bishop, Jerald W., 3,760,595.

Bishop, Jerald W. Expansion fastening device. 3,739,683, 6-19-73, Cl. 85-70.000.

Bishop, John J., to National Cash Register Company, The. Transfer medium with a pigmented coating. 3,770,478, 11-6-73, Cl. 117-3.400.

Bishop, John Larry, to DLM, Inc. Pit-type dock leveler. 3,763,514, 10-9-73, Cl. 14-71.000.

Bishop, John R. Floating pool cover structure. 3,769,639, 11-6-73, Cl. 4-172.120.

Bishop, John W.: *See—*
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Robinson, Ernest B.; Ehrlich, Shelton; and Bishop, John W., 3,763,830.
Robison, Ernest B.; Ehrlich, Shelton; and Bishop, John W., 3,717,700.

Bishop, Lester A., to Lord Corporation. Antl-vibration support. 3,756,551, 9-4-73, Cl. 248-358.00r.

Bishop, Matthey, Inc.: *See—*
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Bishop, Milton L.: *See—*
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Bishop, Nigel Douglas: *See—*
Chosh, Ranajit; Bishop, Nigel Douglas; and Peacock, Frederick Charles, 3,773,941.

Bishop, Peter, to United Industrial Syndicate, Inc. Static neutralizer. 3,725,736, 4-3-73, Cl. 317-2.00f.

Bishop, Robert C.; Fekete, Lajos F.; and Shanbrom, Edward, to Baxter Laboratories, Inc. Plasminogen assay system. 3,778,352, 12-11-73, Cl. 195-99.000.

Bishop, Robert J.: *See—*
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Bishop, Robert L. Pipe fitting access. 3,756,287, 9-4-73, Cl. 138-92.000.

Bishop, Stephen G.; and Moore, William J., to United States of America, Navy. Two-dimensional imaging array of chalocogenide glass bolometers. 3,767,928, 10-23-73, Cl. 250-338.000.

Bishop, Stephen G.; and Moore, William J., to United States of America, Navy. Chalcogenide glass bolometer. 3,781,748, 12-25-73, Cl. 338-15.000.

Bishop, Thomas Desmond, to Deritend Engineering Company, Limited, The. Apparatus for minimizing waste in treating a web. 3,756,149, 9-4-73, Cl. 101-228.000.

Bishop, Thomas H.: *See—*
Wheaton, Harold L.; and Bishop, Thomas H., 3,723,097.

Bishop, Walter F., to Dormeyer, A. F., Manufacturing Co. Portable electric appliance. 3,747,594, 7-24-73, Cl. 128-49.000.

Bishop, Walton B.: *See—*
Parker, Carlyle V.; and Bishop, Walton B., 3,718,926.

Bishop, Walton B., to United States of America, Navy. Omnidirectional reflected interrogation rejector. 3,715,750, 2-6-73, Cl. 343-6.8lc.

Bishop, Wayne R., to Motorola, Inc. Steam generator and gas insertion device. 3,742,904, 7-3-73, Cl. 118-48.000.

Bishop, William Dennis, to Plessey Handel und Investments A.G. Magnetic reed contact unit producing apparatus. 3,750,276, 8-7-73, Cl. 29-622.000.

Bishop, William T., to Hercules Incorporated. Collector composition for ore flotation. 3,779,380, 12-18-73, Cl. 209-166.000.

Bisinella, Angelo J.; and Nosek, Roy F., to Pettibone Corporation. Apparatus for lining the walls of metallurgical vessels with prepared refractory material. 3,779,679, 12-18-73, Cl. 425-110.000.

Bisinger, John M.; and Verwolf, David H., to Multi-Channel Response Corporation. Response-evoking apparatus. 3,775,864, 12-4-73, Cl. 35-9.00a.

Biskeborn, Merle C.; McCann, Joseph P.; and Sabia, Raffaele A., to Bell Telephone Laboratories, Incorporated. Plastic insulated conductor communications cable water proofed with an internal void-pilling mixture of petroleum jelly and high molecular weight olyethulene or polypropylene. 3,717,716, 2-20-73, Cl. 174-25.00r.

Biskis, Edward G., to Air Products and Chemicals, Inc. Thermoelectric adsorber. 3,734,293, 5-22-73, Cl. 210-185.000.

Biskis, Kestutis: *See—*
Orth, Harold R.; Biskis, Kestutis; and Yeh, Rudolph E., 3,770,007.

Bisko, Joseph P., 30% to Bradley, John Christopher and 30% to McIntire, Edward A. Filter jacket for cooking oil. 3,735,871, 5-29-73, Cl. 210-167.000.

Bison, Gunter; Janssen, Paul; and Schubel, Hans, to Dynamit Nobel Aktiengesellschaft. Method of obtaining the optical antipodes D(-) - and L( )-alpha-azidophenylacetic acid. 3,772,364, 11-13-73, Cl. 260-349.000.

Bisone, Dario: *See—*
Bazzarone, Fedele; and Bisone, Dario, 3,749,395.
Bettini, Giuseppe; and Bisone, Dario, 3,768,752.

Bissell Inc.: *See—*
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Bissell, Robert D.: *See—*
Gorgens, Joseph E.; and Bissell, Robert D., 3,720,234.

Bissell, Robert D., to Dresser Industries, Inc. Gauge casing construction. 3,765,249, 10-16-73, Cl. 73-431.000.

Bisset, Douglas Chisholm; and Pugh, Kenneth Mervyn, to Imperial Chemical Industries Limited. Apparatus for the manufacture of eccentric core/shell conjugate filaments. 3,778,208, 12-11-73, Cl. 425-131.000.

Bissett, James S., to Gulf Oil Corporation. Temperature responsive safety valve stems. 3,730,204, 5-1-73, Cl. 137-68.000.

Bissett, Joseph L. Meat product. 3,717,473, 2-20-73, Cl. 99-107.000.

Bissett-Berman Corporation, The: *See—*
Brown, Neil L., 3,750,476.
Brown, Neil L., 3,753,373.
Jaeger, John E., 3,742,408.
Kennedy, John H., 3,723,589.
Murphy, John Brian, 3,757,229.

Bissing, Donald E.; and Gash, Virgil W., to Monsanto Company. Preparation of monohaloacetyl halides. 3,758,569, 9-11-73, Cl. 260-544.00y.

Bissing, Donald E.; and Gash, Wirgil W., to Monsanto Company. Preparation of monohaloacetyl halides. 3,758,571, 9-11-73, Cl. 260-544.00y.

Bissinger, William E.; Hardiss, Donald E.; and Lavanish, Jerome M., to PPG Industries, Inc. Polychloro parathio phenols. 3,723,538, 3-27-73, Cl. 260-609.00f.





Bisson, Edmund L., to United States of America, Army. Weapon system for a set in-flight digital time fuze with muzzle action. 3,760,732, 9-25-73, Cl. 102-70.20r.

Bisson, Flavio, to Olivetti, Ing. C., & C., S.p.A. Tape cassettes. 3,733,019, 5-15-73, Cl. 226-119.000.

Bisson, Flavio, to Olivetti, Ing., C., & C., S.p.A. Apparatus for the feed of a magnetic recording tape. 3,773,236, 11-20-73, Cl. 226-186.000.

Bissonette, Vernon L., to Eastman Kodak Company. Metal complex in silver halide development. 3,748,138, 7-24-73, Cl. 96-66.300.

Bistcher Industries, Inc.: *See—*
Fetzer, Fred; and Miranda, Ronald P., 3,744,089.

Bistline, Raymond G., Jr.: *See—*
Wrigley, Arthur N.; Bistline, Raymond G., Jr.; Rothman, Edward S.; Serota, Samuel; and Stirton, Alexander J., 3,745,181.

Biswas, Dilip Kumar, to Imperial Chemical Industries Limited. Method for the preparation of thickened slurry explosives. 3,770,523, 11-6-73, Cl. 149-14.000.

Bither, Tom Allen, Jr., to Du Pont de Nemours, E. I., and Company. Isotypic borates of aluminum, rhodium and thallium of calcite-type crystal structure. 3,755,536, 8-28-73, Cl. 423-279.000.

Bither, Tom Allen, Jr., to Du Pont de Nemours, E. I., and Company. Palladium phosphide chalcogenides. 3,761,572, 9-25-73, Cl. 423-303.000.

Bitko, Sheldon S., to Fifth Dimension Inc. Position insensitive mercury switch having a magnetically actuated slug floating in mercury. 3,715,546, 2-6-73, Cl. 200-166.00c.

Bitney, Robert H. Method for assembling spring-biased hinge pin unit. 3,708,859, 1-9-73, Cl. 29-430.000.

Bitney, Robert H. Pallet box. 3,747,794, 7-24-73, Cl. 217-15.000.

Bitonti, Frank E. Fuel injection means and process for making same. 3,762,378, 10-2-73, Cl. 123-32.00h.

Bitran, Munir, to Patelhold Patentverwertungs- & Elektro-Holding AG. Electronic counting and storage system having non-interfering counting storage and read-out capability. 3,760,372, 9-18-73, Cl. 340-172.500.

Bitsura, Michael P.: *See—*
Brevko, Robert; Bitsura, Michael P.; Mucka, John R.; and Zinski, Peter, 3,724,164.

Bitterberg, Friedhelm, to Rheinstahl Henschel Aktiengesellschaft. Locomotive bogie having lifting dogs. 3,752,083, 8-14-73, Cl. 105-1.00a.

Bitterlich, Walter; and Hesske, Benno. Telescopic optical instrument. 3,712,737, 1-23-73, Cl. 356-8.000.

Bittermann, Hans; Hausenblas, Albin; and Kammerl, Anton, to Siemens Aktiengesellschaft. Method for connection control in program controlled processing systems. 3,768,079, 10-23-73, Cl. 340-172.500.

Bittermann, Veit, to Dynamit Nobel Aktiengesellschaft. Pneumatic pump. 3,764,235, 10-9-73, Cl. 417-118.000.

Bittner, Friedrich: *See—*
Pfleger, Hans; Bittner, Friedrich; and Meffert, Paul, 3,714,331.

Bittner, Herbert, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Method of continuous production of tubing with helical or annular ribs. 3,750,444, 8-7-73, Cl. 72-78.000.

Bittner, John R.: *See—*
De Puy, Seymour M.; Folsom, William J.; and Bittner, John R., 3,766,852.

Bittner, Richard W. Note-holding device. 3,754,663, 8-28-73, Cl. 211-89.000.

Bitumarin N.V.: *See—*
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Rinkel, Gerardus, 3,722,222.

Bitumen Industries Limited, mesne: *See—*
Rose, Alan D., 3,755,066.

Bitz, John O. Air humidifying units for room-type air conditioners. 3,756,311, 9-4-73, Cl. 165-21.000.

Bitzer, Donald L.; Bandy, Lyle E.; Johnson, Roger L.; and Skaperdas, Dominic O., to University of Illinois Foundation. Fluid positionable means and fluid control means therefor. 3,738,227, 6-12-73, Cl. 91-167.000.

Bitzer, Donald L.; Johnson, Michael; and Stifle, Jack, to University of Illinois Foundation. Transmitter and receiver for the transmission of digital data over standard television channels. 3,743,767, 7-3-73, Cl. 178-5.600.

Bitzer, Donald L.; Bandy, Lyle E.; Johnson, Roger L.; and Skaperdas, Dominic O., to University of Illinois Foundation. Random access selection apparatus. 3,770,012, 11-6-73, Cl. 137-596.160.

Biuro Konstrukeyjno-Technologiozne Maszyn i Urzadzen Budowlanych: *See—*
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Bivator S.A., mesne: *See—*
Adler, Karl; and Docommun, George, 3,740,273.

Bivens, Carl F. Ophthalmic lens. 3,771,858, 11-13-73, Cl. 351-159.000.

Bivens, Donald B.; and Patton, Leo W., to Du Pont de Nemours, E. I., and Company. Suppression of diaminocyclohexane formation in hexamethylene-diamine manufacture. 3,773,834, 11-20-73, Cl. 260-583.00k.

Bivens, Donald Bernard; Patton, Leo Wesley; and Thomas, William Erbie, Jr., to Du Pont de Nemours, E. I., and Company. Hydrogenation of adiponitrile. 3,758,584, 9-11-73, Cl. 260-583.00k.

Biviator S.A.: *See—*
Adler, Karl; Ducommun, George; and Jenni, Rene, 3,761,921.
Adler, Karl; and Ducommun, George, 3,767,947.

Biviator S.A., mesne: *See—*
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B.I.X. Limited: *See—*
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Bixby Box Toe Co., Inc.: *See—*
Trask, Blair D., 3,778,251.

Bixby, Douglas G.; and Helmke, Kenneth L., to Quaker Oats Company, The. Preparation of ready-to-eat peanut butter containing cereal. 3,723,131, 3-27-73, Cl. 99-83.000.

Bixby, Herbert E.: *See—*
Churchill, Charles W.; and Bixby, Herbert E., 3,709,553.

Bixler, Donald; and Corey, Robert H. Trench shoring machine. 3,715,889, 2-13-73, Cl. 61-41.00a.

Bixler, Henry A.: *See—*
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Bixler, Kenneth D.: *See—*
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Reifers, Richard F.; and Bixler, Kenneth D., 3,756,492.
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Bixler, Kenneth D.; Chaplin, Charles J.; Reifers, Richard F.; and Peppler, William S., to Diamond International Corporation. Packing for fragile articles. 3,708,084, 1-2-73, Cl. 217-26.500.

Bixler, Lloyd: *See—*
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Bixler, Warren A.: *See—*
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Muller, Ernst; and Maurer, Albrecht, 3,739,677.
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Rudle, August; and Striebel, Kurt, 3,759,226.

Bizzigotti, Pio J.; and Charlton, John, to Sperry Rand Corporation. System for surveillance of ocean dumping. 3,768,098, 10-23-73, Cl. 343-103.000.

Bizzini, Bernard; Chermann, Jean-Claude; Jasmin, Claude; and Raynaud, Marcel. Method of cell culture. 3,717,551, 2-20-73, Cl. 195-1.700.

Bizzoco, Michael D., to Tork Time Controls, Inc. Irrigation control system timing device for controlling watering cycle of a plurality of watering zones. 3,740,575, 6-19-73, Cl. 307-141.400.

Bjalme, Bengt G.; and Buhl, Robert E., to Reed Manufacturing Company. Plastic pipe flaring tool. 3,710,428, 1-16-73, Cl. 29-237.000.

Bjalme, Bengt G., to Reed Manufacturing Company. Method of flaring plastic pipe. 3,769,393, 10-30-73, Cl. 264-68.000.

Bjarsch, Otto: *See—*
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Bjorheim, Ingolf; and Steinsoy, Brynjulf. Ground heater. 3,762,171, 10-2-73, Cl. 61-36.00a.

Bjork, Albion P.; and Conner, James M., to Polaroid Corporation. Camera system including operation sequence control. 3,726,198, 4-10-73, Cl. 95-37.000.

Bjork, Albion P.; and Conner, James M., to Polaroid Corporation. Camera system including operation sequence control. 3,748,987, 7-31-73, Cl. 95-36.000.

Bjork, Albion P.; and Conner, James M., to Polaroid Corporation. Camera system including operation sequence control. 3,762,292, 10-2-73, Cl. 95-36.000.

Bjork, Gust H., to Flickeitail Industries, Inc. Water conditioning unit. 3,753,495, 8-21-73, Cl. 210-206.000.

Bjork, Lars; Erikson, Uno Eugen; Granath, Kirsti Annikki; Ingelman, Bjorn Gustav-Adolf; and Lindberg, Bernt Jabes, to Pharmacia A.B. Method for the X-ray visualization of body cavities and a preparation for carrying out the method. 3,733,397, 5-15-73, Cl. 24-5.000.

Bjorklund, Anders: *See—*
Anderson, Anders R.; and Bjorklund, Anders, 3,777,198.
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Bjorklund, Ivan S.: *See—*
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Bjorklund, John R., Jr.: *See—*
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Bjorkman, Harry K., to Occidental Energy Development Company, mesne. Efficiency of high energy density batteries of metal-metal halide-halogen type by boundary layer. 3,772,085, 11-13-73, Cl. 136-86.00a.

Bjorkman, Harry K., to Occidental Energy Development Company, mesne. Circulation of electrolyte over a metal electrode of a cell in a high energy density battery. 3,773,560, 11-20-73, Cl. 136-86.00r.

Bjorkman, Harry K., to Occidental Energy Development Company, mesne. Isolation of cells of a battery stack to prevent internal short-circuiting during shutdown and standby periods. 3,773,561, 11-20-73, Cl. 136-86.00a.

Bjorkman, Harry K., to Occidental Energy Development Company. Production of aqueous zinc chloride electrolyte saturated with chlorine. 3,775,187, 11-27-73, Cl. 136-86.00a.

Bjorksten, Johan: *See—*
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Bjorksten, Johan. Method for making fiber reinforced plastic. 3,713,945, 1-30-73, Cl. 156-278.000.

Bjorksten Research Laboratories, Inc.: *See—*
Guenther, Karl R., 3,754,867.
Paquette, Elmer Gordon, 3,736,683.
Paquette, Elmer Gordon; and Guenther, Karl Russell, 3,755,036.
Paquette, Elmer Gordon; and Guenther, Karl R., 3,775,209.
Paquette, Elmer Gordon; and Guenther, Karl Russell, 3,775,210.

Bjornerud, Egil K.; and Keister, Glenn L., to Applied Technology Corporation. Method for the production of stable water fogs using an emulsified water-evaporation retarding chemical mixture. 3,736,261, 5-29-73, Cl. 252-305.000.

Bjornkjaer, Leif: *See—*
Chamberlin, Richard M.; and Bjornkjaer, Leif, 3,768,539.

Bjornsen, Melvin G. Combined coupling and sealing adapter. 3,722,924, 3-27-73, Cl. 285-55.000.

Bjornson, Geir; and Fox, Homer M., to Phillips Petroleum Company. Conversion of perhaloalkanes. 3,754,043, 8-21-73, Cl. 260-653.000.

Bjornson, Geir, to Phillips Petroleum Company. Conversion of halocarbon compounds. 3,755,474, 8-28-73, Cl. 260-653.000.

BKB Company: *See—*
Benke, Balazs Kiss, 3,768,505.

Blaauw, Andrew, to Case, J. I., Company. Spring formed worm gear for snow blower spout drive. 3,760,517, 9-25-73, Cl. 37-43.00r.

Blach, Heribert: *See—*
Blach, Joseph; and Blach, Heribert, 3,734,635.

Blach, Josef. Mixing of materials. 3,746,319, 7-17-73, Cl. 259-192.000.

Blach, Joseph; and Blach, Heribert. Shaft in particular screw shaft for feeding or kneading of raw materials by example synthetic material. 3,734,635, 5-22-73, Cl. 415-72.000.

Blachere, Henri T.; and Jamart, Guy Georges, to Institut National de la Recherche Agrenomique and Etablissements Gourdon. Apparatus for optical measurements of microbial cultures. 3,714,445, 1-30-73, Cl. 250-218.000.

Blachut, Theodore J.; Paulun, Manfred; Ferry, Kirk; and Amaro, Angel Garcia, to Canadian Patents and Development Limited. Stereocomplier. 3,729,830, 5-1-73, Cl. 33-20.00d.

Black and Decker Manufacturing Company, The: *See—*
Beckering, Jacobus J.; Weber, Edwin J.; and Secoura, Ralph J., 3,780,246.
Bednarski, Thaddeus E., 3,737,987.
Bednarski, Thaddeus E., 3,737,988.
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Meshulam, Avram M., 3,758,221.
Ostroski, Richard J., 3,778,892.
Rosenthal, Francis Joseph, Jr.; and Rohr, Lewis Hampton, 3,781,579.
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Black, Bobby E., to PSI Products, Inc. Gasket assembly for pipe flanges. 3,721,452, 3-20-73, Cl. 277-9.000.

Black Clawson Company, The: *See—*
Bennett, Weston T.; Coveney, Donald B.; Lamb, Charles A.; and Hanson, Jonathan Leslie, 3,734,822.
Blakley, Earl T.; Chupka, David E.; Harbron, Donald L., Jr.; Marsh, Paul G.; and Seifert, Peter, 3,713,594.
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Black, David V. C., Jr.; Pospisil, Richard E.; and Powell, George A., to Telecommunication Technology, Inc. Modular instrument housing. 3,751,127, 8-7-73, Cl. 312-111.000.

Black, Delbert L. Hydraulic system for individually controlling a plurality of hydraulic motors. 3,713,296, 1-30-73, Cl. 60-452.000.

Black, Dewie E., to Burroughs Corporation. Delay line attenuation tester. 3,769,580, 10-30-73, Cl. 324-57.00r.

Black, Donald L. Holder for depressing a motor vehicle accelerator. 3,749,212, 7-31-73, Cl. 192-3.00t.

Black Engineering, Inc.: *See—*
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Black, Ernest P.; Duling, Irl N.; Merges, John C., Jr.; and Talbot, Alfred F., to Sun Oil Company. Method for preparing laminated article of metallic, polymeric and wax impregnated cellulosic layers. 3,716,441, 2-13-73, Cl. 156-309.000.

Black, George W. Golf ball retrieving apparatus. 3,735,934, 5-29-73, Cl. 242-54.00r.

Black, Gordon L.: *See—*
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Black, Herman Wendell; and Wright, Richard R. Seat suspension apparatus. 3,737,195, 6-5-73, Cl. 297-142.000.

Black, Howard; and Breier, Morton A., to Dorr-Oliver Incorporated. Conveying apparatus. 3,710,917, 1-16-73, Cl. 198-20.00r.

Black, James A.: *See—*
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Black, James A., to Superior Concrete Accessories, Inc. Self-contained, articulated, outside corner-forming device for a concrete wall form. 3,762,679, 10-2-73, Cl. 249-194.000.

Black, James A., to Superior Concrete Accessories, Inc. Self-contained, articulated, outside corner-forming device for a concrete wall form. 3,771,757, 11-13-73, Cl. 249-219.00w.

Black, James A.; and Farwell, Harry Russell, to Black, James A. Printing press and web registry system. 3,779,160, 12-18-73, Cl. 101-115.000.

Black, James A.; and Farwell, Harry Russell. Screen printer ink supply with quick coupling and level sensing. 3,780,651, 12-25-73, Cl. 101-115.000.

Black, James A.; and Farwell, Harry Russell. Screen printer with screen infeed means. 3,780,652, 12-25-73, Cl. 101-124.000.

Black, James R.; and Philofsky, Elliott, to Motorola, Inc. Eutectic plating and breaking silicon wafers. 3,720,997, 3-20-73, Cl. 29-583.000.

Black, James R.; and Gurev, Harold S., to Motorola, Inc. Vertical resistor. 3,775,120, 11-27-73, Cl. 96-36.200.

Black, James Whyte; Durant, Graham John; Emmett, John Colin; and Ganellin, Charon Robin, to Smith Kline & French Laboratories, Limited. Carboxamidines. 3,734,924, 5-22-73, Cl. 260-309.000.

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Black, James Whyte; Durant, Graham John; Emmett, John Colin; and Ganellin, Charon Robin, to Smith Kline & French Laboratories, Limited. Isothioureas and their derivatives. 3,759,944, 9-18-73, Cl. 260-309.000.

Black, John C.; Krewson, Neil N.; Tait, John B.; and Updike, Bruce M., to International Business Machines Corporation. Processor utilizing one holographic array and a plurality of photoresponsive storage arrays for high paging performance. 3,766,533, 10-1673, Cl. 340-172.500.

Black, John Dennis. Method and apparatus for picking up litter. 3,746,099, 7-17-73, Cl. 171-63.000.





Black, Joseph M., to Zenith Radio Corporation. Blank for shadow mask for color television picture tube. 3,753,663, 8-21-73, Cl. 29-190.000.

Black, La Donna Jeanne. Demonstration device for illustrating tooth structure and dental care. 3,740,854, 6-26-73, Cl. 32-71.000.

Black, La Donna Jeanne. Dental care demonstration device. 3,771,227, 11-13-73, Cl. 32-71.000.

Black, Marion R. Electrical switch indicator. 3,721,789, 3-20-73, Cl. 200-167.00r.

Black, Millard G.; Nater, Robert A.; Rolston, Charles E.; Roberts, William H.; Hoover, Edward D.; Gunning, William F.; and King, Robert P., to Disney, Walt, Productions. Digital animation apparatus and methods. 3,767,901, 10-23-73, Cl. 235-151.000.

Black Products Company: *See—*
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Black, Richard A., to Bell Fibre Products Corporation. Carton divider. 3,758,018, 9-11-73, Cl. 229-15.000.

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Black, Richard I.; and Yacko, Edward M., to Remington Arms Company, Inc. Chemiluminescent lighting construction. 3,720,823, 3-13-73, Cl. 240-2.250.

Black, Richard I., to Remington Arms Company, Inc. Rotatable nocking attachment. 3,756,215, 9-4-73, Cl. 124-30.00a.

Black, Richard I.; Hartman, Robert E.; and Tucker, Henry G., to Remington Arms Company, Inc. Take-down archery bow. 3,771,508, 11-13-73, Cl. 124-24.000.

Black, Robert B. Autoclave. 3,717,434, 2-20-73, Cl. 21-94.000.

Black, Robert B. Hull construction. 3,773,006, 11-20-73, Cl. 114-66.50h.

Black, Sivalls & Bryson, Inc.: *See—*
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Arenson, Edwin M., 3,726,101.
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McMinn, Robert E.; Tournoux, Paul M.; and Milnes, Donald S., 3,754,380.
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Black, Stanley H.; and Formeister, Richard B., to Sperry Rand Corporation. Direction finder system. 3,725,938, 4-3-73, Cl. 343-120.000.

Black, Terence Sidney, to Brico Engineering Limited. Fuel injection systems. 3,742,920, 7-3-73, Cl. 123-32.0ea.

Black, Thomas J., to Westerman, Werner F. Coin counter cut-off and recycling apparatus. 3,717,158, 2-20-73, Cl. 133-8.000.

Black, Thomas P., Jr. Stilt. 3,756,596, 9-4-73, Cl. 272-70.100.

Black, William B.: *See—*
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Black, William Brown. Method of coating or lining a structural surface. 3,754,066, 8-21-73, Cl. 264-71.000.

Black, William J.; Lanz, William E.; and Wilson, Eugene M., to Caterpillar Tractor Company. Replaceable pinned-on cutting edge. 3,736,664, 6-5-73, Cl. 37-141.00r.

Blackaby, James R.: *See—*
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Blackaby, Wilmur B.: *See—*
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Blackband, William Thomas, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Radio direction finding apparatus. 3,754,264, 8-21-73, Cl. 343-118.000.

Blackburn, Camille R.; and Schmelzer, Jurgen F., to Rathmans of Pall Mall Canada Limited. Cigarette inspection. 3,757,564, 9-11-73, Cl. 73-45.100.

Blackburn, Dale W.; Devenney, Robert F.; and Mlynarski, John J., to Smithkline Corporation. Process for preparing desacetoxycephalosporanic acids from cephalosporanic acids. 3,773,761, 11-20-73, Cl. 260-243.00c.

Blackburn, Denis Edward: *See—*
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Blackburn, Horace D. Container stall interchange. 3,764,028, 10-9-73, Cl. 214-38.0cc.

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Blackburn, Keith, to Franklin Equipment Company. Tree harvester. 3,746,064, 7-17-73, Cl. 144-309.0ac.

Blackburn, Louis W., to Amana Refrigeration, Inc. Microwave oven door latch. 3,733,456, 5-15-73, Cl. 219-10.550.

Blackburn, Marvin J., to Vernon Tool Company. Automatic control system for tube expander tool. 3,718,017, 2-27-73, Cl. 72-20.000.

Blackburn, Richard D.: *See—*
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Blackburn, Richard D., to General Electric Company. D.C. motor braking circuit especially for use with voltage regulators. 3,781,621, 12-25-73, Cl. 318-373.000.

Blackburn, Tom L.: *See—*
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Blackburn, Tom L.; and Wisotzky, Otto G., to GTE Automatic Electric Laboratories, Incorporated. Technique for deriving a regulated D-C source for low-level logic circuits from a high D-C voltage source. 3,766,414, 10-16-73, Cl. 307-297.000.

Blackburn, William E.: *See—*
Cross, Donald E.; and Blackburn, William E., 3,719,579.

Blacker, Allen Palmer, Jr., to Machlett Laboratories, Incorporated, The. Image intensifier tube. 3,708,673, 1-2-73, Cl. 250-213.0vt.

Blacker, John G.: *See—*
Ostrowski, Henry S.; Roberts, John F.; and Blacker, John G., 3,771,306.

Blackert, John E.: *See—*
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Blackford, Edward A., Jr., to Sinclair-Koppers Company. Latex for high gloss floor polish formulations. 3,766,112, 10-16-73, Cl. 260-28.50r.

Blackford, Edward A., Jr., to Sinclair-Koppers Company. Fire-retardant latex containing chlorinated paraffin wax. 3,766,189, 10-16-73, Cl. 260-285.00b.

Blackledge, Keith; and Rushton, Harold, to British Leyland Truck and Bus Division Limited. Motor vehicle suspensions. 3,735,999, 5-29-73, Cl. 280-124.00f.

Blackley, William D.: *See—*
Reinhard, Russell R.; and Blackley, William D., 3,718,695.

Blackley, William D., to Minnesota Mining and Manufacturing Company. Polyimide polymers of benzophenone tetracarboxylic dianhydrides and saturated aliphatic diamines. 3,759,913, 9-18-73, Cl. 260-33.40p.

Blackman, Carl R.: *See—*
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Blackman, Kent G.; and Hrdlicka, Eugene R., to GTE Automatic Electric Laboratories, Incorporated. Multiple contact electrical connector. 3,750,091, 7-31-73, Cl. 339-176.00m.

Blackman, Robert J., to Eastman Kodak Company. Bimodal film cutter adapted to handle different film widths. 3,763,728, 10-9-73, Cl. 83-210.000.

Blackmer, David E.: *See—*
Rosse, Thomas A.; Blackmer, David E.; Zindler, Jerrold; and Kelley, Thomas F., 3,718,439.
Rosse, Thomas A.; Blackmer, David E.; Zindler, Jerrold; and Kelley, Thomas F., 3,775,595.

Blackmer, David E. Multiplier circuits. 3,714,462, 1-30-73, Cl. 307-229.000.

Blackmer, David E.; and Boling, Eldon A., to Instrumentation Laboratory, Inc. Calorimetry. 3,765,237, 10-16-73, Cl. 73-190.00r.

Blackmore, George R.: *See—*
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Blackmore, Joseph J.; and Glunt, Perry G. Liquid flow diffusion and straightening apparatus. 3,727,643, 4-17-73, Cl. 138-41.000.

Blackmore, Kenneth A. E., to Georgia-Pacific Corporation. Preparation of ammonium sulfate fertilizer consultituent. 3,725,029, 4-3-73, Cl. 71-28.000.

Blackney, Raymond. Oscillating steam engine. 3,720,139, 3-13-73, Cl. 91-176.000.

Blackshear, Perry J.; Dorman, Frank D.; Blackshear, Perry L., Jr.; Buchwald, Henry; and Varco, Richard L., to University of Minnesota, The Regents of the. Implantable infusion pump. 3,731,681, 5-8-73, Cl. 128-214.00f.

Blackshear, Perry L., Jr.: *See—*
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Blackstone Industries, Inc.: *See—*
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Blackstone, James O., Jr.: *See—*
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Blackstone, Robert Clifford, to Du Pont de Nemours, E. I., and Company. Removal of 1,2-diaminocyclohexane impurity from crude hexamethylenediamine. 3,781,362, 12-25-73, Cl. 260-583.00n.

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Blackwell Electronics Ind. Co., Ltd.: *See—*
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Nozawa, Shunichi; Kuroi, Hisashi; Hatada, Masamichi; and Fukuyama, Shunsaku, 3,728,578.
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Blackwell, James C., to Bymco Corporation. Self-propelled tiling machine. 3,710,583, 1-16-73, Cl. 61-72.100.
Blackwell, Jennings P., to Phillips Petroleum Company. Arylene sulfide polymer coating compositions. 3,776,880, 12-4-73, Cl. 260-37.00r.
Blackwell, Jennings P., to Phillips Petroleum Company. Solid propellant composition. 3,779,825, 12-18-73, Cl. 149-18.000.
Blackwell, John; and Buxbaum, Jeanne K., to Du Pont de Nemours, E. I., and Company. Orange to rubine disperse disazo dyes. 3,712,882, 1-23-73, Cl. 260-187.000.
Blackwell, John, to Du Pont de Nemours, E. I., and Company. Uniformly dyed yellow water swellable cellulosic fibers. 3,738,801, 6-12-73, Cl. 8-21.00c.
Blackwell, John, to Du Pont de Nemours, E. I., and Company. Water swollen cellulose and blends dyed with insoluble, non-vattable anthraquinone dyed in a glycol ether solution. 3,752,646, 8-14-73, Cl. 8-21.00c.
Blackwell, John; and Cole, John Elton, Jr., to Du Pont de Nemours, E. I., and Company. Navy blue phenyl-azo-naphthyl-azo-m-toluidine dyes. 3,766,163, 10-16-73, Cl. 260-191.000.
Blackwell, John; and Fenoglio, Richard A., to Du Pont de Nemours, E. I., and Company. 3'-Hydroxyquinophthalone-5-carboxanilide. 3,770,746, 11-6-73, Cl. 260-289.0qp.
Blackwell, Lyman L., to Central Investment Corporation. Circuit for detection of small resistance changes ionization chamber devices. 3,735,375, 5-22-73, Cl. 340-237.00s.
Blackwell, Lyman L.; and Staby, Paul A., to Statitrol Corporation. Self-monitoring battery operated circuit. 3,778,800, 12-11-73, Cl. 340-249.000.
Blackwell, Robert J.; Hagedorn, Alton R.; and Ortloff, Gerald D., to Esso Production Research Company. Method of withdrawing hazardous gases from subterranean formations. 3,743,355, 7-3-73, Cl. 299-12.000.
Blackwell, Sam M., to McFarlan, A. I., Company Incorporated. Air conditioning system and method. 3,780,941, 12-25-73, Cl. 236-49.000.
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Blackwood, William R.; Germeshausen, Kenneth J.; and Worth, Edward L., to EG & G, Inc. Recorder stylus assembly. 3,774,229, 11-20-73, Cl. 346-139.00c.
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Blades, Herbert, to Du Pont de Nemours, E. I., and Company. Dry-jet wet spinning process. 3,767,756, 10-23-73, Cl. 264-184.000.
Bladzik, Kenneth R.: *See—*
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Blaeldh, Erik Arne, to Aktiebolaget Electrolux. Surface cleaning apparatus. 3,751,747, 8-14-73, Cl. 15-50.00r.
Blaetz, Philip H.; and Corbige, Orin K., to Kraftco Corporation. Frozen sandwich and process for preparing same. 3,719,138, 3-6-73, Cl. 99-192.000.
Blagg, Charles D., to General Motors Corporation. Articulated filling and dispensing ladle mechanism. 3,739,954, 6-19-73, Cl. 222-357.000.
Blagg, Leon. Trailer-borne horse corral. 3,741,529, 6-26-73, Cl. 256-26.000.
Blagov, Eduard Evenievich: *See—*
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Blahak, Johannes; and Meckel, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of aromatic dinitrohalogen compounds. 3,719,717, 3-6-73, Cl. 260-646.000.
Blahut, Donald Edgar; and Froehlich, Fritz Edgar, to Bell Telephone Laboratories, Incorporated. Multiplex communication system. 3,781,478, 12-25-73, Cl. 179-15.0al.
Blaich, Emil; Maier, Oskar; and Ziegler, Bodo, to Bosch, Robert, G.m.b.H. Device for replenishing the liquid in a storage battery. 3,708,347, 1-2-73, Cl. 136-162.000.
Blaich, Emil; and Niemann, Gert, to Bosch, Robert, G.m.b.H. Battery in molded case and cover with electrolyte reservoir in cover common to all cells. 3,740,272, 6-19-73, Cl. 136-162.000.
Blain, William A.: *See—*
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Blair, Benton, 1/10 to Blair, Farnham. Float for spectacles. 3,711,190, 1-16-73, Cl. 351-43.000.
Blair, Bruce A., to International Farm Systems, Inc. Incubative animal confinement system. 3,779,210, 12-18-73, Cl. 119-18.000.
Blair, Calvin B. Self-propelled bale handling apparatus. 3,722,722, 3-27-73, Cl. 214-522.000.
Blair, Carl D., to Honeywell Inc. Tilt actuated liquid metal switch having a negative break angle. 3,755,643, 8-28-73, Cl. 200-220.000.
Blair, Charles M.; and Huband, Frank L., to Texas Instruments, Incorporated. Burst error detection and correction system. 3,725,859, 4-3-73, Cl. 340-146.1al.
Blair, Charles M., to Texas Instruments, Incorporated. Burst and single error detection and correction system. 3,742,449, 6-26-73, Cl. 340-146.1al.
Blair, Charles R. Attache case convertible to luggage dolly. 3,717,228, 2-20-73, Cl. 190-1.000.
Blair Engineering, Inc.: *See—*
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Blair, Farnham: *See—*
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Blair, George R.; and Ricaud, Francois J., to Hughes Aircraft Company. Method of hardening polished aluminum surfaces. 3,734,837, 5-22-73, Cl. 204-36.000.
Blair, George R.; and Keller, Sherman R., to Hughes Aircraft Company. Method of deoxidizing stainless steel and electropolishing of molybdenum. 3,751,352, 8-7-73, Cl. 204-145.00r.
Blair, James E.; and Jackson, Richard I., to United States of America, Navy. Aerial dispersal of chemicals. 3,712,219, 1-23-73, Cl. 102-7.200.
Blair, James E.; and Saholt, Orville J., to United States of America, Navy. Target discriminating device. 3,765,335, 10-16-73, Cl. 102-62.000.
Blair, James M.; Sebring, Michael; Underwood, Warren H.; and Bley, William P., to Armour and Company. Poultry carcass-treating process and apparatus. 3,754,302, 8-28-73, Cl. 17-45.000.
Blair, John England, to Coloroll Limited. Manufacture of carrier bags. 3,773,591, 11-20-73, Cl. 156-265.000.
Blair, Lawrence William; and Bryans, Alexander Connor, to General Electric Company. Diffuser. 3,719,430, 3-6-73, Cl. 415-207.000.
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Blair, Richard L. Servicing apparatus for heating/cooling systems. 3,774,234, 11-20-73, Cl. 307-149.000.
Blair, Ronald S., to Texas Instruments, Incorporated. Write ring detector for magnetic recorders. 3,772,662, 11-13-73, Cl. 340-174.10g.
Blair, William G., to Blair Engineering, Inc. Hydroturbine. 3,780,531, 12-25-73, Cl. 60-40.000.
Blaire, Pete, 1/2 to Halliday, Michael and Orr, Samuel J., IV. Separator for new paper money. 3,738,642, 6-12-73, Cl. 271-10.000.
Blaise, Christian; Lochon, Pierre; and Neel, Jean, to Societe Anonyme dite: Aquitaine Total Organico. Polythiazoles and method of preparation from diphenols and dihalide dibenzothiazolic compounds. 3,761,447, 9-25-73, Cl. 260-49.000.
Blaise, Jean; and Grimaud, Edouard, to Ugine Kuhlmann. Hydroxy halogenated elastomers resistant to oils. 3,714,297, 1-30-73, Cl. 260-890.000.
Blajda, Raymond S., to United States of America, Army. Expellable cartridge case. 3,750,578, 8-7-73, Cl. 102-38.000.
Blajda, Raymond S.; and Rubin, Kenneth D., to United States of America, Army. Self-obturating, expellable cartridge case. 3,759,184, 9-18-73, Cl. 102-38.000.
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Blake, Francis R., to Cooper, Peter, Corporation. Tool for use in book binding. 3,758,928, 9-18-73, Cl. 29-105.00a.
Blake, George H.; and Clowes, Ernest J., to Aluminum Company of America. Blankholding assembly. 3,740,997, 6-26-73, Cl. 72-465.000.
Blake, James E., to General Electric Company. Parabola generator moving error corrector. 3,715,487, 2-6-73, Cl. 178-7.300.
Blake, Jeremy: *See—*
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Blake, John Calvin, to General Electric Company. Shock and vibration isolation mount. 3,770,232, 11-6-73, Cl. 248-21.000.
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Blake, Michael Orren; and Larson, Paul Z., to Du Pont de Nemours, E. I., and Company. Continuous process and apparatus for laminating an oriented thermoplastic film to wet cellulose. 3,775,217, 11-27-73, Cl. 156-308.000.
Blake, Pressley L.; and Johnson, Josiah D. Child's vehicle safety seat assembly. 3,767,259, 10-23-73, Cl. 297-250.000.
Blake, Ralph Kingsley, to Du Pont de Nemours, E. I., and Company. Copper (1) salt-hydrophilic binder lithographic images. 3,736,871, 6-5-73, Cl. 101-456.000.
Blake, Roy B., Jr., to United States of America, Navy. Time mark-numeral generator system. 3,731,262, 5-1-73, Cl. 340-2.000.
Blake, William L. Coaxial cable connector. 3,781,771, 12-25-73, Cl. 339-272.00a.
Blake, William R. Non-lethal riot deterrent weapon. 3,765,114, 10-16-73, Cl. 42-1.00f.
Blakeley, Clyde A.; and Morgan, Joe M., to Fabit Corporation. Refuse container loading and transport system and apparatuses therefor. 3,773,197, 11-20-73, Cl. 214-302.000.
Blakeley, James, to Victaulic Company of Canada Ltd. Pipe to flange couplings. 3,761,114, 9-25-73, Cl. 285-111.000.
Blakeley, Ronald Edward; and Turner, Robert, to Lucas, Joseph, (Industries) Limited. Method of testing the lubrication properties of a liquid. 3,724,259, 4-3-73, Cl. 73-10.000.
Blakely, Richard P., to Case, J. I., Company. Load carrying device with improved position control. 3,722,724, 3-27-73, Cl. 214-776.000.
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Blakemore, John H. Infinitely variable positive mechanical transmission. 3,750,485, 8-7-73, Cl. 74-125.500.
Blakeney, Hurley J.; Lowe, Harold V.; and Ottens, Gunther W., to Bunker Ramo Corporation, The. Insulation stripping device adapted for use with terminal attaching machines. 3,753,280, 8-21-73, Cl. 29-203.00d.
Blaker, Ivar; Boyum, Oystein; Andreassen, Knut Anton; Lunde, Reidar Skipperud; and Tveten, Kjell Wallin, to Norsk Hydro a.s. Process for the preparation of substantially anhydrous magnesium chloride from magnesium chloride hydrates. 3,760,050, 9-18-73, Cl.264-82.000.
Blakeslee, A. Eugene, to International Business Machines Corporation. Vapor phase epitaxial deposition process and forming superlattice structure. 3,721,583, 3-20-73, Cl. 117-215.000.
Blakeslee, A. Eugene; Gukelberger, Thomas F., Jr.; and Lyons, Vincent J., to International Business Machines Corporation. Single crystal regions in dielectric substrate. 3,737,739, 6-5-73, Cl. 317-235.000.
Blakeslee, Daniel Leo, to Stacor Corporation. Automatic fastening machine. 3,763,547, 10-9-73, Cl. 29-430.000.
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Blakeslee, Thomas R.; and Bryll, Erwin, to Calumet Photographic, Inc. Integrating light meter with movable meter mechanism. 3,709,615, 1-9-73, Cl. 356-224.000.
Blakey, Alexander G.; Adams, Jack S.; and Swarts, James J., to General Dynamics Corporation. Method of assembling a measuring and locating system. 3,711,929, 1-23-73, Cl. 29-407.000.
Blakey, Alexander G.; Adams, Jack S.; and Swarts, James J., to General Dynamics Corporation. Measuring and locating method. 3,722,360, 3-27-73, Cl. 90-11.00c.
Blakey, Alexander G.; Adams, Jack S.; and Swarts, James J., to General Dynamics Corporation. Magnetic holding means in a surface plate dimensional measuring apparatus. 3,723,927, 3-27-73, Cl. 335-285.000.
Blakey, Alexander G.; Adams, Jack S.; and Swarts, James J., to General Dynamics Corporation. Magnetically held measuring and locating fixtures. 3,723,928, 3-27-73, Cl. 335-285.000.
Blakley, Earl T.; Chupka, David E.; Harbron, Donald L., Jr.; Marsh, Paul G.; and Seifert, Peter, to Black Clawson Company, The. Waste treatment system. 3,713,594, 1-30-73, Cl. 241-46.080.
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Blance, Robert B.; Cahill, David R.; and Wachtel, Peter, to Monsanto Company. Photoconductive composition employing an interpolymer blend as binder material. 3,745,006, 7-10-73, Cl. 96-1.800.
Blancett, Joe H. Clock for meters. 3,735,102, 5-22-73, Cl. 235-94.00r.
Blanch, Charles H.; and Kovacik, James W. Miniaturized electric cord reel. 3,715,526, 2-6-73, Cl. 191-12.20r.
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Blanchard, Bruno; Hilleret, Noel; Connier, Joel; and Quoirin, Jean-Baptiste, to Commissariat a l'Energie Atomique. Device for direct measurement of the curve of concentration of an element in a material. 3,757,116, 9-4-73, Cl. 250-299.000.
Blanchard, Clarence E., to Outboard Marine Corporation. Hydraulic arrangement for veritcally trimming a marine propulsion unit. 3,718,110, 2-27-73, Cl. 115-41.oht.
Blanchard, Clarence E.; Turner, Robert K.; and DuBois, Chester, to Outboard Marine Corporation. Fuel feed system. 3,759,493, 9-18-73, Cl. 261-23.00a.
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Blanchard, Stanley. Stage lighting systems. 3,763,394, 10-2-73, Cl. 315-294.000.
Blanchard, Vernon F. Adjustable work stop for turning machine. 3,720,416, 3-13-73, Cl. 279-1.00s.
Blanchard, William Carroll, to Bendix Corporation, The. Resonant pressure sensor. 3,745,384, 7-10-73, Cl. 310-8.200.
Blanchaud, Maurice; and Bournier, Edgard. Installation for trimming mushrooms and other vegetables. 3,727,542, 4-17-73, Cl. 99-637.000.

Blanchenot, John Philip, to International Telephone and Telegraph Corporation. Coaxial cable connector. 3,744,011, 7-3-73, Cl. 339-177.00r.

Blanchet, Lucien, to Air LB. Waterproof electrical connector. 3,725,852, 4-3-73, Cl. 339-198.00j.

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Blanchi, Torreno, to S.A.I.P. (S.p.A.). Fluid-dynamic press for the cold forming of sheet metal. 3,751,956, 8-14-73, Cl. 72-57.000.

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Blanck, Charles M. Drawing lead sharpener. 3,776,286, 12-4-73, Cl. 144-28.500.

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Bland, Aubrey M.; and Zimmermann, Vincent H., to McDonnell Douglas Corporation. Propulsion system control. 3,739,580, 6-19-73, Cl. 60-204.000.

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Bland, Marshall Richard, to Purex Corporation, Ltd. Filtration system for phosphatizing baths. 3,773,178, 11-20-73, Cl. 210-136.000.

Blandford, Kenneth George. Method of providing a terminal on an electric storage battery. 3,736,191, 5-29-73, Cl. 136-135.00s.

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Guastella, Samuel L.; and Larrivee, Jerry J., Jr., 3,723,169.

Blaney, Ted L., to Procter & Gamble Company, The. Method of separating fatty acids. 3,755,389, 8-28-73, Cl. 260-419.000.

Blangis, Jacques: *See—*
Le Cheualier, Pierre; and Blangis, Jacques, 3,724,321.

Blanie, Jean Marie Michel Paul; and Demange, Jean Marie Rene. Rheoplethysmographic device and method of operation. 3,742,936, 7-3-73, Cl. 128-1.10z.

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Blank, Izhak, to Hydrophilics International, Inc. Chemical composition for viscosity control and film forming materials. 3,728,314, 4-17-73, Cl. 260-80.800.

Blank, Izhak, to Hydrophilics International, Inc. Optical contact lenses and related devices. 3,728,317, 4-17-73, Cl. 260-86.10r.

Blank, Kurt, to Saint-Gobain. Quick release safety windshield. 3,762,981, 10-2-73, Cl. 161-40.000.

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Awe, Russell C.; Burton, James C.; and Blank, Thomas G., 3,731,732.

Blank, Werner Josef: *See—*
Parekh, Girish Girdhar; and Blank, Werner Josef, 3,719,627.
Parekh, Girish Girdhar; and Blank, Werner Josef, 3,723,374.

Blank, Werner Josef, to American Cyanamid Company. Rubbery polymeric mixtures comprising a maleinized type oil. 3,719,623, 3-6-73, Cl. 260-23.0ar.

Blank, Werner Josef, to American Cyanamid Company. Copolymerization of C C a-olefin and acrylic acid or methacrylic acid. 3,755,272, 8-28-73, Cl. 260-80.780.

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Blank, William J., to International Telephone and Telegraph Corporation. Fail-safe thermostatic mixing valve. 3,768,728, 10-30-73, Cl. 236-12.00r.

Blankemeyer, Daniel E.: *See—*
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Blankenhorn, Charles F.; and Felmann, Ted S., to Shell Oil Company. Bactericidal mixture of sulfite salt and surfactant quaternary ammonium salt. 3,766,063, 10-16-73, Cl. 252-8.55d.

Blankenhorn Display, Inc.: *See—*
Blankenhorn, Siegfried C., 3,711,977.

Blankenhorn, Siegfried C., to Blankenhorn Display, Inc. Dimensional display flagger. 3,711,977, 1-23-73, Cl. 40-124.100.

Blankenship, Milton O. Poultry handling system. 3,741,417, 6-26-73, Cl. 214-314.000.

Blankenstein, Paul: *See—*
Dane, Ivo; Fromandi, Guido; Blankenstein, Paul; Muller, Erwin; Freytag, Helmut; and Wother, Wolfgang, 3,751,331.

Blankenzee, Johan: *See—*
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Blanksma, Lew: *See—*
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Blanton, Colectra E., Jr. Board game apparatus. 3,717,341, 2-20-73, Cl. 273-1.00r.

Blanton, Grover, to Steer Safe, Inc. Wheel stabilizer. 3,721,455, 3-20-73, Cl. 280-94.000.

Blanyer, Carl G., to Abex Corporation. Railway wheel sensor. 3,721,821, 3-20-73, Cl. 246-249.000.

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Blanyer, Carl G., to Abex Corporation. Speed detection method and apparatus. 3,750,019, 7-31-73, Cl. 324-178.000.

Blanyer, Carl G., to Abex Corporation. Frequency deviation monitor. 3,755,734, 8-28-73, Cl. 324-782.000.

Blanz, John H.: *See—*
Menzin, Marvin; Blanz, John H.; Harvey, Andrew C.; and Rhee, San Soon, 3,752,619.
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Blanzy, Eugene J.; and Duperow, Donald E., to Lincoln Brass Works, Inc. Borner structure. 3,738,577, 6-12-73, Cl. 239-568.000.

Blardinelli, Albert J.: *See—*
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Blary, Auguste, to Societe Anonyme Francaise Eternit. Apparatus for the production of asbestos-cement pipes. 3,723,245, 3-27-73, Cl. 162-284.000.

Blasbalg, Herman L., to International Business Machines Corporation. Switching circuits employing orthogonal and quasi-othogonal pseudo-random code sequences. 3,715,508, 2-6-73, Cl. 179-15.0bc.

Blasbalg, Herman L., to International Business Machines Corporation. Synchronization device for anti-jamming communications system. 3,731,198, 5-1-73, Cl. 325-42.000.

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Blasch, Earl B.; Klingaman, Richard M.; and Page, Daniel M., to United States of America, Army, mesne. Compacted and sintered powder mass having a discrete cavity in the mass and method of forming. 3,734,723, 5-22-73, Cl. 75-214.000.

Blaschek, Otto. Intermittent movement for feeding film. 3,777,961, 12-11-73, Cl. 226-57.000.

Blaschke, Felix; and Haken, Klaus, to Siemens Aktiengesellschaft. Planar vector analyzer. 3,710,088, 1-9-73, Cl. 235-189.000.

Blaser, Don E., to Esso Research and Engineering Company. Integrated fluid coking-gasification process. 3,752,658, 8-14-73, Cl. 48-206.000.

Blaser, Harry, to Von Roll AG. Vibratory granulate compacting apparatus for block manufacture. 3,767,351, 10-23-73, Cl. 425-432.000.

Blaski, John F. Building construction. 3,768,218, 10-30-73, Cl. 52-81.000.

Blasnik, William. Rotary mixer. 3,744,767, 7-10-73, Cl. 259-117.000.

Blasnik, William. Multi-jet massager. 3,753,435, 8-21-73, Cl. 128-66.000.

Blass, David A., to Zenith Radio Corporation. Remote control system. 3,757,303, 9-4-73, Cl. 340-148.000.

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Blasse, George; and De Vries, Jaap, to U.S. Philips Corporation. Low-pressure mercury vapour discharge lamp. 3,748,516, 7-24-73, Cl. 313s109.000.

Blastmaster Company; a division of Tekobogy, Limited: *See—*
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Blaszuk, Paul R., to United Aircraft Corporation. Self stabilizing electrodes. 3,743,881, 7-3-73, Cl. 313-217.000.

Blate, Steven W.; Tschudy, Donald B.; Ross, Robert S.; Mellor, Fred W.; Kifor, Harry T.; and Davidson, William C., to Goodyear Aerospace Corporation. Inflated escape ramps. 3,726,375, 4-10-73, Cl. 193-25.00b.

Blatherwick, Delbert T., to Acti Products, Inc. Camera carriage precision positioning system. 3,739,479, 6-19-73, Cl. 33-125.000.

Blatherwick, Delbert T., to Acti Products Inc. Process camera alignment and exposure system. 3,740,138, 6-19-73, Cl. 355-73.000.

Blatt, James R.: *See—*
Soumerai, Henri; Hoody, Harold W., Jr.; Hamilton, Clark B.; and Blatt, James R., 3,708,959.

Blatt, Leland F. Dual grip actuating unit with travel cylinder assembly. 3,714,870, 2-6-73, Cl. 92-140.000.

Blatt, Leland F. Travel cylinder and gripper actuator with triple guide rods. 3,734,303, 5-22-73, Cl. 214-1.0bb.

Blatt, Leland F. Push/pull plunger clamp with take up for wear. 3,735,972, 5-29-73, Cl. 269-228.000.

Blatt, Leland F. Adjustable stroke retractor mechanism. 3,742,774, 7-3-73, Cl. 74-89.150.

Blatt, Leland Francis; and Wiesenhofer, Frank H. Gas exhaust silencer. 3,712,415, 1-23-73, Cl. 181-60.000.

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Tegt, Richard P.; Robertson, Douglas G.; and Blattel, Thomas V., 3,729,598.

Blattenberger, David E., to International Telephone and Telegraph Corporation. Preamplifier for music and voice. 3,761,832, 9-25-73, Cl. 330-30.00r.

Blatter, Albert, to Bendix Corporation, The. Diaphragm valve logic element. 3,767,161, 10-23-73, Cl. 251-61.100.

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Blatter, Herbert Morton: *See—*
Lucas, Robert Armistead; and Blatter, Herbert Morton, 3,719,678.
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Lucas, Robert Armistead; and Blatter, Herbert Morton, 3,772,291.
Mizzoni, Renat Herbert; and Blatter, Herbert Morton, 3,718,654.
Rosen, Melvin Harris; and Blatter, Herbert Morton, 3,729,487.

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Blattner, Hans: *See—*
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Blattner, Hans; and Schindler, Walter, to Ciba-Geigy Corporation. Derivatives of dibenzo (b,f) pyrrolo (3,4-d) azepine in compositions and a method for producing a C.N.S. repressant effect. 3,749,790, 7-31-73, Cl. 424-274.000.

Blattner, Hans; and Schindler, Walter; deceased (by Gysin, Leonhard; executor), to Ciba-Geigy Corporation. Derivatives of dibenzo (b,f) pyrrolo (3,4-d) azepine as CNS-depressants. 3,772,348, 11-13-73, Cl. 260-326.900.

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Blattner, Karl; and Picard, Roland, to Coradi, G., A.G. Photoelectric device for recording symbols and for drawing small diagrams at high recording and drawing speed for use in an automatic drafting machine. 3,721,164, 3-20-73, Cl. 95-1.00r.

Blatz, Robert A., to Handgards, Inc. Disposable probe cover and method for making same. 3,759,370, 9-18-73, Cl. 206-16.500.

Blau, Donald Z.: *See—*
Schwartz, Leonard; Blau, Donald Z.; and Chin, Edward, 3,721,988.
Stavis, Gus; Flower, Robert A.; and Blau, Donald Z., 3,773,422.

Blau, Donald Z.; and Kaufman, Jesse C., to Singer Company, The, mesne. Vector velocimeter. 3,737,233, 6-5-73, Cl. 356-28.000.

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Blau, Philip; and Zellner, Georg J. Apparatus for continuously measuring the temperature of molten metal. 3,763,704, 10-9-73, Cl. 73-359.000.

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Blau, Werner; and Gerdes, Theo. Two-part screw closure cover. 3,715,075, 2-6-73, Cl. 220-39.00r.

Blaublomme, Jean Pierre: *See—*
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Blauvelt, Everet M.: *See—*
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Blavos, Nicholas G.; Chi Lin, Kou; and Dobson, Le Roy E., to Westinghouse Electric Corporation. Electrical connector. 3,742,122, 6-26-73, Cl. 174-94.00r

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Blaw-Knox Construction Equipment Inc.: *See—*
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Blaw-Knox Food and Chemical Equipment, Inc.: *See—*
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Wright, Edward S.; and Angstadt, John W., 3,736,182.
Wright, Edward S.; Angstadt, John W.; and Kroiopp, Otto C., 3,776,382.

Blay, Jorge A., to Celanese Corporation. Thermal purification of terephthalic acid using a carboxylic acidic aromatic solvent. 3,717,674, 2-20-73, Cl. 260-525.000.

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Blayden, Lee C.; Brondyke, Kenneth J., and Spear, Robert E., to Aluminum Company of America. Process for treating molten aluminum. 3,737,304, 6-5-73, Cl. 75-68.00r.

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Blea, Cyril: *See—*
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Blea, Maxine R.: *See—*
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Bleba, William P., Jr.: *See—*
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Blecher, Stephen, to Honeywell Inc. Magazine. 3,764,206, 10-9-73, Cl. 353-21.000.

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Blechman, Robert M., to Pro-Tech, Inc. Fluid-operated sampler and flowmeter. 3,720,109, 3-13-73, Cl. 73-421.00b.

Blechman, Robert M., to Pro-Tech, Inc. Liquid sampling. 3,751,990, 8-14-73, Cl. 73-423.00r.

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Blecke, Ronald G.; and Hill, Robert W., to Gulf Research & Development Company. Process for copolymerization of maleic anhydride with 1-olefins. 3,729,451, 4-24-73, Cl. 260-78.500.

Blecken, William E., to Ingersoll-Rand Company. Transferential pin. 3,778,940, 12-18-73, Cl. 52-116.000.

Blecker, Joseph G. Mast for sailing vessels. 3,724,412, 4-3-73, Cl. 114-90.000.

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Bleckmann, Richard. Tubular heating element. 3,716,693, 2-13-73, Cl. 219-553.000.

Bledsoe, James O., Jr.; and Derfer, John M., to SCM Corporation. Hydrolyzed diels-alder adducts of ocimenol. 3,758,590, 9-11-73, Cl. 260-598.000.

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Blee, Timothy John; Hyde, Lawrence Edward; and Noddings, John, to Associated Engineering Limited. Systems for land vehicles. 3,759,344, 9-18-73, Cl. 180-105.00e.

Bleeker, Raymond A.: *See—*
Anderson, William C.; and Bleeker, Raymond A., 3,759,297.
Anderson, William C.; and Bleeker, Raymond A., 3,762,116.

Bleh, Otto: *See—*
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Bleiberg, Melvin L., to Atlantic Richfield Company, mesne. Method of inserting nuclear fuel rods in grid assembly. 3,757,403, 9-11-73, Cl. 29-424.000.

Bleicher, Manfred: *See—*
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Bleier, Gerhard: *See—*
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Bleil, Carl E.: *See—*
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Bleiweiss, Mark H., to Raytheon Company. Visual display system. 3,725,897, 4-3-73, Cl. 340-324.00a.

Blejean, Claude; Bourdoncle, Bernard; and Malmaison, Rueil, to Institut Francais du Petrole, des Carburants et Lubrifiants. Lubricating compositions. 3,764,534, 10-9-73, Cl. 252-42.700.

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Blenkarn, Kenneth A., to Amoco Production Company. Configurations for ice-resistant platforms. 3,745,777, 7-17-73, Cl. 61-46.000.

Blenkinsop, Ward, & Company Limited: *See—*
Green, Peter Nicholl; and Shapero, Maurice, 3,755,367.

Blesch, Robert; and Galton, Robert M., to Motorola, Inc. Battery connecting structure for portable device. 3,763,434, 10-2-73, Cl. 325-352.000.

Bleson, Eric John George; Furmidge, Kenneth Frederick; Stanyon, Horace Edward; and Speller, John Rueben Thomas, to Thorn Electrical Industries, Limited. Electric lamps and discharge devices. 3,778,663, 12-11-73, Cl. 313-318.000.

Blessing, Jacqueline M. Protective bonnet for animals. 3,753,334, 8-21-73, Cl. 54-80.000.

Blessinger, James E.: *See—*
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Blessings, Inc.: *See—*
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Bletcher, James H.; and Rauh, Jack K., 10% to Trust of Bletcher, Ralph E.; deceased, 5% to Robertson, Frederick, 5% to Robertson, Gary, 10% to Bucknell, Lenora, 10% to Bletcher, Richard, Liston, Marcia; as trustee for Liston, Daniel E. Liston, Carol A. Lison, James H.; 5% each, 10% to Brondum, Hazel, 10% to Bletcher, Pearl, 15% to Liston, Marcia and 10% to Bucknell, Ernest H. Combined aerator-spray assembly. 3,722,798, 3-27-73, Cl. 239-428.500.

Bletcher, Pearl: *See—*
Bletcher, James H.; and Rauh, Jack K., 3,722,798.
Bucknell, Ernest H.; Rauh, Jack K.; and Radecki, Tony, 3,739,806.

Bletcher, Ralph E.: *See—*
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Bletcher, Richard: *See—*
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Bletcher, Richard J.: *See—*
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Blets, Moos G. J.: *See—*
Mookherjee, Braja O.; and Blets, Moos G. J., 3,764,349.

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Blewitt, Donald D., to Westinghouse Electric Corporation. Current limiting fuse. 3,715,698, 2-6-73, Cl. 337-166.000.

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Bley, Frederick O., to Optical and Electronic Research, Inc. Laminator. 3,764,441, 10-9-73, Cl. 156-555.000.

Bley, William P.: *See—*
Blair, James M.; Sebring, Michael; Underwood, Warren H.; and Bley, William P., 3,754,302.

Bleyle, Merrill, to Grace, W. R., & Co. Acrylamide polymer and method of flocculating an aqueous suspension of solid particles therewith. 3,776,892, 12-4-73, Cl. 260-80.730.

Bleyle, Wilh., KG: *See—*
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Blezard, Robert C.; and Millard, William E., to Smithfield Fibers, Inc. Three-strand knitted yarn. 3,738,125, 6-12-73, Cl. 66-170.000.

Blezard, Robert C., to Smithfield Fibers, Inc. Yarn knitting machine. 3,748,874, 7-31-73, Cl. 66-86.000.

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Hingel, Fred J.; and Filipov, Alexander, 3,727,180.
Laimins, Eric, 3,712,123.
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Blick, Owe H. Moulding for suspension mounting and decoration purposes. 3,719,013, 3-6-73, Cl. 52-222.000.

Blickenderfer, Charles, Jr.; Erickson, Harold E.; and Clapp, Charles C., to Weyerhaeuser Company. Coating applicator. 3,762,366, 10-2-73, Cl. 118-262.000.

Blickens, Donald Arthur: *See—*
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Blickstein, Martin J.: *See—*
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Bliek, David C.; Snow, Kenneth A.; and Vandewarker, Richard, to Bausch & Lomb Incorporated. Interferometric apparatus. 3,764,216, 10-9-73, Cl. 356-106.000.

Blieske, Herbert: *See—*
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Bligh, Jack; and Silman, Kenneth Edward, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Rocket motors having angularly movable exhaust nozzles. 3,759,446, 9-18-73, Cl. 29-265.350.

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Blinkhorn, Harold L., to Lee, Raymond, Organization, Inc., The. Printed circuit boards with knockouts. 3,728,471, 4-17-73, Cl. 174-68.500.

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Blinne, David L.: *See—*
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Blinoff, William, Jr.; De Napoli, Robert A.; and Hart, Richard. Apparatus for heating or cooling a surface while simultaneously dispensing a liquid product thereon. 3,752,155, 8-14-73, Cl. 128-65.000.

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Bliss & Laughlin Industries, Incorporated: *See—*
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Bliss, Burtt E.: *See—*
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Bliss, George N., to Diamond International Corporation. Crack detector. 3,744,299, 7-10-73, Cl. 73-67.100.

Bliss, John W.: *See—*
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Bliss, Jon P. Rock picker. 3,739,855, 6-19-73, Cl. 171-63.000.

Bliss, Norman G.; and Wright, Robert T., to Mead Corporation, The. Process for producing low carbon silicomanganese. 3,768,997, 10-30-73, Cl. 75-10.00r.

Bliss, Norman Stanley: *See—*
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Bliss, Robert Thomas. Vasectomy prosthesis. 3,766,926, 10-23-73, Cl. 128-346.000.

Bliss, William W. Drying hanger assembly for woolen garments, and the like. 3,737,079, 6-5-73, Cl. 223-68.000.

Bliss, Woodrow E., Jr.: *See—*
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Bliss-Hill, Herbert Brian; and Tewsley, Eric William, to Stibbe Machinery Limited. Electronically controlled needle selection system for knitting machines. 3,733,855, 5-22-73, Cl. 66-50.00r.

Blitchington, Frank H., Jr., to Western Electric Company, Incorporated. Pattern sensing and positioning system. 3,749,830, 7-31-73, Cl. 128-6.800.

Blitz, Daniel, to Sanders Associates, Inc. Low data rate displays. 3,713,143, 1-23-73, Cl. 343-5.00r.

Blitzer, Frank: *See—*
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Bloch, Herman S., to Universal Oil Products Company. Dehydrogenation with a multicomponent catalyst. 3,761,531, 9-25-73, Cl. 260-668.00b.

Bloch, Martin, to Frequency Electronics, Inc. Contact heaters for quartz crystals in evacuated enclosures. 3,715,563, 2-6-73, Cl. 219-210.000.

Bloch, Michael; and Koebner, Adolph, to Rewo Chemische Fabrik G.m.b.H. Process for the preparation of quaternary imidazoline derivatives. 3,738,996, 6-12-73, Cl. 260-309.600.

Bloch, Paul, to La Telephonie Industrielle et Commercial Telic. Miniature electromagnetic relay. 3,711,801, 1-16-73, Cl. 335-196.000.

Blocher, Glen L. Crimping die arrangement. 3,731,518, 5-8-73, Cl. 72-402.000.

Blocher, Hans-Joachim: *See—*
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Blochl, Walter; and Oberbacher, Bonifaz, to Buss A.G. Process for the production of pure concentrated HF from impure fluosilicic acid. 3,773,907, 11-20-73, Cl. 423-484.000.

Blochlinger, Ernst: *See—*
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Blochlinger, Ernst, to Schweizerische Industrie-Gesellschaft. Single-directional track-guided vehicle. 3,777,670, 12-11-73, Cl. 104-246.000.

Block, Aleck, to Merit Abrasive Products, Inc., mesne. Rotary abrasive device. 3,747,285, 7-24-73, Cl. 51-358.000.

Block, Aleck, to Merit Abrasive Products, Inc. Mounting for abrasive disc. 3,765,130, 10-16-73, Cl. 51-378.000.

Block, Charles. Mechanical movement. 3,752,002, 8-14-73, Cl. 74-404.000.

Block, Donald P., to FMC Corporation. Windrowing machine. 3,762,140, 10-2-73, Cl. 56-328.00r.

Block Engineering Inc.: *See—*
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Block, Forest E.; and Peterson, Kenneth E. Precision boring machine. 3,730,029, 5-1-73, Cl. 82-12.000.

Block, Jacob; Shoup, Robert Donald; Laine, Norman Raymond; and Triggiani, Leonard Vincent, to Grace, W. R., & Co. Process for the formation of metal carbide and metal carbide plus carbon microspheres. 3,764,550, 10-9-73, Cl. 252-301.10r.

Block, Leo, to Raypak, Inc. Reverse osmosis cell with turbulator means. 3,768,660, 10-30-73, Cl. 210-321.000.

Block, Michael J.: *See—*
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Block, Philip L.; and Derdivanis, John P. Dental plaque disclosing agent. 3,723,613, 3-27-73, Cl. 424-7.000.

Block, William M.: *See—*
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Blodee, Leif. Stacking chair. 3,774,960, 11-27-73, Cl. 297-239.000.

Blodgett, Jerry A.: *See—*
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Blok, Petrus; and Viersma, Taco Jan. Double-acting servomotor. 3,777,621, 12-11-73, Cl. 91-431.000.

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Blom, Ingvar Gustav Axel; and Ivarsson, Paul Lennart, to Hoganas AB. Roller for operation under high temperatures. 3,763,533, 10-9-73, Cl. 29-132.000.

Blomberg, Folke Ivar; and Brynge, Per Gunnar. Exhaust silencer for internal combustion engines. 3,751,921, 8-14-73, Cl. 60-324.000.
Blomberg, Folke Ivar; and Tholander, Lars Helge Gootfrid, to Husqvarna Vapenfabriks Aktiebolag. Arrangement for automatically positioning a piston in an internal combustion engine. 3,762,387, 10-2-73, Cl. 123-179.00a.
Blomberg, Folke Ivar, to Husqvarna Vapenfabriks Aktiebolag. Vibrationless machine. 3,763,716, 10-9-73, Cl. 74-604.000.
Blomberg, Knut Hugo. Switching device for telephone instruments. 3,760,122, 9-18-73, Cl. 179-99.000.
Blomberg, Knut Hugo. Switching device for telephone instruments, adapted to alternately be used as lowspeaking and loudspeaking telephones. 3,772,472, 11-13-73, Cl. 179-100.001.
Blomberg, Maurits C., to North American Rockwell Corporation. Actuator mechanism for the folder of a printing press or the like. 3,765,671, 10-16-73, Cl. 270-71.000.
Blomberg, Peter Erik, to Aktiebolaget Electrolux. Tiltable air-cooled absorption refrigeration apparatus of the inert gas type. 3,760,602, 9-25-73, Cl. 62-490.000.
Blomberg, Peter Erik, to Aktiebolaget Electrolux. Tiltable air-cooled absorption refrigeration apparatus of the inert gas type. 3,775,996, 12-4-73, Cl. 62-490.000.
Blomberg, Theodore G. Disposable forceps. 3,738,366, 6-12-73, Cl. 128-354.000.
Blomberg, Theodore G. Inserter for intra-uterine contraceptive device. 3,763,856, 10-9-73, Cl. 128-127.000.
Blome, Eugene R.; and Fok, Samuel S. M., to Fairchild Camera and Instrument Corporation. Process for making hard surface transparent mask. 3,712,816, 1-23-73, Cl. 96-38.300.
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Blomgren, Oscar C., Jr.: *See—*
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Blomgren, Oscar C., Sr.; and Blomgren, Oscar C., Jr., 3,757,079.
Blomgren, Oscar C., Jr., to Inter-Probe, Inc. Method and apparatus for removing heat from within a vacuum and from within a mass. 3,735,175, 5-22-73, Cl. 313-60.000.
Blomgren, Oscar C., Sr.; and Blomgren, Oscar C., Jr., to Tuxco Corporation. Tire constrictor. 3,710,837, 1-16-73, Cl. 157-1.210.
Blomgren, Oscar C., Sr.; and Blomgren, Oscar C., Jr., to Tuxco Corporation. Airless hydraulic system supply. 3,716,171, 2-13-73, Cl. 222-396.000.
Blomgren, Oscar C., Sr.; and Blomgren, Oscar C., Jr., to Tuxco Corporation. Tire changing apparatus and method for handling run flat tires. 3,746,069, 7-17-73, Cl. 157-1.260.
Blomgren, Oscar C., Sr.; and Blomgren, Oscar C., Jr., to Inter-Probe, Inc. Method and apparatus for electric arc welding utilizing high voltage, low current electrostatic cooling. 3,757,079, 9-4-73, Cl. 219-137.000.
Blomley, Peter F., to Plessey Company Limited, The. Electrical amplifier arrangements. 3,711,781, 1-16-73, Cl. 330-15.000.
Blomovisi, Nils Verner: *See—*
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Blomquist, Ruben; and Blumquist, Herbert. Motorcycle carrier hoist for vehicle bumper. 3,754,672, 8-28-73, Cl. 214-450.000.
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Blomstedt, John W., to Honeywell Information Systems, Inc. Lamp housing assembly. 3,775,607, 11-27-73, Cl. 240-73.00r.
Blonde, Pierre, to Societe Anonyme dite: Orsymonde. Process for the production of lyophilized pharmaceutical compositions containing vitamin C. 3,767,807, 10-23-73, Cl. 424-280.000.
Blonde, Pierre. Process for the production of lyophilized effervescent pharmaceutical compositions. 3,772,430, 11-13-73, Cl. 424-44.000.
Blonde, Pierre. Process for the production of lyophilized liver extract. 3,778,510, 12-11-73, Cl. 424-106.000.
Blondeleau, Jacques; and Misseri, Marcel, to Regie Nationale des Usines Renault. Safety couplings for automotive steering columns. 3,752,007, 8-14-73, Cl. 74-492.000.
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Blonn, George W., Sr., to General Motors Corporation. Locomotive controller with throttle escapement. 3,710,055, 1-9-73, Cl. 200-153.00r.
Blonsky, Joseph E., to Westvaco Corporation. Weight-aligned grapple. 3,722,706, 3-27-73, Cl. 212-44.000.
Blood, Alden E.: *See—*
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Snapp, Thomas C., Jr.; and Blood, Alden E., 3,766,179.
Blood, Alden E.; and Vinyard, Herschel T., to Eastman Kodak Company. Oxidative dehydrogenation process for preparing unsaturated organic compounds. 3,716,576, 2-13-73, Cl. 260-486.00d.
Blood, Alden E.; and Statman, Max, to Eastman Kodak Company. Catalytic formation of double bonds. 3,770,812, 11-6-73, Cl. 260-486.00d.
Blood, Raymond; Strong, Colin Barry; and Pearson, Alan John, to William Cotton Limited. Straight bar knitting machines. 3,729,955, 5-1-73, Cl. 66-89.000.
Blood, Raymond; and Marriott, Eric Walter, to William Cotton Limited. Straight bar knitting machines. 3,740,973, 6-26-73, Cl. 66-88.000.
Bloodgood, John F.: *See—*
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Anger, Ernest G.; Richards, Giles J.; Bloodgood, John F.; and Geiger, Roy J., 3,775,654.
Bloom, Albert, to Industrial Dyestuff Company. Process for obtaining 2,4,7-trinitrofluorenone. 3,721,713, 3-20-73, Cl. 260-590.000.
Bloom, Carl, to Worthington Compressor and Engine International; division of Worthington Corporation. Centrifugal separator. 3,766,720, 10-23-73, Cl. 55-461.000.
Bloom, Delwin W., to Honeywell Information Systems, Inc. Source code comparator computer program. 3,711,863, 1-16-73, Cl. 444-1.000.
Bloom, Donald W., Sr. Apparatus for correcting printing errors. 3,717,975, 2-27-73, Cl. 355-78.000.
Bloom Engineering Company, Inc.: *See—*
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Bloom, Jerome E. Valve device for dental prosthesis. 3,750,287, 8-7-73, Cl. 32-3.000.
Bloom, John A., to Texas Instruments, Incorporated. Formation of refractory coatings on steel without loss of temper of steel. 3,772,058, 11-13-73, Cl. 117-62.000.
Bloom, Joseph Lewis, to Lucas, Joseph, (Industries) Limited. Fuel control apparatus for gas turbine engines. 3,745,767, 7-17-73, Cl. 60-39.28t.
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Bloom, Marshall E.; and Walz, David K., to Bio-Lab, Inc. Liquid treatment apparatus. 3,746,170, 7-17-73, Cl. 210-198.000.
Bloom, Martin S., to Imperial Chemical Industries Limited. Foam laminates. 3,725,191, 4-3-73, Cl. 161-160.000.
Bloom, Melvin S.; and Fico, Sally S., to Eastman Kodak Company. Direct-print process utilizing photosensitive polyacetylenic amine salts containing carboxylate moieties. 3,743,505, 7-3-73, Cl. 96-48.00r.
Bloom, Philip A.; Hussey, Stuart J.; and Evans, Lamar G., to United States of America, Interior. Recovery of molybdenite. 3,714,325, 1-30-73, Cl. 423-53.000.
Bloom, Quentin M. Galvanizing wire. 3,721,520, 3-20-73, Cl. 432-143.000.
Bloom, Ray A.: *See—*
Walz, Heinrich; and Bloom, Ray A., 3,741,753.
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Bloom, Stanely M.; and Garcia, Paulina H., to Polaroid Corporation. Photographic processes and products employing benzindole phthaleins as optical filter agents. 3,779,752, 12-18-73, Cl. 96-3.000.
Bloom, Stanley M.: *See—*
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Bloom, Stanley M.; and Farney, Leonard C., to Polaroid Corporation. Novel photographic products and processes utilizing multicolor additive screens whose filter units are formed of development-diffusible dyes. 3,709,693, 1-9-73, Cl. 96-118.000.
Bloom, Stanley M., to Polaroid Corporation. Sunglasses having novel plastic optical element for lenses. 3,724,934, 4-3-73, Cl. 351-44.000.
Bloom, Stanley M., to Polaroid Corporation. Azo compounds useful in photographic processes. 3,751,406, 8-7-73, Cl. 260-162.000.
Bloom, Stanley M.; Idelson, Elbert M.; Simon, Myron S.; and Waller, David P., to Polaroid Corporation. Photographic processes and products employing aminomethyl-substituted phenolic phthaleins as optical filter agents. 3,779,753, 12-18-73, Cl. 96-3.000.
Bloom, Stefan A. Insertable device package. 3,749,093, 7-31-73, Cl. 128-263.000.



Bloom, William M., to Allegheny Ludlum Industries, Inc. Method of annealing steel coils moving through a furnace. 3,756,868, 9-4-73, Cl. 148-112.000.
Bloom, William M., to Allegheny Ludlum Industries, Inc. Annealing furnace and method for its operation. 3,778,221, 12-11-73, Cl. 432-11.000.
Bloomer, Milton D.: *See—*
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Bloomfield, Jack, to British Railways Board. Support systems for the seated human body. 3,711,156, 1-16-73, Cl. 297-457.000.
Bloomfield, John, to Solartron Electronic Group Limited, The. Measurements with digital voltmeters. 3,710,248, 1-9-73, Cl. 324-99.00d.
Bloomfield, Roger D.; and Wirth, Gary J., to Uniflo Systems Company. Vortex thruster for fluid propelled objects. 3,718,096, 2-27-73, Cl. 104-155.000.
Bloomquist, Arnold Eugene: *See—*
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Bloomsburg, Marvin S.; and Nazzer, Don Barkley, to Canadian General Electric Company, Limited. Tower vapour feed system. 3,716,220, 2-13-73, Cl. 261-36.00r.
Bloomstein, Richard W. Signature and retrieval system. 3,718,908, 2-27-73, Cl. 340-149.00a.
Blore, William E.; Zivanovic, Srbislav V.; and Charest, Bernard, to United States of America, Air Force. Nanosecond pulse modulator. 3,735,146, 5-22-73, Cl. 307-106.000.
Blore, William E.; Zivanovic, Srbislav; and Charest, Bernard, to United States of America, Air Force. Stripline video pulse generator. 3,764,830, 10-9-73, Cl. 307-260.000.
Blose, James H.; and Talvalkar, Shashikant G., to National Cash Register Company, The. Heat sensitive record material. 3,746,675, 7-17-73, Cl. 260-23.0em.
Blose, Werner, to Schlegel Manufacturing Company, The. Pile covering. 3,736,759, 6-5-73, Cl. 61-54.000.
Blose, Werner, to Weill & Reineke G.m.b.H. Process for manufacturing large sheets of thermoplastic material from extruded strips joined together along their edges. 3,765,982, 10-16-73, Cl. 156-244.000.
Blossfeld, Lothar: *See—*
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Blossom, Frank M.; and Silberbauer, John, to Donnelley, Reuben H., Corporation, The. Collating and inserting machine control system. 3,732,664, 5-15-73, Cl. 53-57.000.
Blossom, Frank M. Labeling and feeding machine. 3,767,514, 10-23-73, Cl. 156-518.000.
Blough, William M., Jr.: *See—*
Van Koevering, Barry D.; Blough, William M., Jr.; Bunnell, Fred H.; McDowell, William B.; and McDowell, George E., 3,718,978.
Blouin, Louis, to Compteurs Schlumberger. Remote control receiver. 3,751,592, 8-7-73, Cl. 178-88.000.
Blount, Bobby J. Vehicle loading and storage system for wheeled containers. 3,752,336, 8-14-73, Cl. 214-75.00t.
Blount, Elmo M.; and Prueger, Nicolas J., to Mobil Oil Corporation. Well completion systems. 3,760,876, 9-25-73, Cl. 166-57.000.
Blount, Elmo M., to Mobil Oil Corporation. Well treating process using sacrificial plug. 3,768,563, 10-30-73, Cl. 166-291.000.
Blount, Frederick T.; Geller, Henry A.; Moore, Richard D.; Leung, Howard; Lewis, Scott C.; and Redmond, Joseph M., to International Business Machines Corporation. Resistor sensing bit switch. 3,736,573, 5-29-73, Cl. 340-173.00r.
Blount, Lester L.; and Hernandez, Armando C. Speculum. 3,769,968, 11-6-73, Cl. 128-17.000.
Blower, Bernard F. Strong box and fixed anchorage and means for interconnecting and locking them together. 3,741,132, 6-26-73, Cl. 109-52.000.
Blower, Howard E.: *See—*
Evans, Ralph E.; and Blower, Howard E., 3,714,786.
Blower, Warren A.; and Jerse, Emil P., to Sherwin-Williams Company, The. Vibrator for foundry molding and like machines. 3,718,318, 2-27-73, Cl. 259-1.000.
Blowers, Charles A.: *See—*
Petersen, Kenneth C.; and Blowers, Charles A., 3,752,780.
Blowers, William L.: *See—*
Bruning, Harry F., Jr.; and Blowers, William L., 3,714,569.
Bloxham, Alden T.; and Fischer, Harry C., to Kellogg-America, Inc. Heat exchanger for compressed air. 3,734,174, 5-22-73, Cl. 165-154.000.
Bloxham, Samuel Dawson; and Haigh, Robert Laird. Exercising apparatus for small children. 3,730,587, 5-1-73, Cl. 297-274.000.
Bloxsom, Daniel E.: *See—*
Rhodes, Barry V.; and Bloxsom, Daniel E., 3,709,026.
Blozis, Peter P., to Paltier Corporation, The. Pallet tiering frame interlock. 3,709,165, 1-9-73, Cl. 108-53.000.
Blubaugh, Robert L.; Ruckle, Robert A.; and Watts, Hubert J., to Continental Oil Company. Method and apparatus for optical alignment of industrial equipment. 3,755,905, 9-4-73, Cl. 33-286.000.
Blue Bird Body Company: *See—*
Rumph, Wilbur C.; and Ragan, William Leon, 3,722,303.
Blue Channel Corporation, The: *See—*
Spears, Dan S., 3,736,153.
Blue, John, Company; a division of Subscription Television, Inc.: *See—*
Johnston, Douglas, 3,741,679.
Bluemel, Oscar. Shock-proof packing container. 3,752,301, 8-14-73, Cl. 206-46.0fr.
Blues, Ernest Thomson: *See—*
Bryce-Smith, Derek; and Blues, Ernest Thomson, 3,726,687.
Bryce-Smith, Derek; and Blues, Ernest Thomson, 3,776,931.
Bryce-Smith, Derek; and Blues, Ernest Thomson, 3,781,317.
Bluestein, Bernard R.: *See—*
Isbitsky, Bernard, Jr.; Solomon, Jack M.; and Bluestein, Bernard R., 3,775,487.
Polanskyj, Bohdan S.; Solomon, Jack M.; Chisholm, Daniel R.; and Bluestein, Bernard R., 3,780,107.
Bluestein, Claire: *See—*
Clark, John R.; and Bluestein, Claire, 3,779,975.
Bluethman, Robert G.; and James, Randell L., to International Business Machines Corporation. Method of obtaining correspondence between memory and output. 3,772,655, 11-13-73, Cl. 340-172.500.
Blum, Alfred: *See—*
Milutin, Ivan Cutakoui; Bartell, Charles; and Blum, Alfred, 3,773,538.
Blum, Alvin S. Regional lung measuring device. 3,718,136, 2-27-73, Cl. 128-2.080.
Blum, Alvin S., to Ohio Nuclear, Inc. Mouthpiece and filtering system. 3,722,511, 3-27-73, Cl. 128-147.000.
Blum, Dieter: *See—*
Gaeth, Rudolf; Schmitt, Bernhard; and Blum, Dieter, 3,760,047.
Blum, Eduard, to Blum-Bau KG. Facade composite panel element. 3,750,355, 8-7-73, Cl. 52-309.000.
Blum, Jacques: *See—*
Berthet, Aristide; and Blum, Jacques, 3,773,218.
Blum, Josef, to Sorvall, Ivan, Inc. Means for stabilizing high speed rotors. 3,770,191, 11-6-73, Cl. 233-23.00a.
Blum, Josef, to Sorvall, Ivan, Inc. Mircotome. 3,771,405, 11-13-73, Cl. 83-714.000.
Blum, Joseph M.; and Shih, Kwang K. S., to International Business Machines Corporation. Open tube diffusion in III-V compounds. 3,764,414, 10-9-73, Cl. 148-189.000.
Blum, Marshall R. Dispenser apparatus for disposable carton. 3,721,370, 3-20-73, Cl. 222-385.000.
Blum, Paul, to Transnucleaire, Societe pour les Transports de l'Industrie Nucleaire. Package for the storage and transportation of radioactive substances containing both neutron and gamma radiation absorbing material. 3,727,060, 4-10-73, Cl. 250-108.00r.
Blum, Paul R., to Marine Swimming Pool Equipment Co. Swimming pool skimmer with demountable weir. 3,716,873, 2-20-73, Cl. 4-172.170.
Blum, Raymond T., to Bausch & Lomb Incorporated. Apparatus for and method of edge machining flexible contact lenses. 3,736,115, 5-29-73, Cl. 51-284.000.
Blum-Bau KG: *See—*
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Blumberg, Martin. Pill dispenser having clockwork for periodic dispensing. 3,722,739, 3-27-73, Cl. 221-3.000.
Blumbergs, Peter: *See—*
Ash, Arthur B.; Blumbergs, Peter; Markovac, Anica; and La Montagne, Maurice P., 3,753,997.
Ash, Arthur B.; Blumbergs, Peter; and Markovac, Anica, 3,763,148.
Steinberg, George M.; Lieske, Claire N.; Ash, Arthur B.; and Blumbergs, Peter, 3,729,558.
Blumcraft of Pittsburgh: *See—*
Horgan, William J., Jr., 3,722,029.
Horgan, William J., Jr., 3,741,595.
Horgan, William J., Jr., 3,765,198.
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Horgan, William J., Jr., 3,767,239.
Blume, Erich: *See—*
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Blume, Gerhard: *See—*
Strickrodt, Jorg; and Blume, Gerhard, 3,712,879.
Blume, Mike C. Combined sharpeners for knives and fish hooks and hook disgorger. 3,718,938, 3-6-73, Cl. 7-1.00h.
Blume, Roe C., to Du Pont de Nemours, E. I., and Company. Amide acetal initiated chloral polymerization process. 3,716,522, 2-13-73, Cl. 260-64.000.
Blumenfeld, Georg; Daum, Gerhard; and Richtzenhain, Hermann, to Dynamit Nobel Aktiengesellschaft. Ketonitriles and method for their production. 3,723,468, 3-27-73, Cl. 260-340.700.
Blumenfeld, S. Morry: *See—*
Redington, Rowland W.; and Blumenfeld, S. Morry, 3,755,015.
Blumenthal, Gunter; and Krohm, Reinhold, to Klockner-Werke AG. Conveyor trough for scraper-chain conveyors. 3,752,299, 8-14-73, Cl. 198-204.000.

Blumenthal, Jack H., to International Flavors & Fragrances Inc. Acyl-cyclododecene, acyl-cyclododecanes and a process for producing them. 3,754,036, 8-21-73, Cl. 260-586.00a.

Blumenthal, Jack L.; Carroll, David F.; and Ogren, John R., to United States of America, Atomic Energy Commission. Plasma arc sprayed modified alumina high emittance coatings for noble metals. 3,711,327, 1-16-73, Cl. 117-227.000.

Blumenthal, Jack L.; Ogren, John R.; and Appel, Marvin, to TRW Inc. Oxidation resistant refractory alloys. 3,713,901, 1-30-73, Cl. 148-6.300.

Blumenthal, Jack L.; and Guth, Eugene D., to TRW Inc. Method for the catalytic decomposition of monopropellant hydrazine. 3,732,694, 5-15-73, Cl. 60-218.000.

Blumenthal, Jack L.; Carroll, David F.; and Ogren, John R., to United States of America, Atomic Energy Commission. Plasma arc sprayed modified alumina high emittance coatings for noble metals. 3,751,295, 8-7-73, Cl. 117-227.000.

Blumenthal, John: *See—*
Brown, Arling Dix; and Blumenthal, John, 3,711,859.

Blumenthal, Warren B., to N L Industries, Inc. Zirconium tanning. 3,726,637, 4-10-73, Cl. 8-94.250.

Blumer, Armin, to Maschinenfabrik und Giesserei Netstal AG. Hydraulic control device for injection molding machine. 3,750,705, 8-7-73, Cl. 137-625.640.

Blumhardt, Harold. Swath treating apparatus. 3,731,468, 5-8-73, Cl. 56-1.000.

Blumquist, Herbert: *See—*
Blomquist, Ruben; and Blumquist, Herbert, 3,754,672.

Blumstein, Abraham; and Agoglia, Rocco, to Piccard, Lucien, Industries, Inc. Ear ornament with leaf spring having bifurcated ends soldered to respective ornament sections. 3,768,275, 10-30-73, Cl. 63-14.00d.

Blundell, Roger William: *See—*
Brewer, Thomas Howard; and Blundell, Roger William, 3,735,686.

Blundell, Thomas: *See—*
Colchester, John Edward; and Blundell, Thomas, 3,723,444.

Blunt, Harry W., to Hercules, Incorporated. Method of preparing small particles of a solid polymer. 3,772,252, 11-13-73, Cl. 260-75.00t.

Blunt, John Wilson: *See—*
Deluca, Hector F.; and Blunt, John Wilson, 3,772,361.

Bluntzer, Rene, to Ameco S.A. Gantry scraper. 3,754,633, 8-28-73, Cl. 198-36.000.

Blurton, Keith F.: *See—*
Oswin, Harry G.; and Blurton, Keith F., 3,776,832.

Blutt, John Robert; and Harvey, Andrew Cecil, to Vermont Marble Company. Can body expanding and flanging apparatus. 3,757,555, 9-11-73, Cl. 72-63.000.

Bly, Herbert Arthur. Spring clip retainer for can closure. 3,727,790, 4-17-73, Cl. 220-54.000.

Bly, Vincent T., to United States of America, Army. Large, two dimension, screen for converting an optical image projected on one side to an identical infrared image display on the other side. 3,735,137, 5-22-73, Cl. 250-83.3hp.

Blyer, Siegfried. Apparatus for shaping extrusion-moulded articles made of synthetic plastics material. 3,759,651, 9-18-73, Cl. 425-343.000.

Blyle, Merrill; and Mitchell, Charles T., Jr., to Grace, W. R., & Co. Slip agent composition for spiral-wound paper cans. 3,726,820, 4-10-73, Cl. 260-28.50r.

Blythe, Edward A.; Gelb, Allan S.; and La Velle, Donald L., to American Smelting and Refining Company. Copper base alloy. 3,764,306, 10-9-73, Cl. 75-157.500.

Blythe, Hugh M.: *See—*
Miller, Arthur F.; Shaw, Wilfrid G.; and Blythe, Hugh M., 3,746,657.

BMR Security Products Corporation, mesne: *See—*
Walters, Russell W., 3,711,894.

Boals, Wayne S. Automatic control system for water heaters. 3,754,563, 8-28-73, Cl. 137-94.000.

Board of Regents State of Florida: *See—*
Williams, David T., 3,756,721.

Board, Richard G. Game apparatus comprising superposable play selecting cards. 3,767,199, 10-23-73, Cl. 273-93.00c.

Board, Robert D.: *See—*
Kruger, William P.; Turner, Wilson R.; and Board, Robert D., 3,766,396.

Boardman, Charles R.; and Knutson, Carroll F., to CER Geonuclear Corporation. Explosive fracturing method. 3,777,815, 12-11-73, Cl. 166-247.000.

Boardman Company, The: *See—*
Frye, James A.; Morton, Ralph B.; and Vogler, Charles W., 3,780,675.

Boardman, John D., to Keymatch Computer Corporation. Method and apparatus for credit verification. 3,771,128, 11-6-73, Cl. 340-146.200.

Boari, Gianfranco: *See—*
Passino, Roberto; and Boari, Gianfranco, 3,728,248.

Boassy, Emil J., to Champion, Inc. Stair construction for plastic liner swimming pools. 3,744,198, 7-10-73, Cl. 52-184.000.

Boatner, Lynn A., to Advanced Technology Center, Inc. Bolometric detector utilizing electron paramagnetic resonance. 3,742,235, 6-26-73, Cl. 250-83.30h.

Boatright, Donald E., to Environs Development Inc. Centrifugal separator. 3,774,840, 11-27-73, Cl. 233-14.00r.

Boatright, William B., to United States of America, National Aeronautics and Space Administration. Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds. 3,731,528, 5-8-73, Cl. 73-147.000.

Boatwright, Daniel J.; and Hatcher, Lloyd T. Flush box for plug receptacles. 3,749,815, 7-31-73, Cl. 174-66.000.

Boatwright, John T., to Northeast Electronics Corporation. Digital analysis of electric wave signals. 3,735,263, 5-22-73, Cl. 324-186.000.

Boaz, Donald P. Silicate polymer vehicles for use in protective coatings and process of making. 3,730,746, 5-1-73, Cl. 106-287.0se.

Boba, Antonio, to Mohawk Exchange & Commissions, Inc. Marked breathing bag. 3,773,045, 11-20-73, Cl. 128-202.000.

Bobard, Emile, to Gilbert, Nathan. Straddle tractor including an improved tractor frame. 3,750,773, 8-7-73, Cl. 180-1.00f.

Bobard, Emile. Hydraulic jack arrangement for the steering mechanism of a vehicle. 3,765,697, 10-16-73, Cl. 280-95.00r.

Bobb, Paul D., to Armstrong Cork Company. Chair pack. 3,729,893, 5-1-73, Cl. 53-27.000.

Bobb, Paul D., to Armstrong Cork Company. Chair pack. 3,750,872, 8-7-73, Cl. 206-46.0fn.

Bobbin Monitor Corporation: *See—*
Mayer, Nathan; and Lanes, Stanley S., 3,747,547.

Bobbitt, Barton D. Matrix layout board for making multi-character film chips. 3,746,445, 7-17-73, Cl. 355-40.000.

Bobear, William J.: *See—*
Pfeifer, Charles W.; and Bobear, William J., 3,711,520.

Bobear, William J., to General Electric Company. Ablative coating compositions. 3,723,481, 3-27-73, Cl. 260-37.0sb.

Bobeck, Andrew Henry; and Fischer, Robert Frederick, to Bell Telephone Laboratories, Incorporated. Strip domain propagation arrangement. 3,710,356, 1-9-73, Cl. 340-174.0tf.

Bobeck, Andrew Henry, to Bell Telephone Laboratories, Incorporated. Magnetoresistance detector for single wall domains. 3,713,117, 1-23-73, Cl. 340-174.0eb.

Bobeck, Andrew Henry; Ciak, Frank John; and Strauss, Walter, to Bell Telephone Laboratories, Incorporated. Magnetoresistance detector for single wall magnetic domains. 3,713,120, 1-23-73, Cl. 340-174.0eb.

Bobeck, Andrew Henry, to Bell Telephone Laboratories, Incorporated. Single wall domain propagation arrangement. 3,714,640, 1-30-73, Cl. 340-174.0tf.

Bobeck, Andrew Henry; and Scovil, Henry Evelyn Derrick, to Bell Telephone Laboratories, Incorporated. Single wall domain arrangement including fine-grained, field access pattern. 3,723,716, 3-27-73, Cl. 235-176.000.

Bobeck, Andrew Henry, to Bell Telephone Laboratories, Incorporated. Single wall domain arrangement. 3,729,726, 4-24-73, Cl. 340-179.0tf.

Bobeck, Andrew Henry; Copeland, John Alexander, III; and Wolfe, Raymond, to Bell Telephone Laboratories, Incorporated. Single wall domain propagation arrangement. 3,778,788, 12-11-73, Cl. 340-174.0tf.

Bober, Thomas W.; Dagon, Thomas J.; and Slovonsky, Idalee. Destruction of EDTA by alkaline chlorination. 3,767,572, 10-23-73, Cl. 210-50.000.

Boberg, Hermann, to Bielefelder Haushaltsgeraete GmbH & Co. KG. Axle connection member for construction toys. 3,755,959, 9-4-73, Cl. 46-23.000.

Bobier, Wilfred S. Fluid device. 3,739,691, 6-19-73, Cl. 91-506.000.

Bobineau, Bernard: *See—*
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Bobinski, Jack; and Picard, Jean P., to United States of America, Army. Water-resistant consumable cartridge case. 3,770,563, 11-6-73, Cl. 161-162.000.

Bobkov, Alexandr Vasilievich: *See—*
Podkopaev, Boris Ivanovich; Bobkov, Alexandr Vasilievich; and Chervyakova, Ljudmila Dmitievna, 3,780,450.

Bobkowicz, Andrew: *See—*
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Bobkowicz, Emilian J.; and Bobkowicz, Andrew. Apparatus for forming fibertapes. 3,737,357, 6-5-73, Cl. 156-495.000.

Boblitz, Oliver W., to Safety Systems, Inc. Safety seat-belt and shoulder-belt retractors including a program metering electrical switch. 3,770,225, 11-6-73, Cl. 242-107.400.

Bobo, Jean-Claude; and Dubois, Andre, to Compagnie Generale d'Electricite. Cryogenic cable. 3,736,365, 5-29-73, Cl. 174-15.00c.

Boboltz, Charles E.; Zwald, Frederick K.; and Baldwin, Ralph B., to Oliver Machinery Company. Rotary cutter. 3,742,565, 7-3-73, Cl. 29-105.00r.





Boboltz, Charles E.; Zwald, Frederick K.; and Baldwin, Ralph B., to Oliver Machinery Company. Cutting tool holder. 3,776,289, 12-4-73, Cl. 144-230.000.

Boborykin, Jury Alexandrovich; and Kurkin, Jury Georgievich. Device for shearing metal sections. 3,739,962, 6-19-73, Cl. 225-102.000.

Bobrick Corporation, The: *See—*
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Bobrin, Marshall C., to United States of America, Navy. Feature recognition techniques. 3,737,842, 6-5-73, Cl. 340-4.00r.

Bobrov, Boris Sergeevich: *See—*
Kasulin, Vyacheslav Sergeevich; Bobrov, Boris Sergeevich; Super-Fainshtein, Naum Aronovich; Balabin, Evgeny Evgenievich; Egorov, Anatoly Maximovich; and Makarov, Leonid Viktorovich, 3,775,339.

Bobrow, Edwin N.; and Murdock, Lawrence A., to TRW Inc. Anti-jamming apparatus. 3,733,607, 5-15-73, Cl. 343-100.0pe.

Bobrowicz, Vincent F.; and Henegar, Hubert B., to Bendix Corporation, The. Proportional interpolator in multiaxis machines. 3,715,644, 2-6-73, Cl. 318-573.000.

Bobrowicz, Vincent F.; and Stevenson, John E., to Bendix Corporation, The. Method for preparing program medium for multiple controlled element machine. 3,739,157, 6-12-73, Cl. 235-151.110.

Bobrowski, Louis G.; and Suska, Charles R., to Stanley Works, The. Alarm bolt. 3,755,802, 8-28-73, Cl. 340-274.000.

Bobry, Stuart. Garment securer. 3,755,822, 9-4-73, Cl. 2-271.000.

Bobst Champlain, Inc.: *See—*
Spika, Wolfram, 3,713,648.

Bobst, Gerhard, to Von Roll AG. Axial piston hydraulic apparatus. 3,721,161, 3-20-73, Cl. 91-486.000.

Bobst, Gerhard, to Von Roll AG. Hydrostatic reversible drive. 3,735,590, 5-29-73, Cl. 60-468.000.

Bobst, J., & Fils, S.A.: *See—*
Bolliger, Edwin, 3,762,183.
Lale-Demoz, Roger, 3,770,175.
Salvade, Gennaro, 3,711,088.
Salvade, Gennaro, 3,715,116.

Boby, Gerald Eric: *See—*
Colliver, Harold Edward Sydney; Boby, Gerald Eric; and Farmer, Dennis Dewhurst, 3,743,438.

Bocceda, Franco. Device for making holes in pipes. 3,762,263, 10-2-73, Cl. 83-660.000.

Bochan, John, to General Electric Company. Additive dispensing system. 3,727,434, 4-17-73, Cl. 68-17.00r.

Bochan, John; Akers, Alvin; and Morey, Everett D., to General Electric Company. Additive dispensing system. 3,760,612, 9-25-73, Cl. 68-17.00r.

Bochard, Camille, to Robatel S.L.P.I. Container for radioactive materials having a heat releasable outer panel wall. 3,711,715, 1-16-73, Cl. 250-108.0ws.

Bochard, Camille, to Robatel S.L.P.I. Insulated container for radioactive and like substances. 3,780,309, 12-18-73, Cl. 250-507.000.

Bochicchio, Philip J., to United States of America, Army. Variable length rotor apparatus. 3,753,208, 8-14-73, Cl. 339-18.000.

Bochinski, Edmund J. Casket floral spray holder. 3,743,225, 7-3-73, Cl. 248-27.800.

Bochinski, Julius H.; Christe, Karl O.; Gunderloy, Frank C., Jr.; Pilipovich, Donald; and Wilson, Richard D., to North American Rockwell Corporation. Methods of using fluxes in joining metal surfaces. 3,707,762, 1-2-73, Cl. 29-494.000.

Bochinski, Julius H.; and Linkel, John E., to North American Rockwell Corporation. Hot gas fusion apparatus. 3,754,698, 8-28-73, Cl. 228-42.000.

Bochko, Anatoly Vasilievich: *See—*
Deryagin, Boris Vladimirovich; Bakul, Valentin Nikolaevich; Fedossey, Dmitry Valerianovich; Nikitin, Jury Ivanovich; Bochko, Anatoly Vasilievich; Ryabov, Vadim Alexandrovich; and Varnin, Valentin Pavlovich, 3,749,760.

Bochmann, Carl E.: *See—*
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Bochmann, Karlheinz, to Siemens Aktiengesellschaft. Apparatus for demodulation of phase difference modulated data. 3,739,289, 6-12-73, Cl. 329-104.000.

Bochory, Michael, to TRW Inc. Strain energy erectile tubular blam with stitched flanges. 3,749,133, 7-31-73, Cl. 138-119.000.

Bocian, Harvey; Hauptman, Neil L.; and Manik, George, to So-Mar Dental Studies, Inc. Dental restoration dowel positioner. 3,753,291, 8-21-73, Cl. 32-11.000.

Bock, Edward J., to Fitchburg, Johan Bjorksten. Method of static mixing to produce metal foam. 3,773,098, 11-20-73, Cl. 164-79.000.

Bock, Erwin; and Theml, Oskar, to Siemens Aktiengesellschaft. Method of producing magnetic core parts. 3,778,897, 12-18-73, Cl. 29-609.000.

Bock, Eugen: *See—*
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Bock, Eugen; and Dollhausen, Manfred, to Bayer Aktiengesellschaft. Process of preparing bonded materials using polyurethane adhesives which form bonds of immediate high strength. 3,718,518, 2-27-73, Cl. 156-242.000.

Bock, Gernot: *See—*
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Bock, Hartmut, to Kalle Aktiengesellschaft. Device for the production of a measuring signal or control signal. 3,780,299, 12-18-73, Cl. 250-209.000.

Bock, Helmuth-Joachim: *See—*
Gerke, Peter; Bock, Helmuth-Joachim; and Sennefelder, Anton, 3,723,660.
Gerke, Peter; Bock, Helmuth-Joachim; and Sennefelder, Anton, 3,739,101.

Bock, John W.; Feiertag, Orrin G.; and Sullivan, Raymond J., to General Electric Company. Diagnostic X-ray system. 3,708,664, 1-2-73, Cl. 250-61.600.

Bock, John W.; and Sivertsen, Marvin L., to General Electric Company. Diaphragm-type high speed spot film device. 3,735,130, 5-22-73, Cl. 250-66.000.

Bock, Ortwin: *See—*
Weissenborn, Dieter; Bock, Ortwin; and Werding, Norbert, 3,750,023.

Bock, Otto, Orthopadische Industrie KG, Firma: *See—*
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Bock, Richard W., to Demarest, John. Speaker support system. 3,747,880, 7-24-73, Cl. 248-361.00r.

Bock, Robert F. Locking envelope. 3,756,504, 9-4-73, Cl. 229-76.000.

Bock, Rudolf. Hydraulically actuated cutting machine for rods and the like. 3,733,699, 5-22-73, Cl. 30-180.000.

Bock, Rudolf. Arrangement for bending of bars of reinforcing steel mats. 3,774,434, 11-27-73, Cl. 72-306.000.

Bock, Willy: *See—*
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Schneider, Theodor; Bock, Willy; and Schubert, Karl-Friedrich, 3,733,913.

Bockelman, Harry C. Shaker board for bowling pinsetter. 3,751,036, 8-7-73, Cl. 273-43.00r.

Bockelman, William M.: *See—*
Mayo, Frederick W.; Spires, Billy G.; and Bockelman, William M., 3,776,689.

Bockelmann, Victor G., to United States of America, Navy. Load-controlled disreefing mechanism for parachutes. 3,726,500, 4-10-73, Cl. 244-152.000.

Bockelmann, Victor G., to United States of America, Navy. Air-venting parachute. 3,727,863, 4-17-73, Cl. 244-145.000.

Bockemuhl, Johannes, Firma: *See—*
Berchtold, Helmut; and Vollrath, Friedrich, 3,726,201.
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Bockenstette, Kenneth R., to Vanguard Industries, Inc. Molded plastic fastener. 3,779,374, 12-18-73, Cl. 206-56.0df.

Bockhaus, James A.: *See—*
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Bockholt, Karl H., to Oak Electro/Netics Corporation. Solid state control circuit for use in vending machines. 3,756,364, 9-4-73, Cl. 194-10.000.

Bockhorn, Henning; Fetting, Fritz; Herbertz, Hans-Adolf; and Galdo, Norberto, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process and device for the production of acetylene-ethylene mixtures. 3,741,736, 6-26-73, Cl. 48-113.000.

Bockly, Erich: *See—*
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Bockmann, Walter, to Bayer Aktiengesellschaft. Process for distilling benzyl chloride or mixtures containing benzyl chloride. 3,715,283, 2-6-73, Cl. 203-6.000.

Bocksruker, Ronald W., to TRW Inc. Linear displacement amplification device and deflection transducer embodying same. 3,731,548, 5-8-73, Cl. 74-96.000.

Bockstahler, Earl R., to Dow Chemical Company, The. Substituted phenylthioamidines. 3,775,478, 11-27-73, Cl. 260-564.00r.

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Bockstie, Lawrence G., Jr., to Corning Glass Works. Flame-proof protective coating for electrical film resistors. 3,776,741, 12-4-73, Cl. 106-15.0fp.
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Bockwoldt, Walter H., to Hughes Aircraft Company. System for controlling the target voltage of image sensors. 3,781,591, 12-25-73, Cl. 315-3.00c.
Bodanszky, Miklos; and Sheehan, John T., to Squibb, E. R., & Sons, Inc. Solid phase synthesis of peptides. 3,743,628, 7-3-73, Cl. 260-88.20s.
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Bodde, Egbert J. Two-position spare tire mounting assembly. 3,753,520, 8-21-73, Cl. 224-42.060.
Boddie, James Matthew. Shotgun shell primer rebuilder. 3,750,528, 8-7-73, Cl. 86-37.000.
Boddy, Michael Gordon; Sewell, Graham; and Sewall, Michael, to Electronic Control & Surveillance Limited. Lighting unit for use underwater and in wet environment. 3,780,328, 12-18-73, Cl. 313-184.000.
Bode, Charles H., Jr., to United States Steel Corporation. Apparatus for supporting and operating a slidable gate and extended tube nozzle on a bottom-pour vessel. 3,730,401, 5-1-73, Cl. 222-512.000.
Bode, Charles H., Jr.; and Wrhen, Wilmer C., to United States Steel Corporation. Idler roll mounting construction. 3,735,848, 5-29-73, Cl. 193-35.00r.
Bode, Charles H., Jr., to United States Steel Corporation. Quick disconnect side slide coupling. 3,756,633, 9-4-73, Cl. 287-103.00r.
Bode, Charles H., Jr., to United States Steel Corporation. Quick release mechanism for continuous casting mold support frame. 3,777,436, 12-11-73, Cl. 52-758.000.
Bode, Gerd B. Heated wiper blade. 3,718,940, 3-6-73, Cl. 15-250.060.
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Bodine, Albert G. Method for the sonic treating of food material. 3,743,523, 7-3-73, Cl. 99-217.000.
Bodine, Albert G. Sonic hand cultivator. 3,747,687, 7-24-73, Cl. 172-40.000.
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Boekkooi, Anton; Hurx, Ardianus Antonius; Van Der Tas, Johannes Cornelis; and Meulemans, Charles Cornelis, to U.S. Philips Corporation. Combustion flash bulb. 3,721,515, 3-20-73, Cl. 431-95.000.

Boel, Charles; Pot, Francois; and Sachot, Claude, to Houilleres du Bassin du Nord & du Pas-de-Calais. Multi-storey building comprising unit compartments. 3,721,052, 3-20-73, Cl. 52-79.000.

Boeler, Richard C., to Wagner Electric Corporation. Control valve. 3,737,602, 6-5-73, Cl. 200-82.00d.

Boeler, Richard C.; and Falk, Edward J., to Wagner Electric Corporation. Control valve and system. 3,768,869, 10-30-73, Cl. 303-6.00c.

Boenisch, John R.: *See—*
Figlin, Murray S.; and Boenisch, John R., 3,715,676.

Boenke, Clyde A.; Reimink, Ronald L.; and Jackson, James A., to KMS Industries, Inc. CATV audio interaction system. 3,752,908, 8-14-73, Cl. 178-5.600.

Boenning, Robert A.; and Nasuta, Anthony T., Jr., to Westinghouse Electric Corporation. Programmable light source. 3,760,174, 9-18-73, Cl. 240-1.00r.

Boensel, Donald W., to International Telephone and Telegraph Corporation. Composite digital logic microwave phase shifter. 3,721,922, 3-20-73, Cl. 333-24.100.

Boer, Dirk, to U.S. Philips Corporation. Signal processing arrangement for a colour television camera circuit. 3,737,561, 6-5-73, Cl. 178-5.40r.

Boerger, Frank E.; and White, William H., Jr., to International Business Machines Corporation. Flow control and monitoring system. 3,746,037, 7-17-73, Cl. 137-487.500.

Boers, Franklin J. Hydraulic grapple and shear. 3,766,952, 10-23-73, Cl. 144-34.00e.

Boersig, Harry R. Wheeled boat. 3,755,835, 9-4-73, Cl. 9-1.00t.

Boersma, Rintje; and Irik, Gijsbert Waldemar, to N.V. "COQ". Conductor arrangement for metal clad electric distributing and/or switching plants for high voltage. 3,712,953, 1-23-73, Cl. 174-99.00b.

Boersma, Rintje; and Irik, Gijsbert W., to N.V. COQ. Gas blast circuit-breakers having cooperating tubular contact pieces. 3,761,661, 9-25-73, Cl. 200-148.0bv.

Boes, Roger T. Automatic shut-off valve system. 3,747,618, 7-24-73, Cl. 137-80.000.

Boesch, Roger, to Rhone-Poulenc S.A. Substituted 3-[4-ureidophenyl]-1,3,4-oxadiazol-2-ones. 3,741,977, 6-26-73, Cl. 260-307.00a.

Boesch, William J., to Special Metals Corporation. Nickel base alloy. 3,748,192, 7-24-73, Cl. 148-32.500.

Boesel, Walter F., to Garrett Corporation, The. Dynamoelectric machine field structure and method for forming. 3,761,754, 9-25-73, Cl. 310-218.000.

Boesenberg, Heinz; Frensch, Heinz; and Lorenz, Harald, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for depolymerizing dicyclopentadiene. 3,772,396, 11-13-72, Cl. 260-666.00a.

Boesten, Wilhelmus H. J.: *See—*
Dahlmans, Johannes J.; and Boesten, Wilhelmus H. J., 3,740,386.

Boetller, Albert J.; Clarke, Allan M.; and Wheatley, Roger W., to Du Pont de Nemours, E. I., and Company. Recovery of spent sulfuric acid from chlorinated and nitrated benzoic acid derivatives. 3,749,648, 7-31-73, Cl. 203-41.000.

Boettcher, Alfred; and Nickel, Hubertus, to Kernforschungsanlage Julich Gesellschaft mit beschrankter Haftung. Method of producing fuel and/or breeder elements for nuclear reactors. 3,723,581, 3-27-73, Cl. 264-.500.

Boettcher, Stephen A.; Cesna, Joseph V.; and Dumentat, Raymond E., to Speedfam Corporation. Polishing machine load plate. 3,731,435, 5-8-73, Cl. 51-129.000.

Boettcher, Stephen A., to Speedfam Corporation. Method of finishing flat surfaces. 3,763,602, 10-9-73, Cl. 51-317.000.

Boettcher, William A. Flooring spacers. 3,735,497, 5-29-73, Cl. 33-180.00r.

Boettger, Harold E.: *See—*
Tilford, Albert R.; Boettger, Harold E.; and Yew, Ming-Chih, 3,720,424.

Boettner, George B.; and Spremulli, Paul F., to Corning Glass Works. Apparatus for melting thermoplastic material. 3,755,606, 8-28-73, Cl. 13-6.000.

Boffe, Maurice, to Glaverbel S.A. Apparatus for modifying a property of an article by diffusion. 3,730,871, 5-1-73, Cl. 204-245.000.

Bofferding, Richard H.; Mead, Frederick C.; and Hendershot, Richard L., to Zero Cold, Inc. Shelving system. 3,710,734, 1-16-73, Cl. 108-108.000.

Boffet, Andre; and Boffet, Pierre. Molding press for paste-like material. 3,762,852, 10-2-73, Cl. 425-330.000.

Boffet, Pierre: *See—*
Boffet, Andre; and Boffet, Pierre, 3,762,852.

Bofors (Great Britain) Company, Limited: *See—*
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Voyce, Terence Edward, 3,740,875.

Bogachenko, Alexei Georgievich: *See—*
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Bogachenko, Alexey Georgievich: *See—*
Medovar, Boris Izrailevich; Popov, Viktor Andreevich; Alferov, Jury Fedorovich; Bogachenko, Alexey Georgievich; and Latash, Jury Vadimovich, 3,709,997.
Paton, Boris Evgenievich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Ebedev, Vladimir Konstantinovich; Baglay, Vitaly Michailovich; Bondarenko, Oleg Petrovich; Sidorenko, Michail Nikolaevich; and Bogachenko, Alexey Georgievich, 3,765,471.

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Bogachev, Anatoly Vasilievich: *See—*
Sorokovsky, Vladislav Kazimirovich; Bogachev, Anatoly Vasilievich; and Kuznetsov, German Ivanovich, 3,740,899.

Bogachev, Vladimir Petrovich: *See—*





Nikolaev, Vasily Ilich; Eliseev, Alexandr Jurievich; Bogachev, Vladimir Petrovich; Prosvirin, Artem Petrovich; Konstantinopolsky, Vladimir Tonovich; and Belousov, Anatoly Nikolaevich, 3,735,912.

Bogaert, Pierre Emmanuel, to Vic Chemicals, Inc. Device for opening a skylight. 3,735,530, 5-29-73, Cl. 49-7.000.

Bogan, David B., to Bogan, David B., Corporation. Gear housing. 3,710,646, 1-16-73, Cl. 74-609.000.

Bogan, David B., Corporation: *See—*
Bogan, David B., 3,710,646.

Bogar, Earl M., Jr.; and Southern, Jack. Toe guard for walking cast, short leg cast and long leg cast. 3,773,041, 11-20-73, Cl. 128-83.500.

Bogard, Adrian E.; and DeValeria, Robert E., to Borg-Warner Corporation. Method of selectively electroplating thermoplastic substrates using a strippable coating mask. 3,772,161, 11-13-73, Cl. 204-15.000.

Bogard, James R.; and Boyles, Gordon W., to United States of America, Air Force. Normalized decorrelation detector. 3,772,703, 11-13-73, Cl. 343-100.0cl.

Bogardus, Rodger E., to Staley, A. E., Manufacturing Company. Stabilized liquid enzyme stain remover. 3,761,420, 9-25-73, Cl. 252-171.000.

Bogart, Harold N.; Hopwood, Norman W., Jr.; Pearson, Archie A.; and Whitacre, Foster E., to Ford Motor Company. Incremental construction of three-dimensional objects having premachined rod elements and method for forming the same. 3,722,257, 3-27-73, Cl. 7-475.000.

Bogart, Marcel J. P., to Fluor Corporation. Synthesis gas generation process. 3,743,488, 7-3-73, Cl. 48-214.000.

Bogart, Marcel J. P., to Fluor Corporation. Process for ammonia manufacture. 3,743,699, 7-3-73, Cl. 423-359.000.

Bogart, Marcel J. P.; Nielsen, Anders; Rostrup-Nielsen, Jens; and Wrisberg, Johannes, to Haldor Frederik Axel Topsoe and Fluor Corporation. Conversion of hydrocarbons. 3,766,278, 10-16-73, Cl. 260-683.00r.

Bogaut, Andree: *See—*
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Bogdan, Louis J.; and Culp, Jere S., to Kelsey-Hayes Company. Self leveling tractor seat. 3,713,617, 1-30-73, Cl. 248-371.000.

Bogdanov, Ivan G. Cultivation of lactobacillus bulgaricus to produce a ribonucleoproteid. 3,762,998, 10-2-73, Cl. 195-28.00n.

Bogdanov, Vladimir Grigorievich: *See—*
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Bogel, George F.: *See—*
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Boger, Henry W.: *See—*
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Boger, Klaus; Geng, Hellmuth R.; Gotze, Volkmar; and Hajdu, Johann, to International Business Machines Corporation. Device for address translation. 3,768,080, 10-23-73, Cl. 340-172.500.

Bogert, Ernest H., to General Electric Company. Electric circuit breaker with means for promoting current transfer to arcing contacts. 3,729,606, 4-24-73, Cl. 200-146.00r.

Bogert, Robert C.: *See—*
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Bogese, Stephen B., to Virginia Plastics Company. Braided cable cover removing machine. 3,720,973, 3-20-73, Cl. 15-88.000.

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Boggs, Beryl A., to Advex Corporation. Surface driven winder. 3,779,472, 12-18-73, Cl. 242-18.0dd.

Boggs, Beryl Aaron, to Allied Chemical Corporation. Screw jet pack for textile fibers. 3,759,010, 9-18-73, Cl. 53-24.000.

Boggs, Charles L.: *See—*
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Boggs, Jesse K., to Esso Research and Engineering Company. Selective tertiary alkylation of aromatic hydrocarbons. 3,739,039, 6-12-73, Cl. 260-611.00r.

Boggs, Jesse K., to Esso Research and Engineering Company. Tertiary alkylation of benzene at atomospheric pressure. 3,739,040, 6-12-73, Cl. 260-671.00p.

Boggs, Jesse K., to Esso Research and Engineering Company. Alkylation catalyst. 3,760,021, 9-18-73, Cl. 260-671.00p.

Boggs, Jesse K.; and Langer, Arthur W., Jr., to Esso Research and Engineering Company. Synthetic oils. 3,766,285, 10-16-73, Cl. 260-668.00r.

Boggs, Jesse K., to Esso Research and Engineering Company. Synthetic lube stocks. 3,767,577, 10-23-73, Cl. 252-59.000.

Boggs, Pamela P.: *See—*
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Boggs, Roger L.: *See—*
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Boggs, Roger L., to Caterpillar Tractor Company. Method of repairing and servicing lubricated track chains. 3,711,928, 1-23-73, Cl. 29-401.000.

Boggs, Roger L.; and Stedman, Robert N., to Caterpillar Tractor Company. Spacer means for cushioned track. 3,717,388, 2-20-73, Cl. 305-19.000.

Boggs, Roger L.; and Stedman, Robert N., to Caterpillar Tractor Company. Pitch adjustment means for track assemblies. 3,717,389, 2-20-73, Cl. 305-19.000.

Boggs, Roger L.; Balzer, David John; and Haslett, Glenn Melvin, to Caterpillar Tractor Company. Track pin with vented rubber plug. 3,762,778, 10-2-73, Cl. 305-14.000.

Boggs, Roger L., to Caterpillar Tractor Company. Track-over-tire driving arrangement. 3,776,291, 12-4-73, Cl. 152-182.000.

Boggs, Weldon C., to Food Research & Equipment Company. Solenoid-operated valve. 3,756,559, 9-4-73, Cl. 251-335.000.

Boggs, Wilburn A.; and Miller, Robert N., to Lockheed Aircraft Corporation. Elastomeric corrosion-inhibiting coating and sealing material. 3,730,937, 5-1-73, Cl. 260-37.00r.

Boghosian, Malcolm P., to Allergan Pharmaceuticals. Method of delivery of solution to skin having substantial amounts of hair thereon. 3,730,182, 5-1-73, Cl. 128-173.000.

Bogie, Nelson H. Land clearing machine. 3,754,603, 8-28-73, Cl. 172-45.000.

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Bognar, Lewis L., to Corning Glass Works. Compression sagging of sheet glass. 3,728,097, 4-17-73, Cl. 65-102.000.

Bognar, Lewis L., to Corning Glass Works. Forming vessels from green glass-ceramic sheets. 3,775,085, 11-27-73, Cl. 65-289.000.

Bogner, Gunther; and Schmidt, Fritz, to Siemens Aktiengesellschaft. Superconducting cable. 3,749,811, 7-31-73, Cl. 174-15.000.

Bogner, Richard D., to Ampex Corporation. Broadcast antenna assembly. 3,718,934, 2-27-73, Cl. 343-770.000.

Bogner, Richard D., to Ampex Corporation. Slot antenna array. 3,757,343, 9-4-73, Cl. 343-770.000.

Bogod, Ettie, mesne: *See—*
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Bogoljubov, Sergei Alexandrovich: *See—*
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Bogosh, Donald. Speedometer drives. 3,739,653, 6-19-73, Cl. 74-424.500.

Bogosian, Theodore Oscar, to Johns-Manville Corporation. Device for fencing and absorbing contaminating oil spills on water. 3,739,913, 6-19-73, Cl. 210-242.000.

Bogrets, German Nikolaevich; Bondar, Nikolai Pavlovich; Sizonenko, Grigory Alexandrovich; Minakov, Anatoly Gavrilovich; Barsukov, Mikhail Ivanovich; Mitkevich, Grigory Iosifovich; Dudkin, Vyacheslav Fedorovich; Teslya, Andrei Mikhailovich; and Kolomiets, Nkolai Emelyanovich. Shaped products from thermoplastic material. 3,740,207, 6-19-73, Cl. 65-67.000.

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Bogue, Joseph A. Closure assembly and emergency release locking mechanism therefor. 3,724,130, 4-3-73, Cl. 49-141.000.

Boguslaski, Robert Charles: *See—*
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Bogusz, Frank J. System for monitoring contaminants in liquids. 3,762,214, 10-2-73, Cl. 73-61.00r.

Bogyos, Frank S. Method of making cushioned spectacle frames. 3,744,888, 7-10-73, Cl. 351-178.000.

Bohac, Zdenek: *See—*
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Bohanec, August. Camera strap retractor. 3,741,092, 6-26-73, Cl. 95-86.000.

Bohannon, James P.; and McAfee, Loyd O., said Bohannon assor. to said McAfee, Loyd O. Automotive suspension ball joint checking method. 3,719,346, 3-6-73, Cl. 254-1.000.

Bohannon, Philip. Sectional convertible wig case. 3,728,003, 4-17-73, Cl. 312-285.000.

Bohannon, William D., Jr.; and Church, Hoye D., to Western Electric Company, Incorporated. Apparatus for automatically inserting components in a workpiece. 3,733,672, 5-22-73, Cl. 29-203.00b.

Bohannon, William D., Jr., to Western Electric Company, Incorporated. Dispensing control mechanism. 3,750,830, 8-7-73, Cl. 221-81.000.

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Bohemia Lumber Company, Incorporated: *See*—
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Bohlen, Harald; Engelke, Helmut; and Landrock, Jurgen, to International Business Machines Corporation. Methods of testing the continuity of an electrical conductor by use of an electron beam. 3,764,898, 10-9-73, Cl. 324-51.000.

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Bohler, Gerard M. Slideably adjustable auxiliary lift handle. 3,751,094, 8-7-73, Cl. 294-58.000.

Bohler, Walter, to Perkin-Elmer Corporation, The. Automatic gain calibration. 3,711,774, 1-16-73, Cl. 324-115.000.

Bohler, Walter, to Perkin-Elmer Corporation, The. Device for compensating a derived signal. 3,739,164, 6-12-73, Cl. 235-197.000.

Bohlinger, Arthur L.; and Miller, Richard H., to General Electric Company. Vacuum type circuit breaker. 3,751,617, 8-7-73, Cl. 200-144.00b.

Bohlman, Heino. Garden sprinkler hose. 3,727,845, 4-17-73, Cl. 239-534.000.

Bohlman, Ivan C. Tool to clean out vegetation from around sprinkler heads. 3,747,214, 7-24-73, Cl. 30-300.000.

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Bohmann, Otto Alwin Ludwig, to N.V. Rubberfabriek Vredestein. Overboot. 3,713,232, 1-30-73, Cl. 36-7.300.

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Bohme, Horst; and Ahrens, Kurt-Henning, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 5-Aryl-3H-1,2,4-dithiazoles and process for their manufacture. 3,718,659, 2-27-73, Cl. 260-302.00r.

Bohme, Rudolf Karl, to Aktiengesellschaft Adolph Saurer. Optical method and device for monitoring moving bodies. 3,768,912, 10-30-73, Cl. 356-199.000.

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Bohnen, David J. Pivot indicating golf practice mat. 3,717,349, 2-20-73, Cl. 273-186.00r.

Bohner, Hans; and Schmidt-Hatting, Wolfgang, to Swiss Aluminium Ltd. Electrolytic cells for the production of aluminum. 3,736,244, 5-29-73, Cl. 204-243.00r.

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Bohnlein, Friedrich; and Stollmann, Georg, to Idra-Pressen G.m.b.H. Method of controlling the connection of the multiplier on the pressure Foston of a multiple pressure casting machine. 3,766,964, 10-23-73, Cl. 164-120.000.

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Bohrer, Thomas Carl; Ecker, George Franklin; and Chen, David Hsiao Tsung, to Celanese Corporation. Hot stepwise drawing of polybenzimidazole strand material with independent free-wheeling idler rolls. 3,723,592, 3-27-73, Cl. 264-290.00r.

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Boichard, Jacques; Brossard, Bernard Pierre; Gay, Michel Louis Marie Joseph; and Janin, Raymond Marc Clement, to Rhone-Poulenc S.A. Process for the preparation of lactic acid. 3,715,394, 2-6-73, Cl. 260-535.00r.

Boie, Immo; Schulte, Walter; Pelz, Willibald; Krimm, Heinrich; Freitag, Dieter; and Nittel, Fritz, to Agfa-Gevaert Aktiengesellschaft. Light-sensitive silver halide color photographic material containing indazolone couplers. 3,770,447, 11-6-73, Cl. 96-100.00.

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Boiko, Viktor Sergeevich: *See*—
Balabaev, Georgy Matveevich; Boiko, Viktor Sergeevich; Malchenko, Viktor Matveevich; Misarenko, Stepan Nikolaevich; Tsitrin, Luvish Avrum-Abovich; Borzenko, Evgeny Ivanovich; and Golovko, Georgy Anatolievich, 3,751,933.

Boileau, Jacques, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Radial tire having interposed plies at tread reinforcement edges. 3,717,190, 2-20-73, Cl. 152-361.000.

Boillot, Jean R.: *See*—
Besson, Jean R.; and Boillot, Jean R., 3,722,258.

Boinick, Irlin. Selectable temperature mixing valve. 3,750,701, 8-7-73, Cl. 137-606.000.

Boirat, Robert; and Buissiere, Jean, to Compagnie Generale d'Automatisme. Incubator. 3,770,591, 11-6-73, Cl. 195-139.000.

Boise Cascade Corporation: *See*—
Bokovoy, Ronald D., 3,743,067.
Fienup, Wilbur G.; and Henderson, James R., 3,712,534.
McGregor, John C., 3,765,695.
Mead, Robert B., 3,758,130.
Zemanek, Rudolph, 3,764,005.

Boise Cascade Corporation, mesne: *See*—
Musgrave, Orly, 3,719,371.

Boisserand, Monique. Fluid distributor. 3,777,776, 12-11-73, Cl. 137-270.000.

Boissevain Manufactured Products Ltd.: *See*—
Ireland, Rainseford H., 3,727,009.

Boissevain, Matthew G.; and Kahlin, Erik B., to Measurex Corporation. Cable carrier with removable plastic links. 3,779,003, 12-18-73, Cl. 59-78.100.

Boissicat, Claude M. Dip handling apparatus. 3,727,757, 4-17-73, Cl. 209-73.000.

Boissier, Jacques R.; and Ratouis, Roger, to Societe Anonyme dite: Societe Industrielle pour la Fabrication des Antibiotiques (S.I.F.A.). 3-Tropanylidine derivatives of tricyclic compounds, their salts, and process of preparation. 3,725,415, 4-3-73, Cl. 260-292.000.

Boissier, Jacques Robert; and Ratouis, Roger, to Roussel-UCLAF. 6-Thiochroman-acetic-acid compounds. 3,714,190, 1-30-73, Cl. 260-327.0th.





Boissier, Jacques Robert; and Ratouis, Roger, to Societe Anonyme dite; Societe Industrielle pour la Fabrication des Antibiotiques (S.I.F.A.). 9-(1-Piperazinyl)-9,10-dihydro-9,10-et hanoanthracenes and their salts. 3,719,679, 3-6-73, Cl. 260-268.0pc.

Boissier, Jacques Robert; and Ratouis, Roger, to Societe Anonyme dite: Societe Industrielle pour la Fabrication des Antibiotiques (S.I.F.A.). Substituted 9,10-dihydro-9,10-ethano-9-anthrols and process for preparation. 3,742,070, 6-26-73, Cl. 260-615.00f.

Boissier, Jacques Robert; and Ratouis, Roger Robert Etienne Eugene, to Societe Anonyme dite: Roussel-UCLAF. Diammonium salts and process for preparation. 3,769,346, 10-30-73, Cl. 260-567.60p.

Boissier, Lucien Albert; and Barge, Jean Joseph. Torsion bar suspension system. 3,737,173, 6-5-73, Cl. 280-104.50r.

Boissin, Jean, to Pneumatiques, Caoutchouc Manufacture et Plastiques Kleber-Colombes. Variable diameter pulley. 3,709,051, 1-9-73, Cl. 74-230.17m.

Boissin, Jean-Claude, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Cryogenic gas trap. 3,712,074, 1-23-73, Cl. 62-55.500.

Boissin, Jean-Claude; and Thibault, Jean-Jacques, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Method of and apparatus for cryopumping gas. 3,769,806, 11-6-73, Cl. 62-55.500.

Boissonnas, Roger: *See*—
Pless, Janos; Guttmann, Stephan; and Boissonnas, Roger, 3,761,459.
Pless, Janos; Guttmann, Stephan; and Boissonnas, Roger, 3,761,460.
Pless, Janos; Guttmann, Stephan; and Boissonnas, Roger, 3,761,461.

Boissonneault, Maurice L.: *See*—
Emmons, Robert J.; and Boissonneault, Maurice L., 3,768,159.

Boisvert, Albert E. Apparatus for extracting crab meat. 3,777,332, 12-11-73, Cl. 17-71.000.

Boisvert, Conrad J., Jr.; and Mandia, Anthony L., to Cogar Corporation. Apparatus for determining partial memory chip categories. 3,758,759, 9-11-73, Cl. 235-135.0ac.

Boita, Mibai, to Institutul de Cercetari Energetice Industriale si Proiectari Utilaje Energetice. Method of and apparatus for electronically simulating the operating characteristics of a fuel-injection system and for designing same. 3,760,173, 9-18-73, Cl.235-184.000.

Boivin, Jean L.; and Tremblay, Meude, to Canada, Her Majesty the Queen in right of, as represented by the Minister of National Defence. Hydroxy-terminated polybutadienes. 3,758,426, 9-11-73, Cl. 260-18.05n.

Boivin, Joseph J. R.: *See*—
Hamilton, Douglas D.; Boivin, Joseph J. R.; and Benedetto, Domenico, 3,732,904.
Hamilton, Douglas D.; Boivin, Joseph J. R.; and Benedetto, Domenico, 3,763,905.
Zchavi, Samuel; Boivin, Joseph J. R.; Hamilton, Douglas D.; and Ranzenhofer, Raoul, 3,724,518.

Boivin, Louis Philippe, to Bell Canada-Northern Electric Research, Limited. Coupling of lasers to optical fibres. 3,774,987, 11-27-73, Cl. 350-96.0wg.

Boivin, Louis-Philipp: *See*—
Kosman, Karel Jan Williams; Boivin, Louis-Philipp; and Fefer, Dennis, 3,746,853.

Boixader, Daniel, to Colgate-Palmolive Company, mesne. Detergent washing composition. 3,746,646, 7-17-73, Cl. 252-95.000.

Bojas, Edward J.: *See*—
Keith, Errol W.; Watson, Jack; and Bojas, Edward J., 3,727,402.

Bok, Cornelis, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid, Handel en Verkeer. Method for manufacturing linen yarn, and linen yarn obtained by application of this method. 3,716,981, 2-20-73, Cl. 57-39.000.

Bok, Edward. Pen with improved ventilation for its ink reservoir. 3,744,923, 7-10-73, Cl. 401-265.000.

Bok, Lowell D.: *See*—
Warren, John H.; and Bok, Lowell D., 3,726,374.

Bok, Lowell D.; and Thrower, Arthur J., to Goodrich, B. F., Company, The. Friction disc member for brake or clutch. 3,746,139, 7-17-73, Cl. 192-107.00r.

Boke, Reinhard; Schmid, Alfred; and Wilke, Heinz, to Bosch, Robert, G.m.b.H. Apparatus for making coils for armatures of electrical machines or the like. 3,747,188, 7-24-73, Cl. 29-205.00c.

Bokerman, Gary N.: *See*—
Atwell, William H.; and Bokerman, Gary N., 3,746,732.
Atwell, William H.; and Bokerman, Gary N., 3,772,347.

Bokov, Vladimir Mikhailovich: *See*—
Skachko, Jury Nikolaevich; Moshkin, Venedikt Feofanovich; Garkaljuk, Rodimir Ivanovich; Popov, Nikolai Vladimirovich; Polukhin, Valery Vasilievich; Korshunov, Igor Illarionovich; Bokov, Vladimir Mikhailovich; and Skorudsky, Boris Pavlovich, 3,721,793.

Bokovoy, Ronald D., to Boise Cascade Corporation. Reversible overrunning clutch with automatic shift control. 3,743,067, 7-3-73, Cl. 192-43.000.

Bokros, Jack C., to United States of America, Atomic Energy Commission. Carbon-silicon coating alloys for improved irradiation stability. 3,764,469, 10-9-73, Cl. 176-67.000.

Boktys, Algimantas K.: *See*—
Schelke, John T.; and Boktys, Algimantas K., 3,762,398.

Bokum Tool Company, Inc.: *See*—
Heuser, Helmut C., 3,731,562.

Bokutomi, Seiorio, to Asahi Kogaku Kogyo Kabushiki Kaisha. Error preventing means for flash synchronized photography. 3,752,048, 8-14-73, Cl. 95-11.50r.

Bol, Arie; van Ginkel, Johannes; van der Schoot, Adrianus Henricus Maria; and Swaanen, Petrus Henricus, to U.S. Philips Corporation. Method of manufacturing a multiple magnetic head. 3,768,154, 10-30-73, Cl. 29-603.000.

Boland, Bernard W., to Motorola, Inc. Amorphous silicon film as a UV filter. 3,743,847, 7-3-73, Cl. 250-510.000.

Bolante, Jay J.: *See*—
Hoday, Steven F.; and Bolante, Jay J., 3,738,328.

Bolash, Philip: *See*—
Hogan, Patrick J.; and Bolash, Philip, 3,711,106.

Bolasny, Robert E., to Research Corporation. Method and apparatus for generating ions and controlling electrostatic potentials. 3,711,743, 1-16-73, Cl. 317-3.000.

Bold, John; and Scribens, John, to National Research Development Corporation. De-soiling apparatus. 3,768,283, 10-30-73, Cl. 68-205.00r.

Boldan, John. Drain cleaners. 3,722,008, 3-27-73, Cl. 4-255.000.

Boldebuck, Edith M., to General Electric Company. Method for making polyamide acid salts and products derived therefrom. 3,737,478, 6-5-73, Cl. 260-780.00a.

Boldebuck, Edith M., to General Electric Company. Method for improving the shelf life of polyamide acid dispersions for electrodeposition. 3,767,550, 10-23-73, Cl. 204-181.000.

Bolden, Arthur L. Gripping and starting tool. 3,756,096, 9-4-73, Cl. 81-13.000.

Bolden, Thomas O.: *See*—
Hines, Robin H.; Hollinshead, William L.; and Bolden, Thomas O., 3,753,126.
Hines, Rubin H.; Hollinshead, William L.; and Bolden, Thomas O., 3,778,159.

Boldt, Clarence A., Jr.: *See*—
Hiser, Lelend L.; Boldt, Clarence A., Jr.; Tarazi, David S.; and Saenz, Oscar, Jr., 3,773,469.

Boldt, Glen R. Engine safety system having safety assembly identifiably operable for each combustion chamber. 3,760,781, 9-25-73, Cl. 123-148.00s.

Boldt, Manfred; Arpe, Hans-Jurgen; and Hornig, Lothar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of substituted phenyl esters and optionally substituted phenols. 3,725,462, 4-3-73, Cl. 260-479.00r

Bolduc, Lee R., to Medical Plastics, Inc. Plate electrode. 3,720,209, 3-13-73, Cl. 128-2.06e.

Bolduc, Lee R., to Medtronic, Inc. Body tissue electrode and device for screwing the electrode into body tissue. 3,737,579, 6-5-73, Cl. 128-418.000.

Bole, Hamilton B., to American Optical Corporation. Lens frangibility testing apparatus. 3,724,260, 4-3-73, Cl. 73-12.000.

Bole, Hamilton B.; and Chace, Howard E., to American Optical Corporation. Apparatus for heat treating lenses. 3,765,861, 10-16-73, Cl. 65-162.000.

Boleky, Edward Joseph, III, to RCA Corporation. Fabrication of semiconductor devices. 3,745,647, 7-17-73, Cl. 29-571.000.

Boleky, Edward Joseph, III; and Scott, Joseph Hurlong, Jr., to RCA Corporation. Fabrication of semiconductor devices. 3,749,614, 7-31-73, Cl. 148-188.000.

Bolen, Gerhard N.; Gelin, Robert J.; and Haggerty, William N., to Owens-Corning Fiberglas Corporation. Method for producing a fibrous bundle with a tracer and product thereof. 3,732,140, 5-8-73, Cl. 161-175.000.

Boler, Jan B.: *See*—
Folkers, Karl; Boler, Jan B.; and Chang, Jaw-Kang, 3,753,969.

Boler, Leonard J.: *See*—
Cherne, Lloyd G.; Boler, Leonard J.; and Matthews, Ernest E., 3,719,353.

Boler, Leonard J.; Hanssen, Nels S.; Beaulieu, Bryan J.; Cherne, Lloyd G.; and Halvorson, Halvor O., to Cherne Industrial, Inc. Liquid aerating rotor assembly. 3,759,495, 9-18-73, Cl. 261-92.000.

Boler, Leonard J., to Cherne Industrial, Inc. Combination sewage treatment and cooling system. 3,760,946, 9-25-73, Cl. 210-152.000.

Boles, Ralph C., Jr.: *See*—
Long, Raymond E.; and Boles, Ralph C., Jr., 3,778,578.

Bolex International SA: *See*—
Heiniger, Wilfred; and Lepinay, Gerard, 3,781,098.
Kruszynski, Stanislaw, 3,781,618.
Odone, Giovanni, 3,743,396.

Thevenaz, Louis, 3,751,148.
Boley, Eugene C. Apparatus for detarnishing silver. 3,775,279, 11-27-73, Cl. 204-242.000.
Boley, Robert A.: *See—*
Abnett, Albert C.; and Boley, Robert A., 3,750,010.
Abnett, Albert C.; and Boley, Robert A., 3,768,004.
Bolgep, Bernard J.: *See—*
O'Sullivan, Denis J.; and Bolgep, Bernard J., 3,736,260.
Bolger, John G., Jr., to Digilux Corporation. Arc printing of characters. 3,758,749, 9-11-73, Cl. 219-216.000.
Bolger, Thomas V., to RCA Corporation. Color television recorder-reproducer system. 3,716,663, 2-13-73, Cl. 178-5.4ac.
Bolgert, Edwin F.: *See—*
Povalski, Eugene A.; and Bolgert, Edwin F., 3,724,480.
Bolgert, Edwin F.; and Weeden, Eugene O., to Kohler Co. Whirlpool attachment for tubs. 3,742,521, 7-3-73, Cl. 4-180.000.
Bolhuis, John R., to General Motors Corporation. Method of determining the surface area of an irregular shape. 3,755,659, 8-28-73, Cl. 235-151.300.
Bolick, Fred C., Jr.; and Godwin, James B., III, to Lanier Electronic Laboratory, Inc. Electrical condition control device for a transcribing machine. 3,758,726, 9-11-73, Cl. 179-100.10r.
Bolick, Fred C., Jr., to Lanier Electronic Laboratory, Inc. Apparatus for supporting an index member. 3,771,164, 11-6-73, Cl. 346-134.000.
Bolick, Ranse G., to United States of America, Navy. Integral propellant case ramjet projectile. 3,726,219, 4-10-73, Cl. 102-38.000.
Boliden Aktiebolag: *See—*
Lindstrom, Nils Folke, 3,753,877.
Lindstrom, Nils Folke Rune, 3,755,111.
Lundquist, Sven Anders, 3,744,992.
Bolie, Victor W. Signal vector recognition system. 3,727,193, 4-10-73, Cl. 340-172.500.
Bolie, Victor W. Video pattern recognition system. 3,732,366, 5-8-73, Cl. 178-6.800.
Bolin, Nils Johan Mauritz. Boiler. 3,732,848, 5-15-73, Cl. 122-14.000.
Bolin, Stephen Ray: *See—*
Cullen, Glenn Wherry; Bolin, Stephen Ray; Morrison, Andrew David; and Wang, Chih Chun, 3,736,158.
Bolin, Stephen Ray, to RCA Corporation. Modified Czochralski grown spinel substrate by solid state diffusion. 3,740,261, 6-19-73, Cl. 117-107.20p.
Boling, Eldon A.: *See—*
Blackmer, David E.; and Boling, Eldon A., 3,765,237.
Bolinger, Donald B. Wick holding attachment for candle molds. 3,721,419, 3-20-73, Cl. 249-93.000.
Bolinger, John F.; and Kolster, Wilhelm K.; deceased (by Kolster, Christel E., executrix), to Meridian Industries, Inc. Flasher circuit with outage indication. 3,735,196, 5-22-73, Cl. 315-200.00a.
Bolinger, John F., to Meridian Industries, Inc. Flasher circuit. 3,771,019, 11-6-73, Cl. 315-200.00a.
Bolk, Willem Thomas, to Nederlandse Optiek-en Instrumentenfabriek Dr. C.E. Bleeker N.V. Calibrating voltage generator. 3,766,401, 10-16-73, Cl. 307-43.000.
Bolkhontseva, Sofia Konstantinovna: *See—*
Nikolsky, Boris Petrovich; Shults, Mikhail Mikhailovich; Pisarevsky, Alexandr Moiseevich; Beljustin, Anatoly Alexandrovich; Bolkhontseva, Sofia Konstantinovna; Dolidze, Vladimir Alexandrovich; Tarasova, Valentina Mikhailovna; Karachentseva, Julia Mikhailova; and Dolmazova, Liana Iosifovna, 3,773,642.
Bolkow Gesellschaft mit beschrankter Haftung: *See—*
Held, Manfred; and Spies, Johann, 3,732,823.
Kranz, Walter, 3,770,226.
Munding, German, 3,772,885.
Peters, Johannes, 3,733,552.
Schmidt, Gunther; Theiss, Armin; Dederra, Carl-Helmut; and Kaiser, Leonnard, 3,729,793.
Schoneborn, Hellmuth, 3,746,288.
Boll, Dietmar: *See—*
Reis, Walter; Pfenning, Helmut; and Boll, Dietmar, 3,779,067.
Boll, Harry Joseph. Sensory substitution system. 3,766,311, 10-16-73, Cl. 178-6.000.
Boll, Harry Joseph; Heightley, John Donnell; Koo, James Teh-Zen; Lynch, William Thomas; Nelson, James Thomas; Bard, Richard; Waaben, Sigurd Gunther; and Waggener, Herbert Atkin, to Bell Telephone Laboratories, Incorporated. IGFET memory system. 3,771,147, 1-6-73, Cl. 340-173.00r.
Bollag, Werner; Gutmann, Hugo; Hegedus, Balthasar; Kaiser, Ado; Langemann, Albert; Muller, Marcel; and Zeller, Paul, to Hoffmann-La Roche Inc. Certain benzylhydrazino derivatives of lower-alkyl substituted ureas. 3,711,543, 1-16-73, Cl. 260-553.00a.
Bollag, Werner; Rigassi, Norbert; and Schwieter, Ulrich, to Hoffmann-La Roche Inc. Polyene compounds. 3,781,314, 12-25-73, Cl. 260-410.900.
Bollard, David Rooksby, to Pye Limited. Doppler speed meter. 3,761,925, 9-25-73, Cl. 343-8.000.
Bollbach, James E.; and Moss, Jerome A., to Moss, Jerome A., mesne. Sign, greeting card, display or like visual article. 3,742,632, 7-3-73, Cl. 40-128.000.
Bollen, Romain Henri: *See—*
De Belder, Maurice Hector; Bollen, Romain Henri; Stievenart, Emile Frans; and Thiels, Albert Frans, 3,726,034.
Boller, William A. Bomb recovery and shield apparatus. 3,721,201, 3-20-73, Cl. 109-49.500.
Bolles, Milton M., to Deering Milliken Research Corporation. Apparatus for the production of non-woven net fabrics. 3,728,195, 4-17-73, Cl. 156-441.000.
Bolles, Theodore F., to Minnesota Mining and Manufacturing Company. Capsules and process for forming capsules. 3,779,942, 12-18-73, Cl. 252-316.000.
Bolliand, Robert; and Saligny, Claude, to Societe Rhodiaceta. Apparatus to produce a plane padding web. 3,737,950, 6-12-73, Cl. 19-65.00t.
Bollig, Georg: *See—*
Scholz, Heinrich; Bollig, Georg; Grothe, Horst; and Otto, Gerhard, 3,757,848.
Bollig, Georg; Zeller, Josef; and Simons, Willi, to Schloemann Aktiengesellschaft. Continuous casting machine. 3,730,255, 5-1-73, Cl. 164-274.000.
Bolliger, Andre, to Aktiengesellschaft Brown, Boveri & Cie. Semiconductor disc having tapered edge recess filled with insulation compound and upstanding cylindrical insulating ring embedded in compound to increase avalanche breakdown voltage. 3,725,750, 43-73, Cl. 317-234.00r.
Bolliger, Edwin, to Bobst, J., & Fils, S.A. Safety device coupling. 3,762,183, 10-2-73, Cl. 64-29.000.
Bolliger, Fritz, to Greiner Electronic AG. Method and apparatus for testing timepieces. 3,756,066, 9-4-73, Cl. 73-6.000.
Bolliger, Martin, to Prolizenz AG. Machine with horizontally or inclined disposed caterpillar mold for the downward casting of non-ferrous metals. 3,709,281, 1-9-73, Cl. 164-153.000.
Bolling, Gustaf F.: *See—*
Cole, Gerald S.; and Bolling, Gustaf F., 3,741,279.
Bolling, Robert W., Jr.; McCall, Frank S.; and Rawl, Henry J., to Union Camp Corporation. Container. 3,733,024, 5-15-73, Cl. 229-55.000.
Bollinger, Edward R., Jr.: *See—*
Abarotin, Eugene V.; Bollinger, Edward R., Jr.; and Nicely, Thomas E., 3,718,064.
Abarotin, Eugene V.; and Bollinger, Edward R., Jr., 3,769,704.
Abarotin, Eugene V.; and Bollinger, Edward R., Jr., 3,781,663.
Bollinger, Frederick W.: *See—*
Conn, John B.; and Bollinger, Frederick W., 3,759,987.
Bollinger, Frederick W., to Merck & Co., Inc. Resolution of DL-α-methylphenylalanine. 3,758,559, 9-11-73, Cl. 260-518.00r.
Bollinger, Luther L., Sr., to Hennessy Products, Incorporated. Plug door control mechanism. 3,720,020, 3-13-73, Cl. 49-362.000.
Bollman, Robert L.: *See—*
Wagers, William D., Jr.; Vandenberg, Willard J.; Bollman, Robert L.; Ramsey, Robert E.; Swisher, Daniel G.; and Taylor, John E., Jr., 3,756,402.
Bollmann, Helmut: *See—*
Kuhl, Adolf; Huber, Hans Dieter; and Bollmann, Helmut, 3,760,497.
Bollmeier, Allen F., Jr.: *See—*
Mason, George W.; Bollmeier, Allen F., Jr.; and Peppard, Donald F., 3,743,696.
Peppard, Donald F.; Mason, George W.; Bollmeier, Allen F., Jr.; and Lewey, Sonia, 3,745,205.
Bollsterling, Manfred: *See—*
Schuhknecht, Wolfgang; and Bollsterling, Manfred, 3,736,059.
Bollyky, Joseph, to Pollution Control Industries, Inc. Liquid cooled ozone generator. 3,766,051, 10-16-73, Cl. 204-321.000.
Bollyky, Laszlo Joseph, to American Cyanamid Company. Generation of light from the decomposition of dioxetaneones in the presence of a fluorescer. 3,720,622, 3-13-73, Cl. 252-188.300.
Bollyky, Laszlo Joseph, to American Cyanamid Company. High intensity chemiluminescent system with weakly basic salt-type catalyst. 3,775,336, 11-27-73, Cl. 252-188.3cl.
Bollyky, Laszlo Joseph, to American Cyanamid Company. Electronegatively substituted carboxyphenyl oxalates as superior chemiluminescent materials. 3,781,329, 12-25-73, Cl. 260-479.00s.
Bolmer, Perce W.: *See—*
Murphy, James M.; and Bolmer, Perce W., 3,714,792.
Bolmgren, Lester N., to Honeywell Inc. Thyristor head-firing circuit. 3,743,861, 7-3-73, Cl. 307-252.00b.
Bolomier, Elisabeth: *See—*
Bolomier, Jacques; Bolomier, Elisabeth; and Bolomier, Jean-Pierre, 3,719,795.
Bolomier, Jacques; Bolomier, Elisabeth; and Bolomier, Jean-Pierre. Electric steam generator. 3,719,795, 3-6-73, Cl. 219-272.000.
Bolomier, Jean-Pierre: *See—*
Bolomier, Jacques; Bolomier, Elisabeth; and Bolomier, Jean-Pierre, 3,719,795.
Bolsen, Lars: *See—*
Madsen, Curt; Johansen, Bent Georg; and Bolsen, Lars, 3,766,930.



Bolster, Gene A.; and Mathes, Alva F., to Eastman Kodak Company. Method and apparatus for chopping a plurality of articles and depositing the articles in complementary article receptors. 3,708,860, 1-9-73, Cl. 29-430.000.
Bolt Associates, Inc.: *See—*
Chelminski, Stephen V., 3,707,848.
Chelminski, Stephen V., 3,714,789.
Chelminski, Stephen V., 3,721,095.
Chelminski, Stephen V., 3,750,609.
Chelminski, Stephen V., 3,779,335.
Bolt, Beranek and Newman, Inc.: *See—*
Hayden, Richard Earle; and Chanaud, Robert Charles, 3,779,338.
Ver, Istvan L.; and Kurze, Ulrich J., 3,738,448.
Bolt, Durk Jan; and Reitsma, Jogchum, to U.S. Philips Corporation. Coded decimal divider with pre-conditioning of division. 3,735,107, 5-22-73, Cl. 235-159.000.
Bolt, Durk Jan; and Reitsma, Jogchum, to U.S. Philips Corporation. Coded decimal non-restoring divider. 3,735,108, 5-22-73, Cl. 235-159.000.
Bolt, Murray H.; and Uberbachek, Edward C., to International Business Machines Corporation. Directional coupler switch wherein stripline ground conductor is moved relative to stripline coupling conductors. 3,747,027, 7-17-73, Cl. 333-7.000.
Bolte, Herbert; Wittmer, Paul; Heil, Eduard; and Willersinn, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Manufacture of copolymers of styrene and- methylstyrene. 3,725,506, 4-3-73, Cl. 260-88.20c.
Bolte, Robert A.: *See—*
Von Hoevel, Edmund H.; and Bolte, Robert A., 3,748,850.
Bolter, John Reginald, to Reyrolle Parsons Limited. Turbines. 3,738,770, 6-12-73, Cl. 415-121.00a.
Bolter, John Reginald; and Kirby, Harry Ashley, to Reyrolle Parsons Limited. Steam turbines. 3,754,836, 8-28-73, Cl. 415-136.000.
Bolton, Andrew; Philpott, Peter John; and Scoats, Horace William, to Lever Brothers Company. Method of frying. 3,708,311, 1-2-73, Cl. 99-100.00p.
Bolton, Benjamin A.: *See—*
Serres, Carl, Jr.; and Bolton, Benjamin A., 3,778,417.
Bolton, Charles D. Porse hanger. 3,773,288, 11-20-73, Cl. 248-226.00r.
Bolton, Douglas R., to Cadaco, Inc. Magnetic game structure. 3,734,502, 5-22-73, Cl. 273-95.00r.
Bolton, Hugh Robert: *See—*
Eastham, John Frederick; and Bolton, Hugh Robert, 3,770,995.
Bolton, Joseph A., III; and Le Blanc, Peter Edmund, to Bird Machine Company, Inc. Screening machine. 3,726,401, 4-10-73, Cl. 209-240.000.
Bolton, Percy J.: *See—*
Marston, James W.; and Bolton, Percy J., 3,729,813.
Bolton-Emerson Inc.: *See—*
Danforth, Donald W., 3,733,888.
Boltrek, Henry: *See—*
Taher, Mohammed Amin El; Balogh, Erno; and Boltrek, Henry, 3,779,360.
Boltrek, Henry; Hill, Menno E.; Kraft, Joseph K.; and Schirmer, Ernest J. Handrail guide system for passenger conveyor. 3,712,447, 1-23-73, Cl. 198-16.000.
Boltze, Karl-Heinz; and Lorenz, Dietrich, to Troponwerke Dinklage & Co. N-Ethyl-N-[1-(m-trifluoromethylphenyl)-propyl-(2)]-carbamic acid ethyl ester. 3,769,319, 10-30-73, Cl. 260-471.00c.
Bolum, Donald R., to A-T-O Inc., mesne. High contrast filter for visual displays down-converting otherwise blocked radiation. 3,736,050, 5-29-73, Cl. 350-316.000.
Bolus, Daniel; Lerouge, Claude Paul Henri; and Regnier, Marc Andre, to International Standard Electric Corporation. Transcoder for data exchanges between a delta modulation system and a PCM system. 3,750,144, 7-31-73, Cl. 340-347.0dd.
Bolyos, Imre. Furniture frame construction. 3,726,561, 4-10-73, Cl. 297-440.000.
Bolyos, Imre. Pedestal system for tables, bookshelves, shop furnishings and the like. 3,758,181, 9-11-73, Cl. 312-107.000.
Bolz, Gerhard: *See—*
Osieka, Hans; Koenig, Karl-Heinz; Bolz, Gerhard; and Amann, August, 3,751,425.
Bolza Schunemann, Hans-Bernhard; and Litchtblau, Heinrich, to Schnellpressenfabrik Koenig & Bauer Aktiengesellschaft. Device for webbing a rotary printing press. 3,761,001, 9-25-73, Cl. 226-92.000.
Bolza-Schunemann, Hans-Bernhard, to Schnellpressenfabrik Koenig & Bauer Aktiengesellschaft. Folder delivery of web-fed rotary printing presses. 3,762,697, 10-2-73, Cl. 270-6.000.
Bolza-Schunemann, Hans-Bernhard, to Schnellpressenfabrik Koenig & Bauer Aktiengesellschaft. Sheet-feeding device for printing presses. 3,764,128, 10-9-73, Cl. 271-51.000.
Bom, Cornelis Johannes Gerardus: *See—*
van der Lely, Ary; and Bom, Cornelis Johannes Gerardus, 3,765,491.
Van der Lely, Ary; and Bom, Cornelis Johannes Gerardus, 3,774,688.
Van der Lely, Ary; and Bom, Cornelis Johannes Gerardus, 3,774,689.
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Bom, Cornells Johannes Gerardus: *See—*
Van Der Lely, Ary; and Bom, Cornells Johannes Gerardus, 3,735,856.
Bom, Pieter Robert. Flash evaporator. 3,713,989, 1-30-73, Cl. 202-173.000.
Bomac Manufacturing Corporation: *See—*
McMillan, Allen, 3,709,391.
Bomar, Edward S.: *See—*
Tennery, Victor J.; Godfrey, Thomas G.; and Bomar, Edward S., 3,766,082.
Bomar, Russel Paul. Magazine holding a multiple number of screws to be used with an electric drill. 3,757,407, 9-11-73, Cl. 29-212.00r.
Bomar, Steve H., Jr.; Clem, Robert B.; and Buckelew, Richard L., to United States of America, Army. Process for preparing ferrite and garnet raw materials for microwave applications. 3,751,366, 8-7-73, Cl. 252-62.570.
Bomar, Troy W., Jr. Motor vehicle identification and speed control system. 3,720,911, 3-13-73, Cl. 340-52.00f.
Bomba, Andrew J.: *See—*
Bomba, Joseph A.; and Bomba, Andrew J., 3,777,421.
Bomba, Joseph A.; and Bomba, Andrew J. Lawn border. 3,777,421, 12-11-73, Cl. 47-33.000.
Bombardi, Aldo L. Automatic page turner. 3,732,773, 5-15-73, Cl. 84-491.000.
Bombardier, Emile, to Bombardier Limited. Wear blade for snowmobile skid suspension. 3,770,330, 11-6-73, Cl. 305-24.000.
Bombardier, Jacques: *See—*
Cote, Gilles Yvon; and Bombardier, Jacques, 3,733,107.
Bombardier, Jerome; and Perreault, Jules, to Bombardier Limited. Suspension for tracked vehicles. 3,756,667, 9-4-73, Cl. 305-24.000.
Bombardier, Jerome, to Bombardier Limited. Fuel tank air vent line. 3,774,803, 11-27-73, Cl. 220-85.000.
Bombardier Limited: *See—*
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Bombardier, Emile, 3,770,330.
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Bombassei, Sergio; and Bombassei, Albert, to Societa' S.n.c. OMDS-Officine Meccaniche di Sombreno, di Bombassei E Bredas. Support device of disc brake shoes. 3,756,353, 9-4-73, Cl. 188-72.300.
Bomberger, Arthur L., to National Bearings Company. Wheel-bearing assembly. 3,722,968, 3-27-73, Cl. 308-191.000.
Bomberger, Henry A., to Armstrong Cork Company. Flexible, intermediate temperature, mineral wool board. 3,779,862, 12-18-73, Cl. 162-152.000.
Bomberger, Howard B., Jr.; and Kessler, Harold D., to RMI Company. Apparatus for converting miscellaneous pieces of reactive metal to a usable form. 3,744,943, 7-10-73, Cl. 425-6.000.
Bomberger, Howard B., Jr., to RMI Company. Cathode sheet for electrodeposition and method of recovering electrodeposited metals. 3,779,872, 12-18-73, Cl. 204-12.000.
Bomeke, Josef, to Orenstein & Koppel Aktiengesellschaft. Leveling device for the adjustment of earth working implements. 3,772,804, 11-20-73, Cl. 37-103.000.
Bomford, Michael James; and Benjamin, John Stanwood, to International Nickel Company, Inc., The. Mechanically-alloyed aluminum-aluminum oxide. 3,740,210, 6-19-73, Cl. 75-.5ac.
Bomgaars, Galen D.; and Van Veldhuizen, Arlo B. Safety device for cables supporting electrical wires. 3,761,865, 9-25-73, Cl. 339-60.00r.
Bomko, Vasily Alexeevich; Revutsky, Evgeny Ivanovich; Rudiak, Boris Ivanovich; and Pipa, Anatoly Vasilievich. Method for the acceleration of ions in linear accelerators and a linear accelerator for the realization of this method. 3,710,163, 1-9-73, Cl. 31363.000.
Bomstein, Jacques, to Etablissements J. Berthelat et Fils. Transfer device. 3,710,961, 1-16-73, Cl. 214-38.000.
Bon, Charles K.; and Johnson, David R., to Dow Chemical Company, The. Low velocity burner for thermal expansion of particulate solids. 3,759,660, 9-18-73, Cl. 432-58.000.
Bonafiglia, Joseph C.; and Krieger, Harold. Hair pieces, wig and like products. 3,750,682, 8-7-73, Cl. 132-53.000.
Bonaldi, Giacomo M. Ventilating apparatus. 3,729,271, 4-24-73, Cl. 415-148.000.
Bonanno, Anthony J.: *See—*

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Bonanos, Peter: *See—*
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Bonati, Attilio, to Dott. Inverni & Della Beffa S.p.A. Aluminum salts of 3-acetyl-18β-glycyrrhetinic acid. 3,764,618, 10-9-73, Cl. 260-448.00r.

Bonatti, Mario: *See—*
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Bonaventura, Joseph J.; and Harshbarger, Raymond J., to Xerox Corporation. Corona generator. 3,764,866, 10-9-73, Cl. 317-262.00a.

Bonazoli, Robert P.; and Keenan, James P., to Sylvania Electric Products, Inc. Lamp assembly. 3,735,185, 5-22-73, Cl. 313-278.000.

Bonazoli, Robert P.; and Kirkhuff, Ellison H., to GTE Sylvania Incorporated. Control circuit for varying the intensity of flash lamps. 3,753,039, 8-14-73, Cl. 315-227.000.

Bonazoli, Robert P.; and Keenan, James P., to Sylvania Electric Products, Inc. Lamp assembly and method of making high silica lamps. 3,759,601, 9-18-73, Cl. 316-19.000.

Bonazoli, Robert P.; and Cosco, Robert J., to GTE Sylvania Incorporated. Xenon flash tube with internal reflector. 3,766,421, 10-16-73, Cl. 313-113.000.

Bonazoli, Robert P.; and Coggins, Donald I., to GTE Sylvania Incorporated. Airport runway approach and reference lighting system. 3,771,120, 11-6-73, Cl. 340-25.000.

Boncer, John J.: *See—*
Naidich, Herbert H.; and Boncer, John J., 3,753,032.

Boncorur, Marcel; Heintz, Louis; Langrand, Jean; and Lavaud, Michel, to Commissariat a l'Energie Atomique. Method and device for testing welds by optical spectrography. 3,712,736, 1-23-73, Cl. 356-74.000.

Bond, Alexander. Garment having armpit protection means. 3,744,056, 7-10-73, Cl. 2-54.000.

Bond, Alexander. Necktie with concealed pocket. 3,744,058, 7-10-73, Cl. 2-157.000.

Bond, Anthony John: *See—*
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Bond, David A., to Agbabian-Jacobson Associates. Locking device for an adjustable support system. 3,745,302, 7-10-73, Cl. 219-213.000.

Bond, David N.: *See—*
Anthony, Parme G.; and Bond, David N., 3,762,377.

Bond, Donald Spencer, to RCA Corporation. Apparatus and method for the automation navigation of a sailing vessel. 3,771,483, 11-13-73, Cl. 114-39.000.

Bond, Fred C., to Allis-Chalmers Corporation. Apparatus for and method of controlling feed of grinding media to a grinding mill. 3,773,268, 11-20-73, Cl. 241-30.000.

Bond, Helen I. Bait station for slugs, snails and the like. 3,772,820, 11-20-73, Cl. 43-131.000.

Bond, Howard Edward: *See—*
Mandle, Richard Max; and Bond, Howard Edward, 3,773,646.

Bond, James R., to Hoechst Fibers Incorporated. Electrostatic texturing process and apparatus therefor. 3,775,959, 12-4-73, Cl. 57-77.300.

Bond, John J. Spring attachment clip. 3,720,960, 3-20-73, Cl. 5-259.00r.

Bond, John W. Air venting device for a toilet. 3,740,771, 6-26-73, Cl. 4-215.000.

Bond, Robert Harold; and Bridges, Robert Owen, to Western Electric Company, Incorporated. Sealed contact switch testing apparatus utilizing Helmholtz coils. 3,771,048, 11-6-73, Cl. 324-28.0rs.

Bond, Scott R.: *See—*
Boyd, John A.; Bond, Scott R.; Elliott, Ralph K.; Gisolfi, John J.; and Merkin, Eugene, 3,741,107.

Bond Stores, Incorporated: *See—*
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Bond, William C.: *See—*
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Bond, William C., Jr.; and Wahlborg, Harold J., to Copolymer Rubber & Chemical Corporation. Alpha-olefin interpolymers formed with unsaturated organo silanes. 3,764,589, 10-9-73, Cl. 260-80.710.

Bond, William D.; and Paterson, Ray Wesley. Water-propelled pool purifying float. 3,758,276, 9-11-73, Cl. 23-267.00a.

Bondar, Nikolai Pavlovich: *See—*
Bogrets, German Nikolaevich; Bondar, Nikolai Pavlovich; Sizonenko, Grigory Alexandrovich; Minakov, Anatoly Gavrilovich; Barsukov, Mikhail Ivanovich; Mitkevich, Grigory Iosifovich; Dudkin, Vyacheslav Fedorovich; Teslya, Andrei Mikhailovich; and Kolomiets, Nkolai Emelyanovich, 3,740,207.

Bondarenko, Oleg Petrovich: *See—*
Medovar, Boris Izrailevich; Latash, Yury Vadimovich; Bondarenko, Oleg Petrovich; and Bogachenko, Alexsey Georgievich, 3,738,825.
Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Bondarenko, Oleg Petrovich; Baglai, Vitaly Mikhailovich; Sidorenko, Mikhail Nikolaevich; Leibenzon, Semen Abramovich; Kaganovsky, Gary Petrovih; Altgauzen, Andrei Pavlovich; Nikolsky, Leonid Evgenievich; Gorynina, Zoya Alexandrovna; Safronova, Ljudmila Andreevna; Katsevich, Leonid Savvich; Volokhonsky, Lev Avramovich; Nikulin, Alexandr Alexandrovich; Artemiev, Vladimir Dmitrievich; Edemsky, Vladmir Mikhailovich; and Voronin, Georgy Alexandrovich, 3,709,283.
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Paton, Boris Evgenievich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Ebedev, Vladimir Konstantinovich; Baglay, Vitaly Michailovich; Bondarenko, Oleg Petrovich; Sidorenko, Michail Nikolaevich; and Bogachenko, Alexey Georgievich, 3,765,471.
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Paton, Boris Evgenievich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Chekotilo, Leonty Vasilievich; Emelyanenko, July Georgievich; Us, Vasily Ivanovich; Baglai, Vitaly Mikhailovich; Martyn, Viktor Mikhailovich; Artamonov, Viktor Leonidovich; Bondrenko, Oleg Petrovich; Boiko, Georgy Alexandrovich; Tsikulenko, Anatoly Konstantinovich; Ivon, Vasily Vladimirovich; and Pavlov, Leonid Viktorovich, 3,776,294.

Bondarenko, Vitaly Tikhonovich; Markin, Jury Nikandrovich; Voronov, Nikolai Stefanovich; Sagiryants, Nikolai Magdygovich; Salnikov, Ivan Ivanovich; and Petrenko, Konstantin Pavlovich. Tube-coiling machine. 3,742,749, 7-3-73, Cl. 72-217.000.

Bondarev, Anatoly Ivanovich: *See—*
Melbard, Sergei Nikolaevich; Shakhnov, Anatoly Fedorovich; Gelman, Alexandr Shmulevich; Slepak, Moscowiezra Shmulevich; Oblasti, Malakhovka Moskovskoi; Vivsik, Svyatoslav Nikolaevich; Bondarev, Anatoly Ivanovich; Desyatskov, Leonid Pavlovich; and Morozov, ladimir Sergeevich, 3,748,431.

Bondhus, John M., to Rainbow Plastics, Inc. Casting bubble. 3,744,176, 7-10-73, Cl. 43-43.140.

Bondi, Herman H. Marble hanger for crypt front. 3,778,942, 12-18-73, Cl. 52-134.000.

Bondon, Lewis A.; and Haselman, Bruce B. Oceanographic vehicle and platform. 3,774,564, 11-27-73, Cl. 114-16.00r.

Bondonio, Ernesto. Automatic toilet installation. 3,735,429, 5-29-73, Cl. 4-213.000.

Bondowski, Frank M. Storm sash handler. 3,712,482, 1-23-73, Cl. 214-1.00r.

Bonds, James V.: *See—*
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Bond's Wear Pty. Limited: *See—*
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Lee, Harold Barry, 3,759,199.
Lee, Harold Barry, 3,777,683.

Bonds, Wilford D.: *See—*
Buchheim, Wayne J.; and Bonds, Wilford D., 3,756,974.

Bonduris, Angelo T., to Colgate-Palmolive Company. Pressurized dispenser having diaphragm enclosed skirted piston. 3,756,476, 9-4-73, Cl. 222-386.500.

Bone, Arnold R.: *See—*
Kinney, John E.; and Bone, Arnold R., 3,735,908.

Bone, Arnold R.; and Krohn, Ronald W., to Dennison Manufacturing Company. Fastener inserting machine. 3,734,375, 5-22-73, Cl. 227-67.000.

Bone, Arnold R., to Dennison Manufacturing Company. Apparatus for dispensing fasteners. 3,759,435, 9-18-73, Cl. 227-67.000.

Bone, David Charles, to British Aluminum Company, Limited, The. Heating of molten metal. 3,741,751, 6-26-73, Cl. 75-65.000.





Bone, Lee, III, to Atlantic Richfield Company. Drilling fluid treatment. 3,737,037, 6-5-73, Cl. 210-73.000.

Boncau, David F., to Phillips Petroleum Company. Production method. 3,779,315, 12-18-73, Cl. 166-268.000.

Boneck, Roger L. Window shade supports. 3,724,525, 4-3-73, Cl. 160-28.000.

Boner, Charles Paul: *See—*
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Bonet, Claude: *See—*
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Bonetti, Giovanni A.: *See—*
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Bonetti, Giovanni A.; Rosenthal, Rudolph; Kieras, Joseph A.; and Wise, William B., to Atlantic Richfield Company. Process for preparing hydrogen peroxide. 3,737,518, 6-5-73, Cl. 423-587.000.

Boney, William E.: *See—*
Barry, James D.; and Boney, William E., 3,781,713.

Bonfich, William; and Hoffman, James C., to Mobil Oil Corporation. Dual feed system for electrocoating bath. 3,723,275, 3-27-73, Cl. 204-181.000.

Bonfield, John H.: *See—*
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Bonfiglio, Guy P.; and Farris, Joseph P., to United States of America, Navy. Method of making epoxy tunnel structure for plated wire memories. 3,768,155, 10-30-73, Cl. 29-604.000.

Bongenaar, Hendrik; and Doreleijers, Theodorus Cornelis Gerardus, to U.S. Philips Corporation. Method of providing an anti-implosion clamping band around the envelope of a picture tube. 3,708,369, 1-2-73, Cl. 156-322.000.

Bongers, Andreas M. G., to Oce-van der Grinten N.V. Apparatus for handling sheets on a rotary copying cylinder. 3,744,791, 7-10-73, Cl. 271-80.000.

Bongers, H. J.: *See—*
Hutz, Gerhard; and Bongers, H. J., 3,779,845.

Bonham, David C. Method of manufacturing a hairpiece. 3,756,879, 9-4-73, Cl. 156-72.000.

Bonham, Grant & Brundage, Limited: *See—*
Stauffer, James D., 3,720,608.

Bonham, James A.: *See—*
Smith, George H.; and Bonham, James A., 3,779,778.

Bonham, James A.; and Petrellis, Panayotis C., to Minnesota Mining and Manufacturing Company. Positive image transfer. 3,775,113, 11-27-73, Cl. 96-28.000.

Bonifas, James L., to Stellar Industries, Inc. Chain link. 3,754,477, 8-28-73, Cl. 74-250.00r.

Bonikowski, Zbigniew; and Keen, Bruce Henry, to British Insulated Callender's Cables Limited. Methods of extruding plastic material. 3,755,516, 8-28-73, Cl. 264-40.000.

Bonikowsky, Gary Wayne. Pneumatic seat for cycles. 3,758,153, 9-11-73, Cl. 297-199.000.

Bonin, Richard E.: *See—*
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Bonin, Yves; and Gigou, Claude, to Rhone-Poulenc S.A. Non-thrombogenic polymers containing quaternary ammonium groups to which molecules of heparin are bonded. 3,766,104, 10-16-73, Cl. 260-9.000.

Boning, Horst: *See—*
Spengler, Erich; Boning, Horst; and Requardt, Heiko, 3,709,609.

Bonino, Joseph S.: *See—*
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Bonis, David Raynes; and Foster, Eric, to Northern Electric Company Limited. Electrically conducting pivotal joint. 3,735,021, 5-22-73, Cl. 174-86.000.

Bonis, Scott A.; Salzer, Thomas E.; and Robillard, David R., to Raytheon Company. Wire spool package. 3,747,870, 7-24-73, Cl. 242-137.100.

Bonisch, Herbert: *See—*
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Bonjour, Emmanuel; and Couach, Michel, to Commissariat a l'Energie Atomique. Method for bringing a number of substances together by remote control and a device for carrying out said method. 3,724,820, 4-3-73, Cl. 259-114.000.

Bonjour, Georges: *See—*
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Bonk, Joseph Paul, to Rollprint Packaging Products, Inc. Surgical pouches. 3,754,700, 8-28-73, Cl. 229-62.000.

Bonk, Stanley P.: *See—*
Vasilakis, Andrew D.; and Bonk, Stanley P., 3,726,633.

Bonn, Helmut; and Randelzhofer, Konrad, to Lenkradwerk Gustav Petri Aktiengesellschaft. Vehicle-steering wheel with horn-actuating baffle plate. 3,712,968, 1-23-73, Cl. 200-61.560.

Bonn, Theodore H., to Sperry Rand Corporation. Gas discharge display apparatus. 3,781,599, 12-25-73, Cl. 315-169.0tv.

Bonnabaud, Joannes Francis Marcel; and Brat, Claude. Automatic tension regulation of yarn and wire winding devices. 3,750,972, 8-7-73, Cl. 242-45.000.

Bonnamy, Philippe J. F., to Compagnie Francaise des Petroles. Method of making electrical connectors and connectors therefor. 3,731,250, 5-1-73, Cl. 339-12.00v.

Bonnard, Lucien; Pich, Rene; and Palsky, Alain, to Societe Rhodiaceta. Sulphonated polyethers. 3,745,141, 7-10-73, Cl. 260-40.00r.

Bonnell, Leonard J.: *See—*
Van Iderstine, Theodore J.; and Bonnell, Leonard J., 3,723,722.

Bonnemann, Helmut: *See—*
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Bonnemay, Maurice G.; Bronoel, Guy R.; and Doniat, Denis, to Agence Nationale de Valorisation de la Recherche (ANVAR). Electrochemical generator with disperse carbon electrode. 3,709,735, 1-9-73, Cl. 136-86.00a.

Bonner, Gilbert B.; and Brumbaugh, Philip A., to International Business Machines Corporation. Controlled tension ribbon cassette. 3,758,012, 9-11-73, Cl. 226-168.000.

Bonner, Joseph A.: *See—*
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Bonner, Joseph A.; and Evans, Howard J., to Rockwell Manufacturing Company. Temperature compensated gas meter register. 3,733,904, 5-22-73, Cl. 73-233.000.

Bonner, Robert B.; and Wiehe, John F., Jr., to Tel-E-Lect, Inc. Radio control system for mobile aerial platforms. 3,774,217, 11-20-73, Cl. 343-225.000.

Bonner, Willard H.; and Craven, Robert L., to Du Pont de Nemours, E. I., and Company. Process of forming a uniform batt from staple fibers. 3,717,904, 2-27-73, Cl. 19-66.00r.

Bonner, William A., to Rockford Servo Corporation. Web sensing and guiding apparatus. 3,724,732, 4-3-73, Cl. 226-21.000.

Bonner, William Adam; Warner, Arthur Woodward, Jr.; and White, Donald Lawrence, to Bell Telephone Laboratories, Incorporated. $TeO_2$ acoustooptic light deflector. 3,743,970, 7-3-73, Cl. 332-7.510.

Bonness, Donald A.: *See—*
Streater, August L.; and Bonness, Donald A., 3,727,706.

Bonnet, Alain: *See—*
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Bonnet, Maurice, to Etablissement Public Agence National de Valorisation de la Recherche Anvar. Method for improving the direct vision of relief slides and equipment for carrying out said method. 3,712,727, 1-23-73, Cl. 355-22.000.

Bonnetin, Alain: *See—*
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Bonnette, Richard Arthur: *See—*
Lindburg, Norman Lee; Bonnette, Richard Arthur; and Deegan, Thomas Edward, 3,737,706.

Bonneville, Gerald D.; Hetke, Adolf; and Free, William N., to General Motors Corporation. Method of friction welding with floating workpiece fixture. 3,763,549, 10-9-73, Cl. 29-470.300.

Bonneville, Jean, to Nouvelle Societe Bruey S.A. Sports shoe spikes. 3,775,874, 12-4-73, Cl. 36-67.00d.

Bonney, Roland W. Sliding spool valve. 3,774,504, 11-27-73, Cl. 91-446.000.

Bonney, Roland W. Rotary spool valve. 3,774,634, 11-27-73, Cl. 137-596.000.

Bonnke, Hans R.; and Melcher, Robert J., to Methods Electronics, Inc. Method of making flat conductor cable assemblies. 3,772,775, 11-20-73, Cl. 29-628.000.

Bono, Thomas F., Jr. Juvenile training knife and fork. 3,771,224, 11-13-73, Cl. 30-148.000.

Bonomi, Agostino. Pressure valve for fluids. 3,753,569, 8-21-73, Cl. 277-112.000.

Bonsky, Elmer C.: *See—*
Curtis, Lawrence A.; and Bonsky, Elmer C., 3,723,656.

Bonsky, Elmer C.; and Curtis, Lawrence A., to T.A.D. Avanti Inc. Telephone answering system and apparatus including improved ring responsive circuitry for selectively connecting and isolating the system from the telephone line. 3,728,488, 4-17-73, Cl. 179-.00r.

Bonsky, Elmer C.; and Curtis, Lawrence A., to T.A.D. Avanti, Inc. Adapter unit for telephone answering instrument. 3,729,589, 4-24-73, Cl. 179-6.00r.

Bonsky, Elmer C.; and Curtis, Lawrence A., to T.A.D. Avanti, Inc. Telephone answering instrument and system. 3,757,049, 9-4-73, Cl. 179-6.00e.

Bonteil, Robert C., to Matsushita Electric Works, Ltd. Lyophilisation installation. 3,733,716, 5-22-73, Cl. 34-92.000.

Bonteil, Robert C., to Societe d'Etude et d'Exploitation de Procedes pour l'Industrie Alimentaire SEPIAL. Process and apparatus for removing the outer layer from cereal grains by a wet method. 3,744,399, 7-10-73, Cl. 99-233.600.

Bontempi, Paolo. Keyboard musical instrument, more particularly for use as a toy. 3,756,114, 9-4-73, Cl. 84-453.000.

Bonthelius, Bo Bengt Urban. Foldable yoke life preserver. 3,727,249, 4-17-73, Cl. 9-312.000.

Bonvicini, Alberto; and Cantatore, Giuseppe, to Montecatini Edison S.p.A. Dye retentive olefin polymer compositions containing a basic polyamide. 3,741,930, 6-26-73, Cl. 260-41.00c.

Bonvicini, Alberto; and Cantatore, Giuseppe, to Montecatini Edison S.p.A. Basic polyamides and process for their preparation. 3,773,739, 11-20-73, Cl. 260-78.00a.

Bonvicini, Gene F. Sprayer attachment for leaf blower. 3,776,459, 12-4-73, Cl. 239-77.000.

Bonyhard, Peter Istvan; and Michaelis, Paul Charles, to Bell Telephone Laboratories, Incorporated. Single-wall domain arrangement. 3,713,116, 1-23-73, Cl. 340-174.0tf.

Bonyhard, Peter Istvan, to Bell Telephone Laboratories, Incorporated. Time division multiplex network switching unit. 3,751,597, 8-7-73, Cl. 179-15.0aq.

Bonyhard, Peter Istvan, to Bell Telephone Laboratories, Incorporated. Network for transposing signal bit interleaving patterns. 3,758,722, 9-11-73, Cl. 179-15.00a.

Bonzack, Eugene P.: *See*—
Olds, Richard G.; and Bonzack, Eugene P., 3,710,197.

Bonzer Inc.: *See*—
Wiley, Wallace F., Jr., 3,757,327.

Boocock, David G. B.; and Ullman, Edwin F., to Syva Corporation. 1,3,Dioxy-2-substituted-4,4,5,5-tetrahydrocarbon substituted - delta2-dihydro- and imidazolines. 3,732,244, 5-8-73, Cl. 260-309.600.

Bood, Louris, to Mowid Anstalt. Well pumping apparatus for polluted water. 3,720,488, 3-13-73, Cl. 412-360.000.

Booe, James M.: *See*—
O'Nan, Thomas C.; Walters, Charles W.; and Booe, James M., 3,751,797.

Boogaart, Van Den; and Nicolaus, Louis Meelis, to N.V. Fabriek Van Chemische Producten Vondelingenplaat. Process for killing plant pests using cyanoalkylnitrophenyl carbonates. 3,723,625, 3-27-73, Cl. 424-301.000.

Booher, Harold R., to Goodyear Tire & Rubber Company, The. Automatic braking system. 3,711,163, 1-16-73, Cl. 303-21.00p.

Booher, Keith E.; and Van Loozen, George M., to Syntex Corporation. Implanter having an improved cartridge ejector. 3,744,493, 7-10-73, Cl. 128-217.000.

Booher, Richard N., to Lilly, Eli, and Company. Noracymethadol carbamates. 3,755,416, 8-28-73, Cl. 260-471.00c.

Book Covers, Inc.: *See*—
Carter, Leewood C.; Mullen, Edward K.; and Davanzo, Anthony J., 3,708,813.

Bookbinder, Oscar: *See*—
Wilson, Arthur K.; and Bookbinder, Oscar, 3,748,461.

Booker, Aylwin Reed. Flexible immersion heater. 3,754,118, 8-21-73, Cl. 219-523.000.

Booker, Philip P.; and Zeliznak, Richard, to Cominco Ltd. Coating process. 3,778,315, 12-11-73, Cl. 148-6.300.

Booker, William E. Commercial barbeque cooker. 3,721,177, 3-20-73, Cl. 99-331.000.

Bookout, Floyd V., to Rock-Ola Manufacturing Corporation. Selection system for vending machine. 3,776,418, 12-4-73, Cl. 221-125.000.

Books, Arlen K.; and Froemke, James W., to International Business Machines Corporation. Synchronous communications adapter. 3,710,327, 1-9-73, Cl. 340-172.500.

Bookwalter, George N.: *See*—
Robinson, John W.; Bookwalter, George N.; and Tuschhoff, John V., 3,719,661.

Boom, Abraham A., to Celanese Corporation. Method and apparatus for plasma treatment of substrates. 3,723,289, 3-27-73, Cl. 204-312.000.

Boom, Abraham A., to Celanese Corporation. Production of improved semipermeable polybenzimidazole membranes. 3,737,042, 6-5-73, Cl. 210-321.000.

Boom, Abraham A., to Celanese Corporation. Apparatus for heat treatment of substrates. 3,780,255, 12-18-73, Cl. 219-121.00p.

Boomer, John H.: *See*—
Hirai, Robert K.; Boomer, John H.; and Small, Edward R., 3,715,943.

Boomers, Jerry L.: *See*—
Nelson, George H.; Boomers, Jerry L.; and Egtvedt, Robert B., 3,744,073.

Boomsma, Pieter: *See*—
Wierts, Derk; and Boomsma, Pieter, 3,718,865.

Boon, Bruce T. E., to Eastern Cyclone Industries, Inc. Pneumatic bulky material collector system. 3,747,986, 7-24-73, Cl. 302-62.000.

Boone, David E., to Standard Oil Company. Polymerization of olefins with a chromyl bis(triorganotitanate)catalyst. 3,752,795, 8-14-73, Cl. 260-88.20r.

Boone, Donald H.: *See*—
Goward, George W.; Boone, Donald H.; and Pettit, Frederick S., 3,754,903.

Boone, Donald H.; Koss, Donald A.; and Peacock, David E., to United Aircraft Corporation. Cast cobalt-base eutectic type alloy. 3,713,815, 1-30-73, Cl. 75-171.000.

Boone, Donald H.; Duhl, David N.; and Goward, George W., to United Aircraft Corporation. Nickel-base superalloy resistant to oxidation-erosion. 3,754,902, 8-28-73, Cl. 75-171.000.

Boone, Gary W., to Texas Instruments, Incorporated. Computing systems CPU. 3,757,306, 9-4-73, Cl. 340-172.500.

Boone, George R. Device having a fluid displacement volume which varies with temperature. 3,753,311, 8-21-73, Cl. 43-43.140.

Boone, Jerry C., to Allis-Chalmers Corporation. Combine grain bin unloader. 3,721,333, 3-20-73, Cl. 198-119.000.

Boone, Philip. Means to selectively wet web material. 3,707,945, 1-2-73, Cl. 118-234.000.

Boone, Philip. Means to dispense sterile sheet-like components. 3,744,448, 7-10-73, Cl. 118-37.000.

Boone, Robert L. Process for curing elastomer extrudates. 3,773,885, 11-20-73, Cl. 264-236.000.

Boone, Shelby J.: *See*—
Dugan, Robert; and Boone, Shelby J., 3,769,955.

Boonstra, Willem Frederik; Meindersma, Tabe Ernst; and Van Galen, Piet. Assembly for separating a substantially dust-free part from a space. 3,708,963, 1-9-73, Cl. 55-373.000.

Boor, Francis H., to Fairfield Manufacturing Co. Speed reduction gear assembly. 3,741,041, 6-26-73, Cl. 74-801.000.

Boor, John, Jr., to Shell Oil Company. Cyclic ether polymerization process. 3,730,922, 5-1-73, Cl. 260-2.00a.

Boor, John, Jr., to Shell Oil Company. Cyclic ether polymerization process. 3,756,968, 9-4-73, Cl. 260-2.00a.

Boor, John, Jr., to Shell Oil Company. Cyclic ether polymerization process. 3,776,862, 12-4-73, Cl. 260-2.00a.

Boorujy, Salem. Tertiary filtering arrangement. 3,722,681, 3-27-73, Cl. 210-108.000.

Boose, Cesar Adrianus; and Reidt, Maarten Johan, to Reactor Centrum Nederland. Method for the blackening of aluminum. 3,717,510, 2-20-73, Cl. 148-6.240.

Boose, Cesar Adrianus; Reidt, Maarten Johan; and Derksen, Evert Hermanus, to Reactor Centrum Nederland. Method for the blackening of aluminum alloys. 3,725,137, 4-3-73, Cl. 148-6.200.

Boose, Robert Carl; Weaver, Henry; and Moore, Harry, to Escoa Fintube Corporation. Fintube welding apparatus. 3,723,693, 3-27-73, Cl. 219-62.000.

Boose, Robert Carl. I-type segmented finned tube and its method of manufacture. 3,764,774, 10-9-73, Cl. 219-62.000.

Boosen, Karl-Josef, to Lonza Ltd. Method of manufacturing tetronic acid. 3,758,515, 9-11-73, Cl. 260-343.600.

Boot, Roy Desmond: *See*—
Maynard, Harry; and Boot, Roy Desmond, 3,765,626.

Boote Company, Limited, The: *See*—
Adams, Stewart Sanders; Armitage, Bernard John; Nicholson, John Stuart; and Blancafort, Antonio Ribera, 3,755,427.
Adams, Stewart Sanders; Armitage, Bernard John; Bristow, Norman William; and Heathcote, Bernard Vincent, 3,755,593.

Boote, James: *See*—
Wright, Donald James; Boote, James; and Joyce, Burton, 3,752,259.

Booth, Albert B., to Hercules Incorporated. 8-Halo-2-methene and its method of preparation. 3,755,472, 8-28-73, Cl. 260-648.00r.

Booth, Bruce F.; Veilleux, Pierre; and Hall, Richard William, to Enterprises International, Inc. Log sorter. 3,776,378, 12-4-73, Cl. 209-73.000.

Booth, Christopher John, to C. & W. Walker Limited. Oil burning submerged combustion units. 3,747,588, 7-24-73, Cl. 126-360.00a.

Booth, David L.: *See*—
Turner, Robert J.; Booth, David L.; and Berry, Richard D., 3,764,273.

Booth, Edwin F. Ground marking machine. 3,774,690, 11-27-73, Cl. 172-126.000.

Booth, Franklin W.; and Bruce, Robert A., to United States of America, National Aeronautics and Space Administration. Zero gravity liquid mixer. 3,712,591, 1-23-73, Cl. 259-4.000.

Booth, Frederick C., to Allied Chemical Corporation. Automatic locking seat belt retractor. 3,767,135, 10-23-73, Cl. 242-107.400.

Booth, Frederick E., Jr., to Houdaille Industries Inc. Linear digital-to-analog converter. 3,719,808, 3-6-73, Cl. 235-154.

Booth, Gary E.: *See*—
Lyness, Warren I.; Amel, Ronald T.; and Booth, Gary E., 3,711,474.

Booth, Gary E., to Procter & Gamble Company, The. Mono- and diphthalimidyl derivatives. 3,717,630, 2-20-73, Cl. 260-240.0ca.

Booth, Jack J. System for dispensing chilled carbonated water. 3,731,845, 5-8-73, Cl. 222-67.000.

Booth, John. Flush-through port device. 3,765,364, 10-16-73, Cl. 114-198.000.

Booth, John F.: *See*—
McLeod, John W.; Gray, Laverne E.; and Booth, John F., 3,780,855.

Booth, John L. Method for producing continuous compressed honeycomb. 3,741,840, 6-26-73, Cl. 156-197.000.

Booth, Llewellyn D.: *See*—
Neal, Gerald Wayne; and Booth, Llewellyn D., 3,746,666.

Booth, Llewellyn D.; and Hinze, Kenneth J., to Dow Chemical Company, The. Polyurethane compositions containing phenol-aldehyde resins and polyether polyols. 3,728,293, 4-17-73, Cl. 260-17.200.

Booth, Ralph E.: *See*—
Tillman, Herman L.; and Booth, Ralph E., 3,718,812.

Booth, Raymond E.: *See*—
Smith, Donald Paul; and Booth, Raymond E., 3,731,614.





Booth, Robert Ben, to American Cyanamid Company. Method of maintaining aqueous suspension of fluidized solids in cooling system. 3,746,641, 7-17-73, Cl. 210-58.000.

Booth, William M.: *See*—
Lutz, Paul D.; and Booth, William M., 3,772,917.

Booth, William M.; and Westrick, Robert E., to Bennett Pump Incorporated. Reader system for conventional credit cards. 3,708,654, 1-2-73, Cl. 235-61.11a.

Booth, William M.; and Thompson, Robert C., to Bennett Pump Incorporated. Variable increment transducer for fluid flow metering systems. 3,772,916, 11-20-73, Cl. 73-194.00e.

Bootha, Hendrik Johannes. Pipe clamps. 3,750,241, 8-7-73, Cl. 24-279.000.

Boothby, Laura A. Method of self-injection using muscle elevating arm clamp. 3,760,803, 9-25-73, Cl. 128-215.000.

Boothe, Jerry Emile: *See*—
Gordon, Robert Cornelius, Jr.; Walker, Jerry Lee; Sharpe, Andrew Jackson, Jr.; and Boothe, Jerry Emile, 3,752,760.
Perkinski, Leonard John; and Boothe, Jerry Emile, 3,768,565.
Szabo, Miklos Tamas; Boothe, Jerry Emile; Sharpe, Andrew Jackson, Jr.; and Martin, Fred David, 3,744,566.
Walker, Jerry Lee; and Boothe, Jerry Emile, 3,709,816.

Boothe, Jerry Emile; and Cornelius, Thomas Edward, III, to Calgon Corporation. Boiler water treatment. 3,709,815, 1-9-73, Cl. 210-58.000.

Boothe, Jerry Emile; Sharpe, Andrew Jackson, Jr.; Walker, Jerry Lee; and Cornelius, Thomas Edward, III, to Calgon Corporation. Boiler water treatment. 3,752,761, 8-14-73, Cl. 210-58.000.

Boothroyd, Wilson P.: *See*—
Whitman, Garo Arevian; Boothroyd, Wilson P.; and Dunbar, Elton E., 3,731,067.

Boots Company Limited, The: *See*—
Adams, Stewart Sanders; Armitage, Bernard John; Bristow, Norman William; and Heathcote, Bernard Vincent, 3,755,594.
Adams, Stuart Sanders; Armitage, Bernard John; Bristow, Norman William; and Heathcote, Bernard Vincent, 3,754,005.

Boots Pure Drug Company Limited: *See*—
Baker, Maurice William; Crowley, Jennifer; Watkins, Thomas Iswel; and Clark, Nigel George, 3,732,238.
Harrison, Ian Robert; McCarthy, John Felix; and Palmer, Bryan Harper, 3,729,565.
Harrison, Ian Robert; McCarthy, John Felix; and Palmer, Bryan Harper, 3,781,355.

Bootz, William: *See*—
Clements, William C.; and Bootz, William, 3,714,787.

Bopp and Reuther GmbH: *See*—
David, Walfried, 3,738,383.
Matthias, Karl, 3,746,304.

Bopp, Anton. Method for surface hardening steel and cemented carbides. 3,770,512, 11-6-73, Cl. 148-6.000.

Bopp, Warren G.; and Nagel, William S., to Eaton Corporation. Hydrokinetic coupling. 3,756,028, 9-4-73, Cl. 60-353.000.

Bopparder Maschinenbaugesellschaft mbH: *See*—
Linz, Albert, 3,756,735.

Boppart, Eugene A., to Velsicol Chemical Corporation. Greenhouse planting box. 3,719,301, 3-6-73, Cl. 217-5.00r.

Bopst, John H., III. Rotary movement distance measurement device. 3,732,623, 5-15-73, Cl. 33-141.00r.

Boque, John C.: *See*—
Sarbacher, Robert I., 3,778,632.

Bor, Maria, nee Szabo: *See*—
Tuba, Zoltan; and Bor, Maria, nee Szabo, 3,733,329.
Tuba, Zoltan; Bor, Maria, nee Szabo; Molnar, Karoly; and Gorog, Sandor, 3,761,496.

Boragine, Carlo; and Meyer, Armin. Photographic colour material. 3,743,506, 7-3-73, Cl. 96-73.000.

Boram, Frank; and Kail, Denis Harold, to Stillit, Gerald Barry. Teaching apparatus. 3,720,006, 3-13-73, Cl. 35-9.00c.

Boram, William R.: *See*—
Acle, Luis, Jr.; Boram, William R.; and Long, John V., 3,726,831.

Borbas, Robert A.; Dufton, John P.; Duthie, Robert W.; Lighthall, John T.; Moorehead, Thomas J.; and Verbaas, George, to GTE Automatic Electric Laboratories, Incorporated. Communication switching system with modular organization and bus. 3,767,863, 10-23-7, Cl. 179-18.0es.

Borbat, Vladimir Fedorovich: *See*—
Lishevskaya, Marina Osipovna; Virnik, Alexandr Davidovich; Gabrielian, Genrikh Aramaisovich; Rogovin, Zakhar Alexandrovich; Borbat, Vladimir Fedorovich; Orlov, Alexandr Mikhailovich; Ferberg, Mirriam Borisovna; and Markelova, Nina Ivanovna, 3,728,103.

Borchard, Heinz: *See*—
Knothe, Herbert; Buck, Jurgen; Borchard, Heinz; and Rybka, Bruno, 3,747,390.

Borcherding, Elsa, 20% to Lee, Raymond, Organization, Inc., The. Magnetic educational toy. 3,726,026, 4-10-73, Cl. 35-62.000.

Borcherding, Karl, to Heye, Herman, Obernkirchin Allec. Honing apparatus. 3,745,715, 7-17-73, Cl. 51-92.00r.

Borchert, Alfred E.; Mameniskis, Walter A.; and Melpolder, Frank W., to Atlantic Richfield Company. Aqueous tertiary butyl hydroperoxide. 3,773,687, 11-20-73, Cl. 252-426.000.

Borck, Joachim; Dahm, Johann; Hovy, Jan Willem; Kramer, Josef; and Wild, Albrecht, to Merck Patent Gesellschaft mit beschrankter Haftung. Substituted phenylalkanol derivatives. 3,770,748, 11-6-73, Cl. 260-293.810.

Borcoman, Mircea: *See*—
Borcoman, Mircea; and Ciufu, Virgil (said Ciufu assor. to said), 3,720,493.

Borcoman, Mircea; and Ciufu, Virgil, said Ciufu assor. to said Borcoman, Mircea. Machine for the manufacture of reinforced concrete or prestressed concrete elements. 3,720,493, 3-13-73, Cl. 425-111.000.

Borcoman, Mircea. Production line for products of prestressed concrete or of reinforced concrete. 3,732,044, 5-8-73, Cl. 425-111.000.

Borczyk, Lech Stanislaw: *See*—
Davis, Charles H.; and Borczyk, Lech Stanislaw, 3,727,497.

Bordeaux, Jean. Carburetor flow stand. 3,741,006, 6-26-73, Cl. 73-118.000.

Bordeaux, Jean. Carburetor flow stand. 3,741,007, 6-26-73, Cl. 73-118.000.

Bordeaux, Jean, to ACF Industries, Incorporated. Carburetor flow stand. 3,741,009, 6-26-73, Cl. 73-118.000.

Borden, A. Gale. Waste disposal assembly. 3,734,852, 5-22-73, Cl. 210-152.000.

Borden Chemical Company (U.K.) Limited: *See*—
Middleton, Terence H., 3,708,154.

Borden, Clarence W., to Goodall Rubber Company. Method of making hose or other tubular bodies of curable elastomeric material. 3,752,719, 8-14-73, Cl. 156-84.000.

Borden Company, The: *See*—
Hopermann, Richard Konrad, 3,770,486.
Messervey, Clifford Harry, 3,712,483.
Wiita, Ronald E., 3,755,238.

Borden, Douglas G.: *See*—
Reynolds, George A.; Laakso, Thomas M.; Borden, Douglas G.; and Williams, Jack L. R., 3,748,131.
Williams, Jack L. R.; Laakso, Thomas M.; and Borden, Douglas G., 3,776,737.

Borden, Douglas G., to Eastman Kodak Company. Photographic elements comprising photo-sensitive polymers. 3,737,319, 6-5-73, Cl. 96-115.00r.

Borden, George W.; and Trecker, David J., to Union Carbide Corporation. 1-Cycloalkenylmethyl-4,5-dihydroxy-3-hydroxymethyl-2-imidazolidinones. 3,708,495, 1-2-73, Cl. 260-309.700.

Borden, Howard C., Jr., to American Micro-Systems, Inc. Universal transmission reflectance mode liquid crystal display. 3,748,018, 7-24-73, Cl. 350-160.0lc.

Borden, Howard C., Jr., to American Micro-Systems, Inc. Thermal printing system. 3,754,278, 8-21-73, Cl. 346-76.00r.

Borden, Inc.: *See*—
Adkins, William B.; Bauer, Thomas F.; and Beane, James O., 3,725,333.
Alroy, John D., 3,712,532.
Cautilli, Philip A.; and Makower, Samuel J., 3,714,097.
Clark, Charles William, 3,724,655.
Dooley, Donald David, 3,734,798.
Erekson, Arthur B., 3,745,081.
Feinstein, Sumner Sheldon; Golner, Jerold Julius; D'Amato, Salvatore; and Trunk, Eugene John, 3,748,939.
Huelsman, Gregory J.; Bell, Robert E.; and Rohe, Gerald Edward, 3,778,395.
Lemon, Peter Herbert Richard Bryan; and Terron, Christopher, 3,709,849.
Messervey, Clifford Harry; and Riddell, Maynard Harry, 3,750,458.
Milutin, Ivan Cutakoui; Bartell, Charles; and Blum, Alfred, 3,773,538.
Sandler, Stanley Robert; and Delgado, Maria Louisa, 3,738,986.
Stehle, Peter Fallon; Wu, Chan K.; Loshaek, Samuel; and Dickstein, Jack, 3,714,105.
Stehle, Peter Fallon; Dickstein, Jack; and Loshaek, Samuel, 3,730,933.
Stine, Orrin Burr, 3,739,964.
Wingerd, Winston Harold; and Damisch, Russell D., 3,756,831.

Borden, Samuel M.: *See*—
Kleinberg, Israel; Golub, Lorne M.; Borden, Samuel M.; and Settler, Morris, 3,753,099.

Bordenca, Carl, to SCM Corporation. Diisophorone derivatives and compositions containing same. 3,742,052, 6-26-73, Cl. 260-566.00b.

Bordenca, Carl; Dorschner, Kenneth P.; and Johnson, Robert P., to SCM Corporation. Substituted phenyl ethers and thioethers as insect repellents. 3,746,768, 7-17-73, Cl. 424-330.000.

Bordenca, Carl, to SCM Corporation. Diisophorone derivatives and compositions containing same. 3,761,421, 9-25-73, Cl. 252-300.000.

Bordenca, Carl, to SCM Corporation. Insect repellent articles. 3,767,785, 10a23-73, Cl. 424-29.000.
Bordenca, Carl, to SCM Corporation. Selective herbicide composition and process. 3,776,714, 12-4-73, Cl. 71-98.000.
Borders, Donald Bruce: *See*—
Barbatschi, Ferdinand; Borders, Donald Bruce; and Shay, Anthony Joseph, 3,720,691.
Borders, Donald Bruce; and Lancaster, John Edgar, to American Cyanamid Company. Antifungal 2-(1,4-dioxocin-6-yl)-4H-pyran-4-one and a method for its production. 3,770,773, 11-6-73, Cl. 260-338.000.
Bordes, Roger Rene, to Etat Francais Delegation Ministerielle pour l'Armement. Methods for the manufacture of lightweight optical parts. 3,753,322, 8-21-73, Cl. 51-284.000.
Bordessoule, Rene F.; Kermabon, Andre J.; and De Vera, Serge, to Compagnie Francaise des Petroles and Comex-Equipment. Submersible catamaran for the placement and withdrawal of packages on a water bottom. 3,713,411, 1-30-73, Cl. 114-16.00e.
Bordon Company, The: *See*—
Roberts, Victor I.; and Messervey, Clifford H., 3,713,326.
Bordovsky, Jaromir: *See*—
Forster, Hans-Joachim M.; Katz, Klaus; Bulow, Manfred; Scheuter, Anton; Bordovsky, Jaromir; and Wuchter, Gerhard, 3,771,383.
Bordovsky, Michael Joseph; and Woller, William Henry, to Warner-Lambert Company. Process for the purification of coal tar. 3,766,052, 10-16-73, Cl. 208-45.000.
Bordowsky, Karl Heinz: *See*—
Dach, Hansjorg; Bordowsky, Karl Heinz; and Bucksch, Manfred, 3,747,727.
Dach, Hansjorg; Bordowsky, Karl Heinz; and Bucksch, Manfred, 3,780,601.
Bore, Raymond, to Bennes Marrel, Saint-Etienne (Loire). Valves. 3,750,699, 8-7-73, Cl. 137-494.000.
Boregah, Leif Mathias, to Bergs Fabriks AB. Aircraft barrier net. 3,738,599, 6-12-73, Cl. 244-110.00c.
Borel, Joseph: *See*—
Bujorklund, Gunnar; Borel, Joseph; and Marine, Jean, 3,739,353.
Borel, Joseph; and Robert, Jacques, to Commissariat a l'Energie Atomique. Liquid-crystal display device. 3,716,290, 2-13-73, Cl. 350-160.01c.
Borel, Jules & Co.: *See*—
Borel, Mark, 3,715,856.
Borel, Mark, to Borel, Jules & Co. Packaging method. 3,715,856, 2-13-73, Cl. 53-41.000.
Borel, Melvin J.: *See*—
Wilson, Jesse C.; Borel, Melvin J.; and Weaver, Charles B., 3,742,124.
Boren, Donald F.: *See*—
Brennan, James, Jr.; Pope, Hermon L., Jr.; and Boren, Donald F., 3,710,913.
Borenius, Gunnar: *See*—
Goes, Friedrich; Seiffert, Ulrich; Hinzmann, Dieter; and Borenius, Gunnar, 3,747,953.
Borer, Alan John, to Servomex Controls Limited. Integrating amplifier circuits. 3,720,846, 3-13-73, Cl. 307-238.000.
Borer, Albert; and Krogseng, Gerald P., to Minnesota Mining and Manufacturing Company. Method of firing dry spun refractory oxide fibers. 3,760,049, 9-18-73, Cl. 264-57.000.
Borer, Herbert W.; and Shaff, Arthur R., to Caterpillar Tractor Company. Composite structural member. 3,722,864, 3-27-73, Cl. 254-124.000.
Boretos, John W., to United States of America, Health, Education and Welfare. Device for treating sub-unqual hematoma. 3,766,923, 10-23-73, Cl. 128-303.100.
Boretti, Isidoro: *See*—
Angeleri, Emanuele; Bonatti, Mario; Costa, Gianmario; and Boretti, Isidoro, 3,708,625.
Boretti, Napoleon P., to General Motors Corporation. Fluid operated linear motor. 3,745,888, 7-17-73, Cl. 92-9.000.
Borg, Karl Stanley; and Boger, Henry W., to Masoneilan International, Inc. Control valve trim having high resistance vortex chamber passages. 3,780,767, 12-25-73, Cl. 137-625.300.
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Borgese, Domenic; and Borgese, Frances. Burglar alarm system for automotive vehicles and the like. 3,740,712, 6-19-73, Cl. 340-63.000.
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Borghetti, Giuseppe, to Telemeccanica Elettrica Officine Meccaniche Reunite S.p.A. Single pole electric switch with contacts convertible from normally open to normally closed and vice versa. 3,781,501, 12-25-73, Cl. 200-166.0bc.
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Borgnat, Daniel; Casa, Henri Della; and Jusseau, Noel, to Institut de Recherches de la Siderurgie Francaise. Tuyere for a blast furnace and a method for operating the tuyere to atomize combustible material fed into the tuyere by a shock wave. 3,771,473, 1113-73, Cl. 110-182.500.
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Borisenko, Andrei Vladimirovich. Stereophonic sound-reproducing system. 3,759,345, 9-18-73, Cl. 181-31.00b.
Borisuck, John F.; and LaChall, Ruben A., to Uniroyal, Inc. Apparatus for making a two color rubber sale by injection molding and applying uniting pressure. 3,751,200, 8-7-73, Cl. 425-119.000.
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Borkovsky, Gennady Mikhailovich; Drozdov, Alexander Alexandrovich; Kreisburg, Vladimir Markovich; and Tsukanov, Anatoly Andreevich. Device for information playback in multichannel digital seismic recording system. 3,777,308, 12-4-73, Cl. 340-147.0cn.
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Borkowski, Casimer J.; and Rochelle, James M., to United States of America, Atomic Energy Commission. Digital radiation dosimeter with improved integrating pulse ionization chamber. 3,712,983, 1-23-73, Cl. 250-83.60r.
Borkowski, Donald F., to Bendix Corporation, The. Brake adjuster. 3,729,072, 4-24-73, Cl. 188-196.00p.
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Born, Kurt; Neuhoff, Kurt-Walter; and Wesemann, Karl Friedrich, to Mannesmannohren-Werke G.m.b.H. Multi-layer pipe. 3,746,050, 7-17-73, Cl. 138-150.000.
Borne, Ronald F., to University of Mississippi, The. Phenylalanine derivatives. 3,772,377, 11-13-73, Cl. 260-518.00a.
Borne, Ronald F., to University of Mississippi, The. Aminobenzoic acid derivatives. 3,773,712, 11-20-73, Cl. 260-518.00a.
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Borner, Helmut, to Andreae & Mayer GmbH. Actuating mechanism for vending automats. 3,779,358, 12-18-73, Cl. 194-75.000.
Borner, Manfred. Method of making an electromechanical filter. 3,760,471, 9-25-73, Cl. 29-25.350.
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Bornfleth, Ulrich, to Hauni-Werke Korber & Co., KG. Apparatus for producing, processing and manipulating filter rod sections. 3,774,791, 11-27-73, Cl. 214-302.000.
Bornfleth, Ulrich, to Hauni-Werke Korber & Co., KG. Apparatus for manipulating containers for cigarettes or the like. 3,777,911, 12-11-73, Cl. 214-16.40c.
Bornhorst, Kenneth F.; Monroe, Jack L.; Culbertson, Alvin E.; Thomas, David E.; and Drake, Donald E., to National Cash Register Company, The. Radio receiving apparatus for locating a plurality of target transmitters. 3,766,560, 10-16-73, Cl. 343-118.000.
Bornor, Brian J.; and Macgregor, Douglas J. H., to Timex Corporation. Spring bar assembly. 3,710,458, 1-16-73, Cl. 24-265.00b.
Borns, David R., to Lear Siegler, Inc. Suspension for land vehicles. 3,746,363, 7-17-73, Cl. 280-124.00a.
Bornstein, Norman S.; and De Crescente, Michael A., to United Aircraft Corporation. Protective coatings for metal substrates. 3,764,397, 10-9-73, Cl. 148-6.000.
Borochaner, Stuart, to National Waterpure Corporation. Water-softening unit. 3,719,594, 3-6-73, Cl. 210-190.000.
Borofsen, Einar L. Apparatus for detecting snow, water or heat. 3,754,246, 8-21-73, Cl. 340-420.000.
Borok, Boris Alexandrovich; Dzneladze, Zhan Iosifovich; Petrov, Leonid Nikolaevich; Zaikin, Evgeny Ivanovich; Kiyansky, Ivan Alexeevich; and Lobashov, Boris Pavlovich. Method for sintering workpieces of pressed powdered refractory metal or alloy and vacuumfurnace for performing the same. 3,769,008, 10-30-73, Cl. 75-225.000.
Boroky, Joseph Stephen; and Metcalfe, Kenneth Archibald. Chargeless method of producing image on photoconductive surface. 3,756,813, 9-4-73, Cl. 96-1.0ly.
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Borom, Marcus P.; and Johnson, Lyman A., to General Electric Company. Miniaturized automatic decompression meters. 3,710,625, 1-16-73, Cl. 73-432.00r.

Borom, Marcus P., to General Electric Company. Pneumatic analogue decompression instrument. 3,757,586, 9-11-73, Cl. 73-432.00r.

Borom, Marcus P.; and Johnson, Lyman A., to General Electric Company. Combined depth gauge and pneumatic analogue decompression instrument. 3,759,101, 9-18-73, Cl. 73-291.000.

Borom, Marcus P.; and Johnson, Lyman A., to General Electric Company. Single gauge multi-time constant and multi-tissue ratio automatic decompression instruments. 3,759,108, 9-18-73, Cl. 73-423.00r.

Borom, Marcus P.; and De Vries, Robert C., to General Electric Company. Thermochromic surface heating apparatus. 3,781,522, 12-25-73, Cl. 219-462.000.

Borom, Marcus P., to General Electric Company. Thermochromic surface heating apparatus. 3,781,523, 12-25-73, Cl. 219-462.000.

Boron, Joseph J., to Aikoh Co., Ltd., mesne. Sampling apparatus. 3,751,986, 8-14-73, Cl. 73-425.40r.

Boros, Andor; Helm, Laszlo; Marton, Zsolt; and Szucs, Attila, to Magyar Tudomanyos Akademia Automatizalasi Kutato Intezet. Pneumatic control system with pneumatic logic elements for signal processing. 3,771,569, 11-13-73, Cl. 137-816.000.

Boros, Yedidya. Building structure and method of erecting same. 3,748,805, 7-31-73, Cl. 52-745.000.

Boros, Yedidya. Multi-story building structure. 3,750,354, 8-7-73, Cl. 52-236.000.

Boroshok, Melvin J.: *See*—
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Borostyan, Stephen, to Xerox Corporation. Vacuum sheet stripping apparatus. 3,774,907, 11-27-73, Cl. 271-80.000.

Borough, Howard C.; and Pontarelli, Donald A., to Bliss & Laughlin Industries, Incorporated, mesne. Encoded card employing fiber optic elements. 3,728,521, 4-17-73, Cl. 235-61.20n.

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Borovsky, Igor Borisovich; Kozlenkov, Alexandr Ivanovich; and Bogdanov, Vladimir Grigorievich. Apparatus for spectral analysis of specimens containing light-weight elements. 3,775,611, 11-27-73, Cl. 250-310.000.

Borowski, Bernard J., to Ferro Corporation. Iron-containing porcelain enamels for self-cleaning cooking oven. 3,759,240, 9-18-73, Cl. 126-19.00r.

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Borraccio, Robert. Snow skiing training aid. 3,774,572, 11-27-73, Cl. 116-67.00r.

Borre, Henry C.; and Root, Wayne N., to Universal Oil Products Company. Means for effecting a multiple stage contact of a reactant stream. 3,751,232, 8-7-73, Cl. 23-288.00r.

Borrel, Marcel; Marion, Jacques; and Metzger, Jean, to Ugine Kuhlmann. Production of acetonitrile. 3,725,457, 4-3-73, Cl. 260-465.100.

Borrel, Philippe; and Lehureau, Jean, to Progil. Process for photopolymerizing unsaturated polyester resins in contact with immiscible liquids. 3,714,007, 1-30-73, Cl. 204-159.150.

Borrel, Philippe; and Lehureau, Jean, to Progil. Process for the photopolymerization of unsaturated polyester resins on a liquid metal support. 3,761,561, 9-25-73, Cl. 264-298.000.

Borrelli, Nicholas F., to Corning Glass Works. Magnetooptic readout system utilizing optical waveguide fibers. 3,737,236, 6-5-73, Cl. 356-118.000.

Borrelli, Nicholas F.; Kapron, Felix P.; and Keck, Donald B., to Corning Glass Works. Optical waveguide light modulator. 3,756,690, 9-4-73, Cl. 350-151.000.

Borrelli, Patsy J. Minnow pail. 3,726,039, 4-10-73, Cl. 43-56.000.

Borrello, Giuseppe, to Colgate-Palmolive Company. Manufacture of enzyme spheres. 3,775,331, 11-27-73, Cl. 252-89.000.

Borrello, Guiseppe. Detesive particulate composition. 3,726,813, 4-10-73, Cl. 252-539.000.

Borrevang, Poul; and Guddal, Erling, to Novo Terapeutisk Laboratorium A/S. 17-Sulfo-acetates of estradiol. 3,743,660, 7-3-73, Cl. 260-397.500.

Borri, Frank J.; and Lindson, John T., to N L Industries, Inc. Frit composition for producing acid-resistant vitreous enamels on cast iron. 3,769,048, 10-30-73, Cl. 106-49.000.

Borrini, Bartolomeo, to Olivetti, Ing., C., & C., S.p.A. Friction clutch. 3,754,413, 8-28-73, Cl. 64-30.00r.

Borrini, Bartolomeo, to Olivetti, Ing., C., & C., S.p.A. Device for moulding parts to be sintered. 3,773,446, 11-20-73, Cl. 425-78.000.

Borrkfield, Richard A. Methods of making sharp-edge cutting elements. 3,762,243, 10-2-73, Cl. 76-104.00r.

Borroni, Andrea: *See*—
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Borror, Alan L., to Polaroid Corporation. Film units comprising light reflecting materials and 9-(2-(N-alkyl)-fluorene optical filter agents and processes for their use. 3,726,675, 4-10-73, Cl. 96-3.000.

Borror, Alan L., to Polaroid Corporation. Silver halide emulsions sensitized with cyanic dyes containing a quaternary group. 3,734,739, 5-22-73, Cl. 96-132.000.

Borrow, Antony; Broadbent, Douglas; Carter, Stephen Barnaby; Evans, Gillian Margaret; Hemming, Harold George; Hesp, Barrie; and Parton, Carol, to Imperial Chemical Industries Limited. Antiviral compounds. 3,761,512, 9-25-73, Cl. 260-485.00g.

Borsboom, Albertus C. H.; Van Harten, Jan; and van der Most, Gerrit, to Shell Oil Company. Detection of label fouling in automatic railroad car identification system. 3,754,212, 8-21-73, Cl. 340-146.30k.

Borsboom, Albertus C. H., to Shell Oil Company. Process and apparatus for the automatic control of a variable. 3,777,122, 12-4-73, Cl. 235-150.100.

Borse, Anton G., to Borse Plastic Products Corporation. Disposable urinal. 3,716,871, 2-20-73, Cl. 4-110.000.

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Borsenberger, Paul M.: *See*—
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Borsenberger, Paul M.; Guevara, Alfredo R.; and Stahr, Richard W., to Eastman Kodak Company. Dry, instant access electrosensitive recording elements and methods. 3,726,769, 4-10-73, Cl. 204-2.000.

Borsheim, Lewis A., to Petersen, Ross K. Air pre-cleaner. 3,740,932, 6-26-73, Cl. 55-394.000.

Borsi, Jozsef: *See*—
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Borsing, Ebbe Bruno, to Borsing Modeller AB. Triangular crotches for trousers. 3,745,589, 7-17-73, Cl. 2-227.000.

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Borskey, Charles L. Storable vehicle canopy. 3,730,196, 5-1-73, Cl. 135-5.00a.

Borskey, Charles L. Vehicle with retractable and extensible roof assembly. 3,770,314, 11-6-73, Cl. 296-137.00b.

Borst, Adolf H. Gripping locomotive for suspended railway. 3,774,548, 11-27-73, Cl. 105-30.000.

Borst, Gaylord M.; and Shimanckas, William J., to Outboard Marine Corporation. Rotary cable steering system. 3,774,568, 11-27-73, Cl. 114-144.00r.

Borst, John A., to Owens-Corning Fiberglas Corporation. Method and apparatus for producing fibers and environmental control therefor. 3,762,896, 10-2-73, Cl. 65-3.000.

Borst, John D.: *See*—
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Borstcher, Georges Samuel. Device for hanging a shower-bath curtain. 3,750,818, 8-7-73, Cl. 211-95.000.

Borsuk, Pavel Afanasievich: *See*—
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Borsum, Adolph W.; and Borsum, William K. Push-pull connector having a shear-resistant locking ring. 3,731,955, 5-8-73, Cl. 285-111.000.

Borsum, William K.: *See*—
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Borsutzki, Eberhard; and Liehmann, Gerhard. Vibration generator. 3,719,094, 3-6-73, Cl. 74-87.000.

Bort, Inc.: *See*—
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Borth, Anthony. Tube socket voltage limiting apparatus and method of manufacturing the same. 3,716,819, 2-13-73, Cl. 339-143.00t.

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Borzi, Albert, to General Motors Corporation. Steering mechanism for articulated vehicle. 3,773,133, 11-20-73, Cl. 180-79.20b.

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Bosselaar, Hendrik. Method using test liquid and ultrasonic leak detector for detecting leaks in pipelines. 3,738,156, 6-12-73, Cl. 73-40.50a.
Bossen, David A.; Anderson, Eugene R.; and Dahlin, Erik B. Basis weight gauging apparatus, system and method. 3,757,122, 9-4-73, Cl. 250-358.000.
Bossers, Chris F., to GTE Sylvania Incorporated. Cup-shaped grid having concavity containing annular rib surrounding coined aperture region. 3,767,953, 10-23-73, Cl. 313-86.000.
Bossers, Pieter A.: *See—*
Van Der Waaij, Dirk; Erkelens, Hendrik J.; Bossers, Pieter A.; and Kruiswijk, Franciscus J., 3,777,736.
Bossert, Friedrich: *See—*
Rucker, Dietrich; Bossert, Friedrich; Meyer, Horst; and Vater, Wulf, 3,708,489.
Rucker, Dietrich; Bossert, Friedrich; Meyer, Horst; and Vater, Wulf, 3,773,956.
Bossert, Friedrich; and Vater, Wulf, to Bayer Aktiengesellschaft. Composition and methods for effecting coronary dilation using cyanophenyl-1,4-dihydropyridine derivatives. 3,764,683, 10-9-73, Cl. 424-263.000.
Bossert, Friedrich, , to Bayer Aktiengesellschaft. N-alkyl-1,4-dihydropyridines and their production. 3,773,773, 11-20-73, Cl. 260-294.80d.
Bossert, Friedrich; and Vater, Wulf, to Farbenfabriken Bayer Aktiengesellschaft. Unsymmetrical 1,4-dihydro-4-aryl-nicotinate esters. 3,775,422, 11-27-73, Cl. 260-294.900.
Bossert, Friedrich; and Vater, Wulf, to Bayer Aktiengesellschaft. Sulphur-containing 1,4-dihydropyridine derivatives for coronary vessel dilating. 3,777,030, 12-4-73, Cl. 424-266.000.
Bosshard, Hans: *See—*
Diamantoglou, Michael; Adelliker, Hans Peter; Staub, Alfred; Bosshard, Hans; and Karlen, Urs, 3,752,831.
Bosshard, Rene; Muller, Jean-Claude; and Ebert, Edith, to Ciba-Geigy Corporation. 2-Amino-4-phenyl-thiazoles and their addition salts. 3,775,425, 11-27-73, Cl. 260-306.80r.
Bosshard, Walter: *See—*
Purt, Gustav A.; and Bosshard, Walter, 3,725,011.
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Bickel, Hans; Bosshardt, Rolf; and Mueller, Johannes, 3,719,673.
Bickel, Hans; Mueller, Johannes; Bosshardt, Rolf; Peter, Heinrich; and Fechtig, Bruno, 3,726,865.
Bickel, Hans; Mueller, Johannes; Bosshardt, Rolf; Peter, Heinrich; and Fechtig, Bruno, 3,757,013.
Fechtig, Bruno; Vischer, Ernst; Bickel, Hans; Bosshardt, Rolf; and Urech, Jakob, 3,753,977.
Bossi, Dennis, to Thomas & Betts Corporation. Adapter for terminating multiconductor signal transmission cable. 3,743,925, 7-3-73, Cl. 324-58.00r.
Bossi, Hans Jurg: *See—*
Faust, Werner; Beriger, Conrad; and Bossi, Hans Jurg, 3,771,042.
Bossi, Hans Jurg, to Aktiengesellschaft Brown, Boveri & Cie. Inductive type firing arrangement for series connected thyristors in a high voltage rectifier. 3,742,331, 6-26-73, Cl. 321-11.000.
Bossi, Hans Jurg, to Aktiengesellschaft, Brown, Boveri & Cie. Parallel connection of surge voltage-resistant semiconductor elements such as diodes thyristors having differing avalanche voltage. 3,753,074, 8-14-73, Cl. 321-11.000.
Bossi, Oscar, to Honeywell Information Systems Italia. High speed on-the-fly printer providing arresting of the type characters in the printing positions. 3,741,110, 6-26-73, Cl. 101-93.00c.
Bossi, Oscar, to Honeywell Information Systems Italia. Serial printer with rotating interposer and plural hammers. 3,760,925, 9-25-73, Cl. 197-53.000.
Bossi, Oscar, to Honeywell Information Systems Italia. High speed serial printer with plural hammers. 3,773,161, 11-20-73, Cl. 197-49.000.
Bossler, Robert B., Jr., to Kaman Aerospace Corporation. Sectional boat construction. 3,744,071, 7-10-73, Cl. 9-2.00s.
Bossong, Raymond J., to Amsted Industries Incorporated. Railway coupler head. 3,735,877, 5-29-73, Cl. 213-75.00r.
Bossons, Walter Howard; Parer, David George; and Burcher, George Davey. Article presenting apparatus. 3,730,356, 5-1-73, Cl. 214-1.0bc.
Bossons, Walter Howard; and Lindstaedt, Horst, to Masson Scott Thrissell Engineering Limited. Web splicing methods. 3,741,079, 6-26-73, Cl. 93-1.100.
Bostedt, Jan Einar: *See—*
Nilsson, Lars-Goran Bernhard; and Tykesson, Bengt Jorgen Tyke (said Nilsson assor. to said), 3,768,589.
Boster, Everett E.; and Willis, James E. Towing vehicle. 3,759,407, 9-18-73, Cl. 214-86.00a.
Bostick, Edgar E.: *See—*
Fleischer, Robert L.; Price, Paul B.; Bostick, Edgar E.; and Holub, Fred F., 3,713,921.
Bostick, Edgar E.; and Jaquiss, Donald B. G., to General Electric Company. Compatible polycarbonate-siloxane composition. 3,751,519, 8-7-73, Cl. 260-824.000.
Bostick, Edgar E.; and Gilbert, Alfred R., to General Electric Company. Crosslinking of aromatic polycarbonates with organic polysulfonazides. 3,770,696, 11-6-73, Cl. 260-47.0xa.
Bostick, Frank W., to Schick Electric Inc. Pad finger grip for electric shaver case. 3,725,190, 4-3-73, Cl. 161-159.000.
Bostick, Ivory S.: *See—*
Bostick, John H.; and Bostick, Ivory S., 3,759,356.
Bostick, John H.; and Bostick, Ivory S., to Lee, Raymond, Organization, Inc., The. Carrier for soiled diapers. 3,759,356, 9-18-73, Cl. 190-42.000.
Boston, Joseph F.: *See—*
Bannister, Ralph R.; Harris, Gabriel W.; and Boston, Joseph F., 3,769,217.
Boston Machine Works Company: *See—*
Copithorne, Alton R., 3,753,831.

Boston, Robert L., to GAF Corporation. Automatic roll-supplied copy material-feeding and cutting mechanism. 3,727,499, 4-17-73, Cl. 83-205.000.
Boston, Thomas R.: *See—*
Schovee, John R., 3,718,993.
Stone, Orison W., 3,760,978.
Boston, Tommy E.: *See—*
Brandt, William L.; Boston, Tommy E.; and Reed, Don E., 3,721,103.
Bostrom, Bertil I., to AGA Aktiebolag. Permanently implantable fixture means for prothesis and the like. 3,732,621, 5-15-73, Cl. 32-10.00a.
Bostrom, Bertil Ingemar, to AGA Aktiebolag: Device for sealed electrode mounting. 3,758,806, 9-11-73, Cl. 313-268.000.
Bostrom, Sten-Lennart, to Dasy Inter S.A. Credit card or the like. 3,731,085, 5-1-73, Cl. 235-61.11d.
Bostwick, James L. Automatic brake slack adjustor. 3,727,728, 4-17-73, Cl. 188-79.50k.
Bostwick, Norvan W.; Snyder, Warren E.; and Darborowski, Ignace J., to AMBAC Industries, Incorporated. Fuel injection pump timing device. 3,726,608, 4-10-73, Cl. 417-212.000.
Bosund, Sven Ingmar Walton: *See—*
Bengtsson, Bengt Lennart; Bosund, Sven Ingmar Walton; and Hylmo, Bertil, 3,734,751.
Boswell, Benjamin C., Jr.: *See—*
Robbins, Robert; and Boswell, Benjamin C., Jr., 3,770,721.
Boswell, George Albert; and Scribner, Richard M., to Du Pont de Nemours, E. I., and Company. Polylactide-drug mixtures. 3,773,919, 11-20-73, Cl. 424-19.000.
Boswell, Gordon Henry. Oiling means for pumps. 3,738,453, 6-12-73, Cl. 184-6.160.
Boswell, Howard G.; and Partridge, Charles C. Rotary valve operator. 3,737,142, 6-5-73, Cl. 251-58.000.
Boswell, Robert F., Jr.: *See—*
Duncan, Robert L.; and Boswell, Robert F., Jr., 3,726,898.
Bosworth, Clive James Arthur; and Duguid, William Richardson, to British Steel Corporation. Level control in continuous casting. 3,768,542, 10-30-73, Cl. 164-155.000.
Bosworth, Delbert B.; and Fournier, Joseph R., to United Industrial Syndicate, Inc. Constant tensioning device for the chains of conveyors. 3,718,250, 2-27-73, Cl. 198-208.000.
Bosworth, Donald Frederick, to Desoutter Brothers Limited. Press-tool sets. 3,752,540, 8-14-73, Cl. 308-4.00c.
Bosworth, Jonathan E.: *See—*
Goldberg, Herbert E.; and Bosworth, Jonathan E., 3,766,928.
Bosworth, Thomas J.; and Jackson, Lowell L., to Boeing Company, The. Apparatus for welding corrugated materials by plasma electron beam welding system. 3,748,432, 7-24-73, Cl. 219-121.0eb.
Bosyk, William, to Package Machinery Company. Solenoid operated door opener for plastic molding machines. 3,734,664, 5-22-73, Cl. 425-151.000.
Boterweg, Jelle. Watering apparatus for poultry. 3,714,929, 2-6-73, Cl. 119-80.000.
Boterweg, Jelle, to Big Dutchman (Nederland) N.V. Battery for fattening broil chickens. 3,738,323, 6-12-73, Cl. 119-18.000.
Bothe, Werner, to Maschinenfabrik Hasenclever GmbH. Forging press with adjustable working gap. 3,726,123, 4-10-73, Cl. 72-441.000.
Botka, Julius K., to Hewlett-Packard Company. Impedance probe for swept network analyzer system. 3,732,490, 5-8-73, Cl. 324-57.00r.
Botker, Kurt, to North American Philips Corporation. Ignition interlock system. 3,718,128, 2-27-73, Cl. 123-179.00k.
Botkin, Albert L. Tamper-proof closure arrangement. 3,716,162, 2-13-73, Cl. 215-42.000.
Botkin, Lawrence A., to Fruehauf Corporation. Containerized tank system. 3,726,431, 4-10-73, Cl. 220-12.000.
Botnick, Irgin. Flush button mixing valve. 3,752,191, 8-14-73, Cl. 137-636.100.
Botnick, Irlin: *See—*
Botnick, Irlin; and Golrick, Philip D. (said Golrick assor to said) , 3,781,034.
Botnick, Irlin; and Golrick, Philip D., said Golrick assor to said Botnick, Irlin. Vehicle safety harness rigging. 3,781,034, 12-25-73, Cl. 280-150.0sb.
Botnick, Irlin H.: *See—*
Botnick, Irlin H.; and Polster, Lewis H. (said Polster assor. to said), 3,777,840.
Botnick, Irlin H.; and Polster, Lewis H., said Polster assor. to said Botnick, Irlin H. Door mounted seat belt locking retractor. 3,777,840, 12-11-73, Cl. 180-82.00c.
Botos, Stephen J. Coarse and fine adjustment and positioning mechanisms. 3,727,471, 4-17-73, Cl. 74-89.150.
Botsch, Bertram, to Machinenfabrik H. Geiger. Aerating and agitating device. 3,780,998, 12-25-73, Cl. 261-91.000.
Botsford, Samuel. Paper clip. 3,724,036, 4-3-73, Cl. 24-261.0pc.
Botsolas, Chris J. Pipefitting cover. 3,732,894, 5-15-73, Cl. 138-178.000.
Bott, Helmuth, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Device in vehicles, particularly automotive vehicles, for skid prevention. 3,719,246, 3-6-73, Cl. 180-103.000.
Bott, John A. Spare tire hoist. 3,776,511, 12-4-73, Cl. 254-1.000.
Bott, Lawrence L., to Nalco Chemical Company. Secondary recovery of petroleum. 3,721,295, 3-20-73, Cl. 166-295.000.
Bott, Lawrence L., to Nalco Chemical Company. Inverted latex water flooding method. 3,724,547, 4-3-73, Cl. 166-274.000.
Bott, Lawrence L., to Nalco Chemical Company. Secondary recovery of petroleum. 3,779,316, 12-18-73, Cl. 166-276.000.
Bott, Lawrence L., to Nalco Chemical Company. Inverted mixed latex for water flooding. 3,780,806, 12-25-73, Cl. 166-275.000.
Bott, Wolfgang: *See—*
Hirn, Helmut; and Bott, Wolfgang, 3,774,640.
Botta, Lilly U.: *See—*
Alberici, Gisele M.; Botta, Lilly U.; and Jahrens, Henry W., 3,739,437.
Bottaccini, Manfred R.: *See—*
Gleason, Donald M.; Bottaccini, Manfred R.; and Reilly, Robert J., 3,750,648.
Bottai, Gabriele: *See—*
Cozza, Giorgic; Piccolo, Luigi; and Bottai, Gabriele, 3,773,911.
Bottalico, Frank P. Vehicle shock absorber. 3,770,290, 11-6-73, Cl. 280-106.50r.
Bottalico, Frank P. Incinerator. 3,773,001, 11-20-73, Cl. 110-18.00r.
Bottas, Michael J.; and Difley, Charles R., to Whirlpool Corporation. Refuse compactor with ram wiper. 3,736,864, 6-5-73, Cl. 100-53.000.
Bottasso, Franco; Pacciarini, Antonio; and Caretta, Renato. Method for partially curing building up pneumatic tires. 3,713,929, 1-30-73, Cl. 156-127.000.
Bottcher, James H.; Pyles, Robert L.; and Rawls, John L., Jr., to Sperry Rand Corporation. Traveling wave tube interaction circuit manufacture. 3,748,729, 7-31-73, Cl. 29-600.000.
Bottcher, Lutz; and Heyne, Karl-August, to Bosch, Robert, Elektronik G.m.b.H. Multiple stage hearing aid transistor amplifier having signal voltage controlled frequency dependent network. 3,764,745, 10-9-73, Cl. 179-1.00f.
Bottcher, Rolf, to VEB Polygraph Leipzig Kombinat fur Polygraphische Maschinen und Ausrustungen. Sheet conveying device. 3,716,227, 2-13-73, Cl. 271-79.000.
Bottcher, Rolf, to VEB Polygraph Leipzig Kombinat fur Polygraphische Maschinen und Ausrustungen. Apparatus for connecting an uncadenced apparatus to a following cadenced apparatus for the handling of sheets. 3,716,228, 2-13-73, Cl. 271-47.000.
Bottcher, Rolf, to VEB Polygraph Leipzig Kombinat fur Polygraphische Maschinen und Ausrustungen. Stack forming and handling machine. 3,735,695, 5-29-73, Cl. 100-7.000.
Bottcher, Winfried, to VEB Polygraph Leipzig Kombinat fur Polygraphische Maschinen und Ausrustungen. Apparatus for stitching sheet materials. 3,763,798, 10-9-73, Cl. 112-21.000.
Bottcher, Winfried, to VEB Polygraph Leipzig. Method for connecting superimposed layers of sheet material and apparatus for carrying out the method. 3,763,799, 10-9-73, Cl. 112-21.000.
Bottemiller, Donald L., to Homecrest Company. Furniture construction. 3,771,583, 11-13-73, Cl. 160-327.000.
Bottenberg, Warren E., to B-M-B Company, Inc. Vehicle suspension system. 3,767,223, 10-23-73, Cl. 280-106.50r.
Bottenbruch, Ludwig: *See—*
Darson, Gerhard; Bottenbruch, Ludwig; and Schnell, Hermann, 3,755,467.
Gilch, Heinrich; Bottenbruch, Ludwig; Zecher, Wilfried; and Merten, Rudolf, 3,712,907.
Bottenbruch, Ludwig; Michael, Dietrich; and Nielinger, Werner, to Farbenfabriken Bayer Aktiengesellschaft. Homogeneous mixtures of polyamides and hydroxyl-containing polyolefines. 3,726,945, 4-10-73, Cl. 260-857.001.
Botterman, David L.; and Lewis, Philip W., to Container Corporation of America. Carry-out tray. 3,730,419, 5-1-73, Cl. 229-28.000.
Bottini, Michael Lucien, to Monsanto Company. Opto-isolator devices and method for the fabrication thereof. 3,727,064, 4-10-73, Cl. 250-217.00s.
Botto, Giuseppe. Apparatus for excavating deep holes and trenches. 3,750,770, 8-7-73, Cl. 175-173.000.
Bottomley, Gary J.; Nichols, William M.; Watkins, Clyde E.; and Wilson, Larry T., to Johnson, Gordon, Company, mesne. Apparatus for eviscerating poultry. 3,766,602, 10-23-73, Cl. 17-11.000.
Bottomley, Robert Richard: *See—*
Schillinger, Joseph F.; and Bottomley, Robert Richard, 3,734,284.
Bottoms, Garrell C., to Continental Oil Company. Rotary distributor means and method. 3,780,887, 12-25-73, Cl. 214-17.0cb.
Bottoms, Harry Simister; and Lewis, Geoffrey Arthur, to Lucas, Joseph, (Industries) Limited. Electrically driven pump. 3,723,028, 3-27-73, Cl. 417-356.
Bottoms, William A., to Eaton Yale & Towne Canada Limited. Method and apparatus for delimbing a tree. 3,719,217, 3-6-73, Cl. 144-2.00z.
Bottorf, Robert G., to FMC Corporation. Walking beam conveyor with weighing apparatus. 3,736,997, 6-5-73, Cl. 177-145.000.
Bottorf, Stewart F.: *See—*
Edwards, Harrison F.; and Bottorf, Stewart F., 3,767,992.
Edwards, Harrison F.; and Bottorf, Stewart F., 3,770,965.



Bottorff, Edmond M., to Lilly, Eli, and Company. Preparation of nitrobenzyl alcohol mesylates an tosylates. 3,745,188, 7-10-73, Cl. 260-456.00r.
Botts, John W.; and Roberts, Charles W., to Goodyear Tire & Rubber Company, The. Method of making non-cracking decorative sidewalls of tires. 3,769,123, 10-30-73, Cl. 156-116.000.
Botts, Marion F., to Chemagro Corporation. Phosphonamidothioates. 3,726,948, 4-10-73, Cl. 260-944.000.
Bottum, Edward W.; and Kozinski, Richard C., said Kozinski assor. to Chrysler Corporation and said Bottum assor. to Refrigeration Research, Inc. Vehicle air conditioning system with suction accumulator. 3,766,748, 10-23-73, Cl. 62-243.000.
Botwin, Leo; Chanzit, Lawrence; and Ruttenberg, Kenneth A., to United Aircraft Corporation. Phase interferometer radar. 3,728,727, 4-17-73, Cl. 343-16.00r.
Botz, Roland, to Plasti-Fiber Formulations, Inc. Bagasse reinforced resin bodies and method of making same. 3,714,084, 1-30-73, Cl. 260-9.000.
Botz, Roland, to Plasti-Fiber Formulations, Inc. Bagasse fiber product and process. 3,734,766, 5-22-73, Cl. 117-100.00a.
Botz, Roland, to Plasti-Fiber Formulations, Inc. Bagasse reinforced vinyl roofing composition. 3,761,431, 9-25-73, Cl. 260-17.4cl.
Botzum, Richard A.; and Peck, Donald W., to Northrop Corporation. Radio tracking system. 3,739,378, 6-12-73, Cl. 343-6.50r.
Botzum, Richard A., to Northrop Corporation. Electromechanical flare launch and jettison device. 3,747,896, 7-24-73, Cl. 254-150.000.
Boucaud, Andre Jean. Extensible structure. 3,745,725, 7-17-73, Cl. 52-67.000.
Bouchard, Andre C.; Gaudet, Peter W.; and Thomas, Martha J. B., to Sylvania Electric Products, Inc. Method of manufacturing arc discharge lamps. 3,753,759, 8-21-73, Cl. 117-33.501.
Bouchard, Constant L.: *See—*
Balje, Otto Erich; Bouchard, Constant L.; Knowles, James; Kosacheff, Dimitri; Pulick, Emil A.; Pulick, Michael A.; and Topouzian, Armen, 3,713,294.
Bouchard, Kenneth G.; and Teich, Wesley W., to Raytheor. Company. Heating element for flush top ranges. 3,733,462, 5-15-73, Cl. 219-464.000.
Bouchard, Richard J.; and Sanders, William R., to Sanders Associates, Inc. Graphical keyboard operated display device. 3,731,299, 5-1-73, Cl. 340-324.00a.
Bouchard, Robert Joseph, to Du Pont de Nemours, E. I., and Company. Compositions for making resistors comprising lead-containing polynary oxide. 3,775,347, 11-27-73, Cl. 252-518.000.
Bouchaudon, Jean; and Jolles, Georges, to Rhone-Poulenc S.A. Cyclopeptides derived from polymyxins and their preparation. 3,753,970, 8-21-73, Cl. 260-112.500.
Boucher, Harold T.; Wheeler, Frank Arthur; and West, John Martin, to British Aircraft Corporation Limited. De-gassing of liquids. 3,722,180, 3-27-73, Cl. 55-46.000.
Boucher, Jean Francois: *See—*
Vu, Quang Dang; Audibert, Francois; Boucher, Jean Francois; and Deville, Henri, 3,773,658.
Boucher, Jean Raymond: *See—*
Iyengar, Rama; Zuber, Bretislav Paul; and Boucher, Jean Raymond, 3,738,141.
Boucher, Raymond, to Kamborian, Jacob S. Upper stretching and clamping mechanism. 3,719,964, 3-13-73, Cl. 12-10.500.
Boucher, Raymond; and Boudreau, Robert, to Hedstrom Company. Playseat with finger guard. 3,754,786, 8-28-73, Cl. 297-5.000.
Boucher, Raymond M. G., to Wave Energy Systems, Inc. Method for continuous sterilization at low temperature. 3,708,263, 1-2-73, Cl. 21-54.00a.
Boucher, Raymond M. G., to Wave Energy Systems, Inc. Method and apparatus for surface sterilization. 3,753,651, 8-21-73, Cl. 21-54.00r.
Boucher, Raymond R.: *See—*
Phipps, Charles M.; and Boucher, Raymond R., 3,712,368.
Boucherie, Gerard B. Devices for automatically shaping and profiling workpieces. 3,762,274, 10-2-73, Cl. 90-13.00b.
Bouchet, Claude; Meliani, Roger; and Tomasovitch, Vladimir, to International Standard Electric Corporation. Line finder for a common control telephone exchange. 3,760,113, 9-18-73, Cl. 179-18.0fg.
Bouchet, Robert, to Naphtachimie. Reactor for preparation of chlorohydrins of 1,2-glycols. 3,721,530, 3-20-73, Cl. 23-285.000.
Bouchet, Roland: *See—*
Alheritiere, Louis; Gobron, Georges; Falize, Claude; Diet, Jean; Roux, Bernard; and Bouchet, Roland, 3,761,521.
Bouchilloux, Jean; Fabre, Albert; and Faure, Alphonse, to Rhone-Poulenc S.A. Anisotropic organosilicon polymer membrane. 3,754,375, 8-28-73, Cl. 55-16.000.
Bouchnik, Joseph. Delta-wing aircraft. 3,738,595, 6-12-73, Cl. 244-43.000.
Boudeman, Robert J., to Wells Manufacturing Corporation. Portable, light-weight fruit gathering device. 3,739,561, 6-19-73, Cl. 56-329.000.
Boudet, Jean; Wajs, Georges; Gomond, Gerard; and Billault, Pierre, to Essilor International (Compagnie Generale d'Optique). Production of contact lenses. 3,761,208, 9-25-73, Cl. 425-352.000.
Boudinet, Guy; and Rocca-Serra, Jean, to Compagnie Generale d'Electricite. Gas laser generator devices. 3,781,710, 12-25-73, Cl. 331-94.500.
Boudouris, Angelo; and Plumadore, Harold M., to Eprad Incorporated. Pick-off device. 3,718,388, 2-27-73, Cl. 352-92.000.
Boudouris, Georges; Kalopissis, Gregoire; Levesque, Jean-Luc; and Roussopoulos, Paul, to L'Oreal. Apparatus for treating hair utilizing dielectric losses. 3,760,148, 9-18-73, Cl. 219-222.000.
Boudreau, Alban M., to Hedstrom Company. Infant's dressing table securement. 3,779,540, 12-18-73, Cl. 269-328.000.
Boudreau, Paul E.; Chien, Robert T.; and Peck, Charles C., to International Business Machines Corporation. Method and apparatus for detecting odd numbers of errors and burst errors of less than a predetermined length in scrambled digital sequences. 3,775,76, 11-27-73, Cl. 340-146.1al.
Boudreau, Paul E.; Dixon, Roy C.; Donnan, Robert A.; and Moss, Eual A., to International Business Machines Corporation. Terminal interface for a serial loop communications system having store and forward capability. 3,781,815, 12-25-73, Cl. 340-172.500.
Boudreau, Robert: *See—*
Boucher, Raymond; and Boudreau, Robert, 3,754,786.
Boudreau, Robert J.: *See—*
George, Philip D.; and Boudreau, Robert J., 3,772,578.
Boudry, Jean Marie: *See—*
Moreau, Jean Pierre; and Boudry, Jean Marie, 3,725,791.
Boudry, Jean-Marie, to Sescosem-Societe Europeenne de Semiconducteurs et de Microelectronique. MOS transistor circuits for pulse-shaping. 3,742,260, 6-26-73, Cl. 307-304.000.
Boue, Guy; and Vidberg, Marcel, to Automobiles Peugeot and Regie Nationale des Usines Renault. Device for regulating the flow of fuel injected into an internal combustion engine. 3,757,796, 9-11-73, Cl. 123-97.00b.
Bouffard, Jean; and Dionne, Yvon Onil, to Northern Electric Company Limited. Method and apparatus for controlling the path of an elongate article. 3,722,770, 3-27-73, Cl. 226-45.000.
Boughton, Olin W.; and von Langen, August R., to American Optical Corporation. Microscope focus adjustment mechanism. 3,768,885, 10-30-73, Cl. 350-84.000.
Bougiouris, Evangelos, to Sagarian, John. Machine forming teeth at both faces and the periphery of a rotary blank. 3,739,687, 6-19-73, Cl. 90-15.10r.
Bougle, Francoise, to Compagnie Generale de Radiologie. X-ray tube having a rotary anode. 3,710,162, 1-9-73, Cl. 313-60.000.
Bouhou, Andre: *See—*
Escolano, Serrano Antonio; and Bouhou, Andre, 3,765,540.
Bouiller, Jean Georges; Joubert, Raymond Jean Maurice; Lacroix, Armand Jean-Baptiste; and Bauer, Louis Jules; deceased (by Bauger, Madeleine Henriette Aimee; and Olivier, Jeane Denise), said Bouiller, said Joubert and said Lacroix assors. to Societe Nationle d'Etude et de Construction de Moteurs d'Aviation. Bearing. 3,744,861, 7-10-73, Cl. 308-187.000.
Bouiller, Jean Georges; Lacroix, Armand Jean-Baptiste; and Bauger, Louis Jules; deceased (by Bauger, Madeleine Henriette Aimee; and Olivier, Jeanne Denise; legal representatives), to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Bearig arrangement for turbine engine. 3,748,058, 7-24-73, Cl. 415-123.000.
Bouiller, Jean Georges; Bauger, Louis Jules; and Lacroix, Jean-Baptiste, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Fan for gas turbine unit. 3,768,933, 10-30-73, Cl. 417-408.000.
Bouillon, Gratien; Tordion, Georges; and Tremblay, Gilles. Apparatus for testing the profile and the pitch of involute gear teeth. 3,757,425, 9-11-73, Cl. 33-177.50d.
Bouix, Henri: *See—*
Jampy, Pierre; Bouix, Henri; and Armand, Rene, 3,720,133.
Jampy, Pierre; Bouix, Henri; and Armand, Rene, 3,745,878.
Boul, Pierre Germain R.: *See—*
Berthelemy, Jacques; Boul, Pierre Germain R.; and Sauvan, Jacques Louis, 3,735,109.
Boulaine, Paul: *See—*
Hastings, James T.; and Boulaine, Paul, 3,729,754.
Boulanger, Henry J., to Texas Instruments, Incorporated. Pushbutton keyboard system. 3,725,907, 4-3-73, Cl. 340-365.00a.
Boulanger, Laurent A. Prefabricated building structures. 3,738,073, 6-12-73, Cl. 52-282.000.
Boulanger, Peter F., 20% to Lee, Raymond, Organization, Inc., The. Aerial toy. 3,751,850, 8-14-73, Cl. 76-86.000.
Boulard, Lucien. Scrubbing and massaging apparatus. 3,768,462, 10-30-73, Cl. 128-44.000.
Bould, Fred; and Davies, Norman, to Westinghouse Electric Corporation. Circuit interrupter with contact actuating lever arm adjusting means. 3,755,639, 8-28-73, Cl. 200-153.00h.
Bouldin, Thurman N. Non-fatal cock fighting. 3,771,786, 11-13-73, Cl. 273-1.00e.
Bouley, Jean Claude, to Bunker Ramo Corporation, The. Electric contacts. 3,732,531, 5-8-73, Cl. 339-217.00r.
Bouligny, R. H., Inc.: *See—*
Pierce, John H.; Credle, Walter Carl; and Crawford, Lewis O., 3,741,453.
Pierce, John H., 3,754,530.

Boulin, Jacques R.; and Nepomiastchy, Alexis, to Societe Anonyme de Telecommunications. Method of building for electric filters. 3,755,762, 8-28-73, Cl. 333-70.00s.
Bouloutian, Ara: *See—*
Wenner, William S.; Stuhlmuller, Brian J.; Bouloutian, Ara; and Zakarian, Paul, 3,712,468.
Boulter, David Gordon, to International Computers Limited. Document detection device responsive to gas stream pressure changes. 3,774,192, 11-20-73, Cl. 340-257.000.
Boultinghouse, Harold D., to Phillips Petroleum Company. Article and method of manufacture. 3,709,771, 1-9-73, Cl. 161-67.000.
Boulton, Norman B.: *See—*
Austin, Max M.; and Boulton, Norman B., 3,709,339.
Austin, Max M.; and Boulton, Norman B., 3,731,773.
Boulton, William, Limited: *See—*
Cunningham-Smith, David, 3,777,770.
Fahey, Denis; and Clarke, Reginald L., 3,724,146.
Bouman, Antonius Fredericus Mattias; Brands, Antoon Hendrikus; and Mulder, Willem, to N.V. Hollandse Signaalapparaten. System for recording and reproducing radar video signals. 3,710,380, 1-9-73, Cl. 343-5.00r.
Bounds, Wallace A. Inertially operable electricity switches. 3,739,118, 6-12-73, Cl. 200-61.45r.
Bouras, Sam. Cooling radiator. 3,750,744, 8-7-73, Cl. 165-76.000.
Bourassa, Hugh A.: *See—*
Sorenson, Charles E.; Stubblefield, Clyde D.; De Baillie, Arnold A.; Bramley, Robert K.; and Bourassa, Hugh A., 3,771,296.
Bourat, Guy; and Margraff, Rodolphe, to Rhone-Poulenc S.A. Vinyl alcohol copolymers containing hydroxy sulfonyl groups. 3,741,945, 6-26-73, Cl. 260-79.30r.
Bourat, Guy; and Fabre, Albert, to Rhone-Poulenc S.A. Microporous membranes. 3,751,536, 8-7-73, Cl. 264-47.000.
Bourbeau, Frank J., to General Motors Corporation. DC to AC static power converter with short cuicuit protection. 3,758,841, 9-11-73, Cl. 321-14.000.
Bourchier, Kenneth Arthur; and Stewart, Donald Fergusson, to Imperial Chemical Industries of Australia and New Zealand Limited. Process for the coproduction of zinc and sulphuric acid from zinc sulphide ores. 3,753,692, 8-21-73, Cl. 75-115.000.
Bourdale, Lucien R. Device for filtering a particle-laden fluid. 3,741,892, 6-26-73, Cl. 210-65.000.
Bourdier, Jean-Claude. Installation for trying on wearing apparatus. 3,729,839, 5-1-73, Cl. 35-58.000.
Bourdon, Louis: *See—*
Lehureau, Jean; and Bourdon, Louis, 3,765,933.
Bourdoncle, Bernard: *See—*
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Bourez, Henri: *See—*
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Bourg, Ronald G.: *See—*
Chiasson, Randall J.; Bourg, Ronald G.; and Arceneaus, Tilton J., 3,724,555.
Bourgain, Louis; Dreyfus, Gaspard; Le Nabour, Marcel; and Rouquie, Georges. Bearing device for a rotating shaft. 3,765,735, 10-16-73, Cl. 308-140.000.
Bourgau, Yolande; Leroi, Jean-Claude; and Mounier, Francois, to Rhone-Progil. Crystallization process for the recovery of alkaline nitrilotraicetates. 3,748,355, 7-24-73, Cl. 260-534.00e.
Bourgeault, Leo B.: *See—*
Kautz, Robert F.; and Bourgeault, Leo B., 3,723,765.
Bourgeois, Alain Charles, to Elastelle Paul Fontanille & Fils. Elastic ribbon having a band of fancy designs and a method of manufacture of this ribbon. 3,740,974, 6-26-73, Cl. 66-193.000.
Bourgeois, Jacques; and Blanchard, Hubert, to Sidel Societe Anonyme. Device for manufacturing a hollow article of plastic material. 3,752,627, 8-14-73, Cl. 425-298.000.
Bourgeois, Joseph F., to Amana Refrigeration, Inc. Door closing and check device for refrigerators, freezers and the like. 3,722,031, 3-27-73, Cl. 16-153.000.
Bourgeois, Joseph F., to Amana Refrigeration, Inc. Ram head for trash compactor. 3,732,806, 5-15-73, Cl. 100-29.00s.
Bourgeois, Joseph F., to Amana Refrigeration, Inc. Trash compactor ram. 3,756,150, 9-4-73, Cl. 100-229.00a.
Bourgeois, Joseph F., to Amana Refrigeration, Inc. Trash container for trash compactor. 3,762,599, 10-2-73, Cl. 220-63.00r.
Bourgeois, Louis: *See—*
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Degueldre, Louis; Gobillon, Yves; Clerbois, Lucien; and Bourgeois, Louis, 3,736,270.
Degueldre, Louis; Clerbois, Lucien; and Bourgeois, Louis, 3,773,915.
Bourgeois, Norbert, to Etudes et Bonneterie S.A. Device for the selection of the needles or knitting accessories of circular knitting machines. 3,710,594, 1-16-73, Cl. 66-50.00r.
Bourgoin, Gerard; Kumurdjian, Pierre; Loitiere, Alain; and Pere, Jean-Francois, to Commissariat a l'Energie Atomique. System for adjusting the value of a resistance to a predetermined value. 3,725,685, 4-3-73, Cl. 235-151.100.
Bourgoin, Jacques; Budin, Jean-Pierre; and Lenfant, Rene, to Compagnie Generale d'Electricite. Recording superimposed holograms. 3,774,986, 11-27-73, Cl. 350-3.500.
Bourgraf, Elroy E.: *See—*
Ferneau, Richard H.; and Bourgraf, Elroy E., 3,752,527.
Bourguet, Jean-Marie; and Perret, Jean Charles, to Compagnie Francaise d'Etudes et de Construction Technip. Method of regulation of the temperature of the liquefied gas or gaseous mixture in an apparatus for the liquefaction of gaseous fluids. 3,742,721, 73-73, Cl. 62-37.000.
Bouricius, Willard G.; Jessep, Donald C., Jr.; Carter, William C.; and Wadia, Aspi B., to International Business Machines Corporation. System for controlling power consumption in a computer. 3,736,569, 5-29-73, Cl. 340-172.500.
Bourke, John David, to Robbins & Myers, Inc. Temperature control of stator/rotor fit in helical gear pumps. 3,771,906, 11-13-73, Cl. 418-48.000.
Bourke, Patrick Terence. Marble faced wall panels and method of making same. 3,723,233, 3-27-73, Cl. 161-68.000.
Bourland, Andre: *See—*
Fourcade, Robert; and Bourland, Andre, 3,731,791.
Bourne, Henry Arthur. Curtain track system. 3,774,665, 11-27-73, Cl. 160-343.000.
Bourne, James G.: *See—*
Roblin, John M.; Cole, Frank J.; and Bourne, James G., 3,725,045.
Bourne, Richard Curtis. One-wheel vehicle. 3,777,835, 12-11-73, Cl. 180-10.000.
Bournier, Edgard: *See—*
Blanchaud, Maurice; and Bournier, Edgard, 3,727,542.
Bourns, Inc.: *See—*
Baldwin, Kenneth B.; and Sullivan, Ronald D., 3,760,324.
Bruder, Frank J.; Parham, James F.; and Steuer, Victor F., 3,745,508.
Bruder, Frank J., 3,750,078.
Chapman, John L., 3,777,109.
De Rouen, Joseph R.; Baldwin, Kenneth B.; and Martin, Henry F., 3,729,817.
Frey, Sydney W., Jr.; Gaa, Donald L.; and Tetamore, Robert W., 3,723,937.
Frey, Sydney W., Jr.; and Gaines, Robert W., 3,733,695.
Frey, Sydney W., Jr., 3,757,732.
Froebe, Ronald L.; and Hatch, Howard H., 3,766,646.
Gaskill, Robert E.; and Frey, Sydney W., Jr., 3,737,634.
Gramm, Eugene R., 3,723,938.
Hluchan, Stephen Andrew; and Tainter, Leland B., Jr., 3,779,075.
Kucharski, Lawrence, Jr., 3,768,325.
Bouron, Jean-Pierre: *See—*
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Bourquardez, Gaston; Gouzien, Michel Jean Yves; and Mercier, Rene, to Societe Nationale Industrielle Aerospatiale. Helicopter rotors comprising a reinforced plastics hub. 3,762,834, 10-2-73, Cl. 416-134.000.
Bourquardez, Gaston; and Coffy, Rene Louis, to Societe Nationale Industrielle Aerospatiale. Connecting element between two members enabling them to rotate in relation to one another in three axes. 3,765,267, 10-16-73, Cl. 74-581.000.
Bourquin, Jean-Pierre; Schwarb, Gustav; and Waldvogel, Erwin, to Sandoz Ltd. Organic compounds. 3,749,786, 7-31-73, Cl. 424-267.000.
Bourquin, Jean-Pierre; Schwarb, Gustav; and Waldvogel, Erwin, to Sandoz Ltd. 4H-Benzo[4,5]cyclohepta[1,2-b]thiophen-10(9H)-ones. 3,770,728, 11-6-73, Cl. 260-240.0tc.
Bourree, Rene: *See—*
Ancey, Gerard; and Bourree, Rene, 3,750,898.
Bourrel, Jean; Remond, Maurice; Potie, Noel; and Lagacherie, Guy, to Societe Nationale des Gas du Sud-Quest and Compagnie des Fours Industries. Heated revolving drum. 3,729,180, 4-24-73, Cl. 432-228.000.
Bourrie, Georges: *See—*
Savarieau, Henri; and Bourrie, Georges, 3,753,316.
Bourseaux, Friedrich: *See—*
Arnold, Herbert; Brock, Norbert; Bourseaux, Friedrich; and Bekel, Heinz, 3,732,340.
Boursier, Pierre, to Keyes Fibre Company. Stackable package with latticed cover. 3,749,235, 7-31-73, Cl. 206-45.310.
Bous, Karl; Rosenkranz, Dieter; and Gorgen, Kurt, to Rosenkranz & Co., GmbH, Firma. System for bulking yarn. 3,763,669, 10-9-73, Cl. 68-5.00d.
Bousaid, Issam S.; Fontaine, Marc F.; and Korstad, Ralph J., to Texaco Inc. Method for initiating in-situ combustion. 3,774,682, 11-27-73, Cl. 166-260.000.
Bousky, Samuel, to Ampex Corporation. Optical intensity matching means for two light beams. 3,743,378, 7-3-73, Cl. 350-150.000.
Bousky, Samuel, to Ampex Corporation. Light scanning apparatus and method for converting display information into storable video data. 3,781,464, 12-25-73, Cl. 178-5.400.



Boussac, Jean-Claude. Method of articles of clothing. 3,713,174, 1-30-73, Cl. 2-74.000.
Bousseau, Marcel-Gustave; and Berihoumifux, Robert, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Vacuum pumps. 3,749,528, 7-31-73, Cl. 417-424.000.
Boussois Souchon Neuvesel: *See—*
Jacquot, Michel; and Amicel, Charles, 3,744,697.
Lissarrague, Maurice, 3,750,338.
Boussuges, Pierre, to Societe Pour l'Etude et de Developpement des Turbines Hydrauliques (Neyrpic-SFAC). Turbine-pumps. 3,756,739, 9-4-73, Cl. 415-161.000.
Boustany, Kamel; and Coran, Aubert Yaucher, to Monsanto Company. Mixed discontinuous fiber reinforced composites. 3,709,845, 1-9-73, Cl. 260-17.4bb.
Boustany, Kamel; and Coran, Aubert Y. Inhibiting premature vulcanization of rubber with N-thio hydrazodicarboxylate. 3,725,361, 4-3-73, Cl. 260-79.50b.
Boustany, Kamel; and Vander Kool, John P., to Monsanto Company. N-(Thio) diamides. 3,732,271, 5-8-73, Cl. 260-453.00r.
Boustany, Kamel; D'Amico, John Joseph; and Sullivan, Alfred Bay, to Monsanto Company. Nitrobenzothiazole alkyl or cycloalkyl disulfides. 3,770,707, 11-6-73, Cl. 260-79.50b.
Boutell, Henry E., to EMF, Inc. Method for making motor shells and the like. 3,732,614, 5-15-73, Cl. 29-477.000.
Bouthors, Pierre; and Lefeuvre, Andre, to Regie Nationale des Usines Renault and Automobiles Peugeot. Electric motor and reduction gearing unit. 3,741,024, 6-26-73, Cl. 74-220.000.
Boutillier, Pierre Emile, to Societe Anonyme: Ugine Kuhlmann. Method for extruding profiled sections of expanded thermoplastic material having an integral skin. 3,764,642, 10-9-73, Cl. 264-47.000.
Boutin, Francois Regis. Preparation of aluminum having block texture. 3,716,419, 2-13-73, Cl. 148-11.50a.
Boutin, Henri P.: *See—*
Sachs, Reynold M.; Boutin, Henri P.; and Cicchiello, Frank, 3,746,793.
Boutle, David Leonard: *See—*
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Bouton, Thomas Chester: *See—*
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Kern, William John; Bouton, Thomas Chester; and Adams, Harold Elwood, 3,723,575.
Boutros-Attia, Radamis; La France, Conrad; and Nixon, Kenneth Edwin, to Bell Canada-Northern Electric Research Limited. Linkage arrangement in pivoting armature transducer. 3,777,078, 12-4-73, Cl. 179-114.000.
Boutsicardis, Stephen P., to Firestone Tire & Rubber Company, The. Reinforced butadiene-styrene copolymers. 3,773,709, 11-20-73, Cl. 260-41.50a.
Bouvet, Jean: *See—*
Schaeffer, Gerard; Trub, Jean; Bouvet, Jean; and Kohler, Andre, 3,737,151.
Bouvet, Rene Jules: *See—*
Daeninckx, Jean; and Bouvet, Rene Jules, 3,717,303.
Bouvier, Daniel, to S. T. Supont Societe Anonyme. Cigarette lighter using microencapsulated fuel. 3,723,051, 3-27-73, Cl. 431-267.000.
Bouvier, Daniel, to S.T. Dupont. Cigarette lighter. 3,729,289, 4-24-73, Cl. 431-344.000.
Bouvier, John J.: *See—*
Schwarzkopf, Henry; and Bouvier, John J., 3,763,601.
Bouvier, John J., to Ferro Corporation. Method of making diamond coated surface. 3,713,795, 1-30-73, Cl. 51-295.000.
Bouvrande, Andre Maurice, to Societe De Telecommunications Electronique Aeronautique et Maritime "T.E.A.M.". Luminous switching key- or push-button. 3,755,661, 8-28-73, Cl. 240-2.00s.
Bouwhuis, Gijsbertus; Haans, Petrus Franciscus Antonius; and Peek, Theodorus Hendrikus, to U.S. Philips Corporation. Gas discharge laser. 3,735,281, 5-22-73, Cl. 331-94.500.
Boux, Joseph F.: *See—*
Pennachetti, John T.; and Boux, Joseph F., 3,769,053.
Pennachetti, John T.; and Boux, Joseph F., 3,769,054.
Bova, Joseph C.: *See—*
O'Ryan, Leona C., 3,744,472.
Bovati, Costantino, to Officine Meccaniche di Alme S.p.A. Device for smoothing the surface of turned wood elements. 3,760,537, 9-25-73, Cl. 51-145.000.
Bovee, Boyd L. Ski stopping structure. 3,781,026, 12-25-73, Cl. 280-11.13b.
Bovenkerk, Harold P., to General Electric Company. Thermistor. 3,735,321, 5-22-73, Cl. 338-22.00r.
Bovenkert, Harold P.; and Malloy, Glenn T., to General Electric Company. Method of making boron-alloyed diamond compacts and beryllium-alloyed cubic boron nitride compacts. 3,744,982, 7-10-73, Cl. 51-307.000.
Bovenzi, Joseph L. Adjustable lantern bracket for boats. 3,752,108, 8-14-73, Cl. 114-221.000.
Bovio, Robert J., to GTE Sylvania Incorporated. Cold trap. 3,721,100, 3-20-73, Cl. 62-55.500.
Bowart, Walter H. Oracular card game. 3,749,406, 7-31-73, Cl. 273-161.000.
Bowden, Kenneth; Davis, Robin Alastair; Hills, Derek William; and Sach, George Sidney, to Smith Kline & French Laboratories Limited. Acetylenic carbamates. 3,709,925, 1-9-73, Cl. 260-471.000.
Bowden, Roy Dennis; and Seaton, Thomas, to Imperial Chemical Industries, Limited. Manufacture of halogenated pyridine derivatives. 3,725,414, 4-3-73, Cl. 260-290.0hl.
Bowden, Roy Dennis, to Imperial Chemical Industries Limited. Process for producing bipyridyls. 3,751,422, 8-7-73, Cl. 260-296.00d.
Bowden, Roy Dennis, to Imperial Chemical Industries Limited. Preparation of 2-alkpoly/hydroxy pyrimidines. 3,758,472, 9-11-73, Cl. 260-251.00r.
Bowden, Roy Dennis, to Imperial Chemical Industries Limited. Production of oxygen-containing heterocyclic compounds. 3,773,796, 11-20-73, Cl. 260-345.900.
Bowden, Woodrow R., Jr.; Owen, Dave L.; Calvert, Orville M.; and Holcombe, Edward L., to Grace, W. R., & Co. Clamp and tensioning means for bag necks and the like. 3,713,267, 1-30-73, Cl. 53-112.00b.
Bowdish, Donald M.: *See—*
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Bowditch, Hoel L., to Foxboro Company, The. Pneumatic relay. 3,758,093, 9-11-73, Cl. 267-159.000.
Bowe, Bohler & Weber KG: *See—*
Fuhring, Heinrich; and Sieber, Johannes Helmut, 3,759,071.
Bowe Bohler & Weber KG, Firma: *See—*
Eckl, Robert; and Janson, Klaus Walter, 3,759,506.
Bowell, S. T.; Ashcroft, Robert; and Pekarek, G. E., to SCM Corporation. Latex coating composition having yield valves of 95-550 dynes/cm$_2$ and shear stress of at least 90 dynes/cm$_2$ at shear rate of about 0.1-0.2/sec. 3,725,328, 4-3-73, Cl. 260-29.60r.
Bowen, Braxton C., to Du Pont de Nemours, E. I., and Company. Process for extracting and drawing a tow. 3,725,523, 4-3-73, Cl. 264-210.00f.
Bowen, Braxton C.; and Weir, Jackie A., to Du Pont de Nemours, E. I., and Company. Process for extracting solvent from polyamide filaments. 3,730,680, 5-1-73, Cl. 8-151.200.
Bowen, Charlie L. Wood lathe. 3,721,279, 3-20-73, Cl. 142-1.000.
Bowen, David J., to Monsanto Company. Method and apparatus for monitoring melt spinning. 3,751,533, 8-7-73, Cl. 264-40.000.
Bowen, David James: *See—*
Grenfell, Hugh Willmot; and Bowen, David James, 3,773,497.
Bowen, Dennis Dawes. Sequential switching device. 3,753,050, 8-14-73, Cl. 317-141.00s.
Bowen, Duane C. Tightwire sports equipment. 3,754,757, 8-28-73, Cl. 272-60.000.
Bowen, Edward George; and Dick, George Wilmer, to Bell Telephone Laboratories, Incorporated. Multifrequency tune receiver. 3,780,230, 12-18-73, Cl. 179-84.0vf.
Bowen, Harry H.; Clancy, Lawrence F.; and Jorgensen, Stanley A., to Caterpillar Tractor Company. Modular final drive for a track-type vehicle. 3,773,128, 11-20-73, Cl. 180-6.480.
Bowen, Howard: *See—*
Short, Ray L., Jr.; Bowen, Howard; and Henderson, David L., 3,759,095.
Bowen, Jack L., to Johnson, E. F., Company. Variable impedance. 3,775,647, 11-27-73, Cl. 317-249.00r.
Bowen, James G.: *See—*
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Bowen, Jonathan L.; and Dexter, Theodore H., to Hooker Chemical Corporation. Cleaning compositions. 3,734,860, 5-22-73, Cl. 252-158.000.
Bowen, Mack D., to Tech-Air Corporation. Apparatus and method for determining the temperature of a flowing gas. 3,776,039, 12-4-73, Cl. 73-341.000.
Bowen, Mat M.: *See—*
Roche, Joseph R.; and Bowen, Mat M., 3,779,264.
Bowen, Omer: *See—*
Heinig, Richard H.; and Bowen, Omer, 3,745,793.
Bowen, Rafael L.; and Argentar, Harold, to United States of America, Health, Education, and Welfare. Tertiary aromatic amine accelerators in dental compositions. 3,740,850, 6-26-73, Cl. 32-15.000.
Bowen, Robert J.: *See—*
Harrison, John H.; Bowen, Robert J.; Urbach, Herman B.; and Icenhower, David E., 3,736,187.
Bowen Tools, Inc.: *See—*
Slator, Damon T.; and Shaw, Daniel G., 3,744,356.
Bowen, Willard L. Method of forming a roller bearing of superior runout characteristics. 3,765,071, 10-16-73, Cl. 29-148.40a.
Bowen, William Edmund; and Goehring, Clifford Clayton, to American Can Company. Laser welding plastic tubes. 3,769,117, 10-30-73, Cl. 156-69.000.
Bowen-Edwards, Thomas: *See—*
Cramp, Benjamin; and Bowen-Edwards, Thomas, 3,711,096.
Bower, Arnold Boyd, Jr., to General Electric Company. Disc cutter for boring-type mining machine. 3,766,998, 10-23-73, Cl. 175-373.000.

Bower, Gerald F., to Bower Manufacturing Co., Inc., The. Padlock device. 3,753,360, 8-21-73, Cl. 70-39.000.
Bower, H. W.; and Brannan, Glenn. Banner hanger. 3,726,035, 4-10-73, Cl. 40-125.00g.
Bower, James C., to Atomic Fire Equipment Company. Emergency fire extinguisher. 3,749,175, 7-31-73, Cl. 169-31.00p.
Bower, John E., Jr., to United States Steel Corporation. Continuous-casting mold with thin-walled copper liner. 3,709,286, 1-9-73, Cl. 164-283.000.
Bower Manufacturing Co., Inc., The: *See—*
Bower, Gerald F., 3,753,360.
Bower, Richard, to E. H. Research Laboratories, Inc. Computer core handler. 3,735,866, 5-29-73, Cl. 209-73.000.
Bower, Robert W.: *See—*
Aubuchon, Kenneth G.; Dill, Hans G.; and Bower, Robert W., 3,748,187.
Bowerfind, Albert L.; Sobel, Leonard H.; and Aviezer, Zvi, to Daggem, Inc. Handle and reel mount construction. 3,772,817, 11-20-73, Cl. 43-22.000.
Bowerman Bros., Inc.: *See—*
Vaughan, Hugh J., 3,743,232.
Bowerman, William R. Tone arm for record turn table. 3,744,802, 7-10-73, Cl. 274-1.00r.
Bowerman, William R. Magnetic chip switch. 3,778,737, 12-11-73, Cl. 335-205.000.
Bowermaster, Allan H. Screen guard for gutters having a dual purpose manual operator. 3,740,787, 6-26-73, Cl. 15-105.000.
Bowermaster, Riley J.; and Becker, Robert H., to Laclede Steel Company. Smoke elbow for electric furnace. 3,772,448, 11-13-73, Cl. 13-10.000.
Bowers, Brian Alfred: *See—*
McIntosh, Ian Arthur; Bowers, Norman Josh; and Bowers, Brian Alfred, 3,746,104.
Bowers, Clarence A.; Kimbrell, James P.; and Williamson, James R., to Monsanto Company. Process for dyeing polyester fibers with disperse dyestuffs. 3,764,264, 10-9-73, Cl. 8-179.000.
Bowers, David A.; and Detolla, Frank L., to United Aircraft Corporation. Segmented duct seal. 3,752,598, 8-14-73, Cl. 415-173.000.
Bowers, David L.: *See—*
Adams, Theodore P.; and Bowers, David L., 3,738,369.
Bowers, David L., to General Electric Company. Standby external rate control and implanted standby heart pacer. 3,717,153, 2-20-73, Cl. 128-419.00p.
Bowers, David L.; and Adams, Theodore P., to General Electric Company. Body organ stimulus pulse generator with decoupled timing circuit and voltage multiplier. 3,726,285, 4-10-73, Cl. 128-419.00p.
Bowers, David L.; and Mohalski, John E., to General Electric Company. Optional unipolar-bipolar body organ stimulator. 3,735,766, 5-29-73, Cl. 128-419.00p.
Bowers, George W., Jr.; Broski, Tony W., Jr.; and Pastrone, John, to Memorex Corporation, mesne. Print carrier and transportable cartridge for same. 3,772,988, 11-20-73, Cl. 101-111.000.
Bowers, Harry J., Jr., to General Electric Company. Photoflash lamp arrangement having thermally actuated control. 3,714,407, 1-30-73, Cl. 240-1.300.
Bowers, Jeffrey L. Balance skill game. 3,717,340, 2-20-73, Cl. 273-1.00r.
Bowers, Jeffrey L. Catching post and projectile. 3,717,348, 2-20-73, Cl. 273-96.00r.
Bowers, Norman Josh: *See—*
McIntosh, Ian Arthur; Bowers, Norman Josh; and Bowers, Brian Alfred, 3,746,104.
Bowers, Richard W. Log debarking apparatus. 3,709,272, 1-9-73, Cl. 144-208.00e.
Bowers, Russell E.; and Warpenburg, Norman L., to Avco Corporation. Sequentially interlocked arming device. 3,734,022, 5-22-73, Cl. 102-78.000.
Bowers, Thomas S., to Hansen, A. L., Mfg., Co. Cargo securing device. 3,709,156, 1-9-73, Cl. 105-369.00a.
Bowers, Thomas S. Load holding device improvement. 3,713,616, 1-30-73, Cl. 248-361.00r.
Bowers, Thomas S., to Hansen, A. L., Mfg. Co. Line gripping device. 3,744,098, 7-10-73, Cl. 24-136.00r.
Bowers, William H., to Delbar Products, Inc. Mirror positioning device. 3,730,474, 5-1-73, Cl. 248-478.000.
Bowers, William S., to United States of America, Agriculture. Insect control process with synthetic hormones. 3,725,551, 4-3-73, Cl. 424-282.000.
Bowes, Emmerson, to Mobil Oil Corporation. Alkylation and dealkylation of aromatics in the presence of crystalline aluminosilicates. 3,716,596, 2-13-73, Cl. 260-671.00c.
Bowie Industries, Inc.: *See—*
Favor, Robert R., 3,771,301.
Bowie, Raymond Alexander, to Imperial Chemical Industries Limited. Process for the manufacture of quinoxaline 1,4-dioxides. 3,720,673, 3-13-73, Cl. 260-250.00r.
Bowin, Richard E., to Union Special Machine Company. Thread cutting and wiping mechanism for group stitch sewing machine. 3,749,041, 7-31-73, Cl. 112-252.000.
Bowker, John Kent, to Itek Corporation. Method for producing diagrammed work surfaces on which are created artistic renderings of multi-color images. 3,745,037, 7-10-73, Cl. 117-37.00r.
Bowker, John Kent, to Itek Corporation. Real time interferometer. 3,767,307, 10-23-73, Cl. 356-109.000.
Bowker, John Kent, to Itek Corporation. System for analyzing multicolored scenes. 3,778,541, 12-11-73, Cl. 178-5.20r.
Bowlby, James F. G. Single use film developer and repturable seal therefor. 3,714,881, 2-6-73, Cl. 95-89.00r.
Bowler, Lauren L.; and Harned, John L., to General Motors Corporation. Hydraulic anti-lock brake control system. 3,718,376, 2-27-73, Cl. 303-21.0cg.
Bowler, Lauren L.; and Harned, John L., to General Motors Corporation. Anti-lock brake control system. 3,727,992, 4-17-73, Cl. 303-21.00p.
Bowler, Lauren L.; Salamon, Theodore M.; and Winchell, Frank J., to General Motors Corporation. Vehicle occupant restraining belt system. 3,765,701, 10-16-73, Cl. 280-150.0sb.
Bowler, Laurence L.; and Harned, John L., to General Motors Corporation. Hydraulic anti-lock brake control system. 3,718,375, 2-27-73, Cl. 303-21.00b.
Bowler, Peter; and Nir, Benjamin, to Scragg, Ernest, & Sons Limited. Speed controls for electric motors. 3,775,652, 11-27-73, Cl. 318-227.000.
Bowler, William: *See—*
Berthiaume, Pierre P.; Bowler, William; Cass, George Robert; Schotman, Jan; Scott, J. Frank; and Thivierge, Jacques, 3,746,111.
Bowles, Arnold Gordon, to National Forge Company. Threaded closure high production isostatic molding device. 3,730,666, 5-1-73, Cl. 425-405.00h.
Bowles, Arnold Gordon, to National Forge Company. Water-cooled reactor core test apparatus. 3,772,918, 11-20-73, Cl. 73-432.0sd.
Bowles Engineering Corporation: *See—*
Freeman, Peter A., 3,747,643.
Bowles Fluidics Corporation: *See—*
Bauer, Peter, 3,741,481.
Bauer, Peter; and Neradka, Vincent F., 3,770,200.
Kopera, Anthony, 3,712,318.
Neradka, Vincent F., 3,768,308.
Bowles, Lloyd W., to Computer Image Corporation. System for blanking selected areas of a raster. 3,749,965, 7-31-73, Cl. 315-22.000.
Bowles, Lowell E. Wire wrap pin pointernone. 3,722,061, 3-27-73, Cl. 29-203.00b.
Bowles, Thomas J.: *See—*
Maierson, Theodore; Powers, Edward M.; and Bowles, Thomas J., 3,769,045.
Bowlin, Calvin E.; and Dombrowski, Anthony E. Liquid-cooled underlying support for the human body. 3,757,362, 9-11-73, Cl. 5-348.0wp.
Bowling, Charles E.; Meginnis, George B.; and Schwedland, Ronald P., to General Motors Corporation. Cooled airfoil. 3,732,031, 5-8-73, Cl. 416-97.000.
Bowling, Charles E.; and Meginnis, George B., to General Motors Corporation. Bonding. 3,762,032, 10-2-73, Cl. 29-493.000.
Bowling, Joseph E., Jr.: *See—*
Carpenter, James H.; and Bowling, Joseph E., Jr., 3,716,947.
Bowling, Teamus: *See—*
Prucha, Richard V.; and Bowling, Teamus, 3,767,897.
Bowman and Associates, Inc.: *See—*
Bowman, George A., 3,728,094.
Bowman, Arthur J., Jr.: *See—*
Milanowski, Floyd J.; and Bowman, Arthur J., Jr., 3,718,093.
Bowman, Boddy R.: *See—*
Drelich, Arthur H.; and Bowman, Boddy R., 3,769,067.
Bowman, Brian, to British Steel Corporation. Electric furnace. 3,736,359, 5-29-73, Cl. 13-9.000.
Bowman, Brian, to British Steel Corporation. Arc furnace electrodes. 3,777,042, 12-4-73, Cl. 13-18.000.
Bowman, Cadet E., to Olin Corporation, mesne. Gas burner head assembly for torches. 3,711,242, 1-16-73, Cl. 431-349.000.
Bowman, Cadet E.; and Hayward, Frank, to Olin Corporation. Integral regulated hand torch. 3,736,093, 5-29-73, Cl. 431-89.000.
Bowman, David F., to United States of America, Army, mesne. Dual function feed system for phased-array radar. 3,739,389, 6-12-73, Cl. 343-729.000.
Bowman, E. W., Incorporated: *See—*
Bowman, Edward W., 3,741,744.
Bowman, Edward W., 3,754,885.
Bowman, Edward W., 3,765,856.
Bowman, Edward W., to Bowman, E. W., Incorporated. Apparatus for annealing, conveying, transferring, and spraying glassware. 3,741,744, 6-26-73, Cl. 65-348.000.
Bowman, Edward W., to Bowman, E. W., Incorporated. Jet fired zonal lehr for applying treating medium inside and outside of glass containers simultaneously. 3,754,885, 8-28-73, Cl. 65-119.000.
Bowman, Edward W., to Bowman, E. W., Incorporated. Glassware assembling and lehr loading mechanism. 3,765,856, 10-16-73, Cl. 65-60.000.





Bowman, George A., to Bowman and Associates, Inc. Process of making glass. 3,728,094, 4-17-73, Cl. 65-27.000.
Bowman, Harold M., to National Utility Products Company. Adjustable manhole cover support. 3,773,428, 11-20-73, Cl. 404-26.000.
Bowman, Lloyd D.: *See—*
Josias, Conrad S.; Bowman, Lloyd D.; and Lovelock, James E., 3,714,421.
Bowman, Mark M., Jr.: *See—*
Marx, John W.; and Bowman, Mark M., Jr., 3,727,412.
Bowman, Raymond D., to Cavalier Corporation. Control apparatus for dual price vending machine. 3,776,339, 12-4-73, Cl. 194-10.000.
Bowman, Robert A.: *See—*
Hautaniemi, Bruno Wendell; Bowman, Robert A.; and Bangerter, Kenneth R., 3,722,263.
Bowman, Robert L.: *See—*
Ito, Yoichiro; and Bowman, Robert L., 3,775,309.
Bowman, Robert Walter, to Standard Tube Canada Limited. Table frame structures and corner constructions therefor. 3,754,728, 8-28-73, Cl. 248-188.000.
Bowman, Ronald R., to Motorola, Inc. Fabrication of semiconductor devices. 3,709,695, 1-9-73, Cl. 96-36.200.
Bowman, Ronald R.; Larsen, Ezra B.; and Belsher, Donald R., to United States of America, Health, Education and Welfare. Electromagnetic field measuring device. 3,750,017, 7-31-73, Cl. 324-72.000.
Bowman, Theodore. Erectable and disassemblable partition and panel therefor. 3,777,431, 12-11-73, Cl. 52-562.000.
Bowman, Thomas C.: *See—*
Watson, Stewart C.; and Bowman, Thomas C., 3,765,784.
Bowman, Thomas C., to Watson-Bowman Associates, Inc. Sealing strip. 3,762,826, 10-2-73, Cl. 404-64.000.
Bowman, Wayne A., to Eastman Kodak Company. Non-aqueous emulsions. 3,748,143, 7-24-73, Cl. 96-114.000.
Bowman-Shaw, George Neville, to Lancer Boss Limited. Side loaders. 3,739,931, 6-19-73, Cl. 214-670.000.
Bowman-Shaw, George Neville, to Lancer Boss Limited. Side loader vehicles. 3,756,437, 9-4-73, Cl. 214-75.00g.
Bowmar Instrument Corporation: *See—*
Dixon, Thomas E.; Herr, Robert W.; and Sigl, Edward D., 3,731,881.
Harden, Phillip L.; and Thomas, Samuel M., Jr., 3,732,560.
Harden, Phillip L., 3,735,303.
Harden, Phillip L., 3,736,588.
White, Edward A.; and Bunting, James H., 3,781,852.
Bowmar/Ali, Inc.: *See—*
Bunting, James H., 3,755,806.
Feeney, James Henry, 3,780,430.
Feeney, James Henry, 3,780,431.
Ubillos, Peter, 3,743,920.
Bown, Delos E.: *See—*
Schulze, Henry G.; Williams, Herschel C.; Bown, Delos E.; and Neureiter, Norman P., 3,773,812.
Schutze, Henry G.; Williams, Herschel C.; Neureiter, Norman P.; and Bown, Delos E., 3,737,486.
Bowser, George Carroll: *See—*
Klasons, Visvaldis; and Bowser, George Carroll, 3,771,456.
Bowser, George H., to PPG Industries, Inc. Multiple glazed unit. 3,758,996, 9-18-73, Cl. 52-17.200.
Bowser, Goerge H.: *See—*
Stewart, John L.; and Bowser, Goerge H., 3,771,276.
Bowser, John O.; and Moga, Nicholas I., to Aluminum Company of America. Slat floor assembly. 3,730,140, 5-1-73, Cl. 119-28.000.
Box Innards, Inc.: *See—*
Peters, Charles L., 3,728,925.
Box, Jones, and Label Co., Limited: *See—*
Jones, Keith L., 3,710,971.
Box, Theodor. Poultry transport cage. 3,754,676, 8-28-73, Cl. 220-31.00s.
Box, Theodor M. Plastic carrying case for use with skatewheel conveyers. 3,724,628, 4-3-73, Cl. 193-35.00r.
Box, Theodor M. Interlocking storage pallet. 3,750,596, 8-7-73, Cl. 108-43.000.
Box, Theodor M. Integrally molded plastic louver frame and assembly thereof. 3,756,138, 9-4-73, Cl. 98-40.0vm.
Box, William A.; and Wojnar, Joseph A., to United States Steel Corporation. Gauge device for alignment of rolls of a rolling mill. 3,718,019, 2-27-73, Cl. 72-35.000.
Boxall, Frank S., to Vicom Corporation. Pulse code modulation communication system. 3,708,624, 1-2-73, Cl. 179-15.00a.
Boxell, Alan James: *See—*
Solomon, Nigel Allan; Godfrey, Nelson Frederick John; and Boxell, Alan James, 3,729,600.
Boy de la Tour, Roger: *See—*
Holt, William J.; and Boy de la Tour, Roger, 3,718,132.
Boy, Max W., 20% to Lee, Raymond, Organization, Inc., The. Conveyor belt clip. 3,754,636, 8-28-73, Cl. 198-175.000.
Boyajian, Alfred Z., to Boyan, Limited. Manually actutable tool. 3,716,879, 2-20-73, Cl. 7-5.600.
Boyajian, Myron J.: *See—*
Meyer, Theodore R.; and Boyajian, Myron J., 3,749,207.
Boyan, Edwin A., to Program Control Corporation. Management system and method. 3,736,409, 5-29-73, Cl. 235-61.60r.
Boyan, Limited: *See—*
Boyajian, Alfred Z., 3,716,879.
Boyars, Carl; and Zovko, Carl T., to United States of America, Navy. Process of generating nitrogen using metal azide. 3,773,947, 11-20-73, Cl. 423-351.000.
Boyars, Carl; and Zovko, Carl T., to United States of America, Navy. Nitrogen generator. 3,775,199, 11-27-73, Cl. 149-35.000.
Boyce, Alvie E.: *See—*
Evers, John J.; Jones, Ralph E.; and Boyce, Alvie E., 3,732,980.
Boyce, Clive B. C.; Barker, Michael D.; and Wood, Jack, to Shell Oil Company. Phosphorylated 1,2,5-oxadiazole derivatives. 3,709,902, 1-9-73, Cl. 260-307.00g.
Boyce Thompson Institute for Plant Research, Inc.: *See—*
Vite, Jean P., 3,755,563.
Boyce, Walter A.: *See—*
Hasell, Richard F.; Boyce, Walter A.; and Smith, Chrisman O., 3,775,634.
Boyce, Walter A., to Westinghouse Electric Corporation. Method of manufacturing subminiature electric lamps. 3,716,285, 2-13-73, Cl. 316-21.000.
Boycott, William A., Jr., to Udylite Corporation, The. Composition and method for suppressing spray in electrolytic process. 3,755,095, 8-28-73, Cl. 204-51.000.
Boyd, Aland: *See—*
McCullough, Harry J.; Shahid, John M.; and Boyd, Aland, 3,708,254.
Boyd, Charles L.: *See—*
Hammond, Jack; and Boyd, Charles L., 3,710,622.
Boyd, Charles L.; and Roach, James D., to Halliburton Company. Magnetic pickup element adapter for flowmeters. 3,710,623, 1-16-73, Cl. 73-231.00r.
Boyd, Clinton A., to Borg-Warner Corporation. Submersible pump drive system. 3,751,192, 8-7-73, Cl. 417-411.000.
Boyd, Clive Reginald, to Spurway's Industries Pty. Limited. Blind rivet pulling tool. 3,714,810, 2-6-73, Cl. 72-391.000.
Boyd, David C., to Corning Glass Works. Sodium aluminosilicate glass article strengthened by a surface compressive stress layer. 3,778,335, 12-11-73, Cl. 161-164.000.
Boyd, David M., to Universal Oil Products Company. Control of multi-reaction zones in response to two qualities of product. 3,759,820, 9-18-73, Cl. 208-64.000.
Boyd, David M., to Universal Oil Products Company. Reaction zone control. 3,760,168, 9-18-73, Cl. 235-151.120.
Boyd, Dewey D. Vehicle suspension control kit. 3,773,349, 11-20-73, Cl. 280-124.00b.
Boyd, Donald R. Apparatus for landing pipe. 3,724,683, 4-3-73, Cl. 214-2.500.
Boyd, Edward A. Converging vortex apparatus for separating oil from water. 3,753,496, 8-21-73, Cl. 210-242.000.
Boyd, Gilbert D.: *See—*
Smith, George A.; Stevens, Harrison; Walker, Robert R.; and Boyd, Gilbert D., 3,716,649.
Boyd, Gordon A.; and Berger, Franz, to Autologic Limited. Machine tools. 3,726,571, 4-10-73, Cl. 308-3.000.
Boyd, Horace Edward: *See—*
Simmons, Roger Cleary; Boyd, Horace Edward; and Kuchling, Peter Mathis, 3,758,938.
Boyd, James; Garfield, Lawrence A.; Hanninen, Clifford; and Maki, Eugen, to Copper Range Company. Mining and tunneling apparatus involving alternated application of thermal and mechanical energy and process thereof. 3,759,575, 9-18-73, Cl. 299-14.000.
Boyd, James C. Tool retainer for chipping hammers. 3,779,567, 12-18-73, Cl. 279-19.100.
Boyd, James C. Safety retainer for collared chisels in chipping hammers. 3,781,023, 12-25-73, Cl. 279-19.600.
Boyd, John A.; Bond, Scott R.; Elliott, Ralph K.; Gisolfi, John J.; and Merkin, Eugene, said Bond, Elliott, Gisolfi and Merkin assors. to Union Environmental Corporation. Portable refuse handling apparatus. 3,741,107, 6-26-73, Cl. 100-215.000.
Boyd, Kenneth D.; and Wayland, Charles L. Vacuum power liquid removal apparatus. 3,773,091, 11-20-73, Cl. 141-42.000.
Boyd, Kenneth Leroy; and Valdes, Silverio Antonio, to GTE Sylvania, Incorporated. Electronic volume and on/off circuits for remote control systems. 3,713,028, 1-23-73, Cl. 325-392.000.
Boyd, Kenneth Williamson; Saltzberg, Burton R.; and Zydney, Herbert Mortimer, to Bell Telephone Laboratories, Incorporated. Composite clock signal generating and distributing circuits. 3,745,361, 7-10-73, Cl. 307-3.000.
Boyd, Loyis J.: *See—*
Hafs, Harold D.; and Boyd, Loyis J., 3,718,740.
Boyd, Robert A. Elastic band projectile projecting device. 3,774,585, 11-27-73, Cl. 124-21.000.
Boyd, Thomas H. Monorail guided electric airplane. 3,715,991, 2-13-73, Cl. 104-23.00r.
Boyd, William Weller, to International Business Machines Corporation. Text formatting for display. 3,744,033, 7-3-73, Cl. 340-172.500.

Boydell, Kenneth Raymond, to Dowty Technical Developments Limited. Selector valves. 3,717,175, 2-20-73, Cl. 137-596.130.

Boydell, Kenneth Raymond, to Dowty Technical Developments Limited. Fluid-pressure-operable systems. 3,726,089, 4-10-73, Cl. 60-422.000.

Boydell, Kenneth Raymond, to Dowty Technical Developments Limited. Selector valves. 3,730,220, 5-1-73, Cl. 137-596.200.

Boydell, Kenneth Raymond, to Dowty Technical Developments Limited. Fluid pressure apparatus. 3,732,785, 5-15-73, Cl. 91-506.000.

Boyden, Albert C. Applicator for an internal prophylactic appliance. 3,709,220, 1-9-73, Cl. 128-132.00r.

Boyden, Robert E., to O'Reilly, Thomas B. Power driven typewriter with single type head. 3,780,845, 12-25-73, Cl. 197-18.000.

Boyden, Willis Guild. Tone control circuits. 3,732,373, 5-8-73, Cl. 179-1.00d.

Boydman, Hyman P.: *See*—
Tepper, Sidney; and Boydman, Hyman P., 3,755,960.

Boyer, Albert E., to Western Electric Company, Incorporated. Bending apparatus for multiple wire-like articles. 3,732,898, 5-15-73, Cl. 140-105.000.

Boyer, Alfred N. Velocipede and carrier. 3,713,671, 1-30-73, Cl. 280-202.000.

Boyer, Charles B.; Orcutt, Franklin D.; Shaw, Robert L.; and Gregg, Galen C., to Battelle Memorial Institute. Apparatus for loading a high-pressure furnace. 3,741,718, 6-26-73, Cl. 432-253.000.

Boyer, Emanuel F. Onion slicing machine. 3,722,339, 3-27-73, Cl. 83-4.000.

Boyer, Jackson S.; and Cassar, Richard D., to Sun Oil Company. Vulcanization of ethylene-propylene-diene terpolymer. 3,718,628, 2-27-73, Cl. 260-79.50b.

Boyer, Jean-Jacques. Method for treating household refuse. 3,752,059, 8-14-73, Cl. 100-37.000.

Boyer, London D., to Continental Oil Company. Concurrent production of a plurality of enzymes. 3,769,167, 10-30-73, Cl. 195-66.00r.

Boyer, Lynn F.; Fegley, Charles R.; and Johnson, Anderson F., Jr., to Western Electric Company, Incorporated. Treating articles for a controlled duration. 3,748,089, 7-24-73, Cl. 432-52.000.

Boyer, Marcel-Louis; and Landwerlin, Michel, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Capstan drive arrangement for high-speed intermittent tape drive. 3,711,003, 1-16-73, Cl. 226-177.000.

Boyer, Marcel-Louis, to C.I.T.-Compagnie Industrielle des Telecommunications. Circuit for interconnection of telephone and radiotelephone networks. 3,711,647, 1-16-73, Cl. 179-2.00e.

Boyer, Marcel-Louis, to Compagnie Industrielle des Telecommunications CIT-ALCATEL. High-speed band reading device. 3,719,802, 3-6-73, Cl. 235-61.11r.

Boyer, Marcel-Louis, to C.I.T.-Compagnie Industrielle des Telecommunications. Electromechanical device for tape winding mechanism. 3,732,402, 5-8-73, Cl. 235-61.11r.

Boyer, Marcel-Louis, to C.I.T.-Compagnie Industrielle des Telecommunications. Radio transmitter-received including means for automatically adjusting the transmission level. 3,732,496, 5-8-73, Cl. 325-62.000.

Boyer, Marcel-Louis, to C.I.T.-Compagnie Industrielle des Telecommunications. Radio transmitter receiver including level and antenna direction control circuitry. 3,781,890, 12-25-73, Cl. 343-100.0cs.

Boyer, Michel, to Bell Canada. Wired equipment shelf. 3,755,630, 8-28-73, Cl. 179-98.000.

Boyer, Nicodemus E., to Borg-Warner Corporation. Halogen containing phosphorus monools. 3,758,646, 9-11-73, Cl. 260-95.000.

Boyer, Ralph C. Batting practice device and method. 3,767,198, 10-23-73, Cl. 273-26.00e.

Boyer, Ronald G.; and Fouts, Drexel R., to Caterpillar Tractor Company. Brake and transmission shift locks with single control lever. 3,710,904, 1-16-73, Cl. 192-4.00a.

Boyer, Wilhelm: *See*—
Ritter, Josef; Boyer, Wilhelm; Ritter, Gerhard; and Ritter, Klaus, 3,727,038.

Boyert, David L.: *See*—
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Boyertown Auto Body Works: *See*—
Hafer, Paul R., 3,708,028.

Boyko, Eugene S.: *See*—
Fink, Robert W.; and Boyko, Eugene S., 3,725,635.

Boyko, Eugene S.; and Owens, Clark M., to Westinghouse Electric Corporation. Alloy and method of welding structures including this alloy. 3,762,913, 10-2-73, Cl. 75-122.000.

Boylan, John: *See*—
Tobbe, William F.; Benway, Ernest A.; Simko, David M.; Gallagher, Bernard J.; and Boylan, John, 3,761,052.

Boylan, Joseph W., to Armstrong Cork Company. Connection joint for a concealed ceiling suspension system. 3,736,012, 5-29-73, Cl. 287-189.36a.

Boyle, Donald A., to Robertshaw Controls Company. Control system having vibration-responsive means and a vibration-responsive unit for such system or the like. 3,746,028, 7-17-73, Cl. 137-38.000.

Boyle, Edwin C. Support platform and package incorporating same. 3,765,539, 10-16-73, Cl. 211-59.000.

Boyle, George E., to Corlite Corporation. Apparatus for displaying colored light patterns. 3,711,697, 1-16-73, Cl. 240-10.000.

Boyle, Gerald P., to Leeds & Northrup Company. Immersion thermocouple. 3,764,395, 10-9-73, Cl. 136-234.000.

Boyle, Gerard H.: *See*—
Bro, Per; Liang, Charles C.; and Boyle, Gerard H., 3,712,836.

Boyle, James E.: *See*—
Moody, David L.; Loftis, James B.; and Boyle, James E., 3,766,996.

Boyle, John F. Interconnected jumping sticks. 3,751,032, 8-7-73, Cl. 272-57.00e.

Boyle, John P. Occult illuminator system. 3,759,607, 9-18-73, Cl. 350-293.000.

Boyle, Ralph C.; and Paulius, Leonard, to International Harvester Company. Reversible power take-off shaft. 3,715,704, 2-6-73, Cl. 74-15.400.

Boyle, Robert F., to Pneumo Dynamics Corporation. High ratio linkage mechanism. 3,722,371, 3-27-73, Cl. 92-5.00r.

Boyle, William H., to Chainbelt, Rex, Inc. Peripheral feed and effluent system for sedimentation tanks. 3,717,257, 2-20-73, Cl. 210-521.000.

Boyle, William M., Jr.: *See*—
Aung, Tin; and Boyle, William M., Jr., 3,716,447.

Boyles, Gordon W.: *See*—
Bogard, James R.; and Boyles, Gordon W., 3,772,703.

Boyles, Henry Barringer, to Consolidated Foods Corporation. Cleaner for printing equipment. 3,773,676, 11-20-73, Cl. 252-171.000.

Boyles, Henry Barringer, to Consolidated Foods Corporation. Press wash. 3,773,677, 11-20-73, Cl. 252-172.000.

Boyles Industries Limited: *See*—
Wolda, Tiete Okke, 3,777,826.

Boyles Industries, Limited, mesne: *See*—
Wolda, Tiete O., 3,739,865.

Boyles, Robert L.; and Polonsky, Samuel, to General Electric Company. Digital clock. 3,721,087, 3-20-73, Cl. 58-125.00e.

Boyles, Robert L.; and Polonsky, Samuel, to General Electric Company. Pawl and ratchet mechanism for alarm clock timer sleep switch cam. 3,725,615, 4-3-73, Cl. 200-38.0fb.

Boyles, Robert L.; and Polonsky, Samuel, to General Electric Company. Alarm clock timer with switch actuating lever operable by cam or manual adjustment mechanism. 3,725,617, 4-3-73, Cl. 200-38.0fb.

Boyles, Robert L.; and Polonsky, Samuel, to General Electric Company. Electric alarm clock timer with manually operable reset mechanism. 3,740,502, 6-19-73, Cl. 200-38.0fa.

Boyles, Robert L., to General Electric Company. Digital display indicator. 3,780,524, 12-25-73, Cl. 58-125.00c.

Boyns, Jerry E., to United States of America, Navy. Simultaneous sum and difference pattern technique for circular array antennas. 3,729,742, 4-24-73, Cl. 343-854.000.

Boyns, Jerry E., to United States of America, Navy. Submarine-to-satellite communications antenna. 3,754,268, 8-21-73, Cl. 343-709.000.

Boynton, Ira D.: *See*—
Sylvester, Willard G.; Boynton, Ira D.; and Bode, Robert H., 3,709,418.

Boynton, Kenneth G.; and Diggins, Thomas R., to Hollis Engineering, Inc. Wave soldering apparatus. 3,726,465, 4-10-73, Cl. 228-37.000.

Boynton, Richard P.; and Ellis, Robert C., Jr., to Sperry Rand Corporation. Servo compensation including a non-linear synchro transmitter. 3,719,880, 3-6-73, Cl. 318-633.000.

Boynton, Robert James: *See*—
Westwood, William Dickson; and Boynton, Robert James, 3,738,926.

Boyriven, Paul, to Compagnie Industrielle de Mecanismes. Electrical window regulator mechanism. 3,728,904, 4-24-73, Cl. 74-89.150.

Boyriven, Paul France, to Compagnie Industrielle de Mecanismes. Electric window operating mechanism. 3,742,781, 7-3-73, Cl. 74-625.000.

Boys, Donald R.; and White, Ernest W., to General Motors Corporation. Vacuum processing machine for aluminizing headlamp reflectors. 3,717,119, 2-20-73, Cl. 118-49.000.

Boysen, Gerd C.; and Freitag, Lawrence F., to Bradley, Allen, Company. Pilot light assembly for circuit card mounting device. 3,740,546, 6-19-73, Cl. 240-52.100.

Boyson, Bertrand: *See*—
Detig, Robert H.; and Boyson, Bertrand, 3,752,288.

Boyum, Oystein: *See*—
Blaker, Ivar; Boyum, Oystein; Andreassen, Knut Anton; Lunde, Reidar Skipperud; and Tveten, Kjell Wallin, 3,760,050.

Boyum, Oystein; Folkestad, Finn Enok; and Torvund, Asbjorn, to Norsk Hydro A.S. Process for the purification of aqueous magnesium chloride solutions. 3,729,550, 4-24-73, Cl. 423-497.000.

Boyum, Oystein; Eriksen, Karsten Eigil; Solberg, Per; and Tveten, Kjell, to Norsk Hydro A.S. Process for the preparation of anhydrous $MgCl_2$ prills. 3,742,100, 6-26-73, Cl. 264-14.000.





Bozanic, Donald A.; Mergerian, Dickron; Minarik, Ronald W.; and Pincoffs, Peter H., to Westinghouse Electric Corporation. High bandwidth-time product spin echo system. 3,775,670, 11-27-73, Cl. 324-.50r.

Bozek, John S., to Continental Can Company, Inc. Childproof safety closure. 3,750,817, 8-7-73, Cl. 215-9.000.

Bozek, John W. Hydraulic remote fluid flow indicating device. 3,757,577, 9-11-73, Cl. 73-209.000.

Bozeman, Hoyt W., Jr., to Reilly, Sherman, Inc. Grounding device for bundle conductor stringing blocks. 3,720,399, 3-13-73, Cl. 254-134.3pa.

Bozeman, Paul Preston: *See*—
Brasher, James Alan; Bozeman, Paul Preston; and Odell, Norman Raymond, 3,719,585.

Bozer, Keith B.; Brown, Lloyd H.; and Eftax, Daniel S. P., to Quaker Oats Company, The. Impermeable building material. 3,738,955, 6-12-73, Cl. 260-39.00r.

Bozik, John E.; Ondrey, John A.; and Swift, Harold E., to Gulf Research & Development Company. Process for coupling lower olefins. 3,730,957, 5-1-73, Cl. 260-673.000.

Bozik, John E.; Ondrey, John A.; and Swift, Harold E., to Gulf Research & Development Company. Process for coupling propylene and isobutylene. 3,761,536, 9-25-73, Cl. 260-680.00r.

Bozsik, Mihaly. Steering mechanisms. 3,731,757, 5-8-73, Cl. 180-6.260.

Bozzi, Ann R. Sewing machine foot cording device. 3,763,801, 10-9-73, Cl. 112-139.000.

BP Chemical International, Limited: *See*—
Failey, Harry; and Yeomans, Bertram, 3,776,951.

BP Chemicals (U.K.) Limited: *See*—
Gintz, Francis Paul, 3,738,954.

BP Chemicals International Limited: *See*—
Davis, Paul Trevor; Glover, Terence George; and Jones, John Robert, 3,781,195.

BP Chemicals Limited: *See*—
Bailey, Hubert Charles, 3,747,988.
Bewley, Thomas; Cooke, Maurice Dudley; and Wirth, Max Marin, 3,746,639.
Bradshaw, Christopher Patrick Cadman; and Egham, Peter Anthony, 3,763,257.
Capp, Clifford William; and Brown, Peter John Nicholas, 3,751,493.
Gasson, Edward James, 3,709,829.
Stewart, David Gordon; Ball, William John; and Jenkins, Rowland Harris, 3,769,241.
Sturt, Alan Charles, 3,725,375.
Sturt, Alan Charles; and Feast, Guildford Alan Arthur John, 3,740,368.
Yeomans, Bertram, 3,715,392.
Yeomans, Bertram, 3,733,342.
Yeomans, Bertram, 3,775,449.
Yoemans, Bertram, 3,754,025.

Bpand, Derek: *See*—
Imatt, Alex; and Bpand, Derek, 3,756,599.

B.R. Laboratory: *See*—
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Braak, Edmund C.; and McCarty, Kenneth P., to Hercules Incorporated. Surface coated smokeless propellant charge for caseless ammunition having heat resistant properties. 3,713,916, 1-30-73, Cl. 149-12.000.

Brabander, Herbert Joseph: *See*—
Wright, William Blythe, Jr.; and Brabander, Herbert Joseph, 3,734,915.
Wright, William Blythe, Jr.; and Brabander, Herbert Joseph, 3,734,916.
Wright, William Blythe, Jr.; and Brabander, Herbert Joseph, 3,746,708.

Brabec, Charles J.: *See*—
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Brabo Corporation S.A.N.V.: *See*—
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Brabson, George Dana, Jr.; King, Lowell A.; Seegmiller, David W.; and Fannin, Armand A., Jr., to United States of America, Air Force. Two compartmented electrochemical cell having aluminum anode and powdered carbon suspended in the cathode compartment. 3,70,503, 11-6-73, Cl. 136-62.00f.

Brac, Charles, Jr.: *See*—
Finestone, Arnold B.; Westphal, Richard C.; and Brac, Charles, Jr., 3,781,383.

Bracci, George T., to Viatron Computer Systems Corporation. Tape magazine for recorder/reproducer. 3,751,043, 8-7-73, Cl. 274-4.00c.

Bracey, Jep T. Live bait bucket with water oxygenating means. 3,710,502, 1-16-73, Cl. 43-56.000.

Bracey, Kenneth Edward George: *See*—
Dawson, Lindsay Grahame; Petrie, James Alexander; and Bracey, Kenneth Edward George, 3,708,244.
Dawson, Lindsay Grahame; Petrie, James Alexander; and Bracey, Kenneth Edward George, 3,719,439.
Petrie, James Alexander; and Bracey, Kenneth Edward George, 3,729,957.

Bracey, Robert A. Adjustable latching mechanism. 3,714,843, 2-6-73, Cl. 74-527.000.

Brach, Paul J.; and Six, Hugh A., to Xerox Corporation. Pi-form metal phthalocyanine. 3,708,292, 1-2-73, Cl. 96-1.500.

Brach, Paul J.; and Lardon, Marcel A., to Xerox Corporation. Pi-form metal-free phthalocyanine. 3,708,293, 1-2-73, Cl. 96-1.500.

Brachet, Alain; and Lannou, Louis, to Electricite de France (Service National). Method for detecting steam leakage in a heat exchanger having circulation tubes surrounded by liquid sodium and devices for the application of said method. 3,721,116, 3-20-73, I. 73-40.000.

Bracht, Ernest F.: *See*—
Herring, Theodore C.; Bracht, Ernest F.; Ainslie, Robert E.; Todd, Eugene M.; and Franz, Joseph J., 3,715,668.

Bracht, Karl: *See*—
Jokiel, Theodor; and Bracht, Karl, 3,750,558.

Bracich, Louis A., to Nu-Air Humidifier Corporation. Humidifier. 3,733,062, 5-15-73, Cl. 261-92.000.

Brack, Alfred; and Gomm, Walter, to Bayer Aktiengesellschaft. Carbazole cationic dyestuffs. 3,769,297, 10-30-73, Cl. 260-315.000.

Brack, Alfred, to Bayer Aktiengesellschaft. Basic pyrazoline dyes. 3,770,727, 11-6-73, Cl. 260-240.800.

Brack, Karl, to Hercules Incorporated. Cross-linkable polymer compositions comprising ethylenically unsaturated polymer. 3,711,446, 1-16-73, Cl. 260-77.5ac.

Brack, Karl; Gorey, Edward F.; and Schwuttke, Guenter H., to International Business Machines Corporation. Ion implanted semiconductor structures. 3,726,719, 4-10-73, Cl. 148-1.500.

Brackbill, Warren H.: *See*—
Campbell, Willis R.; and Brackbill, Warren H., 3,722,306.

Bracke, William J. I., to Cosden Oil & Chemical Company. Synthesis of dialkaryl sulfone. 3,729,517, 4-24-73, Cl. 260-607.00a.

Bracke, William J. I., to Labofina S.A. Acylation of pyrazole containing polymers. 3,736,297, 5-29-73, Cl. 260-77.50c.

Bracke, William J. I. Process for the agglomeration of particulate materials. 3,759,197, 9-18-73, Cl. 111-1.000.

Bracke, William J. I., to Lobofina S.A. Cross linking of acrylamide polymers (lab 5). 3,759,857, 9-18-73, Cl. 260-29.60h.

Brackemyre, Mark E.: *See*—
Van Wyngarden, Roger E.; and Brackemyre, Mark E., 3,760,937.

Bracken, Thomas W.; Laughon, Thomas C.; and Smith, Gerald C., to Eastman Kodak Company. Method and apparatus for facilitating the packaging and pricing of photographic prints. 3,718,807, 2-27-73, Cl. 235-92.0pd.

Brackenbrough, Dennis D.; Godfrey, Harold E., Jr.; and Mills, Richard G. Adjustable shield device for shielding X-rays. 3,723,743, 3-27-73, Cl. 250-108.00r.

Brackett, Bobby H.; and Jaynes, Charles A., to Bacon, Charles H., Company, mesne. Apparatus for pneumatically tensioning and collecting circular knit hosiery articles. 3,745,794, 7-17-73, Cl. 66-149.00s.

Brackett, Horace D. Gutter and trough debris cleaning implement. 3,743,339, 7-3-73, Cl. 294-19.00r.

Brackman, Donald Alvin, to Hobart Manufacturing Company, The. Charging apparatus. 3,731,345, 5-8-73, Cl. 17-32.000.

Brackmann, Warren A.: *See*—
Di Ianni, Daniel; and Brackmann, Warren A., 3,757,799.

Brackmann, Warren A.; and Dilanni, Daniel, to Rothmans of Pall Mall Canada Limited. Cigarette filter feed. 3,743,075, 7-3-73, Cl. 198-33.00r.

Brackmann, Warren A.; and Di Ianni, Daniel, to Rothmans of Pall Mall Canada, Limited. Tobacco stream manufacture. 3,779,252, 12-18-73, Cl. 131-84.00b.

Bradam, William R.: *See*—
Zurbuchen, Louis E.; and Bradam, William R., 3,715,980.

Bradbury, Roy R., II, to Popeil Brothers, Inc. Waste container and packer. 3,744,409, 7-10-73, Cl. 100-102.000.

Braddon, Frederick D., to Sperry Rand Corporation. Ship's turn rate control system. 3,715,571, 2-6-73, Cl. 235-150.200.

Braddon, Frederick D., to Sperry Rand Corporation. Active stabilizer for marine vessels. 3,741,145, 6-26-73, Cl. 114-125.000.

Braddon, Frederick D., to Sperry Rand Corporation. Marine radar-beacon transponder navigation and collision avoidance system. 3,772,692, 11-13-73, Cl. 343-6.00r.

Bradel, Norman F.; and Hormel, Herbert L., to Kinney, S. P., Engineers, Inc. Twin basket strainer. 3,757,956, 9-11-73, Cl. 210-333.000.

Braden, Denver, to Illinois Tool Works Inc. Electrical circuit component having solder preform connection means. 3,778,532, 12-11-73, Cl. 174-74.00r.

Braden, John R. Self-adjusting stop valve actuating mechanism. 3,718,311, 2-27-73, Cl. 251-77.000.

Braden, William D.; and Marshall, Richard P., to Goodyear Tire & Rubber Company, The. Apparatus for manufacturing V-belts. 3,711,996, 1-23-73, Cl. 51-5.000.

Brader, James J., Jr.; and Griscom, Richard W., to Chemetron Corporation. Stabilized trans-diethylstilbestrol composition and process of making same. 3,749,801, 7-31-73, Cl. 424-346.000.

Brader, Walter Howe, Jr.: *See*—

Marquis, Edward Thomas; and Brader, Walter Howe, Jr., 3,770,808.
Bradford, Alan P.; and Reed, Lee R., to United States of America, Army. Vapor coating using a cam controlled shutter. 3,759,221, 9-18-73, Cl. 118-504.000.
Bradford, James Lewis, to Kerr-McGee Chemical Corporation. Process for the recovery of iodine. 3,767,776, 10-23-73, Cl. 423-435.000.
Bradford, John O.: *See—*
Meiners, Elmo R.; and Bradford, John O., 3,727,323.
Bradford, Nevin Dornan: *See—*
Cottrell, Arnold George; Bradford, Nevin Dornan; and Lovett, Terence Oliver, 3,776,843.
Bradford, Richard H. Warning and courtesy display system for motor vehicle operators. 3,720,913, 3-13-73, Cl. 340-31.00r.
Bradford, William R.: *See—*
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Bradley, Allen, Company: *See—*
Boysen, Gerd C.; and Freitag, Lawrence F., 3,740,546.
Walker, Paul J.; Barron, Frank C.; and Walker, Philip F., 3,768,963.
Bradley, Arthur S., to Applied Power Industries, Inc. Hydraulic pump. 3,746,476, 7-17-73, Cl. 417-269.000.
Bradley, Daniel Joseph. Electron-optical image tubes and image tube streak cameras. 3,761,614, 9-25-73, Cl. 178-7.200.
Bradley, Deward C., to CTS Corporation. Piezoelectric crystal assembly. 3,735,166, 5-22-73, Cl. 310-9.400.
Bradley, Earl C., Jr. Pipe joint retainer gland. 3,726,549, 4-10-73, Cl. 285-356.000.
Bradley, Frank R.: *See—*
Drekter, Isaac J.; Bradley, Frank R.; Matthew, Morton P.; and Delaney, Paul, 3,715,761.
Bradley, Gordon Frank: *See—*
McKay, Robert Bruce; and Bradley, Gordon Frank, 3,776,749.
Bradley, Gordon Frank; Price, David; and Hamilton, Alexander, to Ciba-Geigy AG. Pigment compositions. 3,759,733, 9-18-73, Cl. 106-309.000.
Bradley, Gordon Frank, to Ciba-Geigy AG. Pigment compositions. 3,775,148, 11-27-73, Cl. 106-288.00q.
Bradley, Howard B., to Union Carbide Corporation. Manufacture of silicon metal from dichlorosilane. 3,745,043, 7-10-73, Cl. 117-201.000.
Bradley, John: *See—*
Chamberlain, James; and Bradley, John, 3,713,346.
Bradley, John Christopher: *See—*
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Bradley, John J.; Schauffele, Carl N.; and St. Clair, John Q., II, to Eastman Kodak Company. Method and apparatus for deriving the velocity and relative position of continuously moving information bearing media. 3,723,650, 3-27-73, Cl. 178-7.200.
Bradley, John J., to Paper Converting Machine Company, Inc. Noise reduction strip for shear cut perforator. 3,733,949, 5-22-73, Cl. 83-348.000.
Bradley, John N.; and Haug, J. Edward, to Budd Company, The. Reinforced wheel rim. 3,758,161, 9-11-73, Cl. 301-63.00r.
Bradley, Milton, Company: *See—*
Burke, William B., 3,747,929.
Bradley, Richard S., to Art's-Way Manufacturing Company Incorporated. System for overcoming transport-particle-flow deficiencies inherent in feed grinding and mixing machines using dust collectors for the grinder. 3,735,932, 5-29-73, Cl. 241-60.000.
Bradley, Richard S., to Art's-Way Manufacturing Company, Incorporated. Apparatus for swinging a tubular conveyor section. 3,773,164, 11-20-73, Cl. 198-64.000.
Bradley, Robert O.: *See—*
Steitz, William R.; Bradley, Robert O.; and Waterworth, Thomas H., 3,757,020.
Bradley, Robert W., to USM Corporation. High frequency cavity press. 3,742,180, 6-26-73, Cl. 219-10.810.
Bradley, Ronnie A.: *See—*
Lindemer, Terrence B.; and Bradley, Ronnie A., 3,717,582.
Bradley, Theodore. Disposable hospital patients gown with cohesive-adhesive applied so the areas of application have space therein free of cohesive-adhesive. 3,745,587, 7-17-73, Cl. 2-114.000.
Bradley, William B., to Shell Oil Company. Steerable drill string. 3,743,034, 7-3-73, Cl. 175-61.000.
Bradley, William E.: *See—*
Timm, Gerald W.; and Bradley, William E., 3,760,812.
Bradley, William J. Protective coatings containing glass flake pigment and articles coated therewith. 3,759,852, 9-18-73, Cl. 260-18.0ep.
Bradley, William J. Tiltable headboard. 3,774,247, 11-27-73, Cl. 5-53.00b.
Bradley, Wilson E., Jr.: *See—*
Engalitcheff, John, Jr.; Bradley, Wilson E., Jr.; and Schinner, Edward N., 3,767,176.
Engalitcheff, John, Jr.; Bradley, Wilson E., Jr.; and Schinner, Edward N., 3,767,177.
Bradshaw, Arthur; Meadows, Frank W.; and Peake, Harold, to Service (Engineers) Limited. Machines for use in the manufacture of pottery ware. 3,751,206, 8-7-73, Cl. 425-264.000.
Bradshaw, Bobbie G.; and Graves, Howard T., to United States of America, Army. Automatic personnel intrusion alarm. 3,766,539, 10-16-73, Cl. 340-258.00d.
Bradshaw, Christopher Patrick Cadman, to British Petroleum Company Limited, The. Disproportionation of olefins. 3,723,563, 3-27-73, Cl. 260-683.00d.
Bradshaw, Christopher Patrick Cadman; and Egham, Peter Anthony, to BP Chemicals Limited. Dehydrogenation process. 3,763,257, 10-2-73, Cl. 260-669.00r.
Bradshaw, Harry; McKenney, Hunter R.; and McKenzie, Roland W., to Standard Forge and Axle Company, Incorporated. Method of making a brake shoe. 3,753,460, 8-21-73, Cl. 164-131.000.
Bradshaw Incorporated: *See—*
Ashley, Paul J., 3,743,125.
Bradshaw, Oscar G.: *See—*
Wilmot, Richard D.; Bradshaw, Oscar G.; and Wiggins, David G., 3,720,942.
Bradshaw, Thomas I., to Minnesota Mining and Manufacturing Company. Insect trap. 3,729,858, 5-1-73, Cl. 43-114.000.
Bradshaw, Thomas I., to Minnesota Mining and Manufacturing Company. Insect trap. 3,755,958, 9-4-73, Cl. 43-114.000.
Bradshaw, Thomas Ian; and Tamsky, Morgan J., to Minnesota Mining and Manufacturing Company. Water-activated insect trap. 3,748,777, 7-31-73, Cl. 43-114.000.
Bradshaw, William L., to Dow Chemical Company, The. Magnesium-magnesium chloride bath separation. 3,734,718, 5-22-73, Cl. 75-63.000.
Bradt, Robert D. Catamaran vessel and system for loading and utilizing a camper or trailer thereon. 3,731,644, 5-8-73, Cl. 114-61.000.
Bradu, Georges M., to Societe des Verreries Industrielles Reunies du Loing. Cathode ray tubes for color TV receivers having a post-acceleration grid electrode. 3,719,848, 3-6-73, Cl. 313-855.000.
Bradwell, Cyril; and Pope, Robert C. Sealbar for continuous grate sintering machines. 3,724,828, 4-3-73, Cl. 266-21.000.
Brady, Clifford H. Inertia type switch with adjustable selective seating surface for movable contact. 3,733,448, 5-15-73, Cl. 200-61.45r.
Brady, Clifford H. Speed responsive switch. 3,740,505, 6-19-73, Cl. 200-61.530.
Brady, Donnie G.: *See—*
Gray, Roy A.; and Brady, Donnie G., 3,755,227.
Brady, Donnie G., to Phillips Petroleum Company. Olefin halogenation. 3,716,591, 2-13-73, Cl. 260-648.00r.
Brady, Donnie G.; Deck, Harold R.; Jones, Faber B.; and Underwood, John H., to Phillips Petroleum Company. Poly(esters) of phthalic acid salts and di(haloalkyl) ethers as dye receptive agents. 3,716,601, 2-13-73, Cl. 260-873.000.
Brady, Douglas Mac Pherson, to Bell Telephone Laboratories, Incorporated. Binary modulator for coherent phase-shift keyed signal generation. 3,777,269, 12-4-73, Cl. 325-163.000.
Brady, Douglas MacPherson, to Bell Telephone Laboratories, Incorporated. Multi-level modulator for coherent phase-shift keyed signal generation. 3,750,051, 7-31-73, Cl. 332-9.00r.
Brady, Edward R.: *See—*
Talmo, Robert Eugene; and Brady, Edward R., 3,775,839.
Brady, Frank B.; and Watts, Chester B., Jr. Polarization reference for beam flying. 3,742,502, 6-26-73, Cl. 343-107.000.
Brady, Jack C.: *See—*
Slover, Vasel R., Jr.; Hawk, Daniel E.; and Brady, Jack C., 3,741,321.
Brady, James J., to Technical Oil Tool Corporation. Apparatus for driving a recording instrument. 3,739,888, 6-19-73, Cl. 192-48.920.
Brady, John F., to Universal Technology, Inc. Keyboard switch and unitized multiple switch configuration. 3,731,014, 5-1-73, Cl. 200-5.00a.
Brady, John F., to Universal Technology, Inc. Control keyboard switch with cantilevered contact and diode matrix array. 3,731,015, 5-1-73, Cl. 200-5.00a.
Brady, John F., to Universal Technology, Inc. Pushbutton cantilevered leaf spring contact switch assembly for keyboard type switch arrays. 3,746,816, 7-17-73, Cl. 200-159.00a.
Brady, John Gary: *See—*
Szabo, Karoly; and Brady, John Gary, 3,719,755.
Brady, Kenneth John; and Catalina, Edward L.; deceased (by Catalina, Doris M.; administratrix). Method of and apparatus for abrasive peeling. 3,757,677, 9-11-73, Cl. 99-630.000.
Brady, Lynn J.: *See—*
Holmes, Curtis L.; and Brady, Lynn J., 3,778,305.
Brady, Michael Barry, to English Electric Valve Company Limited. Piezo-electrically induced hydraulic movement of a magnetron tuning element. 3,761,764, 9-25-73, Cl. 315-34.610.
Brady, Paul G., to Universal Oil Products Company. Laminate of cotton paper core with resin fluorescent material scribed to expose core. 3,767,516, 10-23-73, Cl. 161-2.000.



Brady, Sam A.; Clark, Joseph N.; Crossan, Irvin D.; and Toporcer, Louis H., to Dow Corning Corporation. Silicone elastomer composition containing amidosilane and aminosilane. 3,766,128, 10-16-73, Cl. 260-37.0sb.
Brady, Thomas G., to Bendix Corporation, The. Potting compound and method of potting. 3,755,241, 8-28-73, Cl. 260-33.6ub.
Brady, Thomas Joseph, to RCA Corporation. Cathode ray display intensity control circuit. 3,775,637, 11-27-73, Cl. 315-22.000.
Brady, Thomas P.; Langer, Horst G.; and Ayers, Earl D., to Dow Chemical Company, The. Furnace assembly for thermal analysis use. 3,773,963, 11-20-73, Cl. 13-31.000.
Brady, Thomas P.; and Langer, Horst G., to Dow Chemical Company, The. Furnace assembly for thermal analysis use. 3,773,964, 11-20-73, Cl. 31-31.000.
Brady, W. H., Co.: *See—*
Aldrich, Walter S., 3,743,086.
Mrozek, James M., 3,748,977.
Mrozek, James M.; and Heuser, Elliott G., 3,761,344.
Tobey, Frederic Samuel, 3,747,865.
White, Roby Byron; and Tobey, Frederic Samuel, 3,767,969.
Brady, William A., Jr., to Certain-Teed Saint Gobain Insulation Corporation. Packaging compressible material. 3,717,973, 2-27-73, Cl. 53-124.00e.
Brafford, Donald A.; and Adams, Richard J., to Beloit Corporation. Roll covering. 3,707,752, 1-2-73, Cl. 29-132.000.
Braga, Albert T.; Grall, Kenneth J.; and Marcade, Roque D., to Whirlpool Corporation. Dishwasher silverware basket with soaker means. 3,732,876, 5-15-73, Cl. 134-58.00d.
Braga, Albert T., to Whirlpool Corporation. Combination detergent dispenser and manual filter. 3,757,543, 9-11-73, Cl. 68-17.00r.
Bragg, Eric William, to Post Office, The. Circuit arrangement for reducing spurious signals picked up by transmission line. 3,719,904, 3-6-73, Cl. 333-12.000.
Bragg, Gary O.; Bahr, Russel F.; and Williamson, Shellie O., to Caterpillar Tractor Company. Method for making a porsional vibration damper. 3,716,901, 2-20-73, Cl. 29-149.5nm.
Bragg, Gary O.; and Jones, Nelson A., to Caterpillar Tractor Company. Noise-isolated rocker arm cover. 3,773,142, 11-20-73, Cl. 181-33.00r.
Bragg, Ralph J.; and Rothfelder, Raymond E., to Grace, W. R., & Co. Sprayable gypsum plaster composition. 3,719,513, 3-6-73, Cl. 106-114.000.
Bragin, Alexandr Sergeevich: *See—*
Gilev, Vitaly Konstantinovich; Bragin, Alexandr Sergeevich; Sarkisov, Rafael Tevosovich; and Stephanian, Ernst Arakelovich, 3,765,150.
Bragole, Robert A., to USM Corporation. Process for coating polymeric surfaces. 3,764,370, 10-9-73, Cl. 117-47.00a.
Brahler, George R., to Exitec, Inc. Dental prophy angle. 3,740,853, 6-26-73, Cl. 32-59.000.
Brahm, Harry. Combination massaging, air-cushioning and ventilating insole. 3,716,930, 2-20-73, Cl. 36-3.00b.
Brahm, Richard: *See—*
Bauer, Sigrid; Brahm, Richard; and Dietrich, Roland, 3,765,898.
Brahtz, John F. Peel, to United States of America, Navy. Large floating ocean platform. 3,762,352, 10-2-73, Cl. 114-.50d.
Braid, Milton, to Mobil Oil Corporation. Phosphate or phosphite esters of (2-hydroxyalkyl) phosphorodithioates. 3,755,501, 8-28-73, Cl. 260-928.000.
Braid, Milton, to Mobil Oil Corporation. Process for dimerizing diarylamines. 3,759,996, 9-18-73, Cl. 260-576.000.
Braid, Milton, to Mobil Oil Corporation. Oxidation resistant lubricant compositions. 3,767,575, 10-23-73, Cl. 252-51.50r.
Braid, Milton, to Mobil Oil Corporation. Lubricants containing amine antioxidants. 3,773,665, 11-20-73, Cl. 252-50.000.
Braid, Milton; and Quinty, David B., to Mobil Oil Corporation. Phosphorus- and nitrogen-containing lubricant additives. 3,778,375, 12-11-73, Cl. 252-49.900.
Braid, Milton, to Mobil Oil Corporation. Lubricant compositions. 3,781,206, 12-25-73, Cl. 252-51.50r.
Braikeviich, Michael, to English Electric Company Limited, The. Axial water flow machines. 3,756,744, 9-4-73, Cl. 416-189.000.
Braillon, Philibert Maurice Albert. Permanent-magnet holder for ferromagnetic workpieces. 3,775,717, 11-27-73, Cl. 335-295.000.
Brain, Douglas Harold, to J. & P. Coats Limited. Device for automatically guiding material during seam formation. 3,761,073, 9-25-73, Cl. 271-45.000.
Brainard, Allan H.: *See—*
Fitzgibbons, William O.; Schwerko, Elaine M.; and Brainard, Allan H., 3,734,943.
Brainerd, Andrew W.; Brainerd, Kent H.; and Brainerd, Stuart W. Shoe cleaning-polishing device and methods of making the same. 3,722,021, 3-27-73, Cl. 15-231.000.
Brainerd, Kent H.: *See—*
Brainerd, Andrew W.; Brainerd, Kent H.; and Brainerd, Stuart W., 3,722,021.
Brainerd, Stuart W.: *See—*
Brainerd, Andrew W.; Brainerd, Kent H.; and Brainerd, Stuart W., 3,722,021.
Brainin, Herbert, to Vitredent Corporation. Tooth replacement. 3,717,932, 2-27-73, Cl. 32-10.00a.
Braithwaite, David G.: *See—*
Allain, Ronald J.; and Braithwaite, David G., 3,764,494.
Braithwaite, Isaak, & Son Engineers Ltd.: *See—*
Cusworth, Maurice, 3,732,394.
Brake, Cecil Clifford, to Scovill Manufacturing Company. Relay valve for tractor trailer brake systems. 3,752,190, 8-14-73, Cl. 137-627.500.
Brake, Loren D., to Du Pont de Nemours, E. I., and Company. Isomerization of 4,4'-methylenedi(cyclohexylamine) over moderated ruthenium catalyst. 3,711,550, 1-16-73, Cl. 260-563.00b.
Brake, Loren D., to Du Pont de Nemours, E. I., and Company. 4,4-Methylene di(cyclohexylamine) isomerization over a supported catalyst. 3,766,272, 10-16-73, Cl. 260-563.00b.
Brake, Loren Dale, to Du Pont de Nemours, E. I., and Company. Hydrogenation of adiponitrile over alkali-modified cobalt catalyst. 3,773,832, 11-20-73, Cl. 260-583.00k.
Brakebill, Harold G.: *See—*
Perkins, Charles H.; Brakebill, Harold G.; Goff, Earl; and Caldwell, Edward N., 3,743,180.
Braker, James William, to Courtaulds Limited. Crimping slub filaments of thermoplastic polymers. 3,768,245, 10-30-73, Cl. 57-140.0by.
Braley, Silas A.: *See—*
Edmunds, Louis Henry, Jr.; and Braley, Silas A., 3,730,186.
Bram, Georges Eugene, to Societe des Fonderies de Pont-A-Mousson. Joint for tubular elements. 3,765,706, 10-16-73, Cl. 285-231.000.
Brambilla, Guido; and Fogliacco, Vittorio, to RIV-SKF Officine di Villar Perosa S.p.A. Damper device for railway vehicle automatic couplings. 3,729,101, 4-24-73, Cl. 213-45.000.
Bramhall, Otis H.: *See—*
Siegfriedt, Ernest E., Jr.; and Bramhall, Otis H., 3,746,583.
Bramley, Anthony. Manufacture of netting. 3,713,761, 1-30-73, Cl. 425-104.000.
Bramley, Arthur. Light scanning by interference grating and method. 3,721,486, 3-20-73, Cl. 350-6.000.
Bramley, Robert K.: *See—*
Sorenson, Charles E.; Stubblefield, Clyde D.; De Baillie, Arnold A.; Bramley, Robert K.; and Bourassa, Hugh A., 3,771,296.
Brammall, Inc.: *See—*
Van Gompel, James J., 3,749,365.
Van Gompel, James J., 3,754,516.
Van Gompel, James J., 3,765,716.
Van Gompel, James J., 3,770,307.
Brammer, Harmut; Hohne, Gerd; Jakob, Gert; Kalippke, Harold; Sohner, Gerhard; Ehrmann, Karl; and Brand, Gunter, to Bosch, Robert, G.m.b.H. Ignition distributor with control generator for internal combustion engines. 3,744,466, 7-10-73, Cl. 123-148.00e.
Brammer, Max, to Panther Plast A/S. Speculum. 3,750,651, 8-7-73, Cl. 128-20.000.
Bramwell, Susan Elizabeth: *See—*
Carr-Brion, Kenneth Garfield; and Bramwell, Susan Elizabeth, 3,749,910.
Brana, Miguel Fernandez: *See—*
Roldan, Cristobal Martinez; Brana, Miguel Fernandez; and Barrachina, Antonio Vila-Coro, 3,764,594.
Branch, Arthur: *See—*
Kaatz, Herbert W.; Small, Charles B.; and Branch, Arthur, 3,720,388.
Branch, Ethridge S. Pallet skids. 3,759,193, 9-18-73, Cl. 108-51.000.
Branch, Jack P.; and Durham, Noel O. Implanted hearing aids. 3,764,748, 10-9-73, Cl. 179-107.00e.
Branche, William H., to Carrier Corporation. Ignition device for a gas fired appliance. 3,718,838, 2-27-73, Cl. 317-93.000.
Branchesi, Millo: *See—*
Cantatore, Giuseppe; and Branchesi, Millo, 3,749,694.
Brand, Abraham, to General Instrument Corporation. Method and apparatus for aligning magnetic heads in a magnetic disc recorder. 3,781,489, 12-25-73, Cl. 179-100.20r.
Brand, Derek Albert: *See—*
Barlow, Gordon A.; Kramer, Norman; Brand, Derek Albert; and Imatt, Alexander, 3,774,340.
Brand, Dieter; and Esselborn, Reiner, to Merck Patent Gesellschaft mit beschrankter Haftung. Colored nacreous pigments. 3,711,308, 1-16-73, Cl. 106-291.000.
Brand, Eugene L.: *See—*
Kort, Walter A.; and Brand, Eugene L., 3,780,473.
Brand, Glen. Pressure compensated flow control valve. 3,752,182, 8-14-73, Cl. 137-504.000.
Brand, Gunter: *See—*
Brammer, Harmut; Hohne, Gerd; Jakob, Gert; Kalippke, Harold; Sohner, Gerhard; Ehrmann, Karl; and Brand, Gunter, 3,744,466.
Schmaldienst, Peter; and Brand, Gunter, 3,736,914.
Brand, Jake L., Jr., to Texas Instruments, Incorporated. Dynamic position-actuated card reader. 3,763,355, 10-2-73, Cl. 235-61.11e.

Brand, Karl. High pressure hose coupling. 3,749,427, 7-31-73, Cl. 285-382.200.

Brand, Karl. High pressure hose. 3,750,712, 8-7-73, Cl. 138-124.000.

Brand, Karl, to Kugelfischer Georg Schafer & Co. Method of manufacturing high pressure hose coupling. 3,769,690, 11-6-73, Cl. 29-520.000.

Brand, Oskar, to Daimler-Benz Aktiengesellschaft. Mechanism for adjusting the height of seats especially of motor vehicles. 3,724,895, 4-3-73, Cl. 297-348.000.

Brand, Warren L.; and Kashkooli, Faraj Y., to Signetics Corporation. Enhancement mode N-channel MOS structure and method. 3,711,753, 1-16-73, Cl. 317-235.00r.

Branda, Daniel Hamilton; and Branda, Richard Daniel, to Automeasure, Inc. Apparatus for use in the making or alteration of garments. 3,753,293, 8-21-73, Cl. 33-8.000.

Branda, Richard Daniel: *See*—
Branda, Daniel Hamilton; and Branda, Richard Daniel, 3,753,293.

Brandeau, Edward Peter; Chaffee, Quentin Roosevelt; and Gitt, Robert Lewis, to AMP Incorporated. Testing of phosphor bronzes. 3,710,620, 1-16-73, Cl. 73-159.000.

Brandell, John R. Practice golf club. 3,753,564, 8-21-73, Cl. 273-186.00a.

Brandelli, Anthony R. Flow-control device. 3,729,017, 4-24-73, Cl. 137-414.000.

Brandenberg, Karl; and Kautz, Wilbert C., to ARO Corporation, The. Reciprocating pump control system. 3,718,409, 2-27-73, Cl. 417-326.000.

Brandenberg, Karl A., to Aro Corporation, The. Fluid-driven tool with built-in work control mechanism. 3,732,934, 5-15-73, Cl. 173-12.000.

Brandenberger, Ernst, 1/2 to Kubatec Kunststoff- und Bautechnik AG. Thermic lance. 3,738,288, 6-12-73, Cl. 110-1.00r.

Brandenburg, Helmut, to Gebr. Eickhoff, Maschinenfabrik und Eisengeisserei m.b.H. Apparatus for producing double faced corrugated paperboard. 3,753,838, 8-21-73, Cl. 156-555.000.

Brandenburg, Jan Hendrik, to Zimmermann & Jansen Gesellschaft mit beschrankter Haftung. Shut-off device, in particular, a hot blast slide valve. 3,770,005, 11-6-73, Cl. 137-340.000.

Brandenburg, John T.: *See*—
Suggitt, Robert M.; Brandenburg, John T.; and Crone, John M., Jr., 3,780,121.

Brandenburg, Klaus, to U.S. Philips Corporation. Thermodynamic reciprocating machine with controlled fuel/air supply. 3,780,528, 12-25-73, Cl. 60-39.270.

Brandenburg, Lane Howard; Gopinath, Bhaskarpillai; and Kurshan, Robert Paul, to Bell Telephone Laboratories, Incorporated. Interconnected loop digital transmission system. 3,742,144, 6-26-73, Cl. 179-15.0al.

Brandenburg, Rudolf: *See*—
Goldbach, Horst; Brandenburg, Rudolf; and Dabringhausen, Erich, 3,728,819.

Brandenburgsky, Mikhail Galileevich: *See*—
Tobak, Lev Zeilikovich; Shterman, Semen Abramovich; Brandenburgsky, Mikhail Galileevich; Lichman, Nikolai Iosifovich; and Lugovskoi, Andrei Lukyanovich, 3,713,198.

Brandenstein, Manfred, to SKF Kugellagerfabriken GmbH. Clutch release bearing. 3,741,361, 6-26-73, Cl. 192-110.00b.

Brander, George T.; and Lander, William M., to Westinghouse Electric Corporation. Pallet-package structure for cathode ray tubes. 3,717,245, 2-20-73, Cl. 206-65.00r.

Brandestini, Antonio: *See*—
Birkenmaier, Max; Brandestini, Antonio; and Ros, Mirko Robin, 3,725,999.

Brandestini, Antonio. Method for stressing and anchoring wires of a bundle of tensioning wires. 3,710,433, 1-16-73, Cl. 29-452.000.

Brandestini, Antonio; Siegwart, Hans-Rudolf; and Welbergen, Gerard, said Siegwart and said Welbergen assor to said 2/3 interest to Brandestins, Antonio. Anchoring body for key anchoring tension members. 3,766,609, 10-23-73, Cl. 24-126.000.

Brandestini, Antonio. Machine for wrapping tensioned about objects. 3,773,270, 11-20-73, Cl. 242-7.210.

Brandestins, Antonio: *See*—
Brandestini, Antonio; Siegwart, Hans-Rudolf; and Welbergen, Gerard (said Siegwart and said Welbergen assor to said), 3,766,609.

Brandi, Henry W. Film resistors. 3,778,744, 12-11-73, Cl. 338-260.000.

Brandinger, Jay Jerome, to RCA Corporation. Television camera system with enhanced frequency response. 3,735,033, 5-22-73, Cl. 178-5.4st.

Brandino, Dario: *See*—
Michellone, Giancarlo; Maurizio, Gilberto; Calcia, Giuseppe; Brandino, Dario; and Palazzetti, Mario, 3,713,708.

Brandl, Ernst: *See*—
Knauseder, Franz; and Brandl, Ernst, 3,716,579.

Brandl, Ernst; Kleiber, Walter; and Knauseder, Franz, to Biochemie Gesellschaft m.b.H. Process for the production of 6-aminopenicillonic acid. 3,737,375, 6-5-73, Cl. 195-36.00p.

Brandle, Charles David, Jr.; and Miller, David Christopher, to Bell Telephone Laboratories, Incorporated. Technique for growth of single crystal gallium garnet. 3,723,599, 3-27-73, Cl. 423-263.000.

Brandle, Karl: *See*—
Hahnkamm, Volker; Broja, German; Brandle, Karl; and Elstermann, Claus-Heinrich, 3,723,611.
Lailach, Gunter; Gerlach, Gottfried; Trenczek, Gerhard; and Brandle, Karl, 3,730,748.
Zirngibl, Hans; Jaschinski, Klemens; Brandle, Karl; and Weidmann, Walter, 3,727,378.

Brandle, Marvin M. Battering apparatus for opening jammed automobile doors. 3,710,655, 1-16-73, Cl. 81-52.350.

Brandle, Merrill: *See*—
Erny, Daniel Richard; and Brandle, Merrill, 3,753,615.

Brandli, Ronald L.; and Gjovik, James R., to Textron, Inc. Snowmobile suspension system. 3,721,308, 3-20-73, Cl. 180-5.00r.

Brandon, Clarence W., 12 1/2% to Brandon, Orpha B., 50% to Hardin, Nat A., Newton, Catherine H., Wright, Hazel H.; jointly and 5% to Jacob, Harvey B. Method and apparatus for forming and/or augmenting an energy wave. 3,718,186, 2-27-73, Cl. 166-248.000.

Brandon, Clarence W., 50% to Brandon, Orpha B., 50% to Hardin, N. A., Newton, Catherine H. and Wright, Hazel H. Apparatus for producing variable high frequency vibrations in a liquid medium. 3,765,804, 10-16-73, Cl. 417-540.000.

Brandon, Martin: *See*—
Earp, Charles William; and Brandon, Martin, 3,721,987.

Brandon, Orpha B.: *See*—
Brandon, Clarence W., 3,718,186.
Brandon, Clarence W., 3,765,804.

Brandon, William D.; and Drais, Jack A., to Caterpillar Tractor Company. Method of manufacture of helically wound laminated bearings. 3,750,249, 8-7-73, Cl. 29-149.5nm.

Brands, Antoon Hendrikus: *See*—
Bouman, Antonius Fredericus Mattias; Brands, Antoon Hendrikus; and Mulder, Willem, 3,710,380.

Brands, Henry J.: *See*—
Savage, Joseph W.; and Brands, Henry J., 3,715,170.

Brandsdorfer, Arthur: *See*—
Scheinderman, Abraham; Rudzitis, Karl; Brandsdorfer, Arthur; and Wechsler, George, 3,722,774.

Brandsma, Johan Rudolf; Klinkhamir, Jacob Fridrik; and Waumans, Benny Louisa Angelina, to U.S. Philips Corporation. Method of and device for the digital simulation of digital computer configurations. 3,751,645, 8-7-73, Cl. 235-152.000.

Brandsma, Johan Rudolf; and Waumans, Louisa Angelina, to U.S. Philips Corporation. Bus transport system for selection information and data. 3,761,879, 9-25-73, Cl. 340-172.500.

Brandstadter, Jack M. Fluid-mechanical suspension system. 3,752,499, 8-14-73, Cl. 280-124.00f.

Brandstatter, Hans G., to Ontario Research Foundation. Direct reduction process for making titanium. 3,746,535, 7-17-73, Cl. 75-84.500.

Brandstrom, Arne Elof; Gustavii, Klas Ragnar; Junggren, Ulf Krister; and Kylberg, Kerstin, to Aktiebolaget Hassle. Method of quantitative determination of anions. 3,725,006, 4-3-73, Cl. 23-230.00r.

Brandstrom, Seth D. Control device for feeding apparatus for punch process and the like. 3,747,819, 7-24-73, Cl. 226-25.000.

Brandt, Bernd: *See*—
Reinhardt, Helmut; Brandt, Bernd; and Peters, Albert, 3,738,785.
Reinhardt, Helmut; Brandt, Bernd; and Peters, Albert, 3,742,566.
Reinhardt, Helmut; Brandt, Bernd; and Peters, Albert, 3,762,851.

Brandt, Carl Raymond: *See*—
Weaver, John A.; Brandt, Carl Raymond; and Leidy, Lester R., Jr., 3,712,143.

Brandt, Claude R.; and Brandt, Paul A. Snow grader. 3,755,930, 9-4-73, Cl. 37-10.000.

Brandt, Denard A.: *See*—
Van Byken, Harold B., II; and Brandt, Denard A., 3,759,014.

Brandt, Edison R.; and Skurski, James K., to Polaroid Corporation. Flash socket assembly. 3,745,895, 7-17-73, Cl. 95-11.00r.

Brandt, Edison R.; and Costa, Peter F., to Polaroid Corporation. Flash socket assembly. 3,747,489, 7-24-73, Cl. 95-11.00r.

Brandt, Edison R., to Polaroid Corporation. Lens accessory holder. 3,747,490, 7-24-73, Cl. 95-11.000.

Brandt, Edison R.; Cronin, David V.; and Skurski, James K., to Polaroid Corporation. Flash socket assembly. 3,748,980, 7-31-73, Cl. 95-11.00r.

Brandt, Edison R., to Polaroid Corporation. Photoflash apparatus. 3,748,985, 7-31-73, Cl. 95-11.00r.

Brandt, Edmund D., to Western Electric Company, Incorporated. Printed circuit board and a method of repairing contacts on a printed circuit board. 3,765,076, 10-16-73, Cl. 29-401.000.

Brandt, George W.; and Hague, Joe T., to General Electric Company. Terminal assembly. 3,721,948, 3-20-73, Cl. 339-176.00r.

Brandt, Gerald B., to Westinghouse Electric Corporation. Coherent optical processing method and system having improved signal-to-noise ratio utilizing polarizing filters. 3,722,982, 3-27-73, Cl. 350-147.000.





Brandt, Heinrich, to Bergische Achsenfabrik Fr. Kotz & Sohne. Multistage wheel hub transmission. 3,717,049, 2-20-73, Cl. 74-750.00r.

Brandt, James D.: *See*—
Tajchman, Edwin J.; and Brandt, James D., 3,723,907.

Brandt, Joachim, to Apparatebau Rothemuhle Brandt & Kritzler. Device for heating or drying dust-like material. 3,764,258, 10-9-73, Cl. 432-107.000.

Brandt, Maurice W.; and Shears, Franklin J., to Gerber Products Company. Grain steaming apparatus. 3,721,018, 3-20-73, Cl. 34-168.000.

Brandt, Otto; and Tocquet, Bernard. Electro-acoustic transducer. 3,731,267, 5-1-73, Cl. 340-10.000.

Brandt, Paul A.: *See*—
Brandt, Claude R.; and Brandt, Paul A., 3,755,930.

Brandt, Paul H. Refrigerant metering system. 3,757,532, 9-11-73, Cl. 62-278.000.

Brandt, Robert E.; Fegeat, Tony G.; and Forde, Patrick J., to Bunker-Ramo Corporation, The. Apparatus for producing patterned deep pile circular knitted fabrics. 3,709,002, 1-9-73, Cl. 66-9.00b.

Brandt, Robert O. Force indicator. 3,757,589, 9-11-73, Cl. 73-502.000.

Brandt, Siegfried: *See*—
Schmitt, Karl; Gude, Fritz; and Brandt, Siegfried, 3,734,887.

Brandt, Thomas F., Jr.; and Netzel, Philip C., to I-T-E Imperial Corporation. Low profile circuit breaker with staggered terminals. 3,735,065, 5-22-73, Cl. 200-50.0aa.

Brandt, William L.; Boston, Tommy E.; and Reed, Don E., to Olin Corporation. Method for making hollow ice bodies. 3,721,103, 3-20-73, Cl. 62-73.000.

Brandt, William L., to Olin Corporation. Target launcher. 3,724,438, 4-3-73, Cl. 124-11.00r.

Brandt, William P.; and Huffman, James D., to Den-Tal-Ez Mfg. Co. Dental chair with a switch actuating arm rest. 3,774,965, 11-27-73, Cl. 297-417.000.

Brandts, Klaus: *See*—
Schnurmann, Rudolf; and Brandts, Klaus, 3,753,226.

Brandwein, Edward K. Hand-manipulated puppet. 3,747,264, 7-24-73, Cl. 46-154.000.

Brane, Earl P., to Laurtech International Company, mesne. Water softener valve assembly with regeneration capability. 3,779,281, 12-18-73, Cl. 137-625.290.

Branen, Kenneth E.; Castle, George K.; and Mullen, Charles K., to United States of America, Navy. Supersonic vehicle control surface having a thermally protective coating. 3,712,566, 1-23-73, Cl. 244-117.00a.

Branen, Leonard A.: *See*—
Hall, Larry E.; Branen, Leonard A.; and Moore, Glen F., 3,746,100.

Branen, William T.; and Watson, Roger W., to Standard Oil Company (Indiana). Polymeric succinimides and their derivatives as fuel and motor oil additives. 3,723,460, 3-27-73, Cl. 260-326.50f.

Braner Engineering, Inc.: *See*—
Braner, Harold R.; Jasinski, William C.; Matsunaga, Douglas S.; and Valencia, Agapito, 3,727,503.

Braner, Harold R.; Jasinski, William C.; Matsunaga, Douglas S.; and Valencia, Agapito, to Braner Engineering, Inc. Slitter having pivotal multiple spaced pairs of arbors. 3,727,503, 4-17-73, Cl. 83-479.000.

Brangle, Edward J., Jr. Quick-erect carton. 3,731,873, 5-8-73, Cl. 229-41.00r.

Branham, Donald R.; and Borg, Paul E., to Pyramid Derrick & Equipment Corporation. Arrangement for measuring the load on a hook carried by a traveling block which is supported from the crown block of a drilling mast. 3,747,402, 7-24-73, Cl. 73-151.000.

Branham, Donald R., to Pyramid Derrick & Equipment Corporation. High floor pivoted mast drilling rig. 3,747,695, 7-24-73, Cl. 173-151.000.

Branham, Donald R.; Borg, Paul E.; and Goerner, Douglas C., to Pyramid Derrick & Equipment Corporation. Deep well drilling apparatus. 3,749,183, 7-31-73, Cl. 173-151.000.

Branham, Donald R.; and Borg, Paul E., to Pyramid Derrick & Equipment Corporation. Transportable drilling mast substructure with elevatable drawworks. 3,754,361, 8-28-73, Cl. 52-115.000.

Branham, Norvil R.; and Pantaze, Peter C. Method and apparatus for stabilizing. 3,752,207, 8-14-73, Cl. 157-13.000.

Branibar, Nick G., to Anken Industries. Film dispenser. 3,752,302, 8-14-73, Cl. 206-52.00f.

Branick, Charles Earl. Earth mover tire bead breaker. 3,771,580, 11-13-73, Cl. 157-1.170.

Branick Manufacturing Company: *See*—
Castoe, John H., 3,780,988.

Braniski, Alexandru I.; Ionescu, Teodor; and Deica, Neculai, to Institutul de Cercetari Metalurgice. Refractory aluminous cements. 3,718,492, 2-27-73, Cl. 106-104.000.

Braniski, Alexandru I.; Ionescu, Theodor D.; and Deica, Neculaic D., to Institutul de Cercetari Metalurgice. Refractory aluminous cements. 3,748,158, 7-24-73, Cl. 106-62.000.

Brannan, Glenn: *See*—
Bower, H. W.; and Brannan, Glenn, 3,726,035.

Brannan, Jack D. Household rubbish reduction system. 3,728,977, 4-24-73, Cl. 110-8.00r.

Brannan, Walter F. Self-rewinding machine control tape cassette. 3,773,271, 11-20-73, Cl. 242-55.19a.

Brannen, William T., to Standard Oil Company. Hydrocarbon fuel and lubricating oil solutions of trialkyl phosphite-long chain alkenylsuccinic anhydride reaction. 3,715,311, 2-6-73, Cl. 252-49.800.

Brannock, Kent C.: *See*—
Young, David A.; and Brannock, Kent C., 3,780,111.

Branscome, Kenneth M.: *See*—
Goode, George E.; Morgan, Barrie O.; and Branscome, Kenneth M., 3,781,472.
Goode, George E.; and Branscome, Kenneth M., 3,781,473.

Branson Instruments, Incorporated: *See*—
Fuller, David H.; and Rissolo, Herman A., 3,764,116.
Kramer, George C., 3,721,833.
Kramer, George C., 3,765,973.
Obeda, Edward G.; and Parry, Frank, 3,734,805.
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Shoh, Andrew, 3,752,380.
Watson, James J., Jr., 3,752,381.

Branson, Theodore A.: *See*—
Schmitz, Thomas R.; and Branson, Theodore A., 3,742,867.
Yang, Tung H.; and Branson, Theodore A., 3,736,883.

Brant, Malcolm Victor: *See*—
Emley, Edward Frederick; and Brant, Malcolm Victor, 3,753,690.

Brant, Roy G.; and Shepard, Stephen K., to Beckman Instruments, Inc. Multi sectional rotary wafer switch assembly with improved support and terminal connector for thin circuit module. 3,780,238, 12-18-73, Cl. 200-11.0da.

Brant, Victor George. Screens. 3,726,055, 4-10-73, Cl. 52-581.000.

Brant, William: *See*—
Baker, Arthur R.; Brant, William; and Danielson, Clarence J., 3,709,492.

Brantley, Jerry K., to Caterpillar Tractor Company. Flexible strap wrench. 3,728,916, 4-24-73, Cl. 81-64.000.

Brantley, Richard Kirven, to Du Pont de Nemours, E. I., and Company. Method of selectively controlling undesirable vegetation. 3,743,498, 7-3-73, Cl. 71-88.000.

Brantley, Richard Kirvwn, to Du Pont de Nemours, E. I., and Company. Ureidopyrazoles as defoliants. 3,754,887, 8-28-73, Cl. 71-74.000.

Brantly, Thomas B.: *See*—
Merrill, Stewart H.; and Brantly, Thomas B., 3,779,750.

Brantly, Thomas B., to Eastman Kodak Company. Electrophotographic compositions and elements. 3,719,480, 3-6-73, Cl. 96-1.0pc.

Brantman, Leon L.: *See*—
Canale, Raymond P.; and Brantman, Leon L., 3,777,481.

Branton, Eric Swdney, to Activated Sludge Limited. Means for diffusing gases into liquids. 3,733,064, 5-15-73, Cl. 261-122.000.

Branz, Weldon K.; Pennington, John C.; and Terpening, Leslie E., to Lectron Industries, Inc. Golf practicing apparatus. 3,738,660, 6-12-73, Cl. 273-185.00d.

Branz, Weldon K., to Lectron Industries, Inc. Golf practicing apparatus. 3,743,296, 7-3-73, Cl. 273-185.00d.

Brarden, Edith Mae: *See*—
Spurlock, James W.; Howard, George C.; and Bearden, William G., 3,768,557.

Bras S.p.A.: *See*—
Rimini, Tito, 3,765,569.

Brase, George: *See*—
Kisle, Adolph J.; and Brase, George, 3,769,861.

Brase, Roy J. Instrument for isolating rows of printed matter for reading. 3,739,739, 6-19-73, Cl. 116-119.000.

Braselmann, Ferd., Firma: *See*—
Braselmann, Ferdinand, 3,715,102.

Braselmann, Ferdinand, to Braselmann, Ferd., Firma. Lifting jack. 3,715,102, 2-6-73, Cl. 254-96.000.

Brasher, James A.: *See*—
Cummins, Billy H.; Ashton, William B.; Brasher, James A.; and Askew, John D., Jr., 3,766,055.

Brasher, James Alan; Bozeman, Paul Preston; and Odell, Norman Raymond, to Texaco Inc. Solvent dewaxing with separation of solvent by liquid-liquid extraction. 3,719,585, 3-6-73, Cl. 208-33.000.

Brasher, Leonard E. Photographic print processing apparatus. 3,709,138, 1-9-73, Cl. 95-93.000.

Brasie, William C., to Dow Chemical Company, The. Interfacial surface generator. 3,738,615, 6-12-73, Cl. 259-4.000.

Brasky, Joseph L., to Therma-Ray, Inc. Radiant panel heating system. 3,751,630, 8-7-73, Cl. 219-345.000.

Brass, James Richard: *See*—
Williamson, Alexander; Robinson, John Donald; and Brass, James Richard, 3,768,550.

Brass, John R. Tangent plane light reflector luminaire. 3,746,854, 7-17-73, Cl. 240-41.360.

Brass-Craft Manufacturing Co.: *See—*
Zell, Robert M.; and Maxwell, Reginald R., 3,770,243.

Brassai, Bert, to Bayer Aktiengesellschaft. Process for the anionic polymerization of lactams. 3,772,253, 11-13-73, Cl. 260-78.001.

Brassat, Bert, to Bayer Aktiengesellschaft. Process for the production of pigmented polyamides. 3,775,362, 11-27-73, Cl. 260-37.00n.

Brassaw, Alden J.: *See—*
Weller, Carl E.; and Brassaw, Alden J., 3,744,921.

Brasseur, Gill, to Bombardier Limited. Sprocket wheel for snowmobile or the like. 3,774,465, 11-27-73, Cl. 74-234.00r.

Brassington, Samuel M., to Material Flow Inc. Twin track cartridge stereoscopic viewer. 3,722,983, 3-27-73, Cl. 350-135.000.

Brastad, William A., to General Mills, Inc. Easily openable carton with elongated adherence areas near the side edges of the overlapped flap. 3,719,317, 3-6-73, Cl. 229-51.0wb.

Brastow, Carl H., to Kamborian, Jacob S. Coating machine. 3,759,219, 9-18-73, Cl. 118-261.000.

Brasty, Joseph M., to Stokowski, Elizabeth. Distributor cap and ignition system protection means. 3,745,271, 7-10-73, Cl. 200-19.0dc.

Brat, Claude: *See—*
Bonnabaud, Joannes Francis Marcel; and Brat, Claude, 3,750,972.

Brath, Alfred: *See—*
Wick, Richard; Brath, Alfred; and Wagensonner, Eduard, 3,778,558.

Bratkovic, Mirko A.: *See—*
Mitchell, Alfred J.; and Bratkovic, Mirko A., 3,773,442.

Bratkowski, Walter V.: *See—*
Shoupp, William E.; and Bratkowski, Walter V., 3,709,118.

Bratkowski, Walter V.; and Pittman, Paul F., to Westinghouse Electric Corporation. Direct current amplifier. 3,725,807, 4-3-73, Cl. 330-185.000.

Bratland, Arthur. Preparation of cheese. 3,716,377, 2-13-73, Cl. 99-116.000.

Bratland, Arthur. Preparation of foodstuffs containing a high content of emulsified fat. 3,716,378, 2-13-73, Cl. 99-122.00r.

Bratschi, Konrad. Electromechanical pulling device for rail-guided hangings, particularly curtains. 3,753,457, 8-21-73, Cl. 160-331.000.

Bratschitsch, John, to Lely Corporation, The. Applying a preservative to grain or the like. 3,734,777, 5-22-73, Cl. 134-132.000.

Bratschun, William R.: *See—*
Ali, Mir Akbar; Bratschun, William R.; and Pincus, Alexis G., 3,773,528.

Bratt, Harold F.: *See—*
Vogel, Ralph A.; and Bratt, Harold F., 3,745,807.

Bratton, Francis H. Selection control methods for explosive systems. 3,774,541, 11-27-73, Cl. 102-27.00r.

Bratton, Francis H. Containers for extrudable materials. 3,774,809, 11-27-73, Cl. 222-137.000.

Bratton, Francis H. Extrusion packages for viscous materials. 3,774,816, 11-27-73, Cl. 222-391.000.

Bratton, Francis H. Caulking guns with the handle positioned adjacent the dispensing outlet. 3,774,819, 11-27-73, Cl. 222-391.000.

Bratton, Raymond J.; Roberts, Elwyn; and Smerd, Peter G., to Westinghouse Electric Corporation. Pressurized fuel elements for a nuclear reactor. 3,772,147, 11-13-73, Cl. 176-68.000.

Bratus, Anatoly Dmitrievich: *See—*
Levlya, Andrei Dmitrievich; Kazakevich, Igor Illarionovich; Gribalev, Nilolai Ivanovich; Lozhkin, Vladimir Mikhailovich; Sokolov, Boris Ivanovich; Safronov, Sergei Fedorovich; Moroziv, Evgeny Vasilievich; Sirota, Vladimir Andreevich; Mitkin, Vladimir Andrevich; Kozhin, Nikolai Ivanovich; and Bratus, Anatoly Dmitrievich, 3,723,860.

Braucht, Theodore C., to D & W Rankin Manufacturing Company. Automatic dredge pump rebuilder. 3,769,486, 10-30-73, Cl. 219-76.000.

Brauckmann, Johannes. Spindle staircase. 3,713,260, 1-30-73, Cl. 52-187.000.

Braucksiek, Henry C.: *See—*
Katchka, Jay R.; and Braucksiek, Henry C., 3,762,639.

Braucksiek, Henry C.; Katchka, Jay R.; and Dykzeul, Theodore J., to Robertshaw Controls Company. Dual rate gaseous fuel burner assemblies. 3,754,853, 8-28-73, Cl. 431-285.000.

Braude, Basil. Property investment board game apparatus. 3,765,682, 10-16-73, Cl. 273-134.0af.

Braude, George L., to Grace, W. R., & Co. Polyenes modified with polyfunctional N-halo amines. 3,730,951, 5-1-73, Cl. 260-77.50b.

Braude, George L.; and Stahly, Eldon E., to Grace, W. R., & Co. Fire retardant compositions containing nitrogen-phosphorous halogen adducts. 3,753,770, 8-21-73, Cl. 117-138.000.

Braudy, Robert S., to RCA Corporation. Laser writing. 3,745,586, 7-10-73, Cl. 346-76.000.

Brauer, Alfred: *See—*
Scanlon, Joseph C.; Brauer, Alfred; Carvalho, Robert; and Ellis, Cecil B., 3,740,559.

Brauer, Edwin Henry. Automatic press brake back gauge. 3,733,885, 5-22-73, Cl. 72-461.000.

Brauer, Heinz; and Muhle, Jochen. Method of operating a fluidized bed reactor. 3,711,956, 1-23-73, Cl. 34-10.000.

Brauer, James S.: *See—*
Baker, Gary, 3,727,310.

Brauer, Willi, to Langenstein & Schemann Aktiengesellschaft. Machines for forming a workpiece between two ram heads. 3,707,866, 1-2-73, Cl. 72-407.000.

Brauhut, Harold N. Wallet. 3,744,541, 7-10-73, Cl. 150-35.000.

Braukmann Armaturen AG: *See—*
Braukmann, Heinz-Werner, 3,730,426.

Braukmann, Heinz-Werner, to Braukmann Armaturen AG. Thermostatic valve. 3,730,426, 5-1-73, Cl. 236-44.00c.

Braumann, Gundokar; Stocker, Helmut; and Hillenbrand, Dieter, to Siemens Aktiengesellschaft. Bistable polarized electromagnetic relay. 3,721,927, 3-20-73, Cl. 335-179.000.

Braumuller, Kurt: *See—*
Baumann, Karl-Friedrich; Hoff, Hans; and Braumuller, Kurt, 3,763,763.

Braun Aktiengesellschaft: *See—*
Braun, Arthur; and Schreiber, Friedrich, 3,768,348.
Buxmann, Heinrich-Julius, 3,732,803.
Claus-Christian, Corarg, 3,766,946.
Cobarg, Christian; Fenner, Erich; Guntersdorfer, Max; Heywang, Walter; Otto, Franz; Schofer, Rudolf; and Thomann, Helmut, 3,748,503.
Cobarg, Christian; Fenner, Erich; Guntersdorfer, Max; Heywang, Walter; Otto, Franz; Schofer, Rudolf; and Thomann, Helmut, 3,750,279.
Cobarg, Claus Christian; and Napierski, Reinhard, 3,774,023.
Cobarg, Claus-Christian, 3,744,958.
Guntersdorfer, Max (said Guntersdorfer assor. to), 3,760,203.
Johannsen, Hans Werner; and Oberheim, Robert, 3,743,401.
Kuhl, Adolf; Huber, Hans Dieter; and Bollmann, Helmut, 3,760,497.
Leistner, Rudolf, 3,738,244.
Lohberg, Peter; Katte, Hans Jorgen; and Blieske, Herbert, 3,736,464.
Lohberg, Peter, 3,751,713.
Lohberg, Peter, 3,758,820.
Messinger, Werner, 3,724,072.
Messinger, Werner, 3,771,842.
Schindler, Hans, 3,760,231.
Schindler, Hans, 3,760,313.
Schindler, Hans, 3,761,850.
Solzer, Willi, 3,712,788.
Voigt, Gunter; and Metzler, Norbert, 3,729,821.

Braun Aktiengesellschaft, mesne: *See—*
Roth, Johann, 3,762,287.

Braun, Anton. Internal combustion engine fuel supply apparatus. 3,722,481, 3-27-73, Cl. 123-46.00r.

Braun, Anton. Free piston engine starting apparatus. 3,769,950, 11-6-73, Cl. 123-46.00a.

Braun, Arthor Rechtman, to Bell Telephone Laboratories, Incorporated. Resonator interconnections in monolithic crystal filters. 3,739,304, 6-12-73, Cl. 333-72.000.

Braun, Arthur; and Schreiber, Friedrich, to Braun Aktiengesellschaft. Dryshaver operation. 3,768,348, 10-30-73, Cl. 83-13.000.

Braun, Arthur R. Spray device. 3,724,763, 4-3-73, Cl. 239-490.000.

Braun, B., Melsungen Aktiengesellschaft: *See—*
Hampel, Heinz, 3,754,644.

Braun, Bernard G.: *See—*
Schaible, Aaron M.; Braun, Bernard G.; Bennett, Wilbur G.; and Brown, Richard L., 3,707,990.

Braun, Bernard G., to Case, J. I., Company. Control system for fluid cylinder. 3,733,965, 5-22-73, Cl. 91-275.000.

Braun, Bernard G., to Case, J. I., Company. Vibratory concrete placer. 3,771,897, 11-13-73, Cl. 415-72.000.

Braun, C. F., & Co.: *See—*
Wright, Lee E.; and Pickford, Allan E., 3,721,532.

Braun, Curt, to Hunter Engineering Co. Method and apparatus for continuously processing strip. 3,727,820, 4-17-73, Cl. 226-113.000.

Braun, Daniel E., to Briggs & Stratton Corporation. Combined rope starter and guard for gasoline engines. 3,744,468, 7-10-73, Cl. 123-185.00a.

Braun, Dieter, to Fortuna-Werke Maschinenfabrik Aktiengesellschaft. Shoe treatment. 3,780,390, 12-25-73, Cl. 12-1.00r.

Braun, Eberhard: *See—*
Wahnschaffe, Jurgen; and Braun, Eberhard, 3,762,167.
Wahnschaffe, Jurgen; Gwinner, Dietrich; Pattas, Konstantin; and Braun, Eberhard, 3,763,649.

Braun, Eberhard; and Brodbeck, Werner, to Daimler-Benz Aktiengesellschaft. Rotary piston internal combustion engine with externally controlled ignition by means of a spark plug. 3,738,331, 6-12-73, Cl. 123-8.090.

Braun, Edwin Julius; Meise, Henry August, Jr.; and Taylor, George William, to Bell Telephone Laboratories, Incorporated. Digital register readout circuit. 3,725,598, 4-3-73, Cl. 179-18.0eb.





Braun, Edwin Julius; and Romero, Roderic, to Bell Telephone Laboratories, Incorporated. Serially content addressable memory controlled call forwarding system. 3,736,382, 5-29-73, Cl. 179-18.0be.

Braun, Erich, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Safety system for two-circuit brake installations of motor vehicles. 3,760,912, 9-25-73, Cl. 188-345.000.

Braun, Erich, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Safety installation for two-circuit brake systems, especially of motor vehicles. 3,774,974, 11-27-73, Cl. 303-6.00r.

Braun, Ernst: *See—*
Braun, Gert; and Braun, Ernst, 3,766,792.

Braun, Francois Marie Joseph, to Societe Anonyme Belge d'Exploitation de la Navigation Aerienne (SABENA). Seat, couch or bed, provided with at least one vacuum cushion. 3,730,588, 5-1-73, Cl. 297-284.000.

Braun, Frank Adolf; and Trambarulo, Ralph Francis, to Bell Telephone Laboratories, Incorporated. Method of splicing optical fibers. 3,768,146, 10-30-73, Cl. 29-460.000.

Braun, Franz; and Ribnitz, Peter, to Gema AG Apparatebau. Monitoring apparatus for preventing spark-overs at a high voltage installation. 3,764,883, 10-9-73, Cl. 321-11.000.

Braun, Gert; and Braun, Ernst, to Halbach & Braun. Planer drive system. 3,766,792, 10-23-73, Cl. 74-243.00h.

Braun, Gunter: *See—*
Frings, Horst; Braun, Gunter; Mosle, Ernst; and Schmid, Ludwig, 3,769,860.

Braun, Helmut F.: *See—*
Henke, Erich G.; Braun, Helmut F.; Scholl, Karl L.; and Schubert, Rudolf, 3,735,669.

Braun, John: *See—*
Tatum, Howard J.; Jernberg, Nils A.; and Braun, John, 3,711,035.

Braun, Josef; and Seifert, Eberhard, to Sulzer Brothers Limited. Terry cloth take-up motion for weaving machine. 3,774,651, 11-27-73, Cl. 139-291.00r.

Braun, Karl. Guide for phono-pick-up. 3,771,797, 11-13-73, Cl. 274-23.00a.

Braun, Klaus; Gabsch, Gunther; Forster, Werner; Ertel, Rolf; and Femmer, Klaus, to VEB Arzneimittelwerk Dresden. Amino alcohol derivatives of ajmaline. 3,764,599, 10-9-73, Cl. 260-247.20r.

Braun, Leon, to Molecular Energy Corporation. Method of making semi-conductive cathodes. 3,716,403, 2-13-73, Cl. 117-201.000.

Braun, Leonard C.; and Klygis, M. Julius, to Illinois Tool Works Inc. Quick opening container package. 3,721,337, 3-20-73, Cl. 206-65.00e.

Braun, Lorne D., to Canadian Patents and Development Limited. Parametric amplifier. 3,723,893, 3-27-73, Cl. 330-4.900.

Braun, Martin, to Machlett Laboratories, Incorporated, The. X-ray tube anode target. 3,753,021, 8-14-73, Cl. 313-60.000.

Braun, Marvin W. Advertising display device. 3,722,119, 3-27-73, Cl. 40-132.00d.

Braun, Norman: *See—*
Gold, David; Misek, Bernard; and Braun, Norman, 3,729,553.

Braun, Oskar, to Xerox Corporation. Apparatus for placing rollers in contact in a pressure fuser assembly. 3,754,819, 8-28-73, Cl. 355-3.000.

Braun, Otto; and Weber, Hans, to Demag Aktiengesellschaft. Device and method for controlling the movement of a deformation roll. 3,726,117, 4-10-73, Cl. 72-7.000.

Braun, Paul E. Recoil stock. 3,714,726, 2-6-73, Cl. 42-74.000.

Braun, Paul E.; and Obermeyer, Ernest J., to Ford Motor Company. Carburetor emission control. 3,744,471, 7-10-73, Cl. 123-198.0db.

Braun, Ralph V., to Kimberly-Clark Corporation. Compressively deformed cellulosic laminates with improved drape, bulk, and softness. 3,753,844, 8-21-73, Cl. 161-57.000.

Braun, Richard E.; and Hopkins, Lionel G. Method of manufacturing multiple track, dual gap magnetic heads. 3,737,992, 6-12-73, Cl. 29-603.000.

Braun, Sam Marcel: *See—*
Lacrampe, Roger Daniel; and Lacrampe, Thierry Arnaud Henri, 3,764,945.

Braun, Stephan: *See—*
Philipp, Gabriel; and Braun, Stephan, 3,712,081.

Braun, Vernon F.: *See—*
Wilhelmson, Jack L.; Weichselbaum, Theodore E.; and Braun, Vernon F., 3,731,679.
Wilhelmson, Jack L.; Weichselbaum, Theodore E.; and Braun, Vernon F., 3,739,943.

Braun, W., Company: *See—*
Lerner, Nathan B., 3,768,697.

Braun, William V.; Brown, Daniel P.; and Leitich, Albert J., to Motorola, Inc. Selective calling squelch circuit for receiving systems. 3,758,860, 9-11-73, Cl. 325-18.000.

Braunberger, Benjamin A.: *See—*
Burrough, Donald E.; and Braunberger, Benjamin A., 3,729,907.
Burrough, Donald E.; and Braunberger, Benjamin A., 3,754,383.

Braunberger, Benjamin A., to Gehl Company. Mower sickle hold-down means. 3,715,845, 2-13-73, Cl. 56-305.000.

Braunberger, Benjamin A., to Gehl Company. Windrowing means for agricultural machine. 3,722,191, 3-27-73, Cl. 56-189.000.

Braune, Gerhard: *See—*
Kirchner, Willi; and Braune, Gerhard, 3,777,727.

Braunhut, Harold N. Optical toy device for simulating stereoscopic X-ray images. 3,711,183, 1-16-73, Cl. 350-162.00r.

Braunhut, Harold N. Device for secretly observing visual intelligence. 3,750,316, 8-7-73, Cl. 40-137.000.

Brauning, Gerhard: *See—*
Ort, Wolfgang; and Brauning, Gerhard, 3,732,058.

Brauninger, Arno: *See—*
Frommeld, Hans-Dieter; Scheler, Siegfried; and Brauninger, Arno, 3,736,143.

Braunlich, Frank H., Jr.; and Bishop, Milton L., to Dow Chemical Company, The. Fracturing of subterranean formations. 3,709,295, 1-9-73, Cl. 166-245.000.

Braunlich, Peter F., to Bendix Corporation, The. Surface imaging utilizing exoelectron emission. 3,715,583, 2-6-73, Cl. 250-71.00r.

Braunlich, Peter F., to Bendix Corporation, The. Surface imaging exoelectron microscope. 3,758,778, 9-11-73, Cl. 250-307.000.

Braunschweigische Maschinenbauanstalt: *See—*
Dietzel, Walter, 3,713,469.
Dietzel, Walter; Matusch, Siegfried; and Hemminghaus, Uwe, 3,747,943.
Mushack, Franz, 3,726,715.
Schlums, Karl-Dieter, 3,731,500.
Schneider, Ferdinand; Reinefeld, Erich; and Dietzel, Walter, 3,746,576.
Wolff, Reinhard; and Dietzel, Walter, 3,731,613.

Braunschweiler, Hans Georg, to Fischer, Georg, A.G. Brugg. Circular weaving machine. 3,709,262, 1-9-73, Cl. 139-14.000.

Braunstein, David M., to Celanese Corporation. Oxymethylene polymer compositions containing acicular calcium metasilicate. 3,775,363, 11-27-73, Cl. 260-37.0al.

Braunstein, Jerry: *See—*
Romberger, Karl A.; and Braunstein, Jerry, 3,714,014.

Braunstein, Morris; and Bleba, William P., Jr., to Hughes Aircraft Company. Liquid crystal device. 3,732,429, 5-8-73, Cl. 250-213.00r.

Braunstein, Simeon, to United States of America, Air Force. Photographic developer. 3,778,267, 12-11-73, Cl. 96-66.0hd.

Braunwarth, John B.: *See—*
Sanders, Herbert L.; and Braunwarth, John B., 3,729,420.

Braunwieser, Johann: *See—*
Kralowetz, Bruno; Braunwieser, Johann; and Reznar, Josef, 3,769,825.

Braunwieser, Johann; Heimel, Othmar; and Hein, Otto. Gripping head for gripping a workpiece to be swaged. 3,712,096, 1-23-73, Cl. 72-28.000.

Brauss, Albert. Overspeed and positioning device for a shaft. 3,776,368, 12-4-73, Cl. 182-19.000.

Brauss, Erhard; and Dercho, Albert, to Proto Manufacturing Ltd. Air purifier. 3,750,370, 8-7-73, Cl. 55-279.000.

Brautigam, Frank Charles, to Pennwalt Corporation. Centrifuge apparatus. 3,764,062, 10-9-73, Cl. 233-7.000.

Bravencec, Frank R. Calibrated densitometer accommodating various color tones. 3,765,776, 10-16-73, Cl. 356-189.000.

Braver, Alvin Stanley, to International Air Conditioning Corporation. Modular heating and cooling apparatus. 3,722,580, 3-27-73, Cl. 165-50.000.

Braverman, Maynard: *See—*
Fisher, William J., 3,768,361.

Braverman, Maynard, mesne: *See—*
Fisher, William J., 3,745,639.
Fisher, William J., 3,777,351.

Braverman, Milton, to Medi-Dise, Inc. Medicinal dispensing device. 3,780,856, 12-25-73, Cl. 206-56.0ab.

Braverman, Theodore: *See—*
Klingler, Josef F.; Braverman, Theodore; and Klingler, Charles E., 3,717,035.

Bravi, Jean-Claude; Poulain, Claude; and Viallet, Claude, to Societe Anonyme dite: Aquitaine Total Organico. Process to improve the efficiency of photochemical reactions. 3,734,845, 5-22-73, Cl. 204-162.0xm.

Brawn, Darrell S., to Eaton Corporation. Safety apparatus. 3,756,617, 9-4-73, Cl. 280-150.00a.

Brax, Harri J.; Porinchak, Joseph F.; and Weinberg, Alan S., to Grace, W. R., & Co. Laminates of ethylene/vinyl acetate polymers and polymers of vinylidene chloride. 3,741,253, 6-26-73, Cl. 138-137.000.

Braxton Corporation: *See—*
Horsley, Caperton B., 3,708,033.

Bray, Andrew M., to Magna-Graphics Corporation. Coating mat. 3,714,692, 2-6-73, Cl. 29-129.000.

Bray, Andrew M., to Magna-Graphics Corporation. Magnetic print cylinder. 3,721,189, 3-20-73, Cl. 101-382.0mv.

Bray, Andrew M., to Magna-Graphics Corporation. Coating roll. 3,745,626, 7-17-73, Cl. 29-129.000.

Bray, Charles W. Dual sight attachment for a gun. 3,732,642, 5-15-73, Cl. 42-1.00s.

Bray, Donald T., to Desalination Systems, Inc. Reverse osmosis water purifying system with gradient barrier water storage container. 3,726,793, 4-10-73, Cl. 210-23.000.

Bray, Donald T., to Desalination Systems, Inc. Water purification system for small reverse osmosis unit with integral blowdown water disposal. 3,740,330, 6-19-73, Cl. 210-23.000.

Bray, Donald T., to Desalination Systems, Inc. Water purification system for small reverse osmosis unit with integral blowdown water disposal. 3,746,640, 7-17-73, Cl. 210-23.000.

Bray, Douglas: *See—*
Porter, David H.; Kemmerer, Wayne; and Bray, Douglas, 3,735,123.

Bray, Ralph; and Rowan, Clement W., to Philco-Ford Corporation. Electronic switch. 3,710,143, 1-9-73, Cl. 307-244.000.

Bray, Richard L. Snow skis for vehicle wheels. 3,756,615, 9-4-73, Cl. 280-14.000.

Brayley, Elwin J.: *See—*
Swift, Thomas E.; and Brayley, Elwin J., 3,722,488.
Swift, Thomas E.; and Brayley, Elwin J., 3,741,185.

Brayman, Theron R. Reel for water skiing. 3,738,589, 6-12-73, Cl. 242-96.000.

Brayshaw, Forrest G.; and Roberts, Theodore S., to Bio-Tel Western Inc. Physiological pressure sensing and telemetry means employing a diode connected transistor transducer. 3,757,770, 9-11-73, Cl. 128-2.00r.

Braytenbah, Andrew S., to Westinghouse Electric Corporation. Steam turbine system with digital computer position control having improved automatic-manual interaction. 3,741,246, 6-26-73, Cl. 137-624.110.

Brayton, Christopher: *See—*
Bing, Herbert A.; Brayton, Christopher; and Rubinstein, Leon, 3,745,904.

Brayton, Donald B., to United States of America, Air Force. Laser velocimeter employing dual scatter detection. 3,723,004, 3-27-73, Cl. 356-28.000.

Brayton, Donald B., to United States of America, Air Force. Laser velocimeter employing reference beam detection. 3,730,625, 5-1-73, Cl. 356-28.000.

Brazell, James W.: *See—*
Grubb, Willard L.; Turner, Howard E.; and Brazell, James W., 3,720,048.

Brazell, James W., to Heath International, Inc. Plow hitch. 3,731,750, 5-8-73, Cl. 172-457.000.

Brazier, Robert Leo, to Sangamo Electric Company. Capacitor with terminal clips. 3,718,844, 2-27-73, Cl. 317-258.000.

Braznell, Andrew S. Combined postcard and mailer. 3,762,630, 10-2-73, Cl. 229-92.800.

Brazzel, Ronald D.; to Howe-Baker Engineers Inc. Absorption control. 3,775,946, 12-4-73, Cl. 55-58.000.

Brazzell, Jack W. Animal commode. 3,752,121, 8-14-73, Cl. 119-1.000.

Brda, Otto. Multipurpose device for moving persons or loads over a height difference. 3,759,346, 9-18-73, Cl. 182-7.000.

Breading, Robert P. Floor construction including carpeted trench headers. 3,715,844, 2-13-73, Cl. 52-221.000.

Breads, Peter R., to Great Lakes Orthodontic Laboratory Inc. Method of making a dental appliance. 3,768,164, 10-30-73, Cl. 32-2.000.

Bream, John B.; Picard, Claude Wolfgang; and Read, David Michael, to Wander, A., Dr., Ltd., a/k/a Wander, A., Dr., AG. 2-(2-Imidazolin-2-ylthio)-acetanilides. 3,711,505, 1-16-73, Cl. 260-309.600.

Brean, John W., to Baldwin, D. H., Company. Optical encoder. 3,710,375, 1-9-73, Cl. 340-347.00p.

Brean, John W., to Baldwin, D. H., Company. Day-night mirror for vehicles. 3,722,984, 3-27-73, Cl. 350-280.000.

Brean, John W.; and Mathevosian, Ervand, to Baldwin, D. H., Company. Impulse-operated, day-night, rear view mirror. 3,746,430, 7-17-73, Cl. 350-281.000.

Breant, Pierre Louis Vincent; David, Guy Albert Jules; Pares, Francois; and Grima, Jean-Claude, to U.S. Philips Corporation. Pseudo-random multiplex synchronizer. 3,740,478, 6-19-73, Cl. 179-15.0bs.

Breas, Cornelia: *See—*
Van Burleigh, Johannes Balfour, 3,720,033.

Breas, Margo Charlotte: *See—*
Van Burleigh, Johannes Balfour, 3,720,033.

Breasbois, Lee H.: *See—*
Robertson, Gordon W.; and Breasbois, Lee H., 3,755,042.

Breathitt, Harvie W., Jr.; Evans, Robert D.; and Houston, Wesley M., to Agrico Chemical Company, mesne. Processing of phosphate rock. 3,732,090, 5-8-73, Cl. 71-37.000.

Breault, Richard David; Marcere, Alluren Leonard; and Jackson, Arthur Everett, to United Aircraft Corporation. Method of fabricating lightweight electrodes. 3,762,957, 10-2-73, Cl. 136-121.000.

Breaux, Onezime P. Stabilized, optimizable, gaseous electrical discharge. 3,719,899, 3-6-73, Cl. 331-94.500.

Breazeale, Jack D.: *See—*
MacLaren, Richard O.; and Breazeale, Jack D., 3,765,174.

Breazeale, Russell E.; and Fikse, Tyman H., to Truckweld Equipment Co. Dump trailer. 3,771,829, 11-13-73, Cl. 298-17.00r.

Brebner, Donald Lee, to Du Pont de Nemours, E. I., and Company. Polyethylene blends of ethylene-methacrylic acid copolymer and polyethylene. 3,709,957, 1-9-73, Cl. 260-897.00b.

Brechbuhler, Hans Ulrich; and Gubler, Kurt, to Geigy Chemical Corporation. 1-Piperidino-1-cyano-O-carbamoyl-formoximes. 3,725,418, 4-3-73, Cl. 260-293.860.

Brecher, Charles, to GTE Laboratories, Incorporated. Flash lamp. 3,765,821, 10-16-73, Cl. 431-93.000.

Brecher, Lee E.; and Stickler, Roland, to Westinghouse Electric Corporation. Method of producing doped tungsten powders by chemical deposition. 3,773,493, 11-20-73, Cl. 75-.5bb.

Breck, Donald W. Process for removal of ammonia from waste water streams. 3,723,308, 3-27-73, Cl. 210-38.000.

Breck, Louis William Jr.: *See—*
Champney, Rodney W.; Mc Keen, Leighton R.; and Breck, Louis William Jr., 3,763,802.

Breck, Louis William, Jr., to Farah Manufacturing Company, Inc. Apparatus for forming belt loop blanks from a ribbon tube or string containing thermoplastic material. 3,770,548, 11-6-73, Cl. 156-353.000.

Breckenfelder, Ernst G., to UIP Enginecred Products Corporation. Automatic nailing apparatus. 3,735,909, 5-29-73, Cl. 227-86.000.

Breckenridge, Robert Warren, Jr., to Little, Arthur D., Inc. Thermally isolating structural support system and cryogenic assembly embodying the same. 3,768,765, 10-30-73, Cl. 248-146.000.

Brecker, Lawrence, to Argus Chemical Corporation. Organotin thiocarboxylates and preparation thereof. 3,775,451, 11-27-73, Cl. 260-429.700.

Brecker, Lawrence R.; and Kauder, Otto S., to Argus Chemical Corporation. Reaction products of dioctyltin oxide and dioctyltin monohydric aliphatic saturated alcohol thioglycolate esters and process. 3,716,568, 2-13-73, Cl. 260-429.700.

Breckman, Jack, to RCA Corporation. Discriminating signaling system. 3,755,811, 8-28-73, Cl. 343-6.50r.

Brecy, Jean, to Framatone. Installation for measuring and controlling a nuclear reactor. 3,769,156, 10-30-73, Cl. 176-19.000.

Bredbenner, Charles W.: *See—*
Winkler, Joseph; Bredbenner, Charles W.; and Adlum, Lawrence G., 3,748,288.

Bredberg, Stig G. D., to AB Bygg-Och Transportekonomi (BT). Safety system for a lift truck. 3,774,726, 11-27-73, Cl. 187-9.000.

Bredbury, David O. Rectilinear magazine. 3,726,038, 4-10-73, Cl. 42-50.000.

Brede, Dwight; Cook, Miles H.; Freeman, Marshall E.; and Turk, Harold L., to International Business Machines Corporation. Method of making magnetic head assembly. 3,744,127, 7-10-73, Cl. 29-603.000.

Brede, Raymond; and Stenresen, Erik, to Simrad A.S. Echo sounding apparatus with automatically regulated receiver gain. 3,742,438, 6-26-73, Cl. 340-3.00r.

Brede, Uwe: *See—*
Bendler, Hellmut; Brede, Uwe; Gawlick, Heinz; and Roh, Peter, 3,763,782.
Gawlick, Heinz; Bendler, Hellmut; Brede, Uwe; Hubsch, Gunter; and Gottwald, Gunther, 3,742,163.
Rudolph, Hans-Heinrich; Brede, Uwe; and Bendler, Hellmut, 3,744,416.

Bredemeier, Herbert C., to American Optical Corporation. Laser system for microsurgery. 3,710,798, 1-16-73, Cl. 128-303.100.

Bredeson, Dean K.; and Slaby, Robert Kent, to French Oil Mill Machinery Company, The. Apparatus for treating elastomeric materials. 3,728,055, 4-17-73, Cl. 425-84.000.

Bredeweg, Corwin J.: *See—*
Hickner, Richard A.; and Bredeweg, Corwin J., 3,708,543.
Hickner, Richard A.; and Bredeweg, Corwin J., 3,743,679.

Bredice, Emilio A. Soap insert. 3,773,672, 11-20-73, Cl. 252-92.000.

Bredimus, Robert L.: *See—*
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Bredoux, Francois Jean-Marie; Mercier, Claude Andre; and Phlipot, Georges Achille, to Eastman Kodak Company. Neutron detector of the track-damage type. 3,735,135, 5-22-73, Cl. 250-83.100.

Bredt, James H.; and Kendall, Louis F., Jr., to General Electric Company. Doped tin telluride brazing material for semiconductive thermoelectric generator elements. 3,715,241, 2-6-73, Cl. 136-237.000.

Breed, David S. Liquid annular orifice dashpot timer with inertial effects. 3,750,389, 8-7-73, Cl. 58-144.000.

Breed, David S. Sharp edge orifice dashpot timer. 3,777,861, 12-11-73, Cl. 188-317.000.

Breed, Laurence W.: *See—*
United States of America, National Aeronautics and Space Administration, 3,752,847.

Breeden, Kenneth H.: *See—*
Cribbs, John A.; Abeling, Arthur B.; and Breeden, Kenneth H., 3,714,632.

Breeden, Robert H., to Sperry Rand Corporation. Power transmission. 3,758,235, 9-11-73, Cl. 417-222.000.





Breeden, Robert Louis, to Bell Telephone Laboratories, Incorporated. Loudspeaking telephone. 3,751,602, 8-7-73, Cl. 179-81.00b.

Breeden, William J.: *See—*
Pearce, Godfrey R.; and Breeden, William J., 3,766,442.

Breeding, Terry G.: *See—*
Hoyt, Michael T.; Junker, Bernhard T.; Hedrick, Ross M.; and Breeding, Terry G., 3,740,177.
Junker, Bernhard T.; Breeding, Terry G.; Hoyt, Michael T.; and Hedrick, Ross M., 3,708,566.

Breen, William J. One-way diaphragm seal for drains. 3,707,986, 1-2-73, Cl. 137-525.100.

Breene, James D.: *See—*
Barnum, Phillip R., 3,719,782.

Breer, Karl: *See—*
Boden, Heinrich; Breer, Karl; Klessmann, Gunther; and Knipp, Ulrich, 3,709,640.

Breer, Karl; and Schulte, Klaus, to Bayer Aktiengesellschaft. Production of foams and homogeneous materials and apparatus therefor. 3,771,963, 11-13-73, Cl. 23-252.00r.

Breetvelt, Emile, to Intermenua (Proprietary) Limited. Relating to clamping means. 3,727,500, 4-17-73, Cl. 83-375.000.

Breetvelt, Emile, to Intermenua (Proprietary) Limited. Guillotines and like shearing machines. 3,757,621, 9-11-73, Cl. 83-157.000.

Breeze Corporation, Inc.: *See—*
McKown, Howard P., Jr., 3,769,665.

Bregeault, Marc, to Thomson-CSF. D.C. motor with series connected windings. 3,719,870, 3-6-73, Cl. 318-138.000.

Bregeault, Marc, to Thomson-CSF. Brushless D.C. motor. 3,720,865, 3-13-73, Cl. 318-138.000.

Bregenzer, O., & Co.: *See—*
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Bregenzer, Otto, to Bregenzer, O., & Co. Cable receiving floor conduit. 3,724,148, 4-3-73, Cl. 52-221.000.

Bregenzer, Otto. Ground conduit construction. 3,769,445, 10-30-73, Cl. 174-101.000.

Bregi, Benjamin F.; Motz, Carl H.; and Bassoff, Arthur B., to Lear Siegler, Inc. Gear rolling machine. 3,740,987, 6-26-73, Cl. 72-94.000.

Breglia, Denis R.; Rodemann, Alfred H.; and Mohon, Windell N., to United States of America, Navy. Laser machine gun simulator. 3,748,751, 7-31-73, Cl. 35-25.000.

Bregman, Bernard J.: *See—*
United States of America, National Aeronautics and Space Administration, 3,737,639.

Brehler, Johannes, to Sulzer Brothers Limited. Method of regulating the temperature of superheated steam in a steam generator. 3,769,942, 11-6-73, Cl. 122-779.00s.

Brehm, Hans: *See—*
Heling, Wilhelm; and Brehm, Hans, 3,720,578.

Brehm, Ronald Carl, to AMP Incorporated. Apparatus for trimming and inserting wires. 3,742,571, 7-3-73, Cl. 29-203.00h.

Brehm, Ronald Carl; Long, Robert Alvin; and Over, William Roderick, to AMP Incorporated. Automatic apparatus for attaching wires to terminals. 3,766,622, 10-23-73, Cl. 29-203.0mw.

Breidbach, Gunter: *See—*
Neufang, Karl; Kuth, Robert; Neef, Rutger; and Breidbach, Gunter, 3,740,185.

Breidert, George M.: *See—*
Breidert, George M.; and MacCorkell, Albert W. (said MacCorkell assor. to said), 3,709,016.

Breidert, George M.; and MacCorkell, Albert W., said MacCorkell assor. to said Breidert, George M. Sheet metal forming machine. 3,709,016, 1-9-73, Cl. 72-123.000.

Breier, Morton A.: *See—*
Black, Howard; and Breier, Morton A., 3,710,917.

Breikorn, Barry A., to Lilly, Eli, and Company. Certain tetrazolo-(1,5-a) quinoline compounds as fungus control agents. 3,764,681, 10-9-73, Cl. 424-258.000.

Breikss, Ivars P., to Honeywell Inc. High density digital recording. 3,736,581, 5-29-73, Cl. 340-174.10a.

Breiling, Edward H.: *See—*
Archer, Fred Curtis; DeDiemar, Ronald B.; and Breiling, Edward H., 3,774,858.

Breiling, Hans Georg. Vaporizer ventilating line. 3,756,577, 9-4-73, Cl. 261-63.000.

Breillatt, Julian P., Jr., to United States of America, Atomic Energy Commission. Fibrous fibrin sheet and method for producing same. 3,723,244, 3-27-73, Cl. 162-151.000.

Breimayer, Joseph F., to Eastman Kodak Company. Print inspection and reprint apparatus. 3,733,018, 5-15-73, Cl. 226-2.000.

Breimer, Hendrik; and Tan, Sing Liong, to U.S. Philips Corporation. Color television system having aperture correction. 3,732,360, 5-8-73, Cl. 178-5.40r.

Breiner, Richard C., to Nicolet Industries, Inc. Asbestos-plastic film laminates. 3,770,569, 11-6-73, Cl. 161-205.000.

Breinin, Irwin A.: *See—*
Palmer, Donald J.; Palmer, Mark L.; and Breinin, Irwin A., 3,735,988.

Breinlinger, Richard H.: *See—*
Villalobos, Luis F.; Harano, Allen A.; and Breinlinger, Richard H., 3,721,810.

Breitbach, Johnnie J. Apparatus for transferring trays between a conveyor system and a stack. 3,770,143, 11-6-73, Cl. 214-6.0ds.

Breitenbach, Lawrence P.; and Shelef, Mordecai, to Ford Motor Company. Quantitative measurement of selected nitrogen compounds in gaseous mixtures. 3,730,686, 5-1-73, Cl. 23-232.00r.

Breitenbach, Otto, to Linde Aktiengesellschaft. Apparatus for controlling low temperature installations. 3,751,938, 8-14-73, Cl. 62-126.000.

Breitenbach, Richard C.; Edstrom, Gene H.; and Keffeler, James R., to International Business Machines Corporation. Peripheral device analysis. 3,711,691, 1-16-73, Cl. 235-153.00a.

Breitenstein, Charles T.: *See—*
Umbdenstock, Walter; and Breitenstein, Charles T., 3,736,113.

Breitfuss, Thomas K.; Wallace, Floyd L.; and Zicaro, Joseph P., to Hydro Conduit Corporation. Method of making wrapped tubular concrete. 3,724,768, 4-3-73, Cl. 242-7.020.

Breitling, Julius; and Pollack, Bernard, to Sight & Sound Wedding Albums, Ltd. Talking photograph album. 3,741,565, 6-26-73, Cl. 274-4.00c.

Breitmeier, Max. Method and means for continuous distribution of electrical energy. 3,708,684, 1-2-73, Cl. 307-35.000.

Breitschaft, Siegfried, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the dyeing of polyethylene terephthalate granules. 3,756,981, 9-4-73, Cl. 260-40.00r.

Breitschwdt, Werner; Gmeiner, Gunter; Grabner, Christian; and Sigmund, Gerhard, to Daimler-Benz Aktiengesellschaft. Door lock, especially for motor vehicles. 3,719,248, 3-6-73, Cl. 180-112.000.

Breitschwerdt, Werner; Gmeiner, Gunter; and Stolz, Albert, to Daimler-Benz Aktiengesellschaft. Installation for controlling the temperature of vehicle interior spaces. 3,719,135, 3-6-73, Cl. 98-2.070.

Breitschwerdt, Werner; Gmeiner, Gunter; and Grabner, Christian, to Daimler-Benz Aktiengesellschaft. Adjusting arrangement for a seat. 3,743,229, 7-3-73, Cl. 248-394.000.

Breitschwerdt, Werner, to Daimler-Benz Aktiengesellschaft. Instrument panel for vehicles. 3,776,359, 12-4-73, Cl. 180-90.000.

Breitschwerut, Werner; Gmeiner, Gunter; Kolle, Erwin; and Bonisch, Herbert, to Daimler-Benz Aktiengesellschaft. Window lifter, especially for curved side windows of motor vehicles. 3,754,353, 8-28-73, Cl. 49-227.000.

Breitweiser, Gary C., to Sloan Technology Corporation. Thermally shrinkable devices. 3,717,746, 2-20-73, Cl. 219-200.000.

Breitzmann, John F.; and Lackey, Robert P., to Texas Instruments, Incorporated. Variable frequency oscillator. 3,742,384, 6-26-73, Cl. 331-111.000.

Brelot, Rene; and Tourret, Jean, to Compagnie des Compteurs. Optical distance converter. 3,778,157, 12-11-73, Cl. 356-4.000.

Brembs, Peter, to Licentia Patent-Verwaltungs-G.m.b.H. Stepping motor with compensated angular error. 3,748,566, 7-24-73, Cl. 318-685.000.

Bremer, Gordon F.: *See—*
Acker, William F.; and Bremer, Gordon F., 3,736,528.

Bremer, Gordon F., to Honeywell Information Systems, Inc. Voltage controllable crystal digital clock. 3,761,840, 9-25-73, Cl. 331-116.00r.

Bremer, James F.: *See—*
Schaible, Aaron M.; Braun, Bernard G.; Bennett, Wilbur G.; and Brown, Richard L., 3,707,990.
Schaible, Aaron M.; and Davidson, Harry W., 3,711,223.

Bremer, Norman C., 1/2 to Wallace, Maury. Fast-response two-phase thermometer. 3,726,141, 4-10-73, Cl. 73-368.300.

Bremer, Norman C. Chemical thermometer and holder. 3,733,905, 5-22-73, Cl. 73-356.000.

Bremer, Norman C. Bifurcated thermometer probe. 3,750,471, 8-7-73, Cl. 73-342.000.

Bremer, Sherman L., to Bremertron XL Corporation. Adjustable extrusion head. 3,752,614, 8-14-73, Cl. 425-113.000.

Bremertron XL Corporation: *See—*
Bremer, Sherman L., 3,752,614.

Bremmer, Bart J.; and Meyer, Fred J. Higher alkyl derivatives of 2-hydroxypro-pylisothiouronium salts and their use in sizing paper. 3,770,576, 11-6-73, Cl. 162-158.000.

Bremner, David F., to National Cash Register Company, The. Differentially positionable type wheels in remotely controlled print modules. 3,732,812, 5-15-73, Cl. 101-99.000.

Brems, John H. Accumulating conveyor. 3,747,741, 7-24-73, Cl. 198-219.000.

Brems, John Henry. Rotary indexing mechanism. 3,730,014, 5-1-73, Cl. 74-394.000.

Brems, John Henry. Electrode rod holder for resistance welding actuators. 3,731,046, 5-1-73, Cl. 219-78.000.

Brems, John Henry. Reciprocating drive mechanism. 3,745,838, 7-17-73, Cl. 74-27.000.

Brems, John Henry. Force transferring and multiplying system. 3,745,842, 7-17-73, Cl. 74-110.000.

Brems, John Henry. Motion and force transforming mechanism. 3,777,580, 12-11-73, Cl. 74-110.000.

Bremseth, Gerald B. Loudspeaker voice coils. 3,711,659, 1-16-73, Cl. 179r115.5vc.
Brendel, Gottfried J.; and Shepherd, Lawrence H., Jr., to Ethyl Corporation. Tetrahydropyran derivative. 3,751,432, 8-7-73, Cl. 260-315.100.
Brendel, Gottfried J.; and Shepherd, Lawrence H., Jr., to Ethyl Corporation. Novel chemical compositions and their preparation and uses. 3,761,528, 9-25-73, Cl. 260-633.000.
Brenden, Byron B., to Holotron Corporation. Ultrasonic imaging techniques and mammograph equipment. 3,765,403, 10-16-73, Cl. 128-24.000.
Brenden, Donald Wilford. Adapter apparatus for a portable sewage disposal system. 3,760,430, 9-25-73, Cl. 4-114.000.
Brendgord, Thomas; Strasser, Klaus G.; and Wehrenberg, Jon W., to American Sterilizer Company. Scrub sink. 3,728,745, 4-24-73, Cl. 4-166.000.
Brendgord, Thomas, to American Sterilizer Company. Environmental suit. 3,744,055, 7-10-73, Cl. 2-2.000.
Brendley, William H., Jr., to Rohm & Haas Company. Interpolymers of sulfoalkylene acrylates. 3,711,449, 1-16-73, Cl. 260-79.3mu.
Brendzel, Henry T., to Bell Telephone Laboratories, Incorporated. Ripple-through counters having minimum output propagation delay times. 3,745,315, 7-10-73, Cl. 235-92.0lg.
Brenez, Jean Charles Yves. Spraying devices. 3,768,733, 10-30-73, Cl. 239-331.000.
Brengman, Fred C.; Brengman, Keith; and Anderson, James L., to Societe d'Assistance Technique pour Produits Nestle S.A. Comminuting method and apparatus. 3,726,208, 4-10-73, Cl. 99-233.110.
Brengman, Keith: *See*—
Brengman, Fred C.; Brengman, Keith; and Anderson, James L., 3,726,208.
Brenholdt, Irving R., to Farrand Optical Co., Inc. Measuring apparatus. 3,741,654, 6-26-73, Cl. 356-4.000.
Brenna, Gerald L.: *See*—
Armstrong, Robert K.; Brenna, Gerald L.; and Sullivan, Robert H., 3,748,351.
Brennan, Edward J.: *See*—
Weik, Kirby B.; and Brennan, Edward J., 3,761,124.
Brennan, Edward J., to Universal Oil Products Company. Compact tray table. 3,773,381, 11-20-73, Cl. 297-191.000.
Brennan, Francis P. Expendable pallet device. 3,724,398, 4-3-73, Cl. 108-51.000.
Brennan, Francis P. Box and corner clamp retaining box to form. 3,760,465, 9-25-73, Cl. 24-81.0bf.
Brennan, Francis P. Hanger bar for shipping garments and the like. 3,773,184, 11-20-73, Cl. 211-123.000.
Brennan, Harry M.: *See*—
Gutberlet, Louis C.; Bertolacini, Ralph J.; and Brennan, Harry M., 3,729,521.
Brennan, James A., to Mobil Oil Corporation. Recyclable liquid aluminum chloride and bromide complexes. 3,725,498, 4-3-73, Cl. 260-683.15b.
Brehnan, James A., to Mobil Oil Corporation. Dimerization of olefins with boron trifluoride. 3,742,082, 6-26-73, Cl. 260-683.900.
Brennan, James A.; Garwood, William E.; and Myers, Harold C., to Mobil Oil Corporation. Catalytic process for upgrading cracked gasolines. 3,759,821, 9-18-73, Cl. 208-93.000.
Brennan, James A., to Mobil Oil Corporation. Oligomerization of olefins with boron trifluoride. 3,769,363, 10-30-73, Cl. 260-683.15b.
Brennan, James J., Jr.: *See*—
Gridley, Porter F.; Brennan, James J., Jr.; Williams, Frank R.; and Hagopian, Erivan, 3,769,257.
Brennan, James, Jr.; Pope, Hermon L., Jr.; and Boren, Donald F., to Texas Instruments, Incorporated. Electronic printing input-output station. 3,710,913, 1-16-73, Cl. 197-82.000.
Brennan, John F., to Universal Oil Products Company. Preparation of ketones. 3,723,535, 3-27-73, Cl. 260-593.00r.
Brennan, John F.; and Lester, George R., to Universal Oil Products Company. Oligomerization of mono-olefins. 3,773,853, 11-20-73, Cl. 260-683.15r.
Brennan, John W.: *See*—
Lutts, Carlton G.; and Brennan, John W., 3,756,587.
Brennan, Lawrence E.; and Reed, Irving S., to Technology Service Corporation. Convergence rate improvement for adaptive receiving array antennas of higher order than 2-pulse MTI cancellers. 3,725,922, 4-3-73, Cl. 343-7.00a.
Brennan, Lawrence E.; and Reed, Irving S., to Technology Service Corporation. Adaptive receiving array method and apparatus for MTI radar. 3,727,220, 4-10-73, Cl. 343-7.00a.
Brenhan, Robert P.: *See*—
DeViney, Terrence E.; and Brennan, Robert P., 3,755,712.
Brennan, Timothy A.; and Green, Elmer R., to Hospital Service Technology Corporation. Closure for containers. 3,709,395, 1-9-73, Cl. 215-38.00r.
Brennan, William B. Paint accomodating modules adapted for use with spray guns. 3,780,950, 12-25-73, Cl. 239-306.000.
Brenneisen, Erich; Lindner, Helmut; and Schmidt, Heinz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Water-insoluble phenyl-azo-phenyl. 3,717,626, 2-20-73, Cl. 260-207.100.
Brenneisen, Manfred, to Schwanog, Schwarzwalder Normteile Siegfried Guntert KG. Measuring device. 3,726,018, 4-10-73, Cl. 33-147.00j.
Brenneisen, Manfred; and Guentert, Siegfried, to Schwanog, Schwarzwalder Normteile Siegfried Guntert KG. Apparatus for cleaning metallic articles. 3,750,685, 8-7-73, Cl. 134-57.00r.
Brenneisen, Paul: *See*—
Spaun, Ruediger; Rochat, Alain Claude; Gallay, Jean-Jacques; and Brenneisen, Paul, 3,781,290.
Brenneisen, Paul; Callay, Jean-Jacques; and Margot, Alfred, to Ciba-Geigy Corporation. Isothiocyano-diphenylamines. 3,755,406, 8-28-73, Cl. 260-454.000.
Brenneke, Arthur M., to TRW Inc. Circumferentially expansible oil ring. 3,722,897, 3-27-73, Cl. 277-154.000.
Brenneman, J. Edward; and Enders, Ray H., to Schick, Incorporated. Electric light system for a motor-driven appliance. 3,770,950, 11-6-73, Cl. 240-2.0bb.
Brenneman, John H. Spline and seat connector assemblies. 3,760,547, 9-25-73, Cl. 52-586.000.
Brenneman, Richard Lee: *See*—
Zimmerman, Richard Henry; and Brenneman, Richard Lee, 3,753,874.
Brenneman, Richard Lee; and Zimmerman, Richard Henry. Electrical contact surface using an ink containing a plating catalyst. 3,745,045, 7-10-73, Cl. 117-212.000.
Brennen, Michael B.; and Watson, Guido, to Westinghouse Electric Corporation. Electrical apparatus including a ground fault sensor. 3,721,862, 3-20-73, Cl. 317-18.00d.
Brenner & Bender Inc.: *See*—
Bender, Louis, 3,730,388.
Brenner, Charles H.; and Kassik, Ronald W., to Motorola, Inc. Intrusion detection false alarm reduction system. 3,723,738, 3-27-73, Cl. 250-83.30h.
Brenner, Charles Herbert, to Motorola, Inc. Optical target sensor. 3,741,111, 6-26-73, Cl. 102-70.20p.
Brenner, David C.: *See*—
Lloyd, Neil E.; Owen, Archibald A.; and Brenner, David C., 3,750,242.
Brenner, E. Martin; and Loev, Bernard, to Smith Kline & French Laboratories. 2-Amino(and 2-aminomethyl)-2-heterocyclicthioacetamides. 3,740,409, 6-19-73, Cl. 260-294.80e.
Brenner, J. Fred. Wall stud system. 3,736,714, 6-5-73, Cl. 52-300.000.
Brenner, Lawrence M. Air driven abrading device. 3,722,147, 3-27-73, Cl. 51-170.00t.
Brenner, Mannie: *See*—
Leydon, Arthur J.; Brenner, Mannie; and Chase, Fred L., 3,708,331.
Brenner, Mannie; Chase, Fred L.; and Leydon, Arthur J. Gasket-forming compositions. 3,751,525, 8-7-73, Cl. 260-880.00b.
Brenner, Richard L., to Dow Chemical Company, The. Explosive composition containing a vinylidene chloride polymeric latex. 3,741,831, 6-26-73, Cl. 149-41.000.
Brenner, Robert A.; and Cuthbert, Victor W., to Whirlpool Corporation. Rotating silverware basket for dishwasher. 3,779,258, 12-18-73, Cl. 134-138.000.
Brenner, Siegfried; and Muz, Erwin. Machine for the application of liquid coatings to workpieces. 3,766,885, 10-23-73, Cl. 118-313.000.
Brent, Burton David. Magnetic medical tool holder stand. 3,774,773, 11-27-73, Cl. 211-60.00t.
Brent, Burton David. Safety guard for dermatome instrument. 3,776,236, 12-4-73, Cl. 128-305.000.
Brent, Burton David. Portable stand with magnetic bar surgical instrument holder for use on an operating cart or table. 3,776,387, 12-4-73, Cl. 211-60.00t.
Brent, George. Motor fuel composition. 3,765,848, 10-16-73, Cl. 44-51.000.
Brent, W. D., Manufacturing Ltd.: *See*—
Brent, William Donald, 3,727,581.
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Brenter, Erich. Snow runner. 3,729,208, 4-24-73, Cl. 280-16.000.
Brentford Electric Limited: *See*—
Spooner, Frederick Ernest, 3,761,797.
Brereton, Raymond; and Lythe, Trevor Wilkinson, to Steetley (Mfg.) Ltd. Furnace roof construction. 3,756,172, 9-4-73, Cl. 110-99.000.
Breschinsky, Rene. Setting of wall anchors and analogous objects. 3,771,709, 11-13-73, Cl. 227-120.000.
Brescia, Riccardo; and Montanari, Lucio, to Olivetti, Ing., C., & C., S.p.A. Thermographic printing arrangement. 3,777,116, 12-4-73, Cl. 219-216.000.
Breslin, Patrick W., to Custom Speed Marine, Inc. Water jet boat thrust trimmer. 3,756,185, 9-4-73, Cl. 115-12.00r.



Breslow, Bertram A.: *See*—
Kruse, Howard W.; Breslow, Bertram A.; and Szypulski, Raymond W., 3,726,728.
Breslow, David S., to Hercules Incorporated. Modification of ethylenically unsaturated polymers with polyfunctional quaternary amidoximidinium salts. 3,717,560, 2-20-73, Cl. 204-159.180.
Breslow, David S., to Hercules Incorporated. Polymers modified with sulfonazide-isocyanate compounds. 3,759,878, 9-18-73, Cl. 260-78.40e.
Breslow, David S., to Hercules Incorporated. Azides. 3,766,216, 10-16-73, Cl. 260-349.000.
Breslow, Donald H.; and Wingate, Sidney A., to Itek Corporation. Encoder with a redundant optical system. 3,725,904, 4-3-73, Cl. 340-347.00p.
Breslow, Jeffrey D.: *See*—
Glass, Marvin I.; and Breslow, Jeffrey D., 3,724,848.
Glass, Marvin I.; and Breslow, Jeffrey D., 3,774,912.
Glass, Marvin I.; and Breslow, Jeffrey D., 3,776,548.
Breslow, Jeffrey D.; Meyer, Burton C.; and Glass, Marvin I., to Glass, Marvin, & Associates. Board game apparatus. 3,711,101, 1-16-73, Cl. 273-131.0ad.
Breslow, Jeffrey D.; and Jaworski, Eugene, to Glass, Marvin, & Associates. Target receptacles having mechanism to dislodge projectiles tossed therein. 3,731,932, 5-8-73, Cl. 273-102.10c.
Breslow, Jeffrey D., to Glass, Marvin, & Associates. Target and adjustable trajectory disc launcher. 3,734,503, 5-22-73, Cl. 273-101.000.
Breslow, Jeffrey D., to Glass, Marvin, & Associates. Simultaneous launching game. 3,734,504, 5-22-73, Cl. 273-126.00r.
Breslow, Jeffrey D., to Glass, Marvin, & Associates. Matching answer game. 3,734,510, 5-22-73, Cl. 273-152.00r.
Breslow, Jeffrey D.; and Jaworski, Eugene, to Glass, Marvin, & Associates. Round-about game apparatus. 3,754,759, 8-28-73, Cl. 273-1.00r.
Breslow, Jeffrey D., to Glass, Marvin, & Associates. Board game apparatus. 3,754,763, 8-28-73, Cl. 273-134.00b.
Breslow, Jeffrey D.; and Glass, Marvin I., to Glass, Marvin, & Associates. Doll with movable part for coaction with movable part of accessory. 3,757,463, 9-11-73, Cl. 46-118.000.
Breslow, Jeffrey D.; and Jaworski, Eugene, to Glass, Marvin, & Associates. Smoking apparatus. 3,757,801, 9-11-73, Cl. 131-171.00r.
Breslow, Jeffrey D.; Glass, Marvin I.; and Burck, Joseph M., to Glass, Marvin, & Associates. Board game apparatus. 3,759,521, 9-18-73, Cl. 273-134.00b.
Breslow, Jeffrey D.; and Jaworski, Eugene, to Glass, Marvin, & Associates. Game apparatus. 3,764,136, 10-9-73, Cl. 273-38.000.
Breslow, Jeffrey D., to Glass, Marvin, & Associates. Game using answer cubes and receptacle therefor. 3,767,197, 10-23-73, Cl. 273-1.00r.
Breslow, Jeffrey D., to Glass, Marvin, & Associates. Pendulum-type bagatelle game. 3,770,276, 11-6-73, Cl. 273-119.00r.
Bresnick, Herbert, to Xerox Corporation. Ion lens recording system. 3,765,027, 10-9-73, Cl. 346-74.0es.
Bresnick, Herbert L., to Xerox Corporation. Fur brush eraser. 3,738,745, 6-12-73, Cl. 355-17.000.
Bress, Dellason F., to Foster Wheeler Corporation. Control of environmental pollution in tall oil fractionation. 3,709,793, 1-9-73, Cl. 203-4.000.
Bressanelli, Jerome P., to Crucible, Inc. Stainless steel tubing with a maximum titanium to carbon ratio of 6. 3,770,394, 11-6-73, Cl. 29-193.000.
Bresser, Robert E.: *See*—
Hechenbleikner, Ingenuin A.; Hussar, John F.; Koeniger, Arthur F.; and Bresser, Robert E., 3,763,220.
Hechenbleikner, Ingenuin A.; Hussar, John F.; Koeniger, Arthur F.; and Bresser, Robert E., 3,763,221.
Bressickello, Tony J.: *See*—
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Bressington, Edwin Thomas: *See*—
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Bressler, Leo F.; and Steinbrink, Charles F., Jr., to Sigma International, Ltd. Stabilized phenol nitroprusside reagent and analysis of nitrogen. 3,769,172, 10-30-73, Cl. 195-103.50r.
Bressler, Magdalena Adriana: *See*—
Mangiere, Richard John; Dwyer, Charles James; and Bressler, Magdalena Adriana, 3,769,027.
Bressler, Marcus N.; and Sebelish, Norman C., to Gulf & Western Industries, Inc. Quick-opening manway closure. 3,721,363, 3-20-73, Cl. 220-32.000.
Bressler, Wilbur Lee: *See*—
Hairston, Thomas Joseph; and Bressler, Wilbur Lee, 3,767,618.
Bresson, Richard J., to Eastman Kodak Company. Camera apparatus adapted for operation with auxiliary light source. 3,714,871, 2-6-73, Cl. 95-10.00c.
Breston, Michael P.: *See*—
Mott, James D., 3,746,097.
Breston, Michael P. Apparatus for drying pipelines. 3,708,819, 1-9-73, Cl. 15-104.06r.
Brethour, John R. Method of fattening beef cattle. 3,737,535, 6-5-73, Cl. 424-243.000.
Breton, Alain: *See*—
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Breton, Alain; Tricot, Marc; and Rajon, Andre, to Societe Rhodiaceta and CTA-Compagnie Industrielle de Textiles Artificiels et Synthetiques. Process for producing acetylated regenerated cellulose articles. 3,720,661, 3-13-73, Cl. 260-227.000.
Breton, Ernest J.; Wolf, Jack D.; Worden, Dexter; and Bailey, John T., to Composite Sciences Inc. Coating metallic substrate with powdered filler and molten metal. 3,743,556, 7-3-73, Cl. 156-62.800.
Breton, Ernest J.; and Worden, Dexter, to Composite Sciences, Inc. Process for coating metals using resistance heating of preformed layer. 3,778,586, 12-11-73, Cl. 219-146.000.
Bretschneider, Erich, to Siemag Siegener Maschinenbau G.m.b.H. Rolling mill. 3,735,617, 5-29-73, Cl. 72-78.000.
Bretschneider, Hermann: *See*—
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Kaiser, Ado; Bretschneider, Hermann; and Hohenlohe-Oehringen, Kraft, 3,763,218.
Bretschneider, Hermann; Kaiser, Ado; and Hohenlohe-Oehringen, Kraft, to Hoffmann-La Roche Inc. Amino acid derivatives. 3,725,470, 4-3-73, Cl. 260-519.000.
Bretschneider, Hermann; Grassmayr, Klaus; Hohenlohe-Oehringen, Kraft; and Grussner, Andre, to Hoffmann-La Roche Inc. N-(Sulfonylcarbamoyl)-bornano-[3',2':4,5]-oxazolidin-3-ones. 3,770,761, 11-6-73, Cl. 260-307.00c.
Bretschneider, Hermann; Klotzer, Wilhelm; and Franzmair, Rudolf, to Hoffmann-La Roche Inc. 1-Cyano-2-imino-3,3-diphenylpyrrolidines. 3,772,413, 11-13-73, Cl. 260-326.620.
Bretschneider, Hermann, to Hoffmann-La Roche Inc. Bicyclic compounds. 3,780,101, 12-18-73, Cl. 260-553.00d.
Bretschneider, Otto: *See*—
Landt, Uwe; Slifert, Helmut; and Bretschneider, Otto, 3,768,790.
Brett, John J.: *See*—
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Brett, Oliver C., Jr.: *See*—
Gray, Richard W.; Rumball, Paul G.; and Brett, Oliver C., Jr., 3,738,645.
Brette, Yves-Jean Francois, to Societe Industrielle Honeywell Bull (Societe Anonyme). Apparatus for controlling the displacement of an object between any two points. 3,729,668, 4-24-73, Cl. 318-561.000.
Brettenbach, Otto, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. High frequency cable. 3,735,293, 5-22-73, Cl. 333-84.00r.
Bretthauer, Frank N. Adjustable jig for portable electric saws. 3,741,063, 6-26-73, Cl. 83-745.000.
Bretthauer, Jurgen: *See*—
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Bretthauer, Klaus: *See*—
Bauer-Steinke, Ursula; Maier, Bruno; and Bretthauer, Klaus, 3,753,880.
Bretti, Franco; and Nuccio, Giuseppe, to Olivetti, Ing., C., & C., S.p.A. High speed serial printing device for typewriters, teleprinters, calculating machines, accounting machines and the like. 3,710,912, 1-16-73, Cl. 197-49.000.
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Bretz, Robert E. Combination manure loader and spreader. 3,738,579, 6-12-73, Cl. 239-651.000.
Breuer, David R., to TRW Inc. Integratable high speed reversible shift register. 3,715,030, 2-6-73, Cl. 207-221.00r.
Breuer, David R.; and Buie, James L., to TRW Inc. Bi-polar semiconductor device employing cermet for both Schottky barrier and ohmic contact. 3,737,742, 6-5-73, Cl. 317-235.00r.
Breuer, Herman; and Schulze, Ernst, to Squibb, E. R., & Sons, Inc. 2-Phenyl-3-acylbenzothiazolines and their oxides. 3,720,683, 3-13-73, Cl. 260-304.000.
Breuer, Hermann: *See*—
Treuner, Uwe; and Breuer, Hermann, 3,732,237.
Treuner, Uwe; and Breuer, Hermann, 3,767,645.
Treuner, Uwe; and Breuer, Hermann, 3,778,436.
Breuer, Hermann, to Squibb, E. R., & Sons, Inc. Nitrofuryl-oxadiazole amides. 3,720,668, 3-13-73, Cl. 260-240.00a.
Breuer, Hermann, to Squibb, E. R., & Sons, Inc. 7-(3,5,7-Triaza-1-azonia-1-adamantyl)-acetamido) cephalosporanic acid halides and sulfonates. 3,720,669, 3-13-73, Cl. 260-243.00c.
Breuer, Hermann; Schulze, Ernst; and Treuner, Uwe D., to Squibb, E. R., & Sons, Inc. 4-Amino-1H-pyrazolo [3,4-d] pyrimidine derivatives. 3,720,674, 3-13-73, Cl. 260-256.40f.
Breuer, Hermann; and Schulze, Ernst, to Squibb, E. R., & Sons, Inc. 3-Amino-5-benzyl-1,2,4-oxadiazoles. 3,720,685, 3-13-73, Cl. 260-307.00g.
Breuer, Hermann; Treuner, Uwe D.; and Schulze, Ernst, to Squibb, E. R., & Sons, Inc. Pyrazolo[3,4-d]pyrimidine derivatives. 3,732,225, 5-8-73, Cl. 260-256.40f.

Breuer, Hermann, to Squibb, E. R., & Sons, Inc. Alpha-thioureidocephalosporanic acid compounds. 3,741,962, 6-26-73, Cl. 260-243.00c.
Breuer, Hermann; and Schulze, Ernst, to Squibb, E. R., & Sons, Inc. 4-Amino-2-styrylquinazoline compounds. 3,753,981, 8-21-73, Cl. 260-240.00d.
Breuer, Oswald: *See—*
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Hauschopp, Alois; Steinkuhl, Bernd; Breuer, Oswald; and Ostrop, Berthold, 3,768,866.
Breuner, James H.; and Stumpf, Clarence E., Jr. Rotatable reel. 3,778,000, 12-11-73, Cl. 242-77.200.
Breunich, Theodore R.; and Hildenbrandt, August J., Jr., to Universal Oil Products Company. Flow control valve system with rapid closing valve. 3,722,534, 3-27-73, Cl. 137-488.000.
Breunich, Theodore R., to Universal Oil Products Company. Three-way, self-closing valve unit. 3,756,284, 9-4-73, Cl. 137-636.000.
Breuning, Ernst. Method and apparatus for cooling foods contained in portion containers. 3,718,981, 3-6-73, Cl. 34-33.000.
Breunsbach, Maurice C., to Spirolet Corporation. Nozzle. 3,743,187, 7-3-73, Cl. 239-489.000.
Brevetcam, S.A.: *See—*
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Breveteam S.A., mesne: *See—*
Chandler, Edmond A., 3,769,120.
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Brevick, Arnold Aage, to Bunker Ramo Corporation, The. Push-button switch for mounting on printed circuit board. 3,710,060, 1-9-73, Cl. 200-166.0pc.
Brevko, Robert; Bitsura, Michael P.; Mucka, John R.; and Zinski, Peter, to Ruburn Engineering, Inc. Shrink-wrapping apparatus. 3,724,164, 4-3-73, Cl. 53-229.000.
Brevko, Robert; Viviano, Peter; Rudman, Regis M.; and Adams, Lawrence D., to Auburn Engineering, Inc. Shrink-wrapping method and apparatus. 3,739,547, 6-19-73, Cl. 53-182.000.
Brevko, Robert; and Mucka, John R., to Auburn Engineering, Inc. Dry powder and dust feeding apparatus. 3,743,360, 7-3-73, Cl. 302-36.000.
Brew, Jerke R.: *See—*
Ueber, Russell C.; Meurs, Peter Van; and Brew, Jerke R., 3,759,328.
Brewer, Allen; and Joy, Michael, to Canadian Patents and Development Limited. Light collector for gamma ray cameras. 3,717,402, 2-20-73, Cl. 350-286.000.
Brewer, Donald R.; and Schipper, Richard A., to Tele Cash, Inc. Pre-set electronic cash register. 3,710,085, 1-9-73, Cl. 235-164.000.
Brewer, Harry L., Jr. Disposable shipping container for concrete samples. 3,770,117, 11-6-73, Cl. 206-46.0fc.
Brewer, Howard E.; and McCorkindale, Kim E., to California Computer Products, Inc. Error correction for incremental plotter. 3,757,188, 9-4-73, Cl. 318-632.000.
Brewer, Howell K. Quick change pneumatic tire. 3,741,268, 6-26-73, Cl. 152-175.000.
Brewer, Howell K.; and Peterson, Aivars V. Quick change-replaceable tread pneumatic tire. 3,750,733, 8-7-73, Cl. 152-175.000.
Brewer, Jack J., to Wallace, Sam P., Co., Inc. Building crane. 3,777,900, 12-11-73, Cl. 212-58.00r.
Brewer, John C., to Garbalizer Corporation of America. Cutter and shearing mechanism. 3,708,127, 1-2-73, Cl. 241-32.000.
Brewer, John C., to Garbalizer Corporation of America. Production of carbon from waste materials. 3,725,538, 4-3-73, Cl. 423-449.000.
Brewer, John C., to Garbalizer Corporation of America. Shearing mechanism. 3,762,655, 10-2-73, Cl. 241-32.000.
Brewer, Joseph A. Surveillance and crime-deterrent system. 3,757,039, 9-4-73, Cl. 178-6.800.
Brewer, Lani W.: *See—*
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Brewer, Lee M., to General Motors Corporation. High pressure steering system. 3,727,404, 4-17-73, Cl. 60-430.000.
Brewer, Richard G.; and Shoemaker, Richard L., to International Business Machines Corporation. Method and apparatus for producing electromagnetic transient coherent effects. 3,766,498, 10-16-73, Cl. 332-7.510.
Brewer, Stanley F.: *See—*
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Brewer, Thomas Howard; and Blundell, Roger William, to Littlejohn, Sidney R., & Co., Ltd. Camera systems. 3,735,686, 5-29-73, Cl. 95-44.00r.
Brewer, Thomas K.; and Crawford, Charles D., to Dow Chemical Company, The. Liquid phase polychlorination of pyridine hydrochlorides. 3,732,230, 5-8-73, Cl. 260-283.00r.
Brewing Patents Limited: *See—*
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Brewster Corporation, The: *See—*
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Brewster, John Holt; and Hoffman, Ted Leroy, to Bell Telephone Laboratories, Incorporated. Error checked incrementing circuit. 3,732,407, 5-8-73, Cl. 235-153.0bb.
Brex Corporation: *See—*
Anderson, Earl R., 3,708,053.
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Brey, Wilhelm, to Intercole Automation, Inc. Tire building apparatus. 3,765,987, 10-16-73, Cl. 156-415.000.
Breyer, Eberhard, to Siemens Aktiengesellschaft. Apparatus for measuring tensile stresses in continuously fed webs of material. 3,779,074, 12-18-73, Cl. 73-144.000.
Breyer, Norman N.; and Mostovoy, Sheldon, to LaSalle Steel Company. Elimination of lead embrittlement in steel. 3,726,669, 4-10-73, Cl. 75-129.000.
Breza, Michael Joseph, to Cities Service Company. Bloom inhibited flame retardant compositions. 3,730,929, 5-1-73, Cl. 260-23.00h.
Brezinski, Jerome P., to Beloit Corporation. Cantilever support structure including a stationary shaft, a hollow roll shell, and a fluid pressure chamber therebetween. 3,749,054, 7-31-73, Cl. 118-126.000.
BRI Corporation, mesne: *See—*
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Brian, Joseph M. Pressure sensing device testing means. 3,713,325, 1-30-73, Cl. 73-4.00r.
Brian, Michael A., to Udylite Corporation, The. Control system for conveying apparatus. 3,764,990, 10-9-73, Cl. 340-172.500.
Brianza, Carate: *See—*
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Briar, George M., to Thiokol Chemical Corporation. Hydraulically controlled ditching plow having a counterbalancing wheeled trailer. 3,711,970, 1-23-73, Cl. 37-98.000.
Briar, John R.: *See—*
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Briar, John R., to General Motors Corporation. Centrifugally engaged coil clutch with Wright lock. 3,727,738, 4-17-73, Cl. 192-105.0ce.
Briar, John R., to General Motors Corporation. Electromagnetic clutch. 3,752,279, 8-14-73, Cl. 192-84.00c.
Brichant, Francis Jules, to Ferraz, Lucien, et Cie. Fast-acting electrical fuse. 3,713,065, 1-23-73, Cl. 337-166.000.
Brichard, Claude, to Glaverbel S.A. Method and apparatus for controlling gas flows along a drawn ribbon of glass. 3,775,080, 11-27-73, Cl. 65-95.000.
Brichard, Edgard, to Glaverbel S.A. Glass melting furnace flow channel support. 3,749,564, 7-31-73, Cl. 65-184.000.
Brichard, Edgard; Declaye, Joseph; and Autequitte, Jean, to Glaverbel S.A. Refractory furnace tank walls. 3,767,375, 10-23-73, Cl. 65-182.00r.
Brichta, Franz; and Driesel, Franz, to SKF Kugellagerfabriken GmbH. Apparatus for mounting carrier arms in spinning machines. 3,740,798, 6-26-73, Cl. 19-267.000.
Brichta, Franz, to SKF Kugellagerfabriken GmbH. Method and apparatus for lubricating rotating bearings. 3,754,622, 8-28-73, Cl. 184-1.00d.
Brick, Julius H.; and Olschewski, Wilfred. Temperature-volume controlled mixing valve. 3,721,386, 3-20-73, Cl. 236-12.00a.
Bricker, Albert W. Lighted display. 3,738,035, 6-12-73, Cl. 40-106.520.
Bricker, Carl E., to Goodyear Tire & Rubber Company, The. Constant torque spring applied brake. 3,716,117, 2-13-73, Cl. 188-167.000.
Bricker, Carl E.; and Hillegass, Kenneth P., to Goodyear Tire & Rubber Company, The. Parking brake, spring applied, hydraulic released. 3,730,303, 5-1-73, Cl. 188-170.000.
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Bricker, Melvin E.; and Dugle, Thomas E., to Bricker Products, Inc. Power unit. 3,759,129, 9-18-73, Cl. 83-444.000.
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Brickley, Terence, to Rubery, Owen & Co., Limited. Suspension means for load handling equipment. 3,724,891, 4-3-73, Cl. 294-67.00r.
Brickman, Norman F.; and Freeman, Leo B., Jr., to International Business Machines Corporation. Repairable semiconductor circuit



element and method of manufacture. 3,721,838, 3-20-73, Cl. 307-303.000.
Brickner, Kenneth G., to United States Steel Corporation. Ferritic stainless steels with improved drawability and resistance to ridging. 3,713,812, 1-30-73, Cl. 75-126.00b.
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Bricmont, Francis H., to Bricmont & Associates, Inc. Apparatus and method for applying a foam coating to ejected hot coke. 3,734,834, 5-22-73, Cl. 201-39.000.
Brico Engineering Limited: *See—*
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Bride, John Edwin, to Du Pont de Nemours, E. I., and Company, mesne. Chromium plating medium for a portable plating device. 3,725,214, 4-3-73, Cl. 204-15.000.
Bride, John Edwin, to Du Pont de Nemours, E. I., and Company, mesne. Plating of titanium with chromium. 3,729,392, 4-24-73, Cl. 204-51.000.
Bride, John Edwin, to Du Pont de Nemours, E. I., and Company, mesne. Werner chromium complexes and methods for their preparation. 3,732,270, 5-8-73, Cl. 260-438.50c.
Bride, John Edwin, to Du Pont de Nemours, E. I., and Company. Werner chromium complexes and method for their preparation. 3,733,346, 5-15-73, Cl. 260-438.50c.
Bride, John Edwin, to Du Pont de Nemours, E. I., and Company. Werner chromium complexes and methods for their preparation. 3,733,347, 5-15-73, Cl. 260-438.50c.
Bridegum, James Earl. Drain fitting. 3,719,345, 3-6-73, Cl. 251-351.000.
Bridenbaugh, Edwin R.: *See—*
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Bridenbecker, Arno Don: *See—*
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Bridenstine, Orville J., to Phillips Petroleum Company. Bag-forming machine. 3,764,434, 10-9-73, Cl. 156-251.000.
Bridestone Liquefied Gas Company, Limited: *See—*
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Bridg-A-Back Inc.: *See—*
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Bridge Painting, Inc.: *See—*
Lindsay, Lewis Lee, Jr., 3,774,719.
Bridgeford, Douglas J., to Tee-Pak, Inc. Separation of ions or molecules from mixtures using graft-polymerized or polymer deposited ion exchange or permselective materials. 3,723,306, 3-27-73, Cl. 210-22.000.
Bridgeford, Ronald E.; and Cawi, Vernon A., to Phillips Petroleum Company. Production of motor fuels. 3,758,401, 9-11-73, Cl. 208-78.000.
Bridgehouse, Scott, to Lift-All Company, Inc. Synthetic fiber sling construction. 3,776,585, 12-4-73, Cl. 294-74.000.
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Bridgeport Metal Goods Manufacturing Company, The: *See—*
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Bridger, Gordon B., to Bridg-A-Back Inc. Orthopedic seat. 3,740,096, 6-19-73, Cl. 297-459.000.
Bridges, Denis Richard, to B & R Products Proprietary Limited. Multi-purpose sheet metal folding press, punch, and nibbling machine. 3,763,689, 10-9-73, Cl. 72-441.000.
Bridges, George F.: *See—*
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Bridges, John A., to Aladdin Industries, Incorporated. Insulated tray and cover therefor. 3,754,640, 8-28-73, Cl. 206-4.000.
Bridges, Peter John: *See—*
Faulkner, Roy Gwyn; and Bridges, Peter John, 3,718,443.
Bridges, Ralph F. Extensible step. 3,771,815, 11-13-73, Cl. 280-166.000.
Bridges, Richard J.; and Harper, Paul D. Apparatus for electrode rapper control. 3,754,379, 8-28-73, Cl. 55-104.000.
Bridges, Robert M.: *See—*
Horrer, Paul L.; and Bridges, Robert M., 3,742,535.
Bridges, Robert O.; and Renaut, Paul W., said Bridges assor. to Western Electric Company, Incorporated and said Renaut assor. to Bell Telephone Laboratories, Incorporated. Apparatus for measuring contact and retractile forces of magnetically operated switces. 3,743,927, 7-3-73, Cl. 324-28.0rs.
Bridges, Robert Owen: *See—*
Bond, Robert Harold; and Bridges, Robert Owen, 3,771,048.
Bridges, Roy G. Toothbrush container. 3,746,162, 7-17-73, Cl. 206-15.10e.
Bridges, Stuart Apsley: *See—*
Proops, William Alfred; and Bridges, Stuart Apsley, 3,738,139.
Bridges, Thomas F.; Knight, George R., Jr.; and Mertl, Ivan, to McMullen, John J., Associates, Inc. Double wall corrugated lng Tank. 3,721,362, 3-20-73, Cl. 220-9.01g.
Bridges, William B., to Hughes Aircraft Company. Laser distance detector. 3,733,129, 5-15-73, Cl. 356-5.000.
Bridgestone Cycle Industry Co., Ltd.: *See—*
Toyomasu, Takeshi, 3,765,511.
Bridgestone Liquefied Gas Company, Ltd.: *See—*
Yamamoto, Katsuro, 3,780,900.
Bridgestone Tire Company Limited: *See—*
Fujimoto, Kunihiko; Matsui, Masayuki; Kishinami, Shigeto; and Nishi, Toshio, 3,778,396.
Furukawa, Junji; Iseda, Yutaka; Haga, Kazuo; and Kataoka, Nobuyuki, 3,773,854.
Iida, Yoshihiko; and Goto, Yasushi, 3,739,533.
Iwami, Ichiro; Matsunaga, Tsutomu; Inouye, Sakae; Fujimori, Makoto; Hayashi, Noriyuki; Wada, Norio; Yoneyama, Ken; and Inaba, Hideaki, 3,716,602.
Kikuchi, Michitsugu; Kasahara, Akishige; and Fukuda, Takuji, 3,762,145.
Kusunoki, Sigeru; Murakami, Yoshitsugu; Tashiro, Yutaka; and Tabata, Kazuki, 3,730,245.
Muramatsu, Tateo; Aramaki, Kuninori; and Kondo, Yoshikazu, 3,771,662.
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Takemura, Satoshi; Yoshino, Eiichi; Honda, Toshio; Kubota, Eishi; and Fukuura, Yukio, 3,723,239.
Ueda, Toshiyuki; and Fukuda, Takuji, 3,739,055.
Yoshida, Tomonori; Takagi, Hirohiko; Harakon, Katsuyuki; and Matsui, Norio, 3,762,458.
Yoshimoto, Toshio; Fujimori, Makoto; Kaneko, Seiya; Takeda, Yukihisa; and Koyama, Haruo, 3,756,977.
Bridgewater, Thomas Austin, to RCA Corporation. Automatic tuning control circuits. 3,743,944, 7-3-73, Cl. 325-471.000.
Bridgford, Hugh H. Automatically opening frozen dough box and baking pan. 3,734,749, 5-22-73, Cl. 99-172.000.
Bridgforth, Robert M., Jr.; Sutherland, George S.; and Good, Carl D., to Rocket Research Corporation. Rocket propellant composition including human body generated waste materials. 3,773,574, 11-20-73, Cl. 149-22.000.
Bridgman, Henry. Collection bottle. 3,713,444, 1-30-73, Cl. 128-275.000.
Bridgman, Henry. Uterine aspiration collection bag. 3,773,211, 11-20-73, Cl. 220-63.00r.
Bridgwater, Anna B.: *See—*
Sax, Sylvan M.; Moore, John J.; and Bridgwater, Anna B., 3,759,794.
Bridigum, Robert J., to Westinghouse Air Brake Company. Mounting means for tread brakes. 3,773,151, 11-20-73, Cl. 188-153.00r.
Bridle, Kenneth Frederick, to A.B. Electronics Components Limited. Connectors. 3,760,334, 9-18-73, Cl. 339-99.00r.
Bridwell, Billy W.; Carlson, Emery J.; Edgecomb, Raymond H.; and Watson, William E., to Allied Chemical Corporation. Reduction of sulfur dioxide. 3,755,551, 8-28-73, Cl. 423-570.000.
Bridwell, Harold C.: *See—*
Wilder, Arthur G.; and Bridwell, Harold C., 3,757,878.
Wilder, Arthur G.; and Bridwell, Harold C., 3,757,879.
Bridwell, Harold C.; and Sounders, Norman R., to Christensen Diamond Products Company. Method and apparatus for contouring and sharpening circular. 3,747,276, 7-24-73, Cl. 51-3.000.
Bridwell, John W.; and Lohbauer, Kenneth R., to Caterpillar Tractor Company. Hydraulically powered drive and steering system for track type vehicle. 3,774,707, 11-27-73, Cl. 180-6.480.
Briem, Fritz, to Briem, Marietta and Binkert, Zita, nee Briem. Method of preserving hops. 3,758,310, 9-11-73, Cl. 99-50.500.
Briem, Marietta: *See—*
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Brien, Andre. Illuminated instrument dials. 3,748,456, 7-24-73, Cl. 240-2.100.
Brien, Huron C.; Morman, Raymond A.; and Kaczmarzyk, Leonard M., to Kimberly-Clark Corporation. Compressed tampon with tapered tip. 3,738,364, 6-12-73, Cl. 128-285.000.
Briery, Charles C. Spare tire carrier for automobile trunks. 3,747,814, 7-24-73, Cl. 224-42.120.
Brieske, Bernard F., to Vision Wrap Industries, Inc. Article carrying bag and method for its production. 3,765,597, 10-16-73, Cl. 229-62.000.
Brieva, Antonio Mario; Lopez, Vicente; and Soulages, Nestor Luis. Method and apparatus for gaseous-phase chemical reaction analysis. 3,753,653, 8-21-73, Cl. 23-230.00r.
Briggin, Edward: *See—*
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Katzman, Lawrence; and Briggin, Edward, 3,714,392.
Briggs & Stratton Corporation: *See—*
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Gumtow, Herbert A., 3,735,494.
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Harkness, Joseph R., 3,754,543.
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Rubner, Hugo G., 3,751,952.

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Tharman, Paul A., 3,778,650.
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Briggs, Angelis R.; and Maxwell, Thomas J., to Du Pont de Nemours, E. I., and Company. Process for preparing powder blends. 3,721,725, 3-20-73, Cl. 264-6.000.

Briggs, Aubrey C., to Dravo Corporation. Bulk material handling apparatus. 3,746,150, 7-17-73, Cl. 198-233.000.

Briggs, Aubrey C., to Dravo Corporation. Material handling apparatus. 3,756,375, 9-4-73, Cl. 198-88.000.

Briggs, Aubrey C.; and Behling, Roy A., Jr., to Dravo Corporation. Stacker-reclaimer material handling unit. 3,767,030, 10-23-73, Cl. 198-36.000.

Briggs, Aubrey C., to Dravo Corporation. Bucket assembly for use in a material handling apparatus. 3,767,060, 10-23-73, Cl. 212-81.000.

Briggs, Bill N., to United States of America, Army, mesne. Alloy steel. 3,736,129, 5-29-73, Cl. 75-128.00w.

Briggs, Bill N., to United States of America, Army. Thermal-mechanically processed low-alloy steel. 3,751,307, 8-7-73, Cl. 148-36.000.

Briggs, Edward Miles; Edgar, William; and Rimmer, Rodgers Eugene, to Southwest Research Institute. Underwater wet electrical connector. 3,729,699, 4-24-73, Cl. 339-42.000.

Briggs, Eugene C., to Koehring Company. Fuel burner. 3,720,496, 3-13-73, Cl. 431-353.000.

Briggs, Forrest A., to Standard Register Company, The. Slip clutch drive mechanism. 3,754,412, 8-28-73, Cl. 64-29.000.

Briggs, George S.; and Keith, Marvin W., Jr., to United States of America, Navy. Mal-assembly feature for explosive train fuzes. 3,763,785, 10-9-73, Cl. 102-76.00r.

Briggs, Gifford G., to United States of America, Atomic Energy Commission. Method of producing NaF $2UF_4$. 3,778,500, 12-11-73, Cl. 423-253.000.

Briggs, Henry P., to Mohawk Data Sciences Corporation. Apparatus for printing serially-received data. 3,736,868, 6-5-73, Cl. 101-93.00c.

Briggs, Lloyd A.: *See—*
Briggs, Lloyd A.; Kazen, Dave R.; and Viers, Val R. (said Viers assor. to said), 3,737,222.

Briggs, Lloyd A.; Kazen, Dave R.; and Viers, Val R., said Viers assor. to said Briggs, Lloyd A. Copying machine. 3,737,222, 6-5-73, Cl. 355-3.000.

Briggs, Peleg B., Jr., to Textron, Inc. Fastener driving device having improved structure for driving nails. 3,708,095, 1-2-73, Cl. 227-126.000.

Briggs, Peter James; and Hurlock, Ronald James, to Imperial Chemical Industries Limited. Nickel complexes from aromatic oximes containing phenolic groups. 3,733,348, 5-15-73, Cl. 260-439.000.

Briggs, Richard S., to Integrated Handling Systems. Pivotally mounted fork extensions for low-lift pallet trucks. 3,758,075, 9-11-73, Cl. 254-2.00r.

Briggs, Robert S. Screen enclosure for picnic tables. 3,744,500, 7-10-73, Cl. 135-3.00r.

Briggs, Walton E.; and Fruzzetti, Paul R., to Varian Associates. Fixture and system for treating test pieces on a rapid cycle leak detection apparatus. 3,751,989, 8-14-73, Cl. 73-40.700.

Briggs, Walton Ellis, to Varian Associates. Valve structure for collecting multiple samples. 3,733,907, 5-22-73, Cl. 73-421.50r.

Brigham, Donald A.: *See—*
Grossman, Leonard N.; and Brigham, Donald A., 3,755,188.
Grossman, Leonard N.; and Brigham, Donald A., 3,761,547.

Brigham, Emerson W.; La Branche, Harvey W.; Nash, Alan W. B.; Newman, Howard F.; See, Thomas E.; and Smith, Marjorie Ann M., to Mattel, Inc. Looped traffic accessory. 3,735,923, 5-29-73, Cl. 238-10.00e.

Brigham, George B. Modular building construction. 3,751,865, 8-14-73, Cl. 52-92.000.

Bright, Alfred William; Makin, Brian; and Lamb, David Robert, to National Research Development Corporation. Charge emitting devices. 3,742,263, 6-26-73, Cl. 310-5.000.

Bright, Charles R. Glass lens ending apparatus for sensing lens holding frames. 3,771,265, 11-13-73, Cl. 51-101.01g.

Bright, Edward J.; and Fairbairn, Le Roy W., to Bendix Corporation, The. Snap in polarizing member for electrical connectors. 3,714,617, 1-30-73, Cl. 339-186.00m.

Bright, Elvin M. Apparatus for forming attachable incompletely-cured plastic wafers. 3,718,524, 2-27-73, Cl. 156-500.000.

Bright, Gene M., to Pfizer Inc. 6-(Alpha-(aryl substituted)-omega-amino-omega-carboxyacylamino) penicillanic acids and derivatives thereof. 3,761,466, 9-25-73, Cl. 260-239.100.

Bright, Gordon S.: *See—*
Cross, Edward A.; Frye, Richard L.; Daniel, Robert T.; and Bright, Gordon S., 3,773,663.

Bright, James A., to General Motors Corporation. Harvesting mechanism for automatic ice maker. 3,745,779, 7-17-73, Cl. 62-135.000.

Bright, James A., to General Motors Corporation. Weigh bar switch arrangement for automatic ice maker. 3,751,939, 8-14-73, Cl. 62-137.000.

Bright, James A., to General Motors Corporation. Viscous fluid timer for tray ice maker. 3,774,407, 11-27-73, Cl. 62-157.000.

Bright, James A., to General Motors Corporation. Method and apparatus for making clear ice. 3,775,992, 12-4-73, Cl. 62-73.000.

Bright, Peter Frederick; and Germany, Michael John, to Lucas, Joseph, (Industries), Limited. Headlamp assemblies. 3,710,097, 1-9-73, Cl. 240-41.600.

Bright, Rinehart S.; and Miles, Charles C., to Chrysler Corporation. Seat belt assembly. 3,764,161, 10-9-73, Cl. 280-150.0sb.

Bright, William L. Shielding apparatus for electrical equipment. 3,778,682, 12-11-73, Cl. 317-119.000.

Brightman, Ben W.; and Clarke, Clarence C., to Whirlpool Corporation. Refrigerator control circuit. 3,727,419, 4-17-73, Cl. 62-155.000.

Brigidi, Donato J., 50% interest to Hebling, John L., Jr. Bowling glove. 3,772,706, 11-20-73, Cl. 2-161.00a.

Brigiliano, Florent; Vogt, Ernest; and Marmoud, Edmond, to Fabrique de Boites de Montres F. Kuhn SA. Wrist watch with dial illumination. 3,729,923, 5-1-73, Cl. 58-50.00r.

Brignola, Dominic J.: *See—*
Pickerell, Fred T.; and Brignola, Dominic J., 3,779,413.

Brignon, Andre; and Durand, Michel Georges, to Compagnie des Freins et Signaux Westinghouse. Fluid pressure operated motor or generator. 3,731,598, 5-8-73, Cl. 92-125.000.

Brigth, Gene M.; and Hamanaka, Ernest S., to Pfizer, Inc. 6-(Alpha-(aryl substitute)acylaminoacyl amino) penicillanic acids and derivatives thereof. 3,770,722, 11-6-73, Cl. 260-239.100.

Brija, Raymond L.: *See—*
Bukowski, Raymond J.; Brija, Raymond L.; and Yanikoski, Florian F., 3,718,244.

Bril, Alfred: *See—*
De Mesquita, Albert Hijman Gomes; and Bril, Alfred, 3,715,611.

Brilando, Frank P., to Schwinn Bicycle Company. Air cushion handlebar grip. 3,713,350, 1-30-73, Cl. 74-551.900.

Brilando, Frank P., to Schwinn Bicycle Company. Speedometer driver for bicycle quick-release hubs. 3,781,036, 12-25-73, Cl. 280-289.000.

Briley, Bruce Edwin, to Bell Telephone Laboratories, Incorporated. Parallel adder using a carry propagation bus. 3,717,755, 2-20-73, Cl. 235-175.000.

Briley, George C.; Shepherd, James J.; and Lyons, Thomas A., to Cluett, Peabody & Co., Inc., mesne. Ammonia effluent recovery and liquefaction from textile treating zone. 3,721,097, 3-20-73, Cl. 62-11.000.

Briley, Joseph C., to Sanders Associates, Inc. Program control apparatus. 3,766,527, 10-16-73, Cl. 340-172.500.

Brilka, Rudolf: *See—*
Kind, Dieter; Hartel, Hagen; Salge, Jurgen; and Brilka, Rudolf, 3,753,042.

Brill, Beatrice M.: *See—*
Brill, Eugene L.; and Brill, Beatrice M., 3,709,369.

Brill, Edward F., to Beach-Buoy, Inc. Float. 3,780,686, 12-25-73, Cl. 114-.50f.

Brill, Eugene L.; and Brill, Beatrice M. Power driven transfer roll for flexible oil collector tube. 3,709,369, 1-9-73, Cl. 210-400.000.

Brill, Frank D., to Seeburg Corporation of Delaware, The. Infusor drive means. 3,754,462, 8-28-73, Cl. 99-287.000.

Brill, Frank Daniel: *See—*
Schwertfeger, Owen J.; and Brill, Frank Daniel, 3,721,105.

Brill, Frank David, to Seeburg Corporation of Delaware, The. Apparatus and method for mixing particulate ingredients with a liquid. 3,727,891, 4-17-73, Cl. 259-4.000.

Brill, Henry L., to E.R.E. Laboratory, Inc. Picture projector. 3,709,417, 1-9-73, Cl. 226-76.000.

Brill, Klaus: *See—*
Metzger, Hans; Brill, Klaus; and Hornung, Friedrich, 3,778,311.

Brill, Robert. Exhaust gas filter construction. 3,738,089, 6-12-73, Cl. 55-310.000.

Brill, William F.: *See—*
Barone, Bruno J.; and Brill, William F., 3,725,438.

Brill, William F., to Halcon International, Inc. Preparation of carbamates. 3,763,217, 10-2-73, Cl. 260-471.00c.

Brill, William F., to Halcon International Inc. Preparation of amides. 3,763,234, 10-2-73, Cl. 260-558.00p.

Brill-Edwards, Harry, to Chromalloy American Corporation. Sacrificial corrosion-resistant diffusion coatings. 3,711,315, 1-16-73, Cl. 117-71.00m.

Brille, Maurice; and Baguelin, Yves, to Societe Anonyme de Vehicules Industriels et d'Equipements Mecaniques Saviem. Rotary-piston diesel engine superchargers. 3,727,399, 4-17-73, Cl. 60-13.000.

Brille, Maurice G.; and Baguelin, Yves M. Admission circuits of diesel engines. 3,712,280, 1-23-73, Cl. 123-119.0cb.

Brille, Maurice G., to Regie Nationale des Usines Renault. Sealing devices for rotary piston machines. 3,759,638, 9-18-73, Cl. 418-128.000.



Brilloit, Jacques, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Charging and discharging of lyophilisation apparatus. 3,751,820, 8-14-73, Cl. 34-92.000.

Brimer, C. M.: *See—*
Von Brimer, Joe W., Jr., 3,735,717.

Brimmell, Ronald Harry. Christmas tree packaging means. 3,750,731, 8-7-73, Cl. 150-52.00r.

Brinckman, Eric Maria: *See—*
Heugebaert, Frans Clement; and Brinckman, Eric Maria, 3,721,560.
Poot, Albert Lucien; Heugebaert, Frans Clement; Brinckman, Eric Maria; Von Konig, Anita; and Kampfer, Helmut, 3,770,448.
Poot, Albert Lucien; Van Besauw, Jan Frans; Heugebaert, Frans Clement; and Brinckman, Eric Maria, 3,773,512.
Van Paesschen, August Jean; Brinckman, Eric Maria; and De Geest, Wilfried Florent, 3,712,812.
Vanhalst, Johan Eugeen; Van de Heuvel, Walter August; and Brinckman, Eric Maria, 3,728,119.

Brincks, Richard Joseph, to American Can Company. Pull tab end for can. 3,730,377, 5-1-73, Cl. 220-27.000.

Brindejonc de Treglode, Pierre. Slings, tow-ropes and the like. 3,718,945, 3-6-73, Cl. 24-73.000.

Brindell, Gordon D.; and Leland, Dannals, E., to Uniroyal, Inc. Anti-static polymer composition. 3,728,205, 4-17-73, Cl. 161-67.000.

Brindell, Gordon D.; and Dannals, Leland E., to Uniroyal, Inc. Anti-static polymer composition of polyhydric alcohol and alkali metal carbonate. 3,745,116, 7-10-73, Cl. 252-1.000.

Brindisi, Frank A., Jr., to Enthone, Incorporated. Composition and method for selectively stripping nickel and/or copper. 3,717,520, 2-20-73, Cl. 156-18.000.

Brindle, Stanley M.: *See—*
Tregerman, Leon; and Brindle, Stanley M., 3,737,868.

Brindley, Giles Skey, to National Research Development Corporation. Implantable electrode connector device. 3,718,134, 2-27-73, Cl. 128-2.10e.

Brinegar, Willard C., to Celanese Corporation. Reverse osmosis process employing polybenzimidazole membranes. 3,720,607, 3-13-73, Cl. 210-23.000.

Bringman, Robert D. Stabilizing apparatus. 3,718,345, 2-27-73, Cl. 280-289.000.

Brining, Douglas E., to Feedmatic-Detroit, Inc. Feeding apparatus. 3,774,351, 11-27-73, Cl. 51-215.00h.

Brink, Cecil A. Tiltable hopper elevator apparatus. 3,721,332, 3-20-73, Cl. 198-94.000.

Brink, David L.; and Thomas, Jerome F., to University of California, The Regents of the. Pollutant-free process for producing a clean burning fuel gas from organic-containing waste materials. 3,718,446, 2-27-73, Cl. 48-209.000.

Brink, David L.; and Thomas, Jerome F., to University of California, The Regents of the. Method and apparatus for the destructive decomposition of organic wastes without air pollution and with recovery of chemical byproducts. 3,761,568, 9-25-73, Cl. 423-20.000.

Brink, Robert V.: *See—*
Daly, Richard H.; Brink, Robert V.; and Andersen, Kare, 3,746,491.

Brink, Walter A.; and Hanley, Thomas G., to Eastman Kodak Company. Method and apparatus for severing a web to terminate one roll and initiate winding a new roll. 3,765,615, 10-16-73, Cl. 242-56.00r.

Brinkeborn, Bertram: *See—*
Nilsson, Jan; and Brinkeborn, Bertram, 3,777,362.

Brinkel, Hans; Derleth, Helmut; and Fischer, Hermann, to Kali-Chemie Aktiengesellschaft. Graphite-copper (II)-chloride intercalation carrier-catalyst combination. 3,756,962, 9-4-73, Cl. 252-441.000.

Brinkley, Max D.; and Kerr, Glenn D., to Goodyear Tire & Rubber Company, The. Locking device for the clamps of a tube splicer. 3,730,510, 5-1-73, Cl. 269-25.000.

Brinkman, John D.; Paradise, Ronald Y.; and Prill, Robert S., to Singer Company, The. High speed analog-to-digital converter. 3,721,975, 3-20-73, Cl. 340-347.0ad.

Brinkman, William Guy, to General Electric Company. Dynamoelectric machine cooled by a rotating heat pipe. 3,715,610, 2-6-73, Cl. 310-54.000.

Brinkmann, Frederick J.: *See—*
Deckert, Albert V., Jr.; and Brinkmann, Frederick J., 3,721,096.

Brinkmann, Hans: *See—*
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Brinkmann, Heinz Ulrich: *See—*
Graham, Leslie Wilfred; Voice, Eric Handley; and Brinkmann, Heinz Ulrich, 3,736,169.

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Brinkmann, Ludwig: *See—*
Burg, Karlheinz; Brinkmann, Ludwig; and Wolters, Ernst, 3,767,610.
Reske, Eckart; Cherdron, Harald; Brinkmann, Ludwig; and Herwig, Walter, 3,770,669.

Brinkmann, Ludwig; and Herwig, Walter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Block copolyesters consisting essentially of linear saturated polyester and polystyrenebutadiene units. 3,723,574, 3-27-73, Cl. 260-873.000.

Brinkmeier, Friedhelm, to Windmoller & Holscher. Apparatus for compressing and packaging stacks of flattened juxtaposed bags or like sheet articles. 3,747,295, 7-24-73, Cl. 53-124.00c.

Brint, Norman Trevor, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Extractor mechanisms for guns. 3,710,684, 1-16-73, Cl. 89-167.000.

Brintons Limited: *See—*
Jowett, John Bernard, 3,727,645.

Brion, Jacques, to Commissariat a l'Energie Atomique. Tire incinerator. 3,779,183, 12-18-73, Cl. 110-18.00r.

Briot, Paul-Marie Henri, to Groupement Atomique Alsacienne Atlantique G.A.A.A. Grab for fuel elements of a nuclear reactor. 3,711,144, 1-16-73, Cl. 294-86.00a.

Briotet, Jean Paul Francois Gilbert; and Ravagli, Armand, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Control devices for gas turbine power plants. 3,719,047, 3-6-73, Cl. 60-239.000.

Brischetto, Nedo: *See—*
Bartalini, Gastone; Brischetto, Nedo; and Giuggioli, Mario, 3,711,557.

Brisebarre, Marcel; and de Saint Sauveur, Xavier, to Control Data Corporation. Impact transducer keyboard apparatus. 3,725,908, 4-3-73, Cl. 340-365.00a.

Brishka, Alexander R., to Sealectro Corporation. Coaxial connector. 3,745,514, 7-10-73, Cl. 339-91.00r.

Brisk, Richard A.; Fougere, Guy L.; Lorah, Lawrence D.; and Pastan, Harvey L., to Little, Arthur D., Inc. Character detection system. 3,778,768, 12-11-73, Cl. 340-146.3ag.

Brison, Robert L., to Whittaker Corporation. Integrally molded locking device. 3,771,686, 11-13-73, Cl. 220-4.00r.

Brissenden, Sidney James George, to Imperial Chemical Industries Limited. Container filling device. 3,729,030, 4-24-73, Cl. 141-1.000.

Brissey, George E.: *See—*
Richter, Eike; and Brissey, George E., 3,737,696.

Brisson, Bernard A., to Brisson Development Inc. Swimming pool safety device. 3,757,318, 9-4-73, Cl. 340-261.000.

Brisson Development Inc.: *See—*
Brisson, Bernard A., 3,757,318.

Brissonneau, Pierre, to Compagnie des Ateliers et Forges de la Loire (St. Chamond, Firminy, St. Etienne, Jacob Holtzer). Method of producing silicon steels with oriented grains by coiling with aluminum strip. 3,756,867, 9-4-73, Cl. 148-111.000.

Brissonneau, Pierre; and Couderchon, Georges, to Compagnie des Ateliers et Forges de la Loire. Magnetic steel process. 3,764,381, 10-9-73, Cl. 117-234.000.

Bristol, Edgar H., II., to Foxboro Company, The. Method and apparatus for compensatory control of interacting process variables. 3,714,952, 2-6-73, Cl. 137-1.000.

Bristol Electronics, Inc.: *See—*
Miller, Stephen B., 3,748,589.

Bristol, John E., to Du Pont de Nemours, E. I., and Company. Process for improving the thermal stability of polyvinyl alcohol with a cyclic polycarboxylic acid. 3,738,975, 6-12-73, Cl. 260-91.3pv.

Bristol, Stanley M., to Packard Instrument Company, Inc. Apparatus and method for adjusting gain of photomultiplier type scintillation detectors. 3,721,824, 3-20-73, Cl. 250-71.50r.

Bristol, Thomas R.: *See—*
Lakin, Harold; Bristol, Thomas R.; and Rensch, William J., 3,756,708.

Bristol, William J. Water craft. 3,777,325, 12-11-73, Cl. 9-310.00b.

Bristol-Myers Company: *See—*
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Cheney, Lee C.; and Gottstein, William J., 3,767,655.
Crast, Leonard Bruce, Jr., 3,734,907.
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Crast, Leonard Bruce, Jr., 3,757,014.
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Doyle, Terrence W.; Morris, Leeson R.; and Menard, Marcel, 3,755,432.
Essery, John Michael; and Cheney, Lee Cannon, 3,741,965.
Essery, John Michael; and Cheney, Lee Cannon, 3,743,644.
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Britland, Colin Morris; and Thorpe, John Bernard Joseph, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Navigational apparatus. 3,781,530, 12-25-73, Cl. 235-150.260.

Britt, A. D., to United States of America, Navy. Gelation inhibited silicone fluids. 3,720,611, 3-13-73, Cl. 252-18.000.

Britt, A. D., to United States of America, Navy. Thermal stabilizers for silicone fluids. 3,759,970, 9-18-73, Cl. 260-448.20r.

Britt, Jack, to Rolls-Royce Limited. Power plant. 3,736,750, 6-5-73, Cl. 60-226.00a.

Britt, Jack, to Rolls-Royce Limited. Air intake for a gas turbine engine. 3,750,689, 8-7-73, Cl. 137-15.100.

Britt, Jack; and Rodgers, Leonard John, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Gas turbine engine thrust reversers. 3,754,708, 8-28-73, Cl. 239-265.290.

Britt, Robert Gordon. Variable explosion-displacement rotary engine. 3,779,216, 12-18-73, Cl. 123-8.490.

Brittain, William J.; and Price, David J., to Ford Motor Company. Acceleration and speed responsive electronic clutch controls. 3,752,284, 8-14-73, Cl. 192-103.00f.

Brittan, Kenneth Walter; and Lovelock, James Ephraim. Apparatus for the collection and analysis of samples. 3,731,539, 5-8-73, Cl. 73-421.50r.

Britton, Anthony Sidney. Dispensing devices. 3,777,982, 12-11-73, Cl. 239-315.000.

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Britton, Leon R., to Guardian Electric Manufacturing Company. Construction for a relay. 3,720,892, 3-13-73, Cl. 335-135.000.

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Brix, John R. Board game apparatus. 3,779,554, 12-18-73, Cl. 273-131.00b.

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Broadbent, Thomas, & Sons, Limited: *See—*
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Broadfoot, John T. Apparatus for pneumatically placing semi-fluid materials. 3,754,683, 8-28-73, Cl. 222-134.000.

Broadfoot, John T. Method for pneumatically placing semi-fluid materials. 3,758,034, 9-11-73, Cl. 239-9.000.

Broadhurst, Kent. Eyeglasses having interchangeable colored lenses. 3,752,567, 8-14-73, Cl. 351-47.000.

Broadley, Donald. Method of and means for combating sodium fires. 3,714,986, 2-6-73, Cl. 169-1.00a.

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Broberg, Dewey O., Jr. Engine noise depressing assemblies. 3,779,342, 12-18-73, Cl. 181-56.000.

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Brochot, Claude, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Tobacco-denicotization processes. 3,742,962, 7-3-73, Cl. 131-143.000.

Brochstein, I. H. Drumstick. 3,730,570, 5-1-73, Cl. 287-53.00r.

Brociner, Haskal, to FMC Corporation. Method and apparatus for treating sewage. 3,710,941, 1-16-73, Cl. 210-84.000.

Brocious, George D. Method of an apparatus for melting and refining glass. 3,764,287, 10-9-73, Cl. 65-136.000.

Brock, Allen J., to Data Card Corporation, mesne. Electro-mechanical read head. 3,714,398, 1-30-73, Cl. 235-61.11c.

Brock, Andrew J.; and Pryor, Michael J., to Olin Corporation. Aluminum alloy. 3,720,508, 3-13-73, Cl. 75-147.000.

Brock, Blanchard M.; and Josephson, Paul R., Jr., to Eastman Kodak Company. Method for producing plates having enlarged halftone patterns and article produced by said process. 3,741,652, 6-26-73, Cl. 355-132.000.

Brock, Donald J., to Texas Instruments, Incorporated. Vehicle anti-theft system. 3,718,202, 2-27-73, Cl. 180-114.000.

Brock, George W.; and Stephens, Raymond, to International Business Machines Corporation. Method of forming gaps for small magnetic heads. 3,727,303, 4-17-73, Cl. 29-603.000.

Brock, Gibson E. Self-loading carrier. 3,721,358, 3-20-73, Cl. 214-394.000.

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Brock, Herbert E. Aquarium filter assembly. 3,774,766, 11-27-73, Cl. 210-169.000.

Brock, Ivan R. Tool holder adaptor. 3,760,662, 9-25-73, Cl. 82-35.000.

Brock, James Donald, to Textile Systems, Inc., mesne. Carpet drying method. 3,743,474, 7-3-73, Cl. 432-8.000.

Brock, James Donald, to CMI Corporation. Expansion system for asphalt plant oil heater. 3,749,082, 7-31-73, Cl. 126-343.50a.

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Brock, Leslie E., to Kerant Electronics Ltd. Testing apparatus for light emitting diodes and method therefor. 3,742,356, 6-26-73, Cl. 324-158.00d.

Brock, Lynn S., to General Motors Corporation. Thermoelectrical switch. 3,728,659, 4-17-73, Cl. 337-315.000.

Brock, Myron R. Bow for stringed instruments. 3,759,131, 9-18-73, Cl. 84-282.000.

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Brocker, John R.; Chapman, Ronald H.; Jacobs, Paul; Johnson, Ronald C.; Powell, Jerry R.; and Peay, Robert L., to Motorola, Inc. Sequential tone signalling system. 3,766,523, 10-16-73, Cl. 340-171.0pf.

Brockett, Bruce W.; Miller, Robert E.; and Hinkle, Mary L., to National Cash Register Company, The. Record material. 3,723,156, 3-27-73, Cl. 117-36.200.

Brockett, Bruce W.; Miller, Robert E.; and Hinkle, Mary L., to National Cash Register Company, The. Pressure-sensitive recording sheet. 3,732,120, 5-8-73, Cl. 117-16.000.

Brockett, Bruce W.; and Miller, Robert E., to National Cash Register Company, The. Pressure-sensitive record material. 3,732,141, 5-8-73, Cl. 117-36.800.

Brockett, Bruce W.; and Weaver, Fredrich B., to National Cash Register Company, The. Record sheet and method of making pressure-sensitive. 3,738,857, 6-12-73, Cl. 117-36.100.

Brockett, Halford E.; and Melberg, Robert C., to Continental Can Company, Inc. Deformable closure for containers. 3,749,272, 7-31-73, Cl. 215-40.000.

Brockhouse, Aubrey Devere. Animal operated toilet. 3,747,563, 7-24-73, Cl. 119-1.000.

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Brockins, Richard R.; and Miller, John Paul, to Brown International Corporation. Recirculating filter apparatus. 3,770,130, 11-6-73, Cl. 210-305.000.

Brocklehurst, Charles E., to Riegel Textile Corporation. Diaper machine. 3,745,947, 7-17-73, Cl. 112-121.110.

Brocklehurst, Peter John; Hemingway, Eric; and Wright, Malcolm James, to Imperial Chemical Industries Limited. Manufacture of bis (alkoxyamino-triazinylamino)-stilbene-2-,2'-disulphonic acids. 3,740,341, 6-19-73, Cl. 252-301.20w.

Brockman, Edwin. Paint touch-up capsule. 3,719,460, 3-6-73, Cl. 51-181.000.

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Brockman, William H.; and Greer, Mary H., to Iowa State University Research Foundation, Inc. Micromanipulator system. 3,779,400, 12-18-73, Cl. 214-1.0bd.

Brockmann, Hans; and Scheer, Martin, to Farbenfabriken Bayer Aktiengesellschaft. Beta-rhodomycin V. 3,723,411, 3-27-73, Cl. 260-210.0ab.

Brockmann, Hans-Jurgen, to U.S. Philips Corporation. Field deflection circuit. 3,781,589, 12-25-73, Cl. 315-27.0td.

Brockmann, Heinz, to Daimler-Benz Aktiengesellschaft. Bladc mounting. 3,778,191, 12-11-73, Cl. 416-215.000.

Brockmuller, Friedrich Franz, to Windmoller & Holscher. Process for manufacturing bags comprising a liner bag which protrudes from the opening. 3,724,340, 4-3-73, Cl. 93-35.00r.

Brockmuller, Friedrich Franz, to Windmoller & Holscher. Severing apparatus for severing lengths of tube from a continuously fed flattened tubular web. 3,730,411, 5-1-73, Cl. 225-100.000.

Brockmuller, Ingo, to EMA AG. Electrical oscillating servo motor control circuit arrangement. 3,735,229, 5-22-73, Cl. 318-611.000.

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Broderick, Walter M. Mold protector. 3,757,679, 9-11-73, Cl. 100-53.000.

Brodersen, Helmut, to Maschinenbau Ulm GmbH. Suspension for a ploughshare assembly of a grading machine. 3,763,938, 10-9-73, Cl. 172-789.000.

Brodersen, John C. Mounting apparatus for gas containers. 3,780,972, 12-25-73, Cl. 248-313.000.

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Brodnitz, Michael H.; and Pascale, John V., to International Flavors & Fragrances Inc. Novel flavor compounds and process for producing and utilizing the same. 3,723,135, 3-27-73, Cl. 99-140.00r.

Brodnitz, Michael H.; Pascale, John V.; and Vock, Manfred H., to International Flavors & Fragrances Inc. Imparting oniony flavor to foodstuffs with thio-compounds. 3,751,269, 8-7-73, Cl. 99-140.00r.

Brodnitz, Michael Hugo, to International Flavors & Fragrances Inc. Alkenyl trisulfides. 3,717,681, 2-20-73, Cl. 260-608.000.

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Brodsky, Marc H., to International Business Machines Corporation. Image recording on tetrahedrally coordinated amorphous films. 3,716,844, 2-13-73, Cl. 340-173.01s.

Brodsky, Stuart A.; and Kelly, Raymond A. Vasectomy procedure and instrument for use therewith. 3,716,056, 2-13-73, Cl. 128-303.00r.

Brody, Norman M., to Norman Industries, Inc. Decorative light diffusing element. 3,709,766, 1-9-73, Cl. 161-3.500.





Brody, Norman M., to Norman Industries, Inc. Decorative lamp. 3,740,542, 619-73, Cl. 240-10.00f.

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Broek, Johannes Bernardus, to Plastofold A.G. Support for suspending a curtain. 3,735,795, 5-29-73, Cl. 160-348.000.

Broekhuysen, William C., to Sola Basic Industries, Inc. Thermal switch. 3,716,814, 2-13-73, Cl. 337-123.000.

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Broermanq Arthur B., to Phillips Petroleum Company. Methods of making and using a chromatographic column comprising a flexible yarn is the solid support. 3,727,451, 4-17-73, Cl. 73-23.100.

Broers, Alec N., to International Business Machines Corporation. Method for forming small diameter tips on sintered material cathodes. 3,711,908, 1-23-73, Cl. 29-25.180.

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Bromer, David J.; and Sastri, Aiyaswami S., to Gillette Company, The. Process for producing an improved cutting tool. 3,761,374, 9-25-73, Cl. 204-192.000.

Bromer, Heinz; Meinert, Norbert; and Preuss, Hans-Jurgen, to Leitz, Ernst. Silver activated phosphate glass batched with nitrite. 3,740,241, 6-19-73, Cl. 106-47.00r.

Bromer, William W.; and Patterson, Jefferson M., to Lilly, Eli, and Company. Nitroglucagons and process for their preparation. 3,773,744, 11-20-73, Cl. 260-112.500.

Bromfield, Robert C. Filtering cardiotomy reservoir. 3,768,653, 10-30-73, Cl. 210-188.000.

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Bronca, Gaston; Pouillange, Jean-Paul; and Hlasnik, Ivan, to Commissariat a l'Energie Atomique. Super conducting cable of elimental conductors in a metal matrix within a metallic jacket. 3,767,842, 10-23-73, Cl. 174-128.000.

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Bronkhorst, Armand Francois; Heinrich, Wilhelm Ludwig; and Wurdemann, Ernst to Holvrieka International N.V. Apparatus for draining and densifying curd. 3,774,304, 11-27-73, Cl. 99-460.000.

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Bronstert, Klaus; Schmidt, Franz; and Schuette, Wilhelm, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Thermoplastic molding compositions of high impact resistance. 3,749,755, 7-31-73, Cl. 260-876.00r.

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Brooker, Leslie G S.; and Fumia, Arthur, Jr., to Eastman Kodak Company. Cyanine dyes containing a cyclopentanone nucleus. 3,715,351, 2-6-73, Cl. 260-240.400.

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Brookhyser, Byron B.; and Erickson, Harold E., to Weyerhaeuser Company. Stitching unitizer. 3,732,833, 5-15-73, Cl. 112-203.000.

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Brookover, George B.; Hudecek, Carl J.; and Oliver, John H., to Owens-Illinois, Inc. Hermetic packages and methods of fabricating same. 3,740,838, 6-26-73, Cl. 29-627.000.

Brooks, Barlow W., Jr.; Davis, John R.; and Henry, James A., to Roll Forming Corporation. Roll forming. 3,756,057, 9-4-73, Cl. 72-181.000.

Brooks, Bernard; Farber, Jerome; and Roseman, Theodore, to Electro-Dent, Inc. Medical instrument. 3,731,384, 5-8-73, Cl. 32-27.000.

Brooks, Bobbie, Incorporated: *See—*
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Brooks, Dean P.; Fell, Ferol S.; Garrison, Harold Keith; and Job, Richard W., to Hesston Corporation. Stack feeding method and apparatus. 3,741,051, 6-26-73, Cl. 83-23.000.

Brooks, Dean P.; and McDaniel, Gordon M., to Hesston Corporation. Press mechanism for stack-forming implements. 3,757,687, 9-11-73, Cl. 100-270.000.

Brooks, Dean P.; and Anderson, John Dale, to Hesston Corporation. Continuous stack feeder and method. 3,773,269, 11-20-73, Cl. 241-282.100.

Brooks, E. J., Company Incorporated: *See—*
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Brooks, Everett G.; and Lewis, David O., to International Business Machines Corporation. Serial printer with bi-directional drive control. 3,764,994, 10-9-73, Cl. 340-172.500.

Brooks, Frank E.; and Waddington, James, to Maremont Corporation. Neutral position clutch for spindle assembly. 3,738,461, 6-12-73, Cl. 192-18.00b.

Brooks, Frank W., to General Motors Corporation. Brake actuating and adjusting mechanism. 3,765,512, 10-16-73, Cl. 188-71.800.

Brooks, Frank W., to General Motors Corporation. Brake actuating and adjusting mechanism. 3,765,513, 10-16-73, Cl. 188-77.900.

Brooks, Frank W.; and Sebring John G., to General Motors Corporation. Disc brake caliper assembly. 3,770,082, 11-6-73, Cl. 188-71.900.

Brooks, Frank W., to General Motors Corporation. Bushing assembly. 3,781,068, 12-25-73, Cl. 308-4.00r.

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Brooks, Frederick J., to Astrotronic Research Ltd. Continuous filter system for waste using roll filter paper or other self-cleaning filter. 3,747,766, 7-24-73, Cl. 210-259.000.

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Brooks, Houston George, Jr., to American Cyanamid Company. Synthesis of nitroaromatic-azophenols. 3,773,751, 11-20-73, Cl. 260-206.000.

Brooks, Howard A.; and Burzan, Vernon J., to Leisure-Tron Corporation. Light responsive and directing extraterrestrial vehicles. 3,724,854, 4-3-73, Cl. 273-101.100.

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Brooks, Robert E., to TRW Inc. Fourier transform holographic memory with random phase shifting produced by random size variations in a lens array. 3,716,287, 2-13-73, Cl. 350-3.500.

Brooks, Robert E.; and Heflinger, Lee O., to TRW Inc. Holographic Schlieren method. 3,728,006, 4-17-73, Cl. 350-3.500.

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Brooshok, Melvin J., to Merck & Co., Inc. Rapidly disintegrating bakery enrichment wafer. 3,753,732, 8-21-73, Cl. 99-91.000.

Brophy, Alfred H. Self stopping and locking screw. 3,731,725, 5-8-73, Cl. 151-22.000.

Brophy, Ira N.; and Felsenthal, Donald, to Whitmor Manufacturing Co., Inc. Garment bag. 3,746,151, 7-17-73, Cl. 206-7.00k.

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Brown, Bruce J., to United States of America, Navy. Noise-riding slicer. 3,737,790, 6-5-73, Cl. 328-165.000.

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Brown, Carl A., to Parker-Hannifin Corporation. Fluid filtering device. 3,754,648, 8-28-73, Cl. 210-90.000.

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Brown, Carlton E., to Lear Siegler, Inc. Slot diffuser. 3,733,995, 5-22-73, Cl. 98-40.00d.

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Brown, Christopher Robert; George, Terence Malcolm; and Norton, David John, to Westinghouse Brake and Signal Company Limited. Static circuit arrangement. 3,746,942, 7-17-73, Cl. 317-148.50r.

Brown, Cicero C. Well drilling apparatus. 3,722,603, 3-27-73, Cl. 173-159.000.

Brown, Cicero C. Extensible coupling for well pipes. 3,726,546, 4-10-73, Cl. 285-91.000.

Brown, Cicero C. Apparatus for handling cylindrical members. 3,742,563, 7-3-73, Cl. 24-263.0dh.





Brown, Cicero C. Rotary drive connection for casing drilling string. 3,747,675, 7-24-73, Cl. 166-237.000.

Brown, Cicero C. Automated pipe handling apparatus. 3,748,702, 7-31-73, Cl. 24-263.0dg.

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Brown, Dale H., to General Electric Company. Method of thermal exhaust and system therefor. 3,760,869, 9-25-73, Cl. 165-30.000.

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Brown, David John Lyne, to Commonwealth of Australia, The; care of the Secretary, Department of Supply. Velocimeter for determining the maximum or minimum relative velocity between two bodies. 3,750,170, 7-31-73, Cl. 343-8.000.

Brown, David Maxwell; and Watts, Eric Alfred, to Beecham Group Limited. Benzamidoimidazolines. 3,725,429, 4-3-73, Cl. 260-309.600.

Brown, David O., to Sola Basic Industries, Inc. Heater cable alarm system. 3,774,189, 11-20-73, Cl. 340-253.00b.

Brown, David Sydney; Ficken, Geoffrey Ernest; and Treherne, Elizabeth Joan, to Ilford Limited. Merocyanine dyestuffs. 3,759,931, 9-18-73, Cl. 260-294.80d.

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Brown, Donald C. Lift gate assembly. 3,747,782, 7-24-73, Cl. 214-75.00t.

Brown, Donald D., to Kelsey-Hayes Company. Electric brake controller. 3,740,691, 6-19-73, Cl. 338-39.000.

Brown, Donald G., to United States of America, Air Force. Rocket chamber and injector segmentation and supersonic. 3,733,828, 5-22-73, Cl. 60-258.000.

Brown, Donald R.; and Masopust, Otto T., Jr., to Western Electric Company, Incorporated. Methods and apparatus for increasing the capacitance value of a capacitor. 3,715,786, 2-13-73, Cl. 29-25.420.

Brown, Donald R., to Western Electric Company, Incorporated. Distributed resistor-capacitor network and methods of fabricating a distributed resistor-capacitor network. 3,742,398, 6-26-73, Cl. 333-70.0cr.

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Brown, Earl Franklin; and Kaminski, William, to Bell Telephone Laboratories, Incorporated. Apparatus for preventing buffer overflow in video encoding systems by increasing the scanning rate of a camera during the time interval of the encoding. 3,715,489, 26-73, Cl. 178-7 .100.

Brown, Earl Franklin; and Kaminski, William, to Bell Telephone Laboratories Incorporated. Sign redundancy reduction in differential pulse modulation systems. 3,716,789, 2-13-73, Cl. 325-38.00a.

Brown, Earl Franklin; and Kaminski, William, to Bell Telephone Laboratories, Incorporated. Digital video receivers. 3,725,578, 4-3-73, Cl. 178-7.50r.

Brown, Edgar D., Jr.; and Berger, Abe. Silyl organometallocenes useful as antioxidants. 3,745,129, 7-10-73, Cl. 252-49.700.

Brown, Edgar D., Jr., to General Electric Company. Lubricating compositions containing halogen and alkoxy, acyloxy, or hydroxy groups. 3,767,576, 10-23-73, Cl. 252-54.600.

Brown, Edward A., to Eastman Kodak Company. Chuck for rotatable members. 3,722,808, 3-27-73, Cl. 242-46.400.

Brown, Edward A.; and Laos, Ivar, to Searle, G. D., & Co. Trialkylsilyl ethers of 17$\alpha$-alkynylestra-1,3,5 (10)-triene-3-17$\beta$-diols and 11$\beta$-alkyl derivatives thereof. 3,755,384, 8-28-73, Cl. 260-397.500.

Brown, Edward Douglas; and Leeney, Timothy John, to Imperial Chemical Industries Limited. Bicycloheptene derivatives. 3,778,461, 12-11-73, Cl. 260-464.000.

Brown Engineering Company, Inc.: *See—*
Neuffer, Bruce H., 3,768,257.

Brown, Eric: *See—*
Cobb, Harold Ralph William; and Brown, Eric, 3,732,126.

Brown, Eugene: *See—*
Belland, James A.; Brown, Eugene; and Dewuske, David, 3,744,600.

Brown, Eugene A.; and Archer, Robert L., to United States of America, Army, mesne. Gun rugged recorder. 3,761,917, 9-25-73, Cl. 340-347.0ad.

Brown, Eugene C.; and Carter, Donald L., to Garrett Corporation, The. Brushless motor control. 3,775,648, 11-27-73, Cl. 318-138.000.

Brown, Francis Barton: *See—*
Erickson, John W.; and Brown, Francis Barton, 3,758,238.

Brown, Francis Barton; and Budrys, Vitolis, to Kobe, Inc. Well pumping system with parallel jet pumps. 3,781,134, 12-25-73, Cl. 417-176.000.

Brown, Frank: *See—*
Wickham, William T.; Brown, Frank; Kleykamp, Donald L.; and Kossuth, Otto, 3,733,697.

Brown, Frank R. Cutters. 3,774,301, 11-27-73, Cl. 30-186.000.

Brown, Fred: *See—*
Heap, James C.; Brown, Fred; and Graves, Donald C., 3,766,862.

Brown, Fred P., Jr., to Packaging Industries, Inc. Preform reshaping means having web distortion control device. 3,749,544, 7-31-73, Cl. 425-397.000.

Brown, Gary G.: *See—*

Mills, George J.; and Brown, Gary G., 3,756,905.
Brown, Gaylord W.; and Adams, Gary A., to Koehring Company. Friction welding machine loading and holding apparatus. 3,759,770, 9-18-73, Cl. 156-73.000.
Brown, Gaylord W.; and Howe, Charles E., to Koehring Company. Container seam locator and positioner for container printing. 3,762,315, 10-2-73, Cl. 101-40.000.
Brown, Geoffrey Phillip. Muffling device for gas discharge. 3,750,841, 8-7-73, Cl. 181-58.000.
Brown, George A.; and Hinds, Michael Francis, to Southern Line Cleaning, Inc. Method for sealing pipelines. 3,753,766, 8-21-73, Cl. 117-97.000.
Brown, George F.: *See*—
Maynard, James G.; and Brown, George F., 3,712,078.
Brown, Gerald V.; Coles, Willard D.; and Laurence, James C., to United States of America, National Aeronautics and Space Administration. Method of fabricating a twisted composite superconductor. 3,763,552, 10-9-73, Cl. 29-599.000.
Brown, Gertrude T.: *See*—
Brown, Robert G.; and Grant, Gene Louise, 3,741,376.
Brown, Gordon M.; and Porter, Kenneth R., to GCO, Inc. Extended field depth holographic method and apparatus. 3,749,470, 7-31-73, Cl. 350-3.500.
Brown, Gordon P.; and McClarke, Andrew V., to Eastman Kodak Company. Reel for web material. 3,735,941, 5-29-73, Cl. 242-68.300.
Brown, Gordon P. Mount sealing apparatus. 3,760,483, 9-25-73, Cl. 29-200.00b.
Brown, Gordon P., to Eastman Kodak Company. Strip cutting and mounting apparatus. 3,780,608, 12-25-73, Cl. 83-375.000.
Brown, Gordon R.: *See*—
Law, Kenneth J.; and Brown, Gordon R., 3,757,242.
Brown, Gordon R.; and Michalek, Margaret E., said Brown assor. to All-Power Manufacturing Co. Bowl assembly for chilling salads or the like. 3,710,589, 1-16-73, Cl. 62-457.000.
Brown, Graham Maurice, to Machine Tool Divisional Services Limited. Tool for gear finish forming. 3,777,345, 12-11-73, Cl. 72-102.000.
Brown, Graydon L.: *See*—
Fair, Delbert W.; and Brown, Graydon L., 3,718,205.
Fair, Delbert W.; Brown, Graydon L.; and Miller, J. H., Jr., 3,777,843.
Brown, Harley. Maxium liquid level control valve. 3,756,269, 9-4-73, Cl. 137-446.000.
Brown, Harold, Company: *See*—
Love, Addison N., 3,722,851.
Brown, Harold H. Apparatus for adhering a cue tip to a billiard cue or the like. 3,740,295, 6-19-73, Cl. 156-499.000.
Brown, Harold J., to Lorain Products Corporation. Frequency compensating circuit for voltage regulators. 3,725,766, 4-3-73, Cl. 321-5.000.
Brown, Harold J., to Lorain Products Corporation. Regulator circuit having a multi-stepped regulating wave. 3,745,437, 7-10-73, Cl. 321-5.000.
Brown, Harry D., 50% to Lewis, Ebert E. Pyrolysis process system for recycling of refuse. 3,770,419, 11-6-73, Cl. 75-63.000.
Brown, Harry W., to Cutler-Hammer, Inc. Lock-off switch. 3,746,813, 7-17-73, Cl. 200-157.000.
Brown, Harry W., to Cutler-Hammer, Inc. Trigger switch with selective two-position trigger depression limiting means. 3,761,663, 9-25-73, Cl. 200-157.000.
Brown, Harry W., to Cutler-Hammer, Inc. Rutt-contact speed control trigger switch. 3,775,576, 11-27-73, Cl. 200-157.000.
Brown, Hart. Contact apparatus. 3,723,071, 3-27-73, Cl. 23-283.000.
Brown, Hart. Contact process and apparatus. 3,723,180, 3-27-73, Cl. 134-25.000.
Brown, Harvey A.; Vogel, Herward A.; and Sandberg, Carl L., to Minnesota Mining and Manufacturing Company. Polyether/polyarylsulfones. 3,772,248, 11-13-73, Cl. 260-49.000.
Brown, Harvey A., to Minnesota Mining and Manufacturing Company. Aromatic fluoroaliphatic-linked polysulfonate esters. 3,772,251, 11-13-73, Cl. 260-49.000.
Brown, Henry; and Tomaszewski, Thaddeus W., to Oxy Metal Finishing Corporation, mesne. Electrodeposition of films of particles on cathodes. 3,745,098, 7-10-73, Cl. 204-181.000.
Brown, Henry, to Oxy Metal Finishing Corporation, mesne. Electroplating of nickel. 3,770,730, 11-6-73, Cl. 260-240.00f.
Brown, Henry C. Speed-reducing coupling. 3,726,158, 4-10-73, Cl. 74-804.000.
Brown, Henry C., to Brown Well Service & Supply Company. Liner hanging apparatus. 3,741,302, 6-26-73, Cl. 166-208.000.
Brown, Herbert C. Carbonylation of organoboranes in the presence of complex metal hydrides. 3,752,860, 8-14-73, Cl. 260-632.00r.
Brown, Houston Alfred, Jr.; Keilen, Donald H.; and Ifune, Saburo, to International Telephone and Telegraph Corporation. Radiant energy receivers. 3,766,482, 10-16-73, Cl. 325-419.000.
Brown, Howard R., to Brown, D. S., Company, The. Curtain wall window gasket construction. 3,722,161, 3-27-73, Cl. 52-400.000.
Brown, Howard W. Electrically controlled brake. 3,708,046, 1-2-73, Cl. 192-2.000.
Brown, Hugh E.; Fricke, Vourdon H.; and Gerfen, Henry C., to Fueltime Saver Corporation. Reserve fuel system for liquefied gas powered engines. 3,710,809, 1-16-73, Cl. 137-1.000.
Brown, Hugh O. Dispenser. 3,765,415, 10-16-73, Cl. 128-261.000.
Brown, Ian G.: *See*—
Ehlers, Kenneth W.; Brown, Ian G.; and Lietzke, Alan F., 3,723,703.
Brown, Ilo M.: *See*—
Nelson, Edward J.; and Brown, Ilo M., 3,752,569.
Brown International Corporation: *See*—
Brockins, Richard R.; and Miller, John Paul, 3,770,130.
Shrewsbury, Robert S.; Webb, J. D.; and Bushman, R. C., 3,753,397.
Brown, J. Murray, to Electronic Enterprises, Inc. Remote electrically controlled two-way mirror. 3,751,141, 8-7-73, Cl. 350-289.000.
Brown, James A.; Chieves, Eddie G.; and Runyan, Wesley D., to Rust Engineering Company, The. Flume water recycling apparatus. 3,752,314, 8-14-73, Cl. 209-173.000.
Brown, James D.: *See*—
Mueller, Francis X., Jr.; and Brown, James D., 3,725,301.
Uraneck, Carl A.; Trepka, William J.; and Brown, James D., 3,775,369.
Brown, James D. Waste treatment system. 3,749,243, 7-31-73, Cl. 210-104.000.
Brown, James D.; and Uraneck, Carl A., to Phillips Petroleum Company. Copolymers of cyclic monoolefins and cyclic polyolefin compounds. 3,778,420, 12-11-73, Cl. 260-80.700.
Brown, James E., to General Electric Company. Button type cell casing and sealed button type battery. 3,748,182, 7-24-73, Cl. 136-111.000.
Brown, James K., to Bingham, Samuel, Company. Printer's roller and method of making same. 3,750,250, 8-7-73, Cl. 29-148.40d.
Brown, James K., to Bingham, Samuel, Company. Can coating roller. 3,771,206, 11-13-73, Cl. 29-129.000.
Brown, James L. Regulatable triggers for pneumatic devices. 3,707,994, 1-2-73, Cl. 137-637.400.
Brown, James L., to Mallinckrodt Chemical Works. Method for determining thyroxine in blood serum and reagent therefor. 3,714,344, 1-30-73, Cl. 424-1.000.
Brown, James L.; and Hallett, Floyd P., to Mallinckrodt Chemical Works. Method for determining thyroxine in blood serum and reagent therefor. 3,745,211, 7-10-73, Cl. 424-1.000.
Brown, James L., to Collins Radio Company. Resistor-ladder circuit. 3,755,807, 8-28-73, Cl. 340-347.0da.
Brown, James Marvin, to American Cyanamid Company. Softening agent for cotton and for synthetic textile substrates. 3,725,440, 4-3-73, Cl. 260-400.000.
Brown, Jesse C., to Amsted Industries Incorporated. Apparatus for removing a foreign substance from a liquid bath. 3,712,601, 1-23-73, Cl. 266-37.000.
Brown, Jesse L.; and Hotter, Lynn R., to Eastman Kodak Company. Method for eliminating color developer fog. 3,769,206, 10-30-73, Cl. 210-22.000.
Brown, John. Lenticular projection screen. 3,712,708, 1-23-73, Cl. 350-129.000.
Brown, John A., to Esso Research and Engineering Company. Nitronium perchlorate stabilized by $BF_3$. 3,716,624, 2-13-73, Cl. 423-274.000.
Brown, John B., to Du Pont de Nemours, E. I., and Company. Device for optically measuring a dimension of an object. 3,743,428, 7-3-73, Cl. 356-160.000.
Brown, John F., Jr.; Slusarczuk, George M. J.; and LeBlanc, Oliver H., Jr., to General Electric Company. Ion-specific membrane. 3,743,588, 7-3-73, Cl. 204-195.00m.
Brown, John F., Jr.; Le Blanc, Oliver H., Jr.; and Grubb, Willard T., to General Electric Company. Potassium ion-specific membrane. 3,767,553, 10-23-73, Cl. 204-195.00m.
Brown, John J., Jr.: *See*—
Stuart, Gerald L.; and Brown, John J., Jr., 3,729,084.
Brown, John R. Tubular instrument. 3,720,203, 3-13-73, Cl. 128-4.000.
Brown, John R. Vacuum cleaner for vehicles. 3,764,232, 10-9-73, Cl. 417-319.000.
Brown, John S.: *See*—
Betschart, Robert J.; and Brown, John S., 3,763,661.
Brown, John Vincent. Drilling bolt holes. 3,711,215, 1-16-73, Cl. 408-108.000.
Brown, Joseph K. Combination of bar stool and refuse container. 3,724,745, 4-3-73, Cl. 232-43.200.
Brown, Joseph L., to Brown Truck and Trailer Manufacturing Company. Furniture truck frame. 3,727,903, 4-17-73, Cl. 269-17.000.
Brown, Joseph W., to Bendix Corporation, The. Humidifier-nebulizer. 3,724,454, 4-3-73, Cl. 128-194.000.
Brown, Kenard D. Flexible helical conveyor for liquids. 3,709,357, 1-9-73, Cl. 198-213.000.
Brown, Kenneth H.; and Kline, Arthur J., Jr., to Motorola, Inc. Automatic signal acquisition means for phase-lock loop with anti-sideband lock protection. 3,768,030, 10-23-73, Cl. 331-12.000.
Brown, Kenneth Robson, to Ferranti Limited. Information storage apparatus. 3,781,466, 12-25-73, Cl. 178-6.800.



Brown, Kevan; and Cavalla, John Frederick, to Wyeth, John, & Brother Limited. Thiophene and furan lower alkanoic acids and derivatives. 3,743,656, 7-3-73, Cl. 260-332.20a.
Brown, Laddie L., to American Metal Climax, Inc. Retort bumping machine. 3,714,673, 2-6-73, Cl. 15-104.10r.
Brown, Larry A.; and McMichael, James W., to Caterpillar Tractor Company. Clutch spring retainer assembly. 3,731,775, 5-8-73, Cl. 192-89.00r.
Brown, Larry P., to Cities Service Oil Company. Method of offset explosive stimulation. 3,730,274, 5-1-73, Cl. 166-299.000.
Brown, Larry P., to Cities Service Oil Company. Apparatus and process for the solution and heating of sulfur containing natural gas. 3,744,565, 7-10-73, Cl. 166-267.000.
Brown, Larry P.; and Rhoades, Vaughan W., to Cities Service Oil Company. Apparatus for containing highly corrosive materials under pressure. 3,779,421, 12-18-73, Cl. 220-63.000.
Brown, Lawrence C. Automatic water shut-off system. 3,770,002, 11-6-73, Cl. 137-312.000.
Brown, Lawrence E. Ski and pole carrier. 3,756,420, 9-4-73, Cl. 211-60.0sk.
Brown, Lawrence W.; and Piester, Leroy E., to Centuri Engineering Company, Inc. Recovery device ejection baffle system for minature rockets. 3,719,145, 3-6-73, Cl. 102-34.400.
Brown, Leanne M.: *See*—
Mazdiyasni, Khodabakhsh; Brown, Leanne M.; and Lynch, Charles T., 3,757,412.
Mazdiyasni, Khodabakhsh S.; Schaper, Barbara J.; and Brown, Leanne M., 3,775,453.
Brown, Leland A., to Electrical Fittings Corporation. Electrical outlet box construction. 3,770,872, 11-6-73, Cl. 174-53.000.
Brown, Leland A., to Electrical Fittings Corporation. Plastic electrical junction box. 3,770,873, 11-6-73, Cl. 174-58.000.
Brown, Lemuel G.: *See*—
Brown, Russell L.; and Brown, Lemuel G., 3,775,926.
Brown, Leslie C., to General Electric Company. Method for construction of plastic enclosure. 3,772,110, 11-13-73, Cl. 156-73.000.
Brown, Lester F., to Standard Concrete Pipe Company, Inc. Tool for forming asbestos linings and the like. 3,723,041, 3-27-73, Cl. 425-262.000.
Brown, Lewis Judson; Lippy, Joseph Edmund, Jr.; and Payne, Herbert James, to Pennwalt Corporation. Method of preparing tin-free, chromium coated steel. 3,756,926, 9-4-73, Cl. 204-29.000.
Brown, Lloyd H.: *See*—
Bozer, Keith B.; Brown, Lloyd H.; and Eftax, Daniel S. P., 3,738,955.
Brown, Lloyd H.; Eftax, Daniel S. P.; Everett, George S.; and Oldham, James R., to Quaker Oats Company, The. Fast baking core composition and process for preparation thereof. 3,723,368, 3-27-73, Cl. 260-17.200.
Brown, Lloyd H.; and Eftax, Daniel S. P., to Quaker Oats Company, The. Process of producing a foundry core composition. 3,734,936, 5-22-73, Cl. 260-39.0sb.
Brown, Lloyd H.; Dunlop, Andrew P.; and Eftax, Daniel S. P., to Quaker Oats Company, The. N,N'-bis((tri(substituted))silylalkylene)-1,4-xylene-alpha, alpha'-diimine. 3,737,430, 6-5-73, Cl. 260-240.00g.
Brown, Malcolm George, Jr.; Guille, Gilbert James, Jr.; and Long, George Ernest, III, to RCA Corporation. Cathode-ray tube with laminated safety panel and separate light-attenuating layer. 3,708,622, 1-2-73, Cl. 178-7.820.
Brown, Marinus L.; La Rosa, Paul J.; and Sciulli, Charles M., Jr., to United States Steel Corporation. Blast furnace tuyere and method of operating same. 3,712,602, 1-23-73, Cl. 266-41.000.
Brown, Martin L., to Du Pont de Nemours, E. I., and Company. Dual latex adhesive system. 3,758,362, 9-11-73, Cl. 156-310.000.
Brown, Marvin L. Emergency support. 3,747,951, 7-24-73, Cl. 280-150.00r.
Brown, Maurice H.: *See*—
Lunt, Wilbur B.; and Brown, Maurice H., 3,722,416.
Brown, Maurice H. Wire terminal making and assembling. 3,714,708, 2-6-73, Cl. 29-624.000.
Brown, Max Murrow, to Deere & Company. Shuttle valve. 3,713,703, 1-30-73, Cl. 303-10.000.
Brown, Melancihon S.; deceased (by Kohn, Gustave K.; administrator), to Chevron Research Company. O,O-dihydrocarbyl-N-alkylthio or N-arylthio phosphoroamidothioail. 3,755,507, 8-28-73, Cl. 260-947.000.
Brown, Melancthon S., to Chevron Research Company. N-polyhalovinylthio ureas as aquatic herbicides. 3,743,497, 7-3-73, Cl. 71-66.000.
Brown, Melancthon S.; deceased (by Kohn, Gustave K.; administrator), to Chevron Research Company. Substituted triazines. 3,743,643, 7-3-73, Cl. 260-249.800.
Brown, Melancthon S., to Chevron Research Company. Controlling aqueous microorganisms with N-polyhalovinylthio carboxamides. 3,771,990, 11-13-73, Cl. 71-66.000.
Brown, Melancthon S., to Chevron Research Company. Controlling aqueous microorganisms with N-polyhalovinylformamides. 3,771,991, 11-13-73, Cl. 71-67.000.
Brown, Melancthon S., to Chevron Research Company. N-Aryl-N-alkyl-N'-arylthio ureas as herbicides. 3,771,993, 11-13-73, Cl. 71-98.000.
Brown, Melvin A.: *See*—
Beach, John M.; and Brown, Melvin A., 3,724,608.
Brown, Melvin H.: *See*—
Brown, Robert H.; Brown, Melvin H.; and Shumaker, Murray Byron, 3,708,352.
Brown, Melvin H., to Aluminum Company of America. Method of multiple effect evaporation. 3,779,871, 12-18-73, Cl. 203-88.000.
Brown, Merle F.; and Lu, Chien Yang. Method and apparatus for selectively removing pre-identified articles from a convcyor system. 3,743,090, 7-3-73, Cl. 209-34.000.
Brown, Merle S.: *See*—
Gardner, John A., Jr.; Brown, Merle S.; and Jacobs, William H., 3,737,076.
Brown, Mervyn: *See*—
Kitching, Anthony George; and Brown, Mervyn, 3,748,213.
Brown, Milton; Beers, Eugene W.; and Nicole, Andre, to Dymo Industries, Inc. Automatic push button tape embossing machine. 3,753,482, 8-21-73, Cl. 197-6.600.
Brown, Milton M.: *See*—
Beers, Eugene; Brown, Milton M.; Eckes, William A.; and Penaluna, William A., 3,726,380.
Brown, Milton T.; and Bilek, Zdenek, to DCA Educational Products, Inc. Modular display assembly. 3,736,035, 5-29-73, Cl. 312-107.000.
Brown, Morris E., to Eastman Kodak Company. Stripper mechanism. 3,730,454, 5-1-73, Cl. 242-192.000.
Brown, Neil L., to Bissett-Berman Corporation, The. Pressure transducer. 3,750,476, 8-7-73, Cl. 73-398.000.
Brown, Neil L., to Bissett-Berman Corporation, The. Transducer system. 3,753,373, 8-21-73, Cl. 73-398.00c.
Brown, Norman C.; and Poll, Gerald S., to Cooper, McDougall & Robertson Limited. Certain 2[1H] pyridon-4-yl phosphates and phosphorothionates. 3,708,487, 1-2-73, Cl. 260-294.80k.
Brown, Norman Kenneth: *See*—
Sedgfield, Hugh B.; Brown, Norman Kenneth; and Birchnall, Eric James, 3,708,029.
Brown Oil Tools, Inc.: *See*—
Dinning, Robert W., 3,763,932.
Garrett, Henry U., 3,747,633.
Garrett, Henry U., 3,754,597.
Brown, Omar L.: *See*—
Schubert, James R.; and Brown, Omar L., 3,765,352.
Brown, Omar L., to Fraze, Ermal C., mesne. Easy opening container wall. 3,720,349, 3-13-73, Cl. 220-54.000.
Brown, Omar L.; and Smyth, George F., to Fraze, Ermal C., mesne. Method of making riveted joint. 3,724,063, 4-3-73, Cl. 29-509.000.
Brown, Omar L., to Fraze, Ermal C. Easy opening can end with non-removable tab. 3,730,379, 5-1-73, Cl. 220-48.000.
Brown, Omar L., to Fraze, Ermal C. Can end with inseparable tear strip. 3,757,989, 9-11-73, Cl. 220-54.000.
Brown, Patrick M.; and Maselli, James M., to Grace, W. R., & Co. Process for preparing N-alkylamines. 3,726,926, 4-10-73, Cl. 260-585.00r.
Brown, Patrick M.; Duecker, Heyman C.; and Devore, Dorothy C., to Grace, W. R., & Co. Fusion bonded vermiculite molding material. 3,778,281, 12-11-73, Cl. 106-67.000.
Brown, Paul: *See*—
Van Dusen, Charles H., Jr.; and Brown, Paul, 3,714,891.
Brown, Paul A., to Metpath, Inc. Cervical scraper. 3,776,219, 12-4-73, Cl. 128-2.00b.
Brown, Paul I.; and Brown, Arlie L., to Savin Business Machines Corporation. Pollution control system for duplicator machine. 3,767,300, 10-23-73, Cl. 355-15.000.
Brown, Paul Merrill; Davis, Donovan Chester; Gross, James Edward; and Sweet, Richard Gordon, to Gilfillan Corporation. Frequency selective pulse receiver. 3,769,591, 10-30-73, Cl. 325-474.000.
Brown, Paul W.: *See*—
Endicott, Clarence J.; Brown, Paul W.; and Andrews, Leonard S., 3,746,554.
Brown, Peter Henry; and Webb, Derek Ivor, to Hydro-Mite Limited. Hydrostatic transmissions. 3,751,924, 8-14-73, Cl. 60-485.000.
Brown, Peter John Nicholas: *See*—
Capp, Clifford William; and Brown, Peter John Nicholas, 3,751,493.
Brown, Peter W., to Outboard Marine Corporation. Crankcase drainings recycling system. 3,709,202, 1-9-73, Cl. 123-73.00r.
Brown, Peter W., to Outboard Marine Corporation. Drain return for engine. 3,730,149, 5-1-73, Cl. 123-73.00r.
Brown, Philip H., to Inland Container Corporation. Package corner post. 3,734,389, 5-22-73, Cl. 229-14.00c.
Brown, Phillip; and Hawkins, Peter, to Keystone Limited. Cyclic beam tufting machine. 3,752,095, 8-14-73, Cl. 112-79.00a.
Brown, R. J., and Associates: *See*—
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Brown, Ralph A., to Sperry Rand Corporation. Rack mounted electronic module support mechanism. 3,759,475, 9-18-73, Cl. 248-277.000.

Brown, Ralph L., to Hoover Company, The. Non-slip handle to bail retaining means. 3,771,885, 11-13-73, Cl. 403-379.000.
Brown, Randolph F., to Coleman, Owen W., Associate, Inc. Dispensing carton. 3,738,544, 6-12-73, Cl. 222-454.000.
Brown, Reed M., III; and Stoltman, Donald D., to General Motors Corporation. Carburetor with power choke. 3,740,040, 6-19-73, Cl. 261-23.00a.
Brown, Rene Paul; Allison, Birt, Jr.; and D'Ostrowick, Pierre Marie Joseph Ghislain de Radzitzky, to Cosden Oil & Chemical Company: Separation of diethylbenzene isomers by distillation and dehydrogenation. 3,715,408, 2-6-73, Cl. 260-669.00a.
Brown, Richard E.: *See—*
Anderson, Elizabeth; and Brown, Richard E., 3,738,011.
Roller, Kent G.; Ahlborn, George H.; and Brown, Richard E., 3,778,308.
Brown, Richard E., to Warner-Lambert Company. Substituted imidazolinylmethyl anthranilates. 3,754,002, 8-21-73, Cl. 260-309.600.
Brown, Richard E.; Cavanagh, Paul; and Shavel, John, Jr., to Warner-Lambert Company. Tetraloneoxy acetic acids and esters thereof. 3,776,944, 12-4-73, Cl. 260-473.00f.
Brown, Richard L.: *See—*
Schaible, Aaron M.; Braun, Bernard G.; Bennett, Wilbur G.; and Brown, Richard L., 3,707,990.
Brown, Richard L., to Bally Manufacturing Corporation. Apparatus for simulating roadway driving conditions. 3,707,781, 1-2-73, Cl. 35-11.000.
Brown, Richard L., to Bally Manufacturing Corporation. Frontally raiseable vehicles amusement apparatus. 3,722,884, 3-27-73, Cl. 273-1.00e.
Brown, Richard L., to Midway Manufacturing Company. Apparatus for simulating cross-country driving conditions. 3,734,497, 5-22-73, Cl. 273-1.00e.
Brown, Richard L., to Bally Manufacturing Corporation. Ball sweeper apparatus for ball rolling games. 3,754,762, 8-28-73, Cl. 273-124.00a.
Brown, Richard L., to Midway Manufacturing Company. Shooting gallery apparatus in which a programmed robot competes with the operator. 3,761,088, 9-25-73, Cl. 273-101.200.
Brown, Richard M.: *See—*
Gunter, William D., Jr.; and Brown, Richard M., 3,715,152.
Brown, Robert A., to Electro Development Corporation. Reverse motion detector. 3,728,676, 4-17-73, Cl. 340-70.000.
Brown, Robert A., to Rem Metals Corporation. Making investment shell molds inhibited against reaction with molten reactive and refractory casting metals. 3,743,003, 7-3-73, Cl. 164-16.000.
Brown, Robert Alan, to Inmont Corporation. Polyurethane production in the presence of boron trifluoride. 3,717,604, 2-20-73, Cl. 260-32.60n.
Brown, Robert C.: *See—*
Brown, Robert G.; and Grant, Gene Louise, 3,741,376.
Murtaugh, Justin J.; and Brown, Robert C., 3,741,900.
Brown, Robert D. Toothbrush holder. 3,727,748, 4-17-73, Cl. 206-15.10c.
Brown, Robert G., to Bunn, B. H., Company. Elliptical gear drive for bundle tying machine. 3,727,959, 4-17-73, Cl. 289-15.000.
Brown, Robert G.; deceased (by Brown, Gertrude T.; and Brown, Robert C.; heirs); and Grant, Gene Louise, 100% to Magni-Case, Inc., mesne. Pocket holder with magnetic clasp. 3,741,376, 6-26-73, Cl. 206-5.00r.
Brown, Robert H.; Brown, Melvin H.; and Shumaker, Murray Byron, to Aluminum Company of America. Strain hardened aluminum-magnesium alloys. 3,708,352, 1-2-73, Cl. 148-11.50a.
Brown, Robert Hulme, to C.A.V. Limited. Vehicle transmission control systems. 3,741,036, 6-26-73, Cl. 74-752.00d.
Brown, Robert J. Air release friction device. 3,743,061, 7-3-73, Cl. 188-170.000.
Brown, Robert J., to Esso Production Research Company. Underwater pipeline installation. 3,766,743, 10-23-73, Cl. 61-72.300.
Brown, Robert J. S., to Chevron Research Company. Crossed-coil nuclear magnetism well logging apparatus and method utilizing a polarizing field and an additional polarizing field to shift the direction of polarization. 3,723,856, 3-27-73, Cl. 324-.50g.
Brown, Robert J. S., to Chevron Research Company. Nuclear magnetism well logging method and apparatus. 3,775,671, 11-27-73, Cl. 324-.50r.
Brown, Robert M., to Atlantic Research Corporation. Modulation identification system. 3,767,860, 10-23-73, Cl. 179-1.0mn.
Brown, Robert O., to Westinghouse Electric Corporation. Guide vanes for supersonic turbine blades. 3,751,182, 8-7-73, Cl. 416-191.000.
Brown, Robley C. Vehicle engine mounting. 3,710,885, 1-16-73, Cl. 180-64.00m.
Brown, Roger Frederick Challis; and Smith, Reginald James, to Monash University. Isoindole derivatives and preparation thereof. 3,745,174, 7-10-73, Cl. 260-326.100.
Brown, Roger Henry: *See—*
Beeli, Johann Battesta; Brown, Roger Henry; and Reif, Philip George, 3,746,903.
Brown, Roger S.; Kotter, James I.; and Salaun, Harold L., Jr., to United States of America, Agriculture. Yarn twist control apparatus for electrostatic spinner. 3,768,243, 10-30-73, Cl. 57-58.890.
Brown, Roger W.; and Ranney, Hinkley H., to Cone-Blanchard Machine Company, mesne. Thread milling attachment. 3,774,501, 11-27-73, Cl. 90-11.640.
Brown, Roland Clough. Instant dial-a-flow cap. 3,734,360, 5-22-73, Cl. 222-537.000.
Brown, Roland Clough. Instant emergency fan belt replacement kit. 3,747,165, 7-24-73, Cl. 24-31.00f.
Brown, Ronald C.: *See—*
Goodenough, Samuel H.; Brown, Ronald C.; and Roe, Benson B., 3,710,744.
Kahn, Paul; and Brown, Ronald C., 3,766,567.
Brown, Ronald D.; and Stark, Marvin L., to Armco Steel Corporation. Water quench method and apparatus. 3,735,967, 5-29-73, Cl. 266-3.00r.
Brown, Russell L.: *See—*
Brown, Russell L.; and Brown, Lemuel G. (said Brown, Lemuel G., assor. to said), 3,775,926.
Brown, Russell L.; and Brown, Lemuel G., said Brown, Lemuel G., assor. to said Brown, Russell L. Shock absorbing chair rail assembly. 3,775,926, 12-4-73, Cl. 52-717.000.
Brown, Russell L. Ornamental protective rail. 3,777,438, 12-11-73, Cl. 52-173.000.
Brown, Russell R. Compressed air engine. 3,765,180, 10-16-73, Cl. 60-370.000.
Brown, S. G., Limited: *See—*
Adams, John, 3,734,483.
Brown, Samuel E. Crib and table combination. 3,750,198, 8-7-73, Cl. 5-2.000.
Brown, Samuel E., Jr., to Lee, Raymond, Organization, Inc., The. Harmless firework. 3,745,691, 7-17-73, Cl. 42-55.000.
Brown, Scott W.; and Ward, Owen K., to Milestone, Inc. Method and machine for selecting potatoes of given size from massed potatoes of random size. 3,721,345, 3-20-73, Cl. 209-107.000.
Brown, Stanley A. Punch and die assemblies. 3,747,458, 7-24-73, Cl. 83-520.
Brown, Terry D.: *See—*
Wood, Harold V.; and Brown, Terry D., 3,737,484.
Brown, Thelma Burnice. Dumping rate controlling tailgate for a dump vehicle. 3,719,298, 3-6-73, Cl. 214-509.000.
Brown, Theodore G. Game table. 3,715,122, 2-6-73, Cl. 273-136.00z.
Brown, Thomas: *See—*
Abilock, Solomon; Shottenfeld, Richard; and Brown, Thomas, 3,717,771.
Wilbert, Godfrey; and Brown, Thomas, 3,775,227.
Brown, Thomas A.; and Huber, Joseph B., to Kennametal Inc. Forming roll. 3,727,957, 4-17-73, Cl. 287-53.00r.
Brown, Thomas E.: *See—*
Treharne, Richard W.; and Brown, Thomas E., 3,752,747.
Brown, Thomas O.; and Cupit, James H., to Texaco Inc. Synergistic mixture of zinc dialkyldithiophosphate and zinc dialkylphenoxyethyldithiophosphate. 3,720,613, 3-13-73, Cl. 252-32.70c.
Brown Truck and Trailer Manufacturing Company: *See—*
Brown, Joseph L., 3,727,903.
Brown, Verle H. Hydrothermal liquefied petroleum gas vaporization system. 3,724,426, 4-3-73, Cl. 122-33.000.
Brown, Verne R., to Environmental Metrology Corporation. Breath alcohol detector and automotive ignition interlock employing same. 3,780,311, 12-18-73, Cl. 307-10.00r.
Brown, Vernon E., to Teletype Corporation. Bit rate converter. 3,772,653, 11-13-73, Cl. 340-172.500.
Brown, Victor E.; Mora, Raul L.; and Morton, Evans T., to Behring Corporation. Module frames. 3,717,964, 2-27-73, Cl. 52-79.000.
Brown, Victor E.; Mora, Paul L.; and Evans, Morton I., to Behring Corporation. Module frames and method of making same. 3,720,995, 3-20-73, Cl. 29-482.000.
Brown, Wade E.: *See—*
Sears, Bobby Joe; and Brown, Wade E., 3,714,948.
Brown, Wallace H.: *See—*
Gauger, Edward A., Jr.; Brown, Wallace H.; and Gartner, William J., 3,709,169.
Brown, Wayne M.; and Grace, William A., to United Aircraft Corporation. Chamber pressure control using free vortex flow. 3,768,921, 10-30-73, Cl. 415-116.000.
Brown Well Service & Supply Company: *See—*
Brown, Henry C., 3,741,302.
Brown, Wilfred E.: *See—*
Haroules, George G.; and Brown, Wilfred E., 3,737,905.
Brown, William A.; Krolikowski, Walter F.; Maude, Roger F.; Reuter, James L.; and Sandhu, Jagtar S., to Cogar Corporation. Fabrication process for field effect and bipolar transistor devices. 3,756,876, 9-4-73, Cl. 156-17.000.
Brown, William B. Typing error correction system. 3,756,514, 9-4-73, Cl. 239-337.000.



Brown, William Brownloe, to Western Electric Company, Incorporated. Methods of and apparatus for continuously reeling strand material. 3,768,751, 10-30-73, Cl. 242-158.200.
Brown, William C.: *See—*
Massey, Ernst M.; and Brown, William C., 3,717,786.
Brown, William D.; Robertshaw, Thomas L.; and Williams, Garner W., to Janney Cylinder Company. High-strength, centrifugally cast copper-base alloy bearing cage. 3,729,347, 4-24-73, Cl. 148-32.000.
Brown, William D., Jr.; and Gabrielson, Edward M., to United States of America, Navy. High security locking mechanism. 3,744,280, 7-10-73, Cl. 70-54.000.
Brown, William E.; and Gilbert, Edmond E. Apparatus for confining oil spills. 3,708,983, 1-9-73, Cl. 61-1.00f.
Brown, William F. Twin lever radio-telegraph key unit. 3,757,045, 9-4-73, Cl. 178-101.000.
Brown, William Henry. Apparatus for stripping fluid from well pipe. 3,733,641, 5-22-73, Cl. 15-210.00b.
Brown, William M., to Ganz Brothers, Inc., mesne. Shrink pack with easy opening device. 3,747,749, 7-24-73, Cl. 206-65.00c.
Brown, William R. Venturi device. 3,736,797, 6-5-73, Cl. 73-213.000.
Brown, William Ray, to Mallory, P. R., & Co., Inc. Multi-cam timer with clutch means allowing independent cam adjustment and rotation of cam assembly independent of motor. 3,742,159, 6-26-73, Cl. 200-38.00r.
Brown, William W.; Loose, Robert A.; and Vogel, John A., to Westinghouse Electric Corporation. Nuclear reactor loop reactivation system. 3,734,823, 5-22-73, Cl. 176-26.000.
Brownbill, Thomas Duncan, to Dale, John, Limited. Magazine. 3,712,506, 1-23-73, Cl. 221-11.000.
Brownbill, Thomas Duncan, to Dale, John, Limited. Tube dispenser. 3,717,281, 2-20-73, Cl. 221-278.000.
Brownbuilt Limited: *See—*
Greaves, Richard Johnson, 3,724,389.
Browne, Colin L.; and Brodof, Terry A., to Celanese Corporation. Solvent dyeing copolyester fibers. 3,746,507, 7-17-73, Cl. 8-174.000.
Browne, David W.: *See—*
Watkins, Ernest R., Jr.; and Browne, David W., 3,776,990.
Browne, Frederick S.: *See—*
Budzich, Tadeusz; and Browne, Frederick S., 3,746,301.
Browne, John Patrick, to Sandall Precision Company Limited. Fluid control valves. 3,741,237, 6-26-73, Cl. 137-332.000.
Browne Morse Co.: *See—*
Betts, Paul J., 3,752,548.
Brownell, Roy D.; and Rogers, Richard E., to Clark Equipment Company, mesne. Indicator or control for cranes. 3,724,679, 4-3-73, Cl. 212-39.0ms.
Brownell, Roy D.; and Rogers, Richard E., to Clark Equipment Company, mesne. Crane controls. 3,735,876, 5-29-73, Cl. 212-39.00r.
Browning, Edgar Paul; and Madson, Lyle Robert, to Deere & Company. Compact transmission structure. 3,774,460, 11-27-73, Cl. 74-15.840.
Browning Industries, Inc.: *See—*
Browning, Val A., 3,765,302.
Hartog, Thomas J., 3,718,998.
Browning, Myron E.; and Solidum, Hamilton M., to American Chemical & Refining Company, Incorporated. Rhodium plating composition and method for plating rhodium. 3,729,396, 4-24-73, Cl. 204-47.000.
Browning, Val A., to Browning Industries, Inc. Barrel ring and associated structure for autoloading firearms. 3,765,302, 10-16-73, Cl. 89-193.000.
Browning, Vernon D.: *See—*
Kleykamp, Donald L.; Gaster, Ivan; Browning, Vernon D.; and Holden, Homer N., 3,724,507.
Kleykamp, Donald L.; Gaster, Ivan; Browning, Vernon D.; and Holden, Homer N., 3,725,178.
Kleykamp, Donald L.; Gaster, Ivan; Browning, Vernon D.; and Holden, Homer N., 3,779,846.
Browning, William C.; Chesser, Billy G.; and Wood, Jerry L., to Milchem Incorporated. Oil phase drilling fluid additive, composition and process. 3,709,819, 1-9-73, Cl. 252-8.50p.
Browning, William C.; Chesser, Billy G.; and Wood; Jerry L., to Milchem Incorporated. Oil base drilling fluid composition and process. 3,738,934, 6-12-73, Cl. 252-8.50p.
Browning, William C.; and Chesser, Billy G., to Milchem Incorporated. Composition and process for cross-linking macromolecular polysaccharide solutions. 3,753,971, 8-21-73, Cl. 260-124.00r.
Brownlee, John H.: *See—*
Price, Warren R.; and Brownlee, John H., 3,707,748.
Brownlee, Winston E. Fishing device. 3,745,688, 7-17-73, Cl. 43-43.120.
Brownscombe, Philip J., to Dietzgen, Eugene, Co. Step-by-step drive useful in microfiche cameras. 3,733,126, 5-15-73, Cl. 355-54.000.
Brownstein, Arthur M.: *See—*
Hollstein, Elmer J.; and Brownstein, Arthur M., 3,723,436.
Brownstein, Henry J., to Hysan Corporation. Disposable urinal strainer with supporting and positioning means for holding a solid chemical material. 3,760,429, 9-25-73, Cl. 4-109.000.
Broxholm, Thomas M., to Pulsepower Systems, Inc. Lock for a reciprocating mechanism. 3,736,687, 6-5-73, Cl. 42-16.000.
Broxholn, Thomas M.: *See—*
Elmore, Lester C.; and Broxholn, Thomas M., 3,756,763.
Broyhill Furniture Industries: *See—*
Icard, Joseph W., 3,737,034.
Brubaker, Burton D., to Dow Chemical Company, The. Method of preparing fibrous magnesium oxide. 3,711,599, 1-16-73, Cl. 423-638.000.
Brubaker, Robert D.; and Brown, Blanchard W., to Staphex Corporation. Sterilization system for clothes treating machines and method of using. 3,730,682, 5-1-73, Cl. 21-58.000.
Brubaker, Robert F.: *See—*
Fish, Austin D., Fisher, William G.; and Brubaker, Robert F., 3,742,736.
Bruce, Allan L.: *See—*
Bruce, Lester E.; and Bruce, Allan L., 3,746,366.
Bruce, George D.; Davidge, Ronald V.; Fowler, Raymond L.; Hobgood, George W., Jr.; Locklar, Henry C., Jr.; and Cleave, George W., to International Business Machines Corporation. Electrophotographic apparatus with synchronized document illumination and scaning feature. 3,720,465, 3-13-73, Cl. 355-8.000.
Bruce, Lester E.; and Bruce, Allan L. Flexible trailer splash and stone shield. 3,746,366, 7-17-73, Cl. 280-154.50r.
Bruce, Marshall H. Gravity interferometer system. 3,744,909, 7-10-73, Cl. 356-106.000.
Bruce, Peter. Anchors. 3,777,695, 12-11-73, Cl. 114-207.000.
Bruce, Robert A.: *See—*
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Bruce, Roger K.; Marhold, Werner; and Adickes, Cecil F., to Sterigard Corporation. Pressurized container dispensing valve having excessive pressure safety feature. 3,734,125, 5-22-73, Cl. 137-495.000.
Bruce, Roger K.; Marhold, Werner; and Adickes, Cecil F., to Sterigard Corporation. Means for attaching a dispensing valve to a pressurized dispenser with a lock ring. 3,737,077, 6-5-73, Cl. 222-153.000.
Bruce, Roger K.; and Marhold, Werner, to Sterigard Corporation. Apparatus for advancing and retracing a dispenser body to and from a bag applicator. 3,757,651, 9-11-73, Cl. 93-36.000.
Bruce, Roger K., to Sterigard Corporation. Method for obtaining a predetermined and repeatable fill measure in a bag-in-can dispenser. 3,762,023, 10-2-73, Cl. 29-400.000.
Bruce, William F., to American Home Products Corporation. 2,6-Dichlorobenylidenehydrazides. 3,746,703, 7-17-73, Cl. 260-562.00h.
Bruce, William F., to American Home Products Corporation. N-substituted-5,6,7,8-tetrahydro-7-methylnaphtho-(2, 3-D)-1,3-di oxole-5,6-dicarboximides. 3,746,715, 7-17-73, Cl. 260-293.580.
Bruce, William F., to American Home Products Corporation. 2,6-Dichlorobenzaldehyde hydrazones. 3,775,405, 11-27-73, Cl. 260-240.00g.
Bruce-Sanders, James Frederick. Liquid delivery systems. 3,781,534, 12-25-73, Cl. 235-151.340.
Bruch, Walter; and Scholz, Werner, to Licentia Patent-Verwaltungs-G.m.b.H. Radio receiver for single sideband reception. 3,739,282, 6-12-73, Cl. 325-330.000.
Bruch, Walter, to Licentia Patent-Verwaltungs-G.m.b.H. Method for recording a PAL color television signal. 3,742,127, 6-26-73, Cl. 178-5.4cd.
Brucher, Adolf; Gemein, Rudolf; and Holzer, Gerold, to Kraftwerk Union Aktiengesellschaft. Slide and support bearing for rotors of large turbine machines. 3,727,997, 4-17-73, Cl. 308-160.000.
Bruchez, Jeffrey Alan, to Ferranti Limited. Transistors. 3,766,449, 10-16-73, Cl. 317-235.00r.
Bruchon, Paul E.: *See—*
Sherrill, John B.; Bruchon, Paul E.; Phillips, James T.; and Currence, John L., Jr., 3,774,650.
Bruck, George, to Avco Corporation, mesne. Apparatus and method for selectively providing for shifting rotary magnetic heads of tape transport circumferential. 3,775,567, 11-27-73, Cl. 179-100.2ca.
Bruck, Herbert: *See—*
Busch, Josef; Bruck, Herbert; Schranz, Karl-Wilhelm; Schon, Erwin; and Frick, Hans-Dieter, 3,724,355.
Heyl, Gerhard; Luttgens, Gunter; Behr, Rolf; Maus, Fritz; Frenken, Hans; Busch, Josef; Bruck, Herbert; and Schaffer, Helmut, 3,717,791.
Bruck Industries, Inc.: *See—*
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Bruck, Joseph: *See—*
Glass, Marvin I.; Bruck, Joseph; and Race, Andras, 3,735,986.
Bruck, Peter, to Bell & Howell Company. Thermographic method of spirit duplication and transfer sheet for use therein. 3,717,093, 2-20-73, Cl. 101-469.000.
Bruckbauer, Gerald J.; and Corty, Michael E., to PPG Industries, Inc. Curtain coating head. 3,717,121, 2-20-73, Cl. 118-324.000.

Brucken, Byron L., to General Motors Corporation. Electromagnetic spring-wound clutch. 3,735,847, 5-29-73, Cl. 192-35.000.

Brucken, Byron L., to General Motors Corporation. Agitating and spinning drive mechanism for a clothes washer. 3,744,325, 7-10-73, Cl. 74-82.000.

Brucken, Byron L., to General Motors Corporation. Heat motor power unit for domestic waste compactor. 3,771,437, 11-13-73, Cl. 100-52.000.

Brucker, Henry J.; Brucker, Robert J.; and Klausmann, Milton H., to Seal-Spout Corporation. Pouring spout lock. 3,734,361, 5-22-73, Cl. 222-556.000.

Brucker, Robert J.: *See—*
Brucker, Henry J.; Brucker, Robert J.; and Klausmann, Milton H., 3,734,361.

Brucker, Robert J., to Kinedyne Corporation. Ratchet buckle. 3,749,366, 7-31-73, Cl. 254-164.000.

Brucker, William S., to Black and Decker Manufacturing Company, The. Lawn mower safety guard. 3,715,875, 2-13-73, Cl. 56-320.100.

Brucker, William S. Rotary cutting tool. 3,718,958, 3-6-73, Cl. 29-103.00r.

Brucker, William S., to Black and Decker Manufacturing Company, The. Corner shaping tool. 3,733,663, 5-22-73, Cl. 29-78.00r.

Brucker, William S., to Black and Decker Manufacturing Company, The. Trash compactor. 3,736,863, 6-5-73, Cl. 100-45.000.

Bruckert, Eugene J., to Motorola, Inc. Digital pattern detector. 3,760,355, 9-18-73, Cl. 340-146.200.

Bruckmann, Paul-Gunther: *See—*
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Bruckner Apparatebau GmbH: *See—*
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Schuierer, Manfred, 3,727,320.

Bruckner, Hermann; and Emsperger, Werner, to Kraftwerk Union Aktiengesellschaft. Once-through boiler with suspended tube system. 3,744,458, 7-10-73, Cl. 122-6.00a.

Bruckner, James V.; Patrick, William A.; and Yingst, Thomas O., to Polyvend, Inc. Anti-theft means for vending machine modules. 3,757,993, 9-11-73, Cl. 221-80.000.

Bruckner, Kurt; and Bruckner-Apparatebau Michelstadt GmbH. Apparatus for washing, drying and fixing a textile web. 3,750,428, 8-7-73, Cl. 68-3.0ss.

Bruckner, Richard; and Tansky, John L., to Bunker Ramo Corporation, The. Electrical connector for integrated circuit device. 3,771,109, 11-6-73, Cl. 339-174.000.

Bruckner, Ronald L.; and Helmbold, James E., to National Cash Register Company, The. Stepping motor exciter apparatus and method. 3,750,000, 7-31-73, Cl. 318-696.000.

Bruckner, Ronald L.; and Rex, Don P., to National Cash Register Company, The. Trapezoidal waveform generator circuit. 3,772,533, 11-13-73, Cl. 307-261.000.

Bruckner, Rudolf. Machinery table. 3,767,032, 10-23-73, Cl. 198-129.000.

Bruckner-Apparatebau Michelstadt GmbH: *See—*
Bruckner, Kurt; and Bruckner-Apparatebau Michelstadt GmbH, 3,750,428.
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Schuierer, Manfred, 3,745,666.

Bruder, Frank J.; Parham, James F.; and Steuer, Victor F., to Bourns, Inc. Selectable fixed impedance device. 3,745,508, 7-10-73, Cl. 338-320.000.

Bruder, Frank J., to Bourns, Inc. Radio-frequency attenuator. 3,750,078, 7-31-73, Cl. 338-150.000.

Bruder, Werner; and Grieb, Hubert, to Daimler-Benz Aktiengesellschaft. Shift element for gas turbine for shifting between series and parallel operations. 3,730,649, 5-1-73, Cl. 417-408.000.

Bruder, Werner; Grieb, Hubert; and Tiefenbacher, Eberhard, to Daimler-Benz Aktiengesellschaft. Compact multiple-shaft re-expansion gas turbine engine with heat exchangers. 3,747,334, 7-24-73, Cl. 60-39.170.

Bruderer AG: *See—*
Portmann, August Thomas, 3,758,011.
Portmann, August Thomas, 3,765,266.

Bruderer, Hans; and Ruegg, Rudolf, to Hoffmann-La Roche Inc. Amine compounds. 3,775,479, 11-27-73, Cl. 260-566.00a.

Bruderhaus Maschinen G.m.b.H.: *See—*
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Brudette, George W.; and Couch, Dean H., to United States of America, Navy. Method for measuring liquid propellant stability. 3,739,626, 6-29-73, Cl. 73-16.000.

Brudi Equipment Inc.: *See—*
Brudi, Ronald A.; and Hamlik, Jerry P., 3,757,977.

Brudi, Ronald A.; and Hamlik, Jerry P., to Brudi Equipment Inc. Tote pan handler attachment for lift trucks. 3,757,977, 9-11-73, Cl. 214-620.000.

Brudy, Otto H.: *See—*
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Brudy, Peter E.; and Brudy, Otto H. Intake manifold fuel system. 3,735,744, 5-29-73, Cl. 123-141.000.

Brudy, Peter E., to Aqua Marine Mfg. Limited. Convertible top interconnection. 3,774,959, 11-27-73, Cl. 296-121.000.

Brudy, Peter E.; and Smith, John. Emergency warning lamp. 3,781,538, 12-25-73, Cl. 240-49.000.

Brudz, Vitaly Grigorievich; Pronyakin, Nikolai Nikolaevich; Bljum, Grigory Zakharovich; Khainson, Sarrya Isaakovna; Vinogradov, Gennady Georgievich; Tuganova, Muza Konstantinova; and Vasilieva, Julia Vladimirovna. Purification of titanium tetrachloride fro concomitant impurities. 3,729,540, 4-24-73, Cl. 423-76.000.

Brueck, Chris Marion. Drill tool adapter. 3,727,258, 4-17-73, Cl. 15-93.00r.

Bruels, Ewald: *See—*
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Bruels, John F., to Basic Electronics, Inc. Terminal plug construction. 3,760,338, 9-18-73, Cl. 339-196.00m.

Bruemmer, Joseph H.: *See—*
Baker, Robert A.; and Bruemmer, Joseph H., 3,754,932.

Bruen, Charles P.: *See—*
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Bruen, Charles P.; and Wamser, Christian A., to Allied Chemical Corporation. Method of recovering chromium and barium values from waste barium chromate. 3,728,273, 4-17-73, Cl. 252-182.000.

Bruen, Robert W.: *See—*
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Seitz, Lamont J.; and Bruen, Robert W., 3,751,341.

Bruene, Warren B., to Collins Radio Company. Transmitter combiner having coupled tuned circuits. 3,735,289, 5-22-73, Cl. 333-5.000.

Bruene, Warren B., to Collins Radio Company. Digital method and means for frequency shift keying. 3,761,625, 9-25-73, Cl. 178-66.00a.

Bruenner, Rolf S.: *See—*
Stammler, Manfred; Schmidt, Willfred G.; and Bruenner, Rolf S., 3,779,822.

Bruestle, Andrew W. Automatic loader for cartons. 3,776,324, 12-4-73, Cl. 177-116.000.

Brugarolas, Antonio; and Elias, Elias G., to Elias & Brugarolas. General purpose surgical drain. 3,753,439, 8-21-73, Cl. 128-350.00r.

Brugess, James F.: *See—*
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Brugess Vibrocrafters Inc.: *See—*
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Bruggeman, Frans, to N.V. Bekaert S.A. Animal rearing cages. 3,721,213, 3-20-73, Cl. 119-17.000.

Bruggeman, Frans, to N.V. Bekaert S.A. Fencing. 3,740,023, 6-19-73, Cl. 256-24.000.

Bruggemann, Hans; and Kulzer, Rudolf, to Pohlig-Heckel-Bleichert Vereinigte Maschinenfabriken Aktiengesellschaft. Arrangement for automatically testing the grip of gripping jaw means of cablecars on a tension cable. 3,714,904, 2-6-73, Cl. 104-202.000.

Brugger, Donald J.; and Hagenbuch, Barry R. Photographic bleach compositions. 3,770,437, 11-6-73, Cl. 96-60.00r.

Brugger, Emil. Slide rule for payroll use. 3,717,298, 2-20-73, Cl. 235-70.00r.

Brugger, Franz: *See—*
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Brugger, Joseph A.: *See—*
Padjen, George; Helman, Robert W.; and Brugger, Joseph A., 3,738,312.
Padjen, George; and Brugger, Joseph A., 3,743,535.
Padjen, George; Helman, Robert W.; and Brugger, Joseph A., 3,779,056.

Brugin, Kermit H. Grain circulating system. 3,766,664, 10-23-73, Cl. 34-182.000.

Brugler, Joseph S., to United States of America, Navy. Target center television tracking system. 3,730,277, 5-1-73, Cl. 178-6.800.

Bruhn, Max R. C., Jr., to Grand Haven Stamped Products Company. Adjustable linkage. 3,765,264, 10-16-73, Cl. 74-512.000.

Bruhn, Max R. C., Jr., to Grand Haven Stamped Products Company. Gear shift mechanism. 3,774,469, 11-27-73, Cl. 74-476.000.

Bruinshorst, Berend Theodorus Jan; and Van Kessel, Theodorus Jozef, to U.S. Philips Corporation. Filter for use in a carrier-wave measuring system. 3,781,697, 12-25-73, Cl. 328-167.000.

Bruinsma, Anne Hendrik, to U.S. Philips Corporation. Switching apparatus for selectively and sequentially operating two rows of lamps with lock-out means therebetween. 3,710,379, 1-9-73, Cl. 340-379.000.

Bruinsma, Anne Hendrik, to U.S. Philips Corporation. Control circuit for varying and for colour and black-and-white gradations in colour and monochrome television. 3,737,564, 6-5-73, Cl. 178-5.40r.

Bruinsma, Anne Hendrik, to U.S. Philips Corporation. Circuit arrangement for producing an unambiguous marker in a television. 3,748,377, 7-24-73, Cl. 178-5.40r.

Bruinsma, Bote Gosse; and Shuffler, Eustace Cosmo, to Dominion Engineering Works, Limited. Sound generator. 3,768,437, 10-30-73, Cl. 116-137.00a.





Bruker-Physik AG: *See—*
Haas, Joerg Philipp, 3,781,735.
Haas, Jorg, 3,776,057.
Ratzel, Dieter, 3,725,772.

Brukovsky, Igor Pavlovich; Yakovlev, Pavel Borisovich; Gutterman, Kirill Davidovich; Perov, Alexandr Vasilievich; Hukov, Vladimir Fedorovich; Nekrasova, Larisa Petrovna; and Ivanovsky, Jury Dmitrievich. Device for automatically controlling electrical conditions of an electron beam unit. 3,758,816, 9-11-73, Cl. 315-137.000.

Brumbaugh, Allen D.; and Mumford, Stanford A., to United States of America, Army. Continuous aerosol concentrator. 3,731,464, 5-8-73, Cl. 55-270.000.

Brumbaugh, Allen D., to United States of America, Army. Automated selective wash method and apparatus. 3,760,630, 9-25-73, Cl. 73-28.000.

Brumbaugh, Philip A.: *See—*
Bonner, Gilbert B.; and Brumbaugh, Philip A., 3,758,012.

Brumbaugh, Philip A.; and Harrington, Richard H., to International Business Machines Corporation. Carriage indexing mechanism. 3,739,899, 6-19-73, Cl. 197-82.000.

Brumberger Co., Inc.: *See—*
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Brumfield, Robert C.: *See—*
Brumfield, Robert C.; and Hooper, Alton V. (said Hooper, Alton V., assor. to said), 3,768,977.

Brumfield, Robert C. Compressible disposable filter press for blood. 3,747,769, 7-24-73, Cl. 210-350.000.

Brumfield, Robert C. Blood oxygenator in combination with a low pressure heat exchanger. 3,764,271, 10-9-73, Cl. 23-258.500.

Brumfield, Robert C.; and Hooper, Alton V., said Hooper, Alton V., assor. to said Brumfield, Robert C. Integral blood oxygenator and heat exchanger. 3,768,977, 10-30-73, Cl. 23-258.500.

Brumfield, Robert C. Blood oxygenator and thermoregulator apparatus. 3,769,162, 10-30-73, Cl. 195-1.800.

Brumfield, Robert C. Blood oxygenator flow guide. 3,769,163, 10-30-73, Cl. 195-1.800.

Brumfield, Robert C.; and Simmons, Edward E., to Williams Harvey Research Corporation. Manually flexible blood filter. 3,770,129, 11-6-73, Cl. 210-232.000.

Brumfield, Robert C. Two-phase fluid flow guide for blood oxygenator. 3,770,384, 11-6-73, Cl. 23-258.500.

Brumfield, Robert C. Blood transport membrane pump. 3,771,658, 11-13-73, Cl. 210-186.000.

Brumfield, Robert C. Pulsator pump and heat exchanger for blood. 3,771,899, 11-13-73, Cl. 415-90.000.

Brumley, Charles E. Dispenser. 3,743,135, 7-3-73, Cl. 221-205.000.

Brumlik, George C. Gripping fastening surface. 3,710,425, 1-16-73, Cl. 24-204.000.

Brumm, Douglas B., to Battelle Development Corporation, The. Method of copying holograms. 3,758,186, 9-11-73, Cl. 350-3.500.

Brumm, Karl; Moos, Jakob; Weber, Jorg; Drott, Helmut; and Stelzig, Russelsheim, to General Motors Corporation. Transmission modulator valve control. 3,738,197, 6-12-73, Cl. 74-865.000.

Brumm, Karl; and Lamprecht, Rudolf, to General Motors Corporation. Headlamp cleaner arrangements. 3,775,803, 12-4-73, Cl. 15-250.290.

Brumm, Richard S., to Walworth Company. Rotary valve pressure regulating system. 3,730,214, 5-1-73, Cl. 137-487.000.

Brummer, Josef, to Heberlein & Co., AG. Twist tube for a false-twist device. 3,778,991, 12-18-73, Cl. 57-77.300.

Brummer, Samuel B.: *See—*
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Brummet, Paul L.; and Isley, Sigmund G., to Amerel Company, Inc. Intra-factory system and method for utilizing powered and free conveyor systems. 3,734,027, 5-22-73, Cl. 104-172.00s.

Brumwell, Terence Jack, to Spear & Jackson (Ashberry) Limited. Cutlery and flatware. 3,742,602, 7-3-73, Cl. 30-340.000.

Brun, Andre George: *See—*
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Brunborg, Ivar: *See—*
Falkum, Einar; and Brunborg, Ivar, 3,759,696.

Brundage, Clinton F.: *See—*
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Brune, Gerhard: *See—*
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Bruneau, Alain, to Societe ALPIA. Drawing-board protractor unit. 3,758,953, 9-18-73, Cl. 33-79.00r.

Bruneau, Henri; Langner, Gerhard; and Tournerc, Marcel Joseph, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Supporting structure for the blades of turbomachines. 3,708,242, 1-2-73, Cl. 415-217.000.

Bruneau, Louis O., to Polaroid Corporation. Photograhpic cassette loading. 3,733,679, 5-22-73, Cl. 29-431.000.

Bruneau, Louis O., to Polaroid Corporation. Method of manufacturing self-developing photographic film units. 3,752,723, 8-14-73, Cl. 156-157.000.

Brunel, Francis J.; and Diacont, George P., to AMF Incorporated. Armhole felling machine. 3,757,712, 9-11-73, Cl. 112-132.000.

Brunelle, Lawrence J., to Olin Corporation. Caseless pellet igniting mechanism. 3,777,382, 12-11-73, Cl. 42-1.00r.

Brunelle, Thomas E.: *See—*
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Bruner, James D.: *See—*
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Bruner, James N.; and McAuliff, Dan, to Sangamo Electric Company. Remote meter reading system for KWH watthour meters and demand meters. 3,747,068, 7-17-73, Cl. 340-151.000.

Bruner, James N., to Sangamo Electric Company. Remote meter reading system employing semipassive transponders. 3,754,250, 8-21-73, Cl. 343-6.51c.

Bruner, Weston G.; Pearson, Johnnie L.; Reeder, George C., Jr.; Gaheen, Alfred F., Jr.; Green, Elberson D.; and Hughes, Robert B., to Westinghouse Electric Corporation. Cooperative radar system. 3,713,149, 1-23-73, Cl. 343-7.00a.

Brunet, Jacques, to La Cellophane. Gold tooling process and laminate therefor. 3,753,850, 8-21-73, Cl. 161-214.000.

Brunette, Samuel J. Multiple-use tool. 3,742,533, 7-3-73, Cl 7-1.00g.

Brunetti, Heimo: *See—*
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Muller, Helmut; Rosenberger, Siegfrid; and Brunetti, Heimo, 3,734,885.

Brunetti, Heimo, to Ciba-Geigy Corporation. 4-Hydroxy-2,6-di-tert.alkylphenylcyanates. 3,763,206, 10-2-73, Cl. 260-453.0ar.

Brunetti, Heimo. Triazine derivatives as antioxidants. 3,775,411, 11-27-73, Cl. 260-248.0cs.

Brunetz, Nickolas; and Haskell, Robert A., to Aerojet-General Corporation. Sterilization of nitroparaffin-amine explosives. 3,746,588, 7-17-73, Cl. 149-89.000.

Brunhart, Werner; and Hardman, Wendell G., to Varian Associates. Spewing shield for planar triode tubes. 3,761,759, 9-25-73, Cl. 313-326.000.

Brunie, Jean-Claude; and Crenne, Noel, to Rhone-Poulenc S.A. Manufacture of epoxy compounds by reaction of olefins with hydroperoxides and borate esters in situ. 3,708,506, 1-2-73, Cl. 260-348.501.

Brunic, Jean-Claude; and Crenne, Noel, to Rhone-Poulenc S.A. Preparation of epoxide compounds by epoxidizing olefins with preformed organoperoxyboron compounds. 3,716,563, 2-13-73, Cl. 260-348.0sl.

Brunie, Jean-Claude; Costantini, Michel; Crenne, Noel; and Jouffret, Michel, to Rhone-Poulenc S.A. Process for obtaining 6-hexanaloic acid. 3,719,706, 3-6-73, Cl. 260-533.00c.

Brunie, Jean-Claude; Costantini, Michel; Crenne, Noel; and Jouffret, Michel, to Rhone-Poulenc S.A. 6-Hydroperoxyhexanoic acid preparation. 3,726,916, 4-10-73, Cl. 260-531.00r.

Brunie, Jean-Claude; Costantini, Michel; Crenne, Noel; and Jouffret, Michel, to Rhone-Poulenc S.A. Process for preparing adipic acid. 3,726,917, 4-10-73, Cl. 260-533.00c.

Brunie, Jean-Claude; Constantini, Michel; Crenne, Noel; and Jouffret, Michel, to Rhone-Poulenc S.A. Preparation of aromatic aldehydes and the corresponding alcohols. 3,751,480, 8-7-73, Cl. 260-599.000.

Brunie, Jean-Claude; Costantini, Michel; Crenne, Noel; and Jouffret, Michel, to Rhone-Poulenc S.A. Process for producing ϵ-hydroxycaproic acid. 3,772,375, 11-13-73, Cl. 260-533.00c.

Bruning, Armin M.: *See—*
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Bruning, Harry F., Jr.; and Blowers, William L., to Kollmorgen Corporation. Electronic measuring instrument with digital display scale extension. 3,714,569, 1-30-73, Cl. 324-131.000.

Bruning, John Henry; and Herriott, Donald Richard, to Bell Telephone Laboratories, Incorporated. Lens assembly. 3,762,821, 10-2-73, Cl. 356-152.000.

Bruning, Jurgen; Eckert, Hans-Werner; and Heinz, Arnold, to Henkel & Cie G.m.b.H. Liquid softening rinsing agent compositions. 3,729,416, 4-24-73, Cl. 252-8.800.

Bruning, Paul, to Westfalia Separator A.G. Self cleaning centrifuge drum with a piston valve defining one side of the sludge chamber. 3,754,701, 8-28-73, Cl. 233-20.00a.

Bruninga, Kenneth J., to Nelson Irrigation Corporation, mesne. Step-by-step rotary sprinkler head with quick-change and color-coded nozzle insert. 3,779,462, 12-18-73, Cl. 239-230.000.

Brunk, Jack Laurence; and Brosch, Eric Joseph, to Johns-Manville Corporation. Apparatus and method for accelerating strands. 3,771,701, 11-13-73, Cl. 226-1.000.

Brunken, Walter R., to Scientific Tube, Inc., mesne. Tube forming method and apparatus. 3,722,248, 3-27-73, Cl. 72-176.000.

Brunko, Wade D., to United States Steel Corporation. Method of producing quenched and tempered hollow steel structural members of polygonal cross section. 3,779,817, 12-18-73, Cl. 148-12.400.

Brunnee, Curt; and Jenckel, Ludolf, to Varian Mat GmbH. Ion source for vaporing and ionizing solid substances. 3,758,777, 9-11-73, Cl. 250-425.000.

Brunner, Fred William, to Mannings, Inc. Pancake-making machine. 3,718,487, 2-27-73, Cl. 99-353.000.

Brunner, Fred William, to Manning's Inc. Food cooking apparatus. 3,761,290, 9-25-73, Cl. 99-330.000.

Brunner, Gerald F., to Towmotor Corporation. Fluid clutch housing. 3,768,613, 10-30-73, Cl. 192-113.00b.

Brunner, Hans A., to Reynolds Metals Company. Pressure welding apparatus. 3,762,623, 10-2-73, Cl. 228-3.000.

Brunner, Julius, to Siemens Aktiengesellschaft. Brushless D.C. motor having permanent magnet rotor and Hall effect commutation including speed control responsive to winding voltage. 3,716,769, 2-13-73, Cl. 318-254.000.

Brunner, Julius; and Kuhnlein, Hans, to Siemens Aktiengesellschaft. Brushless DC motor having a permanent magnetic rotor and a stator winding comprising a plurality of component windings. 3,757,185, 9-4-73, Cl. 318-254.000.

Brunner, Mathias, to Zumbach Electronic-Automatic. Method and apparatus for balancing an apparatus used for measuring the thickness of layers. 3,757,208, 9-4-73, Cl. 324-34.0tk.

Brunner, Rudolf. Single-joint front jaw of a safety binding for skis having vertically adjustable hold-down arms. 3,711,107, 1-16-73, Cl. 280-11.35t.

Brunnert, Otto; and Schierl, Hans, to Siemens Aktiengesellschaft. Electroacoustic transducer. 3,708,702, 1-2-73, Cl. 310-8.200.

Brunnett, Carl J.; and Toannou, Basil N., to Picker Corporation. Automatic calibration system for a scintillation device. 3,732,420, 5-8-73, Cl. 250-71.500.

Brunnett, Carl J.; and Ioannou, Basil N., to Picker Corporation. Automatic dot factor system for a scintillation device and method of operation. 3,769,508, 10-30-73, Cl. 250-369.000.

Brunnett, Carl J.; and Ioannou, Basil N., to Picker Corporation. Automatic limit switch system for a scintillation device and method of operation. 3,777,145, 12-4-73, Cl. 250-303.000.

Brunnett, Carl J.; and Ioannou, Basil N., to Picker Corporation. Information density system for scintillation device and method of operation. 3,777,146, 12-4-73, Cl. 250-369.000.

Brunnmueller, Friedrich: *See*—
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Bruno, August Joseph: *See*—
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Bruno, C., & Son, Inc.: *See*—
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Bruno, Edward C., to Manetti, Mario. Latticed produce wrapper. 3,762,629, 10-2-73, Cl. 229-87.00f.

Bruno, Edward C. Container cover and method of affixing same. 3,768,230, 10-30-73, Cl. 53-38.000.

Bruno, Edward C., to Manetti, Mario. Nestable net produce bag and carrier therefor. 3,768,643, 10-30-73, Cl. 206-65.00k.

Bruno, Frederick H.; Camp, Raymond J.; and Farrell, Thomas H., to Eastman Kodak Company. Web transport apparatus. 3,710,703, 1-16-73, Cl. 95-94.00r.

Bruno, Juan F.; and Rietras, Richard E. Patient turning apparatus. 3,775,781, 12-4-73, Cl. 5-61.000.

Bruno, Leonard, to Stanadyne, Inc. Pulsating spray head. 3,734,410, 5-22-73, Cl. 239-102.000.

Bruno, Leonard, to Shore Plastics, Inc. Tamper-proof bottle closure. 3,739,934, 6-19-73, Cl. 215-9.000.

Bruno, Marshall J.: *See*—
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Bruno, Marshall J.; Jarrett, Noel; and Slaugenhaupt, Burl L., to Aluminum Company of America. Treatment of molten aluminum with an impeller. 3,767,382, 10-23-73, Cl. 75-68.00r.

Bruno, Michael. Luggage rollers. 3,754,773, 8-28-73, Cl. 280-47.13r.

Brunone, Peter P., to Veeder Industries, Inc. Fluid dispensing apparatus preselector system. 3,737,017, 6-5-73, Cl. 194-13.000.

Brunot, William Turner, mesne: *See*—
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Bruns, Carl Newton, to Stauffer Chemical Company, mesne. Silicone rubber composition yielding a structural ash on combustion. 3,772,239, 11-13-73, Cl. 260-37.0sb.

Bruns, Eilert F.: *See*—
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Bruns, Enno: *See*—
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Bruns, Wesley W. Adjustable retractable auger hopper. 3,729,087, 4-24-73, Cl. 198-122.000.

Brunsch, Klaus, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Fiber reinforced plastic laminate construction of an airfoil wing type member. 3,713,753, 1-30-73, Cl. 416-226.000.

Brunsell, Paul A., to Flume Stabilization Systems, Inc. Quick-dump free-surface stabilizer. 3,771,485, 11-13-73, Cl. 114-125.000.

Brunson, Glenn S.; Curran, Robert N.; and Just, Franklin H., to United States of America, Atomic Energy Commission. Digital subtraction device. 3,725,688, 4-3-73, Cl. 235-176.000.

Brunson, Glenn S.; Curran, Robert N.; and Just, Franklin H., to United States of America, Atomic Energy Commission. Counter for radiation monitoring. 3,732,422, 5-8-73, Cl. 250-83.30r.

Brunstetter, Frank H., to Invention Services Corporation. Camera holster. 3,762,616, 10-2-73, Cl. 224-26.00r.

Brunswick Corporation: *See*—
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Brunswick Corporation, mesne: *See*—
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Brusa, Ugo. Continuous steel casting apparatus. 3,750,742, 8-7-73, Cl. 164-276.000.

Brusa, Ugo. Ingotting machine. 3,765,473, 10-16-73, Cl. 164-325.000.

Brusacoram, Albert V. All terrain vehicle. 3,760,763, 9-25-73, Cl. 115-1.00r.

Brusaglino, Giampiero, to Fiat Societa per Azioni. Battery powered electric traction system. 3,736,482, 5-29-73, Cl. 318-338.000.

Brusakov, Jury Ivanovich; Livshits, Irma Solomonovna; Kiselev, Vasily Pavlovich; Cheltsov, Vasily Mikhailovich; Avdeev, Mikhail Pavlovich; Marin, Semen Panteleevich; Alivoivodich, Miro Khristoforovich; Kulikov, Alexei Kuzmich; Berezhnoi, Ivan Arkhipovich; olpin, Pavel Ilich; Chernyakhovsky, Leonid Vladimirovich; Eltsova, Zoya Vasilievna; Medvedeva, Lidia Nikolaevna; and Kolomitsky, Fedor Mifodievich. Method of refining aluminium-silicon alloys. 3,775,092, 11-27-73, Cl. 75-68.00a.

Brusca, Donald R.: *See*—
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Brush, R. John H.; and Singleback, George W., to General Electric Company. Tint control circuit using phase splitter. 3,715,479, 2-6-73, Cl. 178-5.4he.

Brush, Robert W., to Bendix Corporation, The. Rack and panel connector assembly. 3,755,771, 8-28-73, Cl. 339-64.00r.

Brush Wellman Inc.: *See*—
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Bruson, Herman A.; and Gould, Henry, to Milchem Incorporated. Detergent builder composition. 3,729,432, 4-24-73, Cl. 252-545.000.

Bruson, Herman A.; and Gould, Henry, to Milchem Incorporated. Detergent builder composition. 3,763,231, 10-2-73, Cl. 260-537.00r.

Bruson, Herman A.; and Gould, Henry, to Milchem Incorporated. Detergent builder. 3,767,598, 10-23-73, Cl. 252-545.000.

Bruson, Herman A.; and Plant, Howard L., to Olin Corporation. Halomethyl substituted derivatives of dihalophenylcyclopropane. 3,780,117, 12-18-73, Cl. 260-650.00r.

Brusov, Lev Petrovich; Vasilevsky, Dmitry Pavlovich; Dorokhov, Vasily Ivanovich; and Onoprienko, Vasily Petrovich. Method of thermal and chemical treatment of finely-divided materials. 3,735,969, 5-29-73, Cl. 266-24.000.

Brust, David Philip; and Kane, Grace Eileen, to Eastman Kodak Company. Photographic hydrophilic colloids and method of coating. 3,767,410, 10-23-73, Cl. 96-94.000.

Brutanza Engineering, Inc.: *See*—
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Bruton, William A.: *See*—
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Brutschin, Gerhard: *See*—
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Bruun & Sorensen A/S: *See*—
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Bruun, Kai. Furniture wheels. 3,758,918, 9-18-73, Cl. 16-44.000.

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Bruzzese, Tiberio; and Ferrari, Rodolfo, to SPA-Societa Prodotti Antibiotici S.p.A. Partricin. 3,773,925, 11-20-73, Cl. 424-122.000.

Bruzzese, Tiberio; and Ferrari, Rodolfo. Partricin methyl ester. 3,780,173, 12-18-73, Cl. 424-122.000.

Bryan, Anthony G., to Motorola, Inc. Compensated crosspoint switching system. 3,735,057, 5-22-73, Cl. 179-186.00f.

Bryan, Carl E., to Grocers Baking Company. Lifting platform. 3,776,402, 12-4-73, Cl. 214-75.00t.

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Bryan, Eugene L.: *See*—
Maxey, Carl; Montague, Grant R.; Leyde, Warren L.; and Bryan, Eugene L., 3,760,667.

Bryan, George D., Jr.; and Costantino, Nicholas, to Reynolds Metals Company. Method and apparatus for transfer ring articles. 3,712,023, 1-23-73, Cl. 53-307.000.

Bryan, George D., Jr.; and Constantino, Nicholas, to Reynolds Metals Company. Method and apparatus for covering open ended container bodies. 3,720,038, 3-13-73, Cl. 53-39.000.

Bryan, Graham W.; and Green, David T., to United States Surgical Corporation. Instrument for ligating suturing and dividing organic tubular structures. 3,735,762, 5-29-73, Cl. 128-305.000.

Bryan, James W. Dispensing container. 3,760,985, 9-25-73, Cl. 222-136.000.

Bryan, James W. Automatic liquid dispenser for flush tanks and the like. 3,778,850, 12-18-73, Cl. 4-227.000.

Bryan, John F., Jr., to Trakwork Equipment Company. Track welding system. 3,726,232, 4-10-73, Cl. 104-15.000.

Bryan, John F., Jr. Traction increasing system. 3,741,269, 6-26-73, Cl. 152-208.000.

Bryan, John F., Jr. Spike driving system. 3,753,404, 8-21-73, Cl. 104-17.00r.

Bryan, John F., Jr. Spike positioning system. 3,753,405, 8-21-73, Cl. 104-17.00r.

Bryan, Roland J., Jr.: *See*—
Martin, Donald H.; Holmer, Donald A.; Durant, Dennis J.; Bryan, Roland J., Jr.; Saunders, James H.; and Black, William B., 3,719,547.

Bryan, William P., Jr.: *See*—
Toews, Vern J.; and Wigle, Harold E., 3,707,806.

Bryan, William R.: *See*—
Ali, Wahid R.; and Bryan, William R., 3,764,569.

Bryan, William R.; and De Verteuil, George F., to Texaco Trinidad, Inc. N-paraffin adsorption with a 20 to 55% overcharge. 3,753,896, 8-21-73, Cl. 208-310.000.

Bryan, William S.; and Johnson, Joseph H., to Communications Transistor Corporation. R.F. power transistor. 3,742,319, 6-26-73, Cl. 317-235.00r.

Bryans, Alexander Connor: *See*—
Blair, Lawrence William; and Bryans, Alexander Connor, 3,719,430.

Bryant, Charles E. Mobile home skirting. 3,722,156, 3-27-73, Cl. 52-169.000.

Bryant, Charles Harry. Fishing bobber. 3,753,309, 8-21-73, Cl. 43-17.500.

Bryant, Ellis H., Jr.: *See*—
Smith, Leary W.; and Bryant, Ellis H., Jr., 3,767,864.

Bryant, Emerson C.: *See*—
Mallory, Edwin E.; and Bryant, Emerson C., 3,776,802.

Bryant, Everette Tyler, Jr., to C/P Corporation. Antenna bracket. 3,761,939, 9-25-73, Cl. 343-809.000.

Bryant, Gladys. Composite indefinitely reusable decorative candle. 3,741,711, 6-26-73, Cl. 431-125.000.

Bryant Grinder Corporation: *See*—
Schroeder, Roger L., 3,719,931.

Bryant, Herbert William: *See*—
Austin, Thomas Charles; and Bryant, Herbert William, 3,746,898.

Bryant, Herbert William, to Bell Telephone Laboratories, Incorporated. Electroacoustic transducer having improved transducing element supporting means. 3,731,124, 5-1-73, Cl. 310-9.400.

Bryant, Herbert William, to Bell Telephone Laboratories, Incorporated. Electroacoustic transducer resistant to external mechanical vibrations. 3,732,446, 5-8-73, Cl. 310-9.400.

Bryant, Herman G., Jr.: *See*—
Norman, Vello; Bryant, Herman G., Jr.; and Williams, Thomas Blair, 3,720,214.

Bryant, Jack A.; and Thomson, Elihu Craig, to Electronics Corporation of America. Sensing apparatus. 3,777,165, 12-4-73, Cl. 250-555.000.

Bryant, Jack R.: *See*—
Susolak, Robert J.; and Bryant, Jack R., 3,733,171.

Bryant, Jack R., to Electronic Memories and Magnetics Corporation. Magnetic core forming apparatus. 3,728,054, 4-17-73, Cl. 425-78.000.

Bryant, James G., to Bryant-Poff, Inc. Self-cleaning metal trap for rubbish shredding machines. 3,759,452, 9-18-73, Cl. 241-82.000.

Bryant, John A.; Horne, Orion P.; and Hullikin, Edwin L., Jr., to Texas Gas Transmission Corporation. Electronic telemetering calibrator. 3,742,472, 6-26-73, Cl. 340-177.0ca.

Bryant, John C.: *See*—
Aurich, Christoph W.; Bryant, John C.; and Riley, James R., 3,709,248.

Bryant, John C.; Turner, James Keith; Riley, James R.; and Aurich, Christoph W., to Gaston County Dyeing Machine Company. Means for feeding flowable particulate material. 3,720,241, 3-13-73, Cl. 141-25.000.

Bryant Manufacturing Pty. Limited: *See*—
Bryant, Stanley, 3,711,813.

Bryant, Ozro, to Westinghouse Electric Corporation. Extraction control system for a turbogenerator set. 3,724,214, 4-3-73, Cl. 60-73.000.

Bryant, Richard W.; and Tu, George K., to Cogar Corporation. Temperature compensation for logic circuits. 3,716,722, 2-13-73, Cl. 307-215.000.

Bryant, Richard W.; and Tu, George K., to Cogar Corporation. ECL-to-TTL converter. 3,766,406, 10-16-73, Cl. 307-203.000.

Bryant, Robert. Metered water faucet. 3,762,440, 10-2-73, Cl. 137-551.000.

Bryant, Robert G.: *See*—
Neunherz, Herbert W.; and Bryant, Robert G., 3,760,434.

Bryant, Sherman G. Plastic minnow. 3,748,774, 7-31-73, Cl. 43-42.100.

Bryant, Spurgeon Q.; and Keith, Samuel S. Service reminder apparatus. 3,776,177, 12-4-73, Cl. 116-133.000.

Bryant, Stanley, to Bryant Manufacturing Pty. Limited. Plug and socket connector for electric circuits. 3,711,813, 1-16-73, Cl. 334-44.00m.

Bryant, Tommy L. Apparatus for laying pipe. 3,713,301, 1-30-73, Cl. 61-72.600.

Bryant, Walter M.: *See*—
Babcock, Guy L.; Bryant, Walter M.; Neugebauer, Constantine A.; and Brugess, James F., 3,766,634.

Bryant, William G., to Park-Ohio Industries, Inc. Apparatus for setting the air gap between an inductor and a valve seat. 3,716,690, 2-13-73, Cl. 219-10.770.

Bryant-Poff, Inc.: *See*—
Bryant, James G., 3,759,452.

Bryantseva, Irina Sergeevna: *See*—
Nametkin, Nikolai Sergeevich; Durgarian, Sergei Garievich; Kopkov, Vadim Ivanovich; Khotimsky, Valery Samuilovich; Bryantseva, Irina Sergeevna; Petrov, Gennady Nikolaevich; Tolstopyatov, Gennady Mikhailovich; Stadnichuk, Tatyana Validimirovna; Kornilova, Ttyana Alexeevna; and Shoikhet, Anna Berkovna, 3,769,266.

Bryce, Laurence Miller, to British Steel Corporation. Arc ignition by seeded gas. 3,730,961, 5-1-73, Cl. 13-9.000.

Bryce, William Dean, to United Kingdom of Great Britain and Northern Ireland, Minister of Aviation Supply in Her Britannic Majesty's Government of the. Combustion systems. 3,726,087, 4-10-73, Cl. 60-39.650.

Bryce-Smith, Derek; and Blues, Ernest Thomson. Recording material containing cluster silver compounds. 3,726,687, 4-10-73, Cl. 96-114.600.

Bryce-Smith, Derek; and Blues, Ernest Thomson. Copper-containing compounds. 3,776,931, 12-4-73, Cl. 260-438.100.

Bryce-Smith, Derek; and Blues, Ernest Thomson. Silver ketenide and preparation thereof. 3,781,317, 12-25-73, Cl. 260-430.000.

Brych, Alfred: *See*—
Jammet, Jean-Firmin; and Brych, Alfred, 3,740,271.

Brychta, Ondrej; and Charnley, Christopher John. Logic gates. 3,768,521, 10-30-73, Cl. 137-832.000.

Brycki, Wladyslaw. Suction cleaning apparatus. 3,720,977, 3-20-73, Cl. 15-321.000.

Brydolf, Robert; and Kellems, Kenneth K., to Ace General Corporation. Sliding door corner connector. 3,750,337, 8-7-73, Cl. 49-411.000.

Brydon, Donald Lithgow, to Imperial Chemical Industries Limited. Process for making halogenated polyarylene-1,3,4-oxadiazoles. 3,775,382, 11-27-73, Cl. 260-78.40r.

Brydoy, Sverre; and Sletsjoe, Aage. Vessel for the removal of oil on water. 3,737,040, 6-5-73, Cl. 210-206.000.

Bryk, Petri Baldur; Honkasalo, Jorma Bruno; Malmstrom, Rolf Einar; Makipirtti, Simo Antero; Toivanen, Toivo Adrian; and Aaltonen, Olavi August, to Outokumpu Oy. Method of producing iron-poor nickel sulphide matte from sulphidic nickel concentrates in suspesion smelting thereof. 3,754,891, 8-28-73, Cl. 75-23.000.

Bryla, Theodore N.: *See*—
Poulin, Clyde J.; and Bryla, Theodore N., 3,740,277.

Bryll, Erwin: *See*—
Blakeslee, Thomas R.; and Bryll, Erwin, 3,709,615.

Brymer, Andrew Ellsworth, Jr., to Owens-Illinois, Inc. Falling gob deviation indicator. 3,764,289, 10-9-73, Cl. 65-304.000.

Brymill Corporation: *See*—
Bryne, Michael D., 3,712,306.
Bryne, Michael D., 3,731,690.

Bryne, Michael D., to Brymill Corporation. Cryogenic application chamber and method. 3,712,306, 1-23-73, Cl. 128-303.100.

Bryne, Michael D., to Brymill Corporation. Venting cryosurgical instrument. 3,731,690, 5-8-73, Cl. 128-303.100.

Bryner, Renald F., Jr.: *See*—
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Brynge, Per Gunnar: *See*—
Blomberg, Folke Ivar; and Brynge, Per Gunnar, 3,751,921.

Brynjegard, Olaf G. Astrological time corrector. 3,751,830, 8-14-73, Cl. 35-44.000.

Brynk, George, to A.R.F. Products, Incorporated. Acoustic locator with array of microphones. 3,736,557, 5-29-73, Cl. 340-16.00r.

Brynko, Carl, to Reprographic Materials, Inc. Toner composition containing preformed carbon black core and process of making same. 3,745,118, 7-10-73, Cl. 252-62.100.

Bryon, Kelvin J.: *See*—
Saunders, Frederick C.; Bryon, Kelvin J.; and Griffiths, Brian J., 3,712,868.

Bryson, Charles E., Jr.; and Barton, Gary I., to Emerson Electric Co. Electric heaters. 3,736,405, 5-29-73, Cl. 219-210.000.

Bryson, Harry Ray. Golf swing training device. 3,767,204, 10-23-73, Cl. 273-183.00b.

Bryson, James D.: *See*—
Kahle, Rolf D.; Studey, David K.; and Bryson, James D., 3,746,444.

Bryson, Millard C.; Stauffer, Harry C.; and Torkos, Thomas M., to Gulf Research & Development Company. Lube oil hydrotreating process. 3,761,388, 9-25-73, Cl. 208-59.000.

Bryson, Millard C.; Mc Kinncy, Joel D.; Titmus, Robert A.; and White, Frederick K., to Gulf Research & Development Company. Gasoline prepared from cracking residual oil. 3,775,287, 11-27-73, Cl. 208-17.000.

Bryson, Millard C.; McKinney, Joel D.; Titmus, Robert A.; and White, Frederick K., to Gulf Research & Development Company. Process for cracking hydrocarbons containing hydrodesulfurized residual oil. 3,781,197, 12-25-73, Cl. 208-120.000.

Bryson, Neil Burton, to Alcan Research and Development Limited. Direct chill casting of ingots. 3,713,479, 1-30-73, Cl. 164-89.000.

Bryson, Robert A.; Kennicott, Thomas C.; and Sarring, Ernest J., to Harris-Intertype Corporation. Book trimming machine. 3,733,947, 5-22-73, Cl. 83-280.000.

Bryzinsky, Frank M.: *See*—
Grazen, Frank S.; Buike, Melvin L.; and Bryzinsky, Frank M., 3,767,612.
Grazen, Frank S.; Buike, Melvin E.; and Bryzinsky, Frank M., 3,781,241.

Brzezinski, Janusz. Digital readout instrument employing transducer and double D.C. power supply. 3,765,244, 10-16-73, Cl. 73-362.0ar.

Brzezinski, Kazimierz J., to American Metal Climax, Inc. Building wall construction. 3,769,775, 11-6-73, Cl. 52-731.000.

Brzoska, Edmund: *See*—
Kobylinski, Lech; Krezelewski, Mieczyslaw; Brzoska, Edmund; and Krenicki, Witold, 3,709,180.

Brzoska, Leonard M. Tool for applying suspension clamps to power lines. 3,726,160, 4-10-73, Cl. 81-3.0cp.

Brzostek, Richard, to Woodward Governor Company. Signal conversion circuit. 3,742,252, 6-26-73, Cl. 307-246.000.

Brzozowski, Stanley F.; Farmer, Alonzo; and Pefferman, William C., to PPG Industries, Inc. Process for treating by-product titanium tetrachloride from pyrogenic $TiO_2$ production. 3,760,071, 9-18-73, Cl. 423-613.000.

Brzozowski, Stephen Joseph; and Polkinghorn, Melvin William, to International Telephone and Telegraph Corporation. Safe disconnect electric socket. 3,710,047, 1-9-73, Cl. 200-51.100.

Brzozowski, Zdzislaw; Angielski, Stefan; and Wojcikowski, Czeslaw. 2-Pyrazoline-1-carboxamide sulfonamide derivatives. 3,780,058, 12-18-73, Cl. 260-310.00d.

Brzuszek, Emil J.: *See*—
Brzuszek, John T.; and Brzuszek, Emil J., 3,742,192.

Brzuszek, John T.; and Brzuszek, Emil J. Electrical heating device and method. 3,742,192, 6-26-73, Cl. 219-553.000.

Bschorer, Konrad, to Friedrich Deckel Aktiengesellschaft. Gear motor or pump. 3,724,975, 4-3-73, Cl. 418-10.000.

BSR Limited: *See*—
Evans, Philip Henry; and Lane, Norman, 3,773,332.

BTI Ltd.: *See*—
Beacham, Walter Gary, 3,728,489.

BTM Corporation: *See*—
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BTR Industries, Limited: *See*—
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Cameron, James Brisbane; Walton-Knight, Bernard Piet; Bartoo, Otto Floris; and Molijn, Joannes Cornelius, 3,778,882.
Goward, Stanley Harold; and Gooddard, Michael Robert, 3,768,844.
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Olive-Jones, Michael William; and Randall, Douglas Raymond, 3,768,298.

BTR "Pamukotex": *See*—
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BTU Engineering Corporation: *See*—
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Bubak, John: *See*—
Rusch, Allan C.; and Bubak, John, 3,757,525.

Buben, David: *See*—
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Buben, David; and Aldridge, Clyde L., to Esso Research and Engineering Company. Process for the production of a carbon monoxide containing gas. 3,758,673, 9-11-73, Cl. 423-415.000.

Bubley, Henry J.: *See*—
Green, Melvin E.; Oltra, Claude H.; and Bubley, Henry J., 3,741,116.

Bubley, Henry J.; and Oltra, Claude H., to American Screen Process Equipment Company. Glider press. 3,731,623, 5-8-73, Cl. 101-114.000.

Bublitz, Donald E.: *See*—
Kurihara, Norman H.; and Bublitz, Donald E., 3,761,475.

Bubula, Thomas J., to Caterpillar Tractor Company. Fluidic motion limiting system for motor driven apparatus. 3,732,892, 5-15-73, Cl. 137-609.000.

Bubula, Thomas J.; and Lohbauer, Kenneth R., to Caterpillar Tractor Company. Fluid motor control circuit with overspeed limiting means. 3,750,690, 8-7-73, Cl. 137-106.000.

Buc, Karl Heinz; Draber, Wilfried; Hammann, Ingeborg; and Unterstenhofer, Gunter, to Farbenfabriken Bayer Aktiengesellschaft. Combating arthropods with N-acyl-1,2-dicarbonyl-phenylhydrazones. 3,729,562, 4-24-73, Cl. 424-304.000.

Bucalo, Brian D. Toilet paper roll having a cleansing composition. 3,734,277, 5-22-73, Cl. 206-58.000.

Bucalo, Louis, to Investors In Ventures, Inc. Vas valve. 3,707,957, 1-2-73, Cl. 128-1.00r.

Bucalo, Louis, to Kinemotive Corporation. Assemblies of precision-fitted relatively movable components and method for manufacturing the same. 3,712,338, 1-23-73, Cl. 137-625.410.

Bucalo, Louis, to Investors In Ventures, Inc. Devices for controlling fluid flow in living creatures. 3,742,933, 7-3-73, Cl. 128-1.00r.

Bucalo, Louis, to Investors In Ventures, Inc. Method and device for reversibly interrupting fluid flow in a living being. 3,777,737, 12-11-73, Cl. 128-1.00r.

Bucaram, Salim M.; and Mortimer, Alfred L., to Atlantic Richfield Company. Paraffin deposition inhibition in oil. 3,722,592, 3-27-73, Cl. 166-304.000.

Buccafuri, Anthony F.: *See*—
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Bucci, Roberto: *See*—
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Buccicone, Velio S., to Bucciconi Engineering Co., Inc. Sheet piling machine. 3,711,087, 1-16-73, Cl. 271-86.000.

Buccicone, Velio S., to Bucciconi Engineering Co., Inc. Scissors-type hoist mechanism. 3,727,780, 4-17-73, Cl. 214-95.00r.

Bucciconi Engineering Co., Inc.: *See*—
Buccicone, Velio S., 3,711,087.
Buccicone, Velio S., 3,727,780.

Bucciero, Henry R.: *See*—
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Bucciferro, Dominic: *See*—
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Houbolt, Neal; and Bucciferro, Dominic, 3,763,487.

Buce, Walter F., to Phillips Petroleum Company. Method for restricting fluid pathways through a subterranean formation zone. 3,771,599, 11-13-73, Cl. 166-295.000.

Bucelluni, Guido, to Lee-Norse Company. Apparatus for holding a rotary tool. 3,756,669, 9-4-73, Cl. 308-3.900.

Buch, Roman; and Kocsis, Louis L., to Zenith Radio Corporation. DC level restoring circuit. 3,737,793, 6-5-73, Cl. 330-11.000.

Buchacher, Ernest Robert, to Hawker Siddeley Canada Ltd. Chipping knives for chipping head assemblies. 3,750,726, 8-7-73, Cl. 144-240.000.

Buchalter, Gilbert. Cane or crutch tip. 3,731,698, 5-8-73, Cl. 135-62.000.

Buchamann, Fred J.: *See*—
Eberly, Paul E., Jr.; Cull, Neville L.; and Buchamann, Fred J., 3,758,600.

Buchan, Norman S.; and Dias, Gil M., to United States of America, Army. Water and oil-resistant, antistatic and abrasion resistant finish for nylon fabrics. 3,736,177, 5-29-73, Cl. 117-138.80n.

Buchan, William A.; and Elliott, Richard J., to Century Data Systems, Inc. Temperature compensation for positioning system. 3,757,189, 9-4-73, Cl. 318-634.000.

Buchan, William Arthur; and Ring, John Joseph, to Century Data Systems, Inc. Accoustical tape loop sensor. 3,771,114, 11-6-73, Cl. 340-1.00r.

Buchan, William R., to Itek Corporation. Integrated electro-optic analyzer. 3,713,723, 1-30-73, Cl. 350-150.000.

Buchanan, Alan David, to Monsanto Australia Limited. Production of para-substituted phenol/formaldehyde resins using heterogeneous multi-phase reaction medium. 3,763,104, 10-2-73, Cl. 260-53.00r.

Buchanan, Ben B.; and Cottle, John E., to Phillips Petroleum Company. Recovery of microbial polysaccharides. 3,773,752, 11-20-73, Cl. 260-209.00r.

Buchanan, Carl S.: *See*—
Kleist, Dale; and Buchanan, Carl S., 3,759,680.

Buchanan, Chester L., to United States of America, Navy. Lens protective system for deep sea camera. 3,733,981, 5-22-73, Cl. 95-11.0uw.

Buchanan, Dwight D. Holder for tape dispensers. 3,727,868, 4-17-73, Cl. 248-309.000.

Buchanan, Earl H.: *See*—
Gaughan, Gerald E.; Buchanan, Earl H.; and Thompson, Emil W., 3,760,731.

Buchanan, Edward R.; and Tarshis, Lemuel A., to General Electric Company. Precipitation hardenable ferritic iron-chromium-titanium alloys. 3,746,586, 7-17-73, Cl. 148-37.000.

Buchanan Electrical Products Corporation: *See*—
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Waddington, William T., 3,735,448.

Buchanan, Harry Charles, Jr., to General Motors Corporation. Windshield wiping apparatus. 3,729,766, 5-1-73, Cl. 15-250.210.

Buchanan, James A., to United States of America, Atomic Energy Commission. Multi-microprogrammed input-output processor. 3,766,526, 10-16-73, Cl. 340-172.500.

Buchanan, James B., to Du Pont de Nemours, E. I., and Company. Substituted O-carbamylhydroxamates. 3,726,908, 4-10-73, Cl. 260-453.00r.

Buchanan, James B., to Du Pont de Nemours, E. I., and Company. 1-(Alkyleneiminocarbonyl)-N-(substituted carbamoyloxy)-thioformimidates. 3,763,143, 10-2-73, Cl. 260-239.00e.

Buchanan, James E.: *See*—
Avellar, Karl B.; Buchanan, James E.; and Higgins, Edward R., 3,720,866.

Buchanan, John Brown: *See*—
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Buchanan, Melvin L.: *See*—
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Buchanan, Robert A.; Tecotzky, Melvin; and Wickersheim, Kenneth A., to Lockheed Aircraft Corporation. Rare earth phosphors for X-ray conversion screens. 3,725,704, 4-3-73, Cl. 250-71.00r.

Buchanan, Russell A.; and Russell, Charles R., to United States of America, Agriculture. Powdered resorcinol-formaldehyde treated polysaccharide-reinforced elastomer masterbatches, compounds, and resulting vulcanized rubbers. 3,714,087, 1-30-73, Cl. 260-17200.

Buchanan, William Michaux; and Madures, John W., to Morris, Philip, Incorporated. Method for expanding tobacco stems. 3,734,104, 5-22-73, Cl. 131-140.00p.

Buchbinder, Albert J.: *See*—
Buchbinder, Robert I.; and Buchbinder, Albert J., 3,779,379.

Buchbinder, Robert I.; and Buchbinder, Albert J., to Devco Management, Inc., mesne. Automatic corrugated waste picker. 3,779,379, 12-18-73, Cl. 209-102.000.

Buchel, Karl Heinz: *See*—
Draber, Wilfried; Buchel, Karl Heinz; and Plempel, Manfred, 3,737,548.
Draber, Wilfried; Timmler, Helmut; Buchel, Karl Heinz; and Plempel, Manfred, 3,778,447.
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Buchel, Karl Heinz; Grewe, Ferdinand; Scheinpflug, Hans; Kaspers, Helmut; and Regel, Erik, to Farbenfabriken Bayer Aktiengesellschaft. N-trityl-imidazolium salt. 3,711,502, 1-16-73, Cl. 260-309.000.

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Buchel, Karl Heinz; Regel, Erich; and Plempel, Mandred, to Farbenfabriken Bayer Aktiengesellschaft. 1-(p-Chloro-m-nitrophenyl-diphenyl-methyl)-imidazole as an antifungal agent. 3,720,770, 3-13-73, Cl. 424-273.000.

Buchel, Karl Heinz; Grewe, Ferdinand; and Kospers, Helmut, to Farbenfabriken Bayer Aktiengesellschaft. Fungicidal composition and methods of pilling fungi using 1-trityl-1,2 4-treazoles. 3,723,622, 3-27-73, Cl. 424-269.000.

Buchel, Karl Heinz; Meiser, Werner; Plempel, Manfred; and Metzger, Carl, to Farbenfabriken Bayer Aktiengesellschaft. Phenyl-imidazolyl-acetic or propionic acid derivatives. 3,732,242, 5-8-73, Cl. 260-309.000.

Buchel, Karl Heinz; Hammann, Ingeborg; Unterstenhofer, Gunter; and Grewe, Ferdinand, to Bayer Aktiengesellschaft. N-acyl-dicyanocarbonyl-phenyl-hydrazones as arthropodicides and fungicides. 3,755,600, 8-28-73, Cl. 424-304.000.

Buchel, Karl Heinz; Grewe, Ferdinand; Frohberger, Paul Ernst; and Kaspers, Helmut, to Bayer Aktiengesellschaft. Fungicidal compositions and method of combating fungi using N-acyl-para-dialkylaminophenyl-hydrazones. 3,760,078, 9-18-73, Cl. 424-267.000.

Buchel, Karl-Heinz: *See*—
Draber, Wilfried; Regel, Erik; Buchel, Karl-Heinz; and Plempel, Manfred, 3,709,901.
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Regel, Erik; and Buchel, Karl-Heinz, 3,772,315.
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Buchheim, Wayne J.; and Bonds, Wilford D., to GAF Corporation. Latex composition. 3,756,974, 9-4-73, Cl. 260-29.700.

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Buchheit, Joseph J., to Reply-O-Letter Company, Inc. Mailing form with integral reply envelope attached. 3,722,787, 3-27-73, Cl. 229-92.300.

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Buchhold, Theodor Adam, to Sperry Rand Corporation Ford Instrument Company. Half-wave bridge type magnetic amplifier. 3,739,291, 6-12-73, Cl. 330-8.000.

Buchholtz, Charles M.: *See—*
Post, Gerald; and Buchholtz, Charles M., 3,753,420.

Buchholz, Bernard: *See—*
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Buchholz, Bernard, to Pennwalt Corporation. Polymeric tin mercaptide stabilizers for vinyl halide polymers. 3,767,614, 10-23-73, Cl. 260-45.75k.

Buchholz, Bernard, to Pennwalt Corporation. Cycloaliphatic sulfides for stabilizing polyolefins. 3,772,246, 11-13-73, Cl. 260-45.95r.

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Buchholz, Hugh L.; and Hays, Jerry L. Cableway. 3,710,726, 1-16-73, Cl. 104-112.000.

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Buchholz, Robert T. Crane overloading protective system. 3,713,129, 1-23-73, Cl. 340-267.00c.

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Buchi, Nils Harje: *See—*
Bergstrom, Lars Jonas; Buchi, Nils Harje; Hultman, Erik Helmer; Josephson, Bertil August; Vinnars, Erik; Dahlinder, David Georg; and Furst, Peter, 3,764,703.

Buchinski, Joseph J.; and Zenuk, Charles H., to Texas Instruments, Incorporated. Method for making stainless steel-aluminum composite material. 3,740,828, 6-26-73, Cl. 29-470.100.

Buchler Instruments Division, Nuclear-Chicago Corporation: *See—*
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Buchman, Carl S.: *See—*
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Buchmann, Cordelia Atkeson: *See—*
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Buchmann, Johannes Walter: *See—*
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Buchmeier, Heinz. Turret for assembly on a machine tool as a machining unit. 3,760,655, 9-25-73, Cl. 74-826.000.

Buchmuller, Josef; and Hartlieb, Otto, to Deere & Company. Draft link sway limiting device. 3,721,302, 3-20-73, Cl. 172-450.000.

Buchner, Norman E. Spring resistant type exercising device. 3,761,083, 9-25-73, Cl. 272-83.004.

Buchner, Robert Bertold, to U.S. Philips Corporation. Telecommunication system. 3,729,592, 4-24-73, Cl. 179-18.0fc.

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Bucholtz, Glen E.; and Doyle, James N., to Globe Tool and Engineering Company, The. Wire guide apparatus. 3,713,598, 1-30-73, Cl. 242-7.05b.

Buchstaller, Anton, to Dornier AG. Arrangement of jet lift engines in aircraft. 3,724,785, 4-3-73, Cl. 244-55.000.

Buchstaller, Anton, to Dornier A.G. Combination gyroplane. 3,771,924, 11-13-73, Cl. 416-121.000.

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Buchtel, Dean H.; Lappin, Kenneth R.; and Maurer, John A., to Weber Dental Manufacturing Company, The. Dental handpiece drip control system. 3,718,974, 3-6-73, Cl. 32-22.000.

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Buchtel, Dean H., 22 1/2% to Dye, Robert C., 22 1/2% to Buchtel, Frank L., 22 1/2% to Kehoe, Harold H. and 10% to Oldham, Edwin W. Dispenser bottle with hanging strap. 3,768,684, 10-30-73, Cl. 215-100.00r.

Buchtel, Frank L.: *See—*
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Buchtel, Michael E. Liquid control device. 3,771,420, 11-13-73, Cl. 91-49.000.

Buchwald, Fritz; and Pienkny, Dieter, to International Standard Electric Corporation. Pneumatic tube system with stand-by blower. 3,751,184, 8-7-73, Cl. 417-4.000.

Buchwald, Henry: *See—*
Blackshear, Perry J.; Dorman, Frank D.; Blackshear, Perry L., Jr.; Buchwald, Henry; and Varco, Richard L., 3,731,681.

Buchwald, Joachim: *See—*
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Buchwald, Robert M., to General Motors Corporation. Headlamp cleaner. 3,708,822, 1-9-73, Cl. 15-250.030.

Buchwald, Robert M., to General Motors Corporation. Engine accessory arrangement. 3,730,147, 5-1-73, Cl. 123-41.440.

Buchwald, Robert M. Vehicle height adjusting suspension arrangement. 3,781,033, 12-25-73, Cl. 280-124.00r.

Buck, Charles E.; and Thornburgh, William F., to General Motors Corporation. Ignition timing and throttle position control. 3,742,785, 7-3-73, Cl. 74-860.000.

Buck, Charles E., to General Motors Corporation. Three position solenoid idle stop. 3,757,611, 9-11-73, Cl. 74-860.000.

Buck, Charles Edward; and Sheaffer, Victor Earl, to Colgate-Palmolive Company. Cleaning compositions and method. 3,736,259, 5-29-73, Cl. 252-89.000.

Buck, Daniel C., to Westinghouse Electric Corporation. Deposited latched junction circulator having magnetic flux return paths. 3,710,280, 1-9-73, Cl. 333-1.100.

Buck, Daniel C., to Westinghouse Electric Corporation. Wideband deflection modulated semiconductor amplifier. 3,732,456, 5-8-73, Cl. 315-3.000.

Buck, Elwood W., Jr.; and Nettmann, Ernst F. Security lock means. 3,768,847, 10-30-73, Cl. 292-179.000.

Buck, Fred H., Jr., to Arrowhead Industries, Inc. Perfume or deodorizer dispenser. 3,724,002, 4-3-73, Cl. 4-222.000.

Buck, Gordon H., to Mattel, Inc. Toy vehicle remote winding apparatus. 3,707,805, 1-2-73, Cl. 46-202.000.

Buck, Gordon H.; and Nolan, Jackie L., to Mattel, Inc. Record playback apparatus. 3,753,568, 8-21-73, Cl. 274-11.00r.

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Buck, Gordon H., to Mattel, Inc. Audible game. 3,779,552, 12-18-73, Cl. 273-88.000.

Buck, Homer G. Rotary die apparatus and process for manufacturing labels or the like. 3,749,626, 7-31-73, Cl. 156-251.000.

Buck, Homer G. Composite pressure sensitive adhesive sheet structure and process of making the same. 3,751,320, 8-7-73, Cl. 156-268.000.

Buck, James R., to Buck Tool Company. Hydraulically actuated tool collet. 3,731,942, 5-8-73, Cl. 279-4.000.

Buck, James R., to Buck Tool Company. Floating tool holder. 3,778,071, 12-11-73, Cl. 279-16.000.

Buck, Jurgen: *See—*
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Buck, Leo V.: *See—*
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Buck, Leo V., to Fedders Corporation. Clothes dryer lint incinerator. 3,710,451, 1-16-73, Cl. 34-79.000.

Buck, Marvin E.: *See—*
Van Middlesworth, Peter Q.; Buck, Marvin E.; and Seemann, Bruce R., 3,745,021.

Buck, Ollie G.; and Hsieh, Henry L., to Phillips Petroleum Company. Curing ABC Terpolymers. 3,772,402, 11-13-73, Cl. 260-830.00r.





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Buck, Richard S. Proportional beverage dispensing apparatus. 3,777,937, 12-11-73, Cl. 222-70.000.

Buck, Robert. Power supply for oscillator circuit of contactless proximity indicator. 3,747,010, 7-17-73, Cl. 331-65.000.

Buck, Robert. Metal detector including proximity-responsive oscillator with feedback-stabilized gain. 3,747,011, 7-17-73, Cl. 331-65.000.

Buck, Robert. Contactless oscillator-type proximity sensor with adjustable hysteresis. 3,747,012, 7-17-73, Cl. 331-65.000.

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Buck, Tom E. Five way kitchen opener. 3,751,743, 8-14-73, Cl. 7-14.600.

Buck Tool Company: *See—*
Buck, James R., 3,731,942.
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Buck, Willard E.: *See—*
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Buck, Willard E.; and Holland, Thomas E., to Technical Operations, Incorporated. Optical raster producing system. 3,758,715, 9-11-73, Cl. 178-7.600.

Buckbee-Mears Company: *See—*
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Frantzen, John J.; and Lund, Charles M., 3,756,898.
Jacobus, Dan, 3,764,485.
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Johnson, E. Curtis; and Hillis, Benjamin F., 3,776,820.
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Glenn, Harry D., 3,771,465.
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Buckholz, Ronald J., to Designed Mailing Accessories, Inc. Stamp applying head. 3,753,836, 8-21-73, Cl. 156-521.000.

Buckhouse , Norman O.: *See—*
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Buckingham, Arthur G., to Westinghouse Electric Corporation. Commandable satellite attitude control apparatus. 3,768,756, 10-30-73, Cl. 244-15.00a.

Buckingham, Robert L.; Herd, Harold H.; and Sun, Theresa I., to International Business Machines Corporation. Method and apparatus for mixing fluids. 3,764,115, 10-9-73, Cl. 259-24.000.

Buckingham, William T., to Foseco International Limited. Anti-piping composition for the production of metal ingots and castings. 3,728,102, 4-17-73, Cl. 75-94.000.

Buckland, Bruce O., to General Electric Company. Bearing seal and oil tank ventilation system. 3,722,624, 3-27-73, Cl. 184-6.110.

Bucklen, Victor L. Electrically positioned step for vehicles. 3,762,742, 10-2-73, Cl. 280-160.000.

Buckler, Lawrence A., to Canada, Her Majesty the Queen in right of, as represented by the Minister of National Defence. Wave measuring apparatus. 3,769,838, 11-6-73, Cl. 73-170.00a.

Buckler, Robert Thomas; and Strycker, Wallace Glenn, to Miles Laboratories, Inc. Amides of 3-(2-halophenyl-5-tetrazolyl) propionic acids. 3,743,646, 7-3-73, Cl. 260-293.690.

Buckler, Robert Thomas; and Hartzler, Harold Eugene, to Miles Laboratories, Inc. Substituted beta-arylamidoacrylic acids. 3,770,821, 11-6-73, Cl. 260-518.00r.

Buckler, Sheldon A.; Kennedy, David P.; and Norland, Kenneth S., to Polaroid Corporation. Container for film units and flash illumination devices. 3,735,680, 5-29-73, Cl. 95-11.001.

Buckles, John Q. Pruning tool. 3,721,004, 3-20-73, Cl. 30-228.000.

Buckley, David L., to Air Logistics Corporation. Rotary disc having adjustable ice chip cutters. 3,761,133, 9-25-73, Cl. 299-25.000.

Buckley, Francis T.; Riek, Raymond F.; and Christensen, Donald I., to Monsanto Company. Process for production of interlayer safety-glass. 3,718,516, 2-27-73, Cl. 156-106.000.

Buckley, Frederick; Melnyk, George; and Wolfe, Bruce A., to International Business Machines Corporation. Missing type detector. 3,727,075, 4-10-73, Cl. 307-149.000.

Buckley, Norman A., to McGraw-Edison Company. Garment finishing combination. 3,707,855, 1-2-73, Cl. 68-6.000.

Buckley, Norman A., to McGraw-Edison Company. Steam air type garment finisher. 3,727,811, 4-17-73, Cl. 223-70.000.

Buckley, Norman A.; and Rasmussen, Peter D., to McGraw-Edison Company. Steam air cabinet finisher. 3,739,496, 6-19-73, Cl. 34-210.000.

Buckley, Stanley G., to Dunlop Holdings Limited. Air cooled brake assembly. 3,734,247, 5-22-73, Cl. 188-264.00a.

Buckley, William Aidan: *See—*
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Buckley, William R., to Polaroid Corporation. Container device for treating photographic film with a liquid. 3,741,099, 6-26-73, Cl. 95-98.000.

Bucklin, James B.; and Utken, Jay, to Mallory, P. R., & Co., Inc. Fusing resistor. 3,735,318, 5-22-73, Cl. 337-296.000.

Bucklin, Lyston E.: *See—*
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Bucklisheh, Ludwig, to Dynamit Nobel Aktiengesellschaft. Explosive charge with annular ignition gap. 3,736,875, 6-5-73, Cl. 102-24.0hc.

Buckman, John D.; Raths, Fred W.; Boggs, Pamela P.; and Donerson, Robert L., to Buckman Laboratories, Inc. Method of flocculating with tertiary aminohydroxyalkyl esters of carboxylic acid polymers. 3,730,888, 5-1-73, Cl. 210-52.000.

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Buckman, Olof Christian, to Elkem-Spigerverket A/S. Arrangement for measuring the crater voltages in a three-phase electric furnace with electrodes arranged in a delta. 3,757,021, 9-4-73, Cl. 13-120.000.

Buckman, Stanley J.; and Pera, John D., to Buckman Laboratories, Inc. Method of stabilizing polymeric organic compositions with 3',5'-dibromo-2'-hydroxyacetophenone. 3,719,509, 3-6-73, Cl. 106-15.0fp.

Buckman, Stanley J.; Flanagan, Kenneth J.; Pera, John D.; and Wienert, Lester A., to Buckman Laboratories, Inc. Organic esters and their use as ultraviolet light absorbers and as heat stabilizers. 3,733,297, 5-15-73, Cl. 106-178.000.

Buckman, Walter R.: *See—*
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Buckman, Wayne T.: *See—*
Craig, Sam N.; Warner, Ellis R., Jr.; and Buckman, Wayne T., 3,713,595.
Craig, Sam N.; Warner, Ellis R., Jr.; and Buckman, Wayne T., 3,716,197.
Miller, Blaine Monroe, Jr.; Buckman, Wayne T.; and Warner, Ellis R., Jr., 3,780,956.

Buckman, William Gordon; Sutherland, David C.; and Cooke, David W., to United States of America, Health, Education and Welfare. Thermoluminescence of sapphire. 3,728,543, 4-17-73, Cl. 250-71.00r.

Bucknell, Ernest H.: *See—*
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Bucknell, Ernest H.; Rauh, Jack K.; and Radecki, Tony, 3,739,806.

Bucknell, Ernest H.; Rauh, Jack K.; and Radecki, Tony, 10% to Bletcher, Ralph E., 5% to Robertson, Frederick, 5% to Robertson, Gary, 10% to Bucknell, Lenora, 10% to Bletcher, Richard J., 15% to Liston, Marcia, 5% to Liston, Carol A., 5% to Liston, James H. 10% to Brondum, Hazel, 10% to Bletcher, Pearl, 5% to Liston, Marcia, as trustee for Liston, Daniel E. and 10% to Bucknell, Ernest H. Diaphragm spout assembly. 3,739,806, 6-19-73, Cl. 137-359.000.

Bucknell, Lenora: *See—*
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Buckner, Harry F. Insect escapement for screens. 3,770,043, 11-6-73, Cl. 160-16.000.

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Buckner, Morgan D., to Dow Chemical Company, The. Method for the preparation of plastic foam. 3,751,377, 8-7-73, Cl. 260-2.50e.

Bucko, Edward P. Hand held pop tab opener. 3,724,297, 4-3-73, Cl. 81-3.46a.

Bucks, Robert M.; and Ayars, Frederick M., to Autonumerics Corporation. Elapsed time indicator. 3,708,750, 1-2-73, Cl. 324-178.000.

Bucksch, Manfred: *See—*
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Bucksch, Manfred, to ZF-Borg Warner GmbH. Dual hydraulic or pneumatic coupling. 3,744,606, 7-10-73, Cl. 192-87.110.

Buckshaw, Thomas M.; and Rosenberg, David M., to Robertshaw Controls Company. Grounding member for water level control device. 3,761,656, 9-25-73, Cl. 200-83.0wm.

Buckton, Keith Stewart; and Fraser, Ian Rowland, to Esso Research and Engineering Company. Fuel system. 3,759,234, 9-18-73, Cl. 123-136.000.

Buckwalter, Sanford L. Stud bolt puller and inserter. 3,727,491, 4-17-73, Cl. 81-53.200.

Bucky, Peter A. X-ray film cassette. 3,725,703, 4-3-73, Cl. 250-65.00r.

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Bucourt, Robert; Nedelec, Lucien; and Gasc, Jean-Claude, to Roussel-UCLAF. 7α-Methyl-13β-alkyl-17α-hydrocarbyl-17β-oxy-$\Delta^4$ 9,11-gonatrene-3-ones. 3,719,691, 3-6-73, Cl. 260-397.450.

Bucourt, Robert; Nedelec, Lucien; and Gasc, Jean-Claude, to Roussel-UCLAF. Novel process for preparation of optically active keto steroids. 3,720,713, 3-13-73, Cl. 260-559.00h.

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Bucy, Thomas R.; and Bandenburg, Daniel J., to OK Partnership. Document coder. 3,765,669, 10-16-73, Cl. 269-254.00r.

Bucyrus-Erie Company: *See—*
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Buczek, Carl J.; Demaria, Anthony J.; Ferrar, Carl M.; and Wayne, Robert J., to United Aircraft Corporation. Apparatus and method for magnetically scanning an electric discharge gas laser. 3,717,824, 2-20-73, Cl. 331-94.500.

Buczek, Carl J., to United Aircraft Corporation. Magnetic stabilized cross field flowing gas laser. 3,747,015, 7-17-73, Cl. 331-94.500.

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Buczek, Garl J.: *See—*
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Buczynski, John A. Lure saver. 3,762,091, 10-2-73, Cl. 43-17.200.

Budai, Zoltan: *See—*
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Budd, Allan L.: *See—*
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Buddemeyer, Bruce D. Multifunctional emulsification agents. 3,752,770, 8-14-73, Cl. 252-356.000.

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Buddendeck, Gerald A.: *See—*
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Buddendeck, Gerald A.; Hubler, Lawrence C.; Heiler, Paul S.; and Koch, Gilbert E., to Xerox Corporation. Conveying system for electrostatographic printing machines. 3,781,004, 12-25-73, Cl. 271-10.000.

Buddrus, Joachim, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for preparing alkylidene phosphoranes. 3,723,537, 3-27-73, Cl. 260-606.50p.

Buderus'sche Eisenwerke: *See—*
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Budesheim, Heinrich Emil. Device for liberating water of mechanical and chemical impurities contained therein. 3,710,944, 1-16-73, Cl. 210-261.000.

Budge, William W., to Pacific Mariculture, Inc. Method and package for storing and shipping oyster larvae. 3,735,737, 5-29-73, Cl. 119-4.000.

Budge, William W.; and Donald, Malcolm, to Pacific Mariculture, Inc. Oyster growing apparatus and method. 3,779,209, 12-18-73, Cl. 119-4.000.

Budilov, Boris Alexandrovich: *See—*
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Budin, Jean-Pierre; and Roger, Georges, to Compagnie Generale d'Electricite. Optical device for simultaneously measuring the distance and speed of a moving object with respect to a reference. 3,765,768, 10-16-73, Cl. 356-28.000.

Budinger, William D.; and Mc Laughlin, Paul F., to Rodel Inc. Nip pressure measurement. 3,760,637, 9-25-73, Cl. 73-141.00r.

Budizich, Tadeusz, to Weatherhead Company, The. Three slope proportioning valve. 3,771,837, 11-13-73, Cl. 303-6.00c.

Budka, Heinz-Gunter: *See—*
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Budlane, Stanley J., to General Electric Company. Burner ignition system. 3,710,192, 1-9-73, Cl. 317-96.000.

Budlane, Stanley J.; and Stoll, Donald H., to General Electric Company. Switch control. 3,733,571, 5-15-73, Cl. 337-89.000.

Budman, Ronald R. Abrasive cloth cleaner. 3,753,269, 8-21-73, Cl. 15-160.000.

Budmiger, Hermann: *See—*
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Budris, Albert P.; and Carrieri, Louis F., to U.S. Industries, Inc. Workpiece transfer device. 3,719,270, 3-6-73, Cl. 198-219.000.

Budris, Allan R.; and Tokarczyk, Tadeusz A., to Worthington Corporation. Floating debris recovery basket. 3,730,119, 5-1-73, Cl. 114-.50r.

Budrow, Jack C.; and Reed, Glenn A., to Barker Manufacturing Company, Inc. Dual purpose antenna control. 3,739,387, 6-12-73, Cl. 343-714.000.

Budrys, Ignas; and Lee, Ernest O., Jr., to Stromberg-Carlson Corporation. Group hunting circuit. 3,723,659, 3-27-73, Cl. 179-18.0ha.





Budrys, Ignas; Lee, Ernest O., Jr.; and Pharis, William W., to Stromberg-Carlson Corporation. Auxiliary switching system controlled by regular telephone switching system. 3,766,324, 10-16-73, Cl. 179-18.00e.

Budrys, Vitolis: *See—*
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Budszinat, Willy; Erdmann, Otto; and Zausch, Wolfgang, to Hauni-Werke Korber & Co., KG. Method and machine for packaging rod shaped articles. 3,772,848, 11-20-73, Cl. 53-24.000.

Budtolaev, Konstantin Nikolaevich: *See—*
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Budwine, W. J.: *See—*
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Budych, Irvin; Frey, Laverne Lawrence; and Reefman, William Edward, to Bunker Ramo Corporation, The. Vibrator structure and method and apparatus for adjusting the frequency thereof. 3,759,133, 9-18-73, Cl. 84-457.000.

Budzich, Tadeusz, to Weatherhead Company, The. Three slope proportioning valve. 3,721,473, 3-20-73, Cl. 303-6.00c.

Budzich, Tadeusz. Load responsive fluid control valves. 3,744,517, 7-10-73, Cl. 137-596.200.

Budzich, Tadeusz; and Browne, Frederick S., to Weatherhead Company, The. Valve stem friction device. 3,746,301, 7-17-73, Cl. 251-64.000.

Budzinski, David A.; Sorkin, Jack L.; and Charogoff, Clarence, to Addressograph-Multigraph Corporation. Fast-set plastisol ink. 3,760,724, 9-25-73, Cl. 101-426.000.

Budzinski, Roger R., to Park-Ohio Industries, Inc. Induction heating device for ring gears. 3,777,097, 12-4-73, Cl. 219-10.590.

Budzyna, Edward S., to Rockwell International Corporation. Weft carrier guide. 3,779,288, 12-18-73, Cl. 139-122.00r.

Budzyna, Joseph M., to North American Rockwell Corporation. Weft storage device. 3,736,964, 6-5-73, Cl. 139-122.00h.

Budzyna, Joseph M., to North American Rockwell Corporation. Loom picker. 3,738,397, 6-12-73, Cl. 139-159.000.

Budzyna, Joseph M., to North American Rockwell Corporation. Loom picker. 3,754,579, 8-28-73, Cl. 139-159.000.

Buecherl, Erwin, to Siemens Aktiengesellschaft. Transmission separation filter network for electric oscillations. 3,737,813, 6-5-73, Cl. 333-70.00r.

Buechler, Guenter: *See—*
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Buecker, Carl Henry; deceased (by Buecker, Majorie J.; executrix), to Magnavox Company, The. Preset frequency selection system. 3,758,751, 9-11-73, Cl. 235-61.11e.

Buecker, Majorie J.: *See—*
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Buedel, Charles Kenneth, to GTE Automatic Electric Laboratories Incorporated. Digital processing system. 3,729,715, 4-24-73, Cl. 340-172.500.

Buedingen, Robert, to Inmont Corporation. Washing device. 3,747,614, 7-24-73, Cl. 134-109.000.

Buehler, Albert H.: *See—*
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Buehler, Arthur; and De Montmollin, Rene, to Ciba-Geigy AG. Reactive azo compounds acetoacetyl group containing an anthrquinonyl. 3,717,624, 2-20-73, Cl. 260-153.000.

Buehler, Arthur; Schuetz, Hans Ulrich; Maeusezahl, Dieter; Harris, Melvin; and Guth, Christian, to Ciba Limited. Process for improving the crease resistance and the abrasion resistance of a textile material. 3,776,767, 12-4-73, Cl. 117-138.400.

Buehler, Bert E., to Johanson Manufacturing Corporation. Monolithic base metal electrode capacitor. 3,757,177, 9-4-73, Cl. 317-258.000.

Buehler, Edwin J.; and Thurston, Kelly W., to General Motors Corporation. Button valve exhaust gas recirculation system. 3,766,896, 10-23-73, Cl. 123-119.00a.

Buehler, Ernest; Shay, Joseph Leo; and Wernick, Jack Harry, to Bell Telephone Laboratories, Incorporated. Silver-doped cadmium tin phosphide laser. 3,750,046, 7-31-73, Cl. 331-94.50h.

Buehler, Fritz A.: *See—*
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Buehner, Hans-Friedrich, to Siemens Aktiengesellschaft. Rectifier bridge assembly. 3,777,193, 12-4-73, Cl. 310-68.00d.

Bueler, Richard C., to Wagner Electric Corporation. Control valve system. 3,708,211, 1-2-73, Cl. 303-6.00c.

Bueler, Richard C., to Wagner Electric Corporation. Control valve and system. 3,731,981, 5-8-73, Cl. 303-22.00r.

Bueler, Richard C., to Wagner Electric Corporation. Control valve. 3,771,836, 11-13-73, Cl. 303-6.00c.

Bueler, Richard C., to Wagner Electric Corporation. Control valve. 3,776,602, 12-4-73, Cl. 303-6.00c.

Bueler, Richard C., to Wagner Electric Corporation. Control valve. 3,776,603, 12-4-73, Cl. 303-6.00c.

Buell, Bennett George, to American cyanamid Company. 9-Carboxylic naphthoxazoles and plastics brightened therewith. 3,717,652, 2-20-73, Cl. 260-307.00d.

Buell, Donald F., to General Electric Company. Clamp circuit for a color television receiver. 3,729,577, 4-24-73, Cl. 178-5.40r.

Buell, Eugene F.: *See—*
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Buelow, William H.: *See—*
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Buelow, William H.; and Mohrbacker, William J., to Rex Chainbelt Inc. Truck mixer forward support and drive means. 3,756,572, 9-4-73, Cl. 259-177.00a.

Buendia, Jean: *See—*
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Bueno, Aldalberto Costa De Campos. Child's coaster. 3,771,811, 11-13-73, Cl. 280-87.04a.

Buerge, Frank Orville: *See—*
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Buerger, Gert: *See—*
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Buerger, Herbert, to Del-Met Corporation. Wheel trim assembly. 3,746,397, 7-17-73, Cl. 301-37.00r.

Buerger, Herbert. Wheel trim and lock ring assembly. 3,746,398, 7-17-73, Cl. 301-37.00r.

Buerr, Dieter, to Ciba-Geigy AG. 3-Fluoro-4-broma-phenylisocyanate. 3,749,746, 7-31-73, Cl. 260-453.0ar.

Buescher, Theodore H., to Kraftco Corporation. Decorative plate display device. 3,740,016, 6-19-73, Cl. 248-488.000.

Buescher, Wilhelm, to Vendo Company, The. Dual price selective bottled beverage vending apparatus. 3,722,650, 3-27-73, Cl. 194-10.000.

Buescher, William E., to GTE Sylvania Incorporated. Method of improving adherence of emissive material in thermionic cathodes. 3,720,985, 3-20-73, Cl. 29-25.170.

Buescher, William E., to GTE Sylvania Incorporated. Methods of improving adherence of emissive material in thermionic cathodes. 3,722,045, 3-27-73, Cl. 29-25.170.

Buescher, William E.; and Kerstetter, Donald R., to GTE Sylvania Incorporated. Strengthened cathode material and method of making. 3,730,706, 5-1-73, Cl. 75-206.000.

Buese, George J., to Johnson & Johnson. Thermoplastic supportive structure. 3,728,206, 4-17-73, Cl. 161-112.000.

Buese, George J., to Johnson & Johnson. Composite material having cementitious properties. 3,763,858, 10-9-73, Cl. 128-156.000.

Buetow, Ralph William, to Bjorksten, Johan. Purification of low molecular weight enzymes. 3,775,254, 11-27-73, Cl. 195-66.00r.

Buettner, Carl F. Means for accurately measuring and monitoring liquid flows. 3,727,459, 4-17-73, Cl. 73-205.00r.

Buettner, Egon: *See—*
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Buffiere, Jean-Pierre, to L'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Exchange process. 3,749,155, 7-31-73, Cl. 165-1.000.

Buffington, Herman L. Device for mixing gases with liquid. 3,746,323, 7-17-73, Cl. 261-122.000.

Buffington, William B. Portable pipe pick-up, conveying and racking device. 3,774,780, 11-27-73, Cl. 214-2.500.

Buffum, Edmond E. Feeder dish for traveling animals. 3,749,063, 7-31-73, Cl. 119-61.000.

Bufkin, Dale E.; and Murphy, Willard G., to McGraw-Edison Company. Coffee maker basket and filter. 3,718,084, 2-27-73, Cl. 99-312.000.

Bug-Lok Corporation: *See—*
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Kalopissis, Gregoire; Bugaut, Andree; and Estradier, Francoise, 3,730,677.
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Kalopissis, Gregoire; and Bugaut, Andree, 3,749,768.
Kalopissis, Gregoire; Bugaut, Andree; and Estradier, Francoise, 3,758,268.
Kalopissis, Gregoire; and Bugaut, Andree, 3,758,573.

Bugel, Roelof Dirk, to U.S. Philips Corporation. Method of electrically welding a capacitor electrode to the capicator housing. 3,754,113, 8l21-73, Cl. 219-107.000.

Buggs, Ralph N.: *See—*
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Bughholz, Allan C., to Minnesota Mining and Manufacturing Company. Method of forming a backing for metal shells. 3,756,849, 9-4-73, Cl. 117-131.000.

Bugmann, Ernst, to Unilan A.G. Glass-fiber reinforced polyurethane elastomers. 3,730,936, 5-1-73, Cl. 260-37.00n.

Buhayar, Eric S.; Hazard, James E.; Jaagus, John J.; Werner, Fred W.; Wheeler, Robert W.; and Crowe, Robert C., to Scott Paper Company. Method and apparatus for removing objects from continuously moving mandrels. 3,709,349, 1-9-73, Cl. 198-25.000.

Buhayar, Eric S.; Hazard, James E.; Jaagus, John J.; Werner, Fred W.; Wheeler, Robert W.; and Crowe, Robert C., to Scott Paper Company. Separating and feeding containers. 3,756,452, 9-4-73, Cl. 221-1.000.

Buhk, Randall P.: *See—*
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Buhl, Robert E.: *See—*
Bjalme, Bengt G.; and Buhl, Robert E., 3,710,428.

Buhler, Arthur; and Mosimann, Walter, to Ciba-Geigy AG. Process for the production of multi-colour effects on natural and synthetic polyamide fibre material. 3,775,045, 11-27-73, Cl. 8-15.000.

Buhler, Eugen. Apparatus for automatic production and transportation of flaskless sand moulds in metal casting. 3,744,549, 7-10-73, Cl. 164-160.000.

Buhler, Jakob: *See—*
Zenhausern, Anton; and Buhler, Jakob, 3,779,701.

Buhler, Karl; and Floessel, Dieter, to Aktiengesellschaft Brown, Boveri & Cie. Release device for electrical switches. 3,768,052, 10-23-73, Cl. 335-190.000.

Buhler, Otto R.; and Cutter, Joseph T., to International Business Machines Corporation. Exponential predictor and sampled-data systems. 3,758,757, 9-11-73, Cl. 235-150.001.

Buhler, Rato: *See—*
Kloots, Jacobus; and Buhler, Rato, 3,776,614.

Buhler, Warren G.; and Maltesky, Albert, to Oxy-Dry Sprayer Corporation. Anti-offset powder. 3,740,248, 6-19-73, Cl. 117-13.000.

Buhner, Willi, to Heinrich Koppers Gesellschaft mit beschrankter Haftung. Sintering machine. 3,744,778, 7-10-73, Cl. 266-21.000.

Buhner, Willy. Apparatus for continuous dispersion and homogenization of predominantly viscous substances. 3,756,570, 9-4-73, Cl. 259-6.000.

Buhren, Heinz: *See—*
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Buhrer, Erwin: *See—*
Buhrer, Erwin; and Keller, Franz (said Keller assor. to said), 3,730,253.

Buhrer, Erwin; and Alt, Anton, to Fischer, Georg, Aktiengesellschaft. Apparatus for reception and discharge of liquid metal. 3,721,432, 3-20-73, Cl. 266-38.000.

Buhrer, Erwin, to Fischer, Georg, Aktiengesellschaft. Transport system for castings including a swingable, perforated transport bucket. 3,724,659, 4-3-73, Cl. 209-238.000.

Buhrer, Erwin; and Keller, Franz, said Keller assor. to said Buhrer, Erwin. Pattern device for foundry molds. 3,730,253, 5-1-73, Cl. 164-241.000.

Buhrer, Erwin, mesne: *See—*
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Buhrman, Robert P.; and Hensley, Richard D., to Columbia-Great Lakes Corporation. Core assembly. 3,713,601, 1-30-73, Cl. 242-68.600.

Buhrmann, Wayne H.; and Fix, Sidney R., to Goodyear Tire & Rubber Company, The. Cooling system including reinforced hose. 3,779,308, 12-18-73, Cl. 165-51.000.

Buice, Hubert H. Shoe polish dispensing device. 3,716,168, 2-13-73, Cl. 222-146.0he.

Buice, Joel B.; and Schwenker, David G., to General Electric Company. Self-bonding capacitor case insulation. 3,778,683, 12-11-73, Cl. 317-230.000.

Buie, James L.: *See—*
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Buie, James L., to TRW Inc. Process of manufacture of semiconductor product. 3,768,157, 10-30-73, Cl. 29-613.000.

Buike, George W.; and Haboush, William P., II, to Ford Motor Company. Carburetor air/fuel distribution control. 3,754,739, 8-28-73, Cl. 261-50-a.

Buike, Melvin E.: *See—*
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Buike, Melvin L.: *See—*
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Builder, Carl H.; and Sessler, Carl W., to Marquardt Corporation, The. Liquid air engine. 3,775,977, 12-4-73, Cl. 60-260.000.

Builders Brass Works Corporation: *See—*
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Buildex Incorporated: *See—*
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Buissiere, Jean: *See—*
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Buisson, Claude; and Delaunay, Jean-Pierre, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Method and device for forming a stream of material consisting of tangled shreds such as tobacco. 3,719,289, 3-6-73, Cl. 214-17.0ca.

Buisson, Michel; and Durand, Daniel. Polyurethanes prepared from polyhydroxy condensates of isocyanuric acid. 3,719,615, 3-6-73, Cl. 260-2.5aw.

Bujese, David P.: *See—*
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Bujorklund, Gunnar; Borel, Joseph; and Marine, Jean, to Commissariat a l'Energie Atomique. Optical-access memory device for non-destructive reading. 3,739,353, 6-12-73, Cl. 340-173.00r.

Bukatova, Vera Evgenievna: *See—*
Ageev, Vladimir Egorovich; Bukatova, Vera Evgenievna; and Dmitriev, Oleg Alexandrovich, 3,746,941.

Bukhman, Aron Borukhovich; Drovenkov, Evgeny Alexandrovich; Ivaschenko, Felix Alexandrovich; Aizenshtein, Aron Meerovich; and Yanushkevich, Igor Lvovich. Antenna system for VHF and UHF radio direction finders. 3,719,950, 3-6-73, Cl. 343-788.000.

Bukovich, George D.; Vos, LeRoy A.; and Woehler, Gary B., to Sperry Rand Corporation. RHD-Card transportation and positioning. 3,726,519, 4-10-73, Cl. 271-3.000.

Bukowski, Raymond J.; Brija, Raymond L.; and Yanikoski, Florian F., to Motiongraph, Inc. Apparatus for reading pre-programmed cards and printing thereon. 3,718,244, 2-27-73, Cl. 197-127.000.

Bukrinsky, Anatoly Matveevich; Geadkov, Jury Kupriyanovich; Kazakov, Vladimir Abramovich; Maximov, Leonid Pavlovich; Mironov, Viktor Nikolaevich; Khmelnitsky, Vladimir Alexandrovich; and Shabanov, Nikolai Nikolaevich. Device for detecting flaws on nuclear eactor inner surfaces and internals. 3,756,915, 9-4-73, Cl. 176-19.000.

Bulaeva, Svetlana Ivanovna: *See—*
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Bulakh, Georgy Ivanovich; and Vysotsky, Vladimir Alexandrovich. Rig for rotary drilling of holes and shafts. 3,743,037, 7-3-73, Cl. 175-334.000.

Bulanda, John Jean: *See—*
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Caveney, Jack Edward; Moody, Roy Alleyne; and Bulanda, John Jean, 3,778,750.

Bulbenko, George F. Air-curable polythiol polymers. 3,711,450, 1-16-73, Cl. 260-79.000.

Bulbenko, George F.; Sorg, Earl H.; and Gallagher, John P., to Thiokol Chemical Corporation. One-part polythiol compositions containing encapsulated activators. 3,748,313, 7-24-73, Cl. 260-79.000.

Bulcock, Colin Leonard Lucas; and Kenk, Erhard, to Lupton Brothers Limited. Loom temple weft cutter. 3,779,289, 12-18-73, Cl. 139-266.000.

Bulfer, Andrew Frederick; and Tammaru, Enn, to Bell Telephone Laboratories, Incorporated. NAND gate realization of the N-input parity function. 3,718,904, 2-27-73, Cl. 340-146.1ag.

Bulgakov, Petr Lavrentievich: *See—*
Kozheurov, Vsevolod Rodionovich; Berezin, Leonid Georgievich; Safarov, Georgy Samuilovich; and Bulgakov, Petr Lavrentievich, 3,741,280.

Bulian, Walter; and Dittmar, Armin, to Wintershall Aktiengesellschaft. Process for optimum absorption of elemental sulfur from natural gas by the use of mineral oil and similar liquid hydrocarbons. 3,748,827, 7-31-73, Cl. 55-73.000.

Bulin, Kenneth D., to Bucyrus-Erie Company. Dragline fairlead. 3,708,152, 1-2-73, Cl. 254-190.00r.

Bulin, Shelly A., to Case, J. I., Company. Control arm assembly for hinged members. 3,740,791, 6-26-73, Cl. 16-139.000.

Bulin, Shelly A., to Case, J. I., Company. Method of making blower housing assembly. 3,780,411, 12-25-73, Cl. 29-156.40r.

Bulion, Michael Stuart: *See—*
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Bulk Liner Corporation: *See—*
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Bulkley, David D.: *See—*
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Bull, Arthur E. Shrub rake. 3,744,229, 7-10-73, Cl. 56-400.170.

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Calow, John R. B.; Small, Norman J. H.; and Bull, Brian, 3,761,404.

Bull General Electric (Nederland) N.V.: *See—*
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Bull, Hans: *See—*
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Bull, Hans, to Hemscheidt, Hermann, Maschinenfabrik. Hydraulic pit prop. 3,777,619, 12-11-73, Cl. 91-216.00r.

Bull, Ivor Henry, to Westinghouse Brake and Signal Company, Limited. Remote control arrangement. 3,778,813, 12-11-73, Cl. 340-347.0dd.

Bullard, E. D., Company: *See—*
Raschke, Herbert A., 3,720,956.
Raschke, Herbert A., 3,773,080.

Bullard, Edward M., to Mobil Oil Corporation. Blends of polyolefins with isobutene-dipentene copolymer and films therefrom. 3,755,502, 8-28-73, Cl. 260-897.00a.

Bullard, Edward P., III. Drafting machine. 3,714,714, 2-6-73, Cl. 33-80.000.

Bullard, Edward P., III. Drafting head assembly. 3,766,651, 10-23-73, Cl. 33-76.00r.

Bullard, Martin B. Chain saw cutting tooth and method for making it. 3,714,974, 2-6-73, Cl. 83-831.000.

Bullard, Martin Blythe. Soldering apparatus for saw cutting teeth. 3,740,521, 6-19-73, Cl. 219-85.000.

Bullard, Robert L.; and Wheeler, Donald C., to International Business Machines Corporation. Micro-miniature probe assembly. 3,731,191, 5-1-73, Cl. 324-158.00f.

Bullard, Russell H.: *See—*
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Bullard, Russell H., to Singer Company, The, mesne. Coil as mount for associated equipment. 3,759,320, 9-18-73, Cl. 165-122.000.

Bullas, Roy. Automated store system. 3,746,130, 7-17-73, Cl. 186-1.00b.

Buller, Joseph S.: *See—*
Kunimoto, Wallace Y.; and Buller, Joseph S., 3,732,421.

Bullert, Wilbert E.: *See—*
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Bullis, Douglas E.; and Linde, John P., to Remington Arms Company, Inc. Firing pin mechanism for firearms. 3,724,112, 4-3-73, Cl. 42-41.000.

Bullis, Robert H.; and Penney, Albert W., Jr., to United Aircraft Corporation. Transverse gas laser. 3,743,963, 7-3-73, Cl. 331-94.500.

Bullivant, Kenneth W., to K-Tron Corporation. Digital mass flow control system. 3,724,720, 4-3-73, Cl. 222-55.000.

Bullivant, Kenneth W., to K-Tron Corporation. Modular batch weighing control system and method. 3,763,943, 10-9-73, Cl. 177-1.000.

Bullivant, Kenneth W., to R-Tron Corporation. Electronic weight transmitter. 3,773,124, 11-20-73, Cl. 177-210.000.

Bullman, Allan R., to Union Carbide Corporation. Vinyl paste sealant composition. 3,772,237, 11-13-73, Cl. 260-31.80m.

Bullmerwerk Karl Bullmer: *See—*
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Bullock, C. Gordon, Jr. Method of making foam cushions and product formed thereby. 3,719,963, 3-13-73, Cl. 5-351.000.

Bullock, Clifford R.: *See—*
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Bullock, Edward K., to Polaroid Corporation. Ink web cassette for rotary printing system. 3,774,538, 11-27-73, Cl. 101-336.000.

Bullock, Frederick C., to Hercules Incorporated. Process for manufacturing resin-filament composites. 3,770,539, 11-6-73, Cl. 156-155.000.

Bullock, Greg Alan, to Du Pont de Nemours, E. I., and Company. Quinazolindne fungicides. 3,755,582, 8-28-73, Cl. 424-251.000.

Bullock, Oakle P. Environmental air control unit. 3,752,226, 8-14-73, Cl. 165-59.000.

Bullock, Ronald E., to General Dynamics Corporation. Structural shapes having improved physical properties. 3,755,060, 8-28-73, Cl. 161-143.000.

Bullough, Vaughn Lynn, to Reynolds Metals Company. Aluminum-silicon alloying process. 3,765,878, 10-16-73, Cl. 75-148.000.

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Bulso, Joseph D., Jr.: *See—*
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Bulson, Douglas W., to General Tire & Rubber Company, The. Embossing roll with integral cooling means. 3,752,227, 8-14-73, Cl. 165-89.000.

Bultemann, Hans-Joachim, to Varian Mat GmbH. Method for production of a diffusion membrane arrangement. 3,717,525, 2-20-73, Cl. 156-77.000.

Bulten, Eric Jan, to Cosan Chemical Corporation, mesne. Preparation of methyltin compounds. 3,754,012, 8-21-73, Cl. 260-429.700.

Bulten-Kanthal Aktiebolag: *See—*
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Bulygin, Nikolai Vladimirovich; Vinogradov, Evgeny Alexandrovich; Gugel, Lev Genrikhovich; Dianov, Evgeny Mikhailovich; and Irisova, Natalia Alexandrovna. Open-type resonator. 3,728,640, 4-17-73, Cl. 331-94.500.

Bumb, Frank C., Jr. Tape guide and magnetic head-pressure pad spacer. 3,777,070, 12-4-73, Cl. 179-100.20z.

Bumerl, Milan, to Vedecky lesnicky ustav Vysoke skoly zemedelske v Praze. Electrode for barking of timber by electric current. 3,754,584, 8-28-73, Cl. 144-208.00r.

Bumm, Hellmut; Thummler, Fritz; and Weimar, Peter, to Gesellschaft fur Kernforschung mbH. Method of making cermets of high static and dynamical strength. 3,712,809, 1-23-73, Cl. 75-206.000.

Bump, Edward L.: *See—*
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Bumpas, Orville C. Organic garbage treatment receptacle. 3,708,085, 1-2-73, Cl. 220-18.000.

Bunce, Michael Kelly; Bush, Stanley Edward; Fargo, George Arthur, Jr.; and Saltus, George Edwin, to Bell Telephone Laboratories, Incorporated. Group switching arrangement for key telephone systems. 3,723,654, 3-27-73, Cl. 179-2.0tv.

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Bunch, Earnest B., Jr. Folder for business forms. 3,711,085, 1-16-73, Cl. 270-79.000.

Bunch, Robert E., to Zenith Manufacturing Inc. Motor driven centrifugal pump. 3,752,603, 8-14-73, Cl. 417-424.000.

Bunchak, William G.; and Krizek, Reynold J., to Westinghouse Air Brake Company. Mine haulage vehicle. 3,720,278, 3-13-73, Cl. 180-24.000.

Bundrant, Charles O.; Hainebach, Charles R.; and Mayo, Frank H., to Champion Chemicals, Inc. Well treating fluid and methods. 3,712,862, 1-23-73, Cl. 252-8.55e.

Bundrant, Charles O.; and Heinebach, Charles R., to Champion Chemicals, Inc. Well treating fluid and corrosion inhibitor. 3,712,863, 1-23-73, Cl. 252-8.55e.

Bundschuh, John J. Two frames per second defeat mechanism. 3,750,921, 8-7-73, Cl. 226-62.000.

Bundschuh, John J.; and Roman, Robert J., to Eastman Kodak Company. Cinematographic projectors or the like and cartridges for use therewith. 3,750,976, 8-7-73, Cl. 242-192.000.

Bundy, Gordon L., to Upjohn Company, The. 15-Methyl and 15-ethyl prostaglandin analogs. 3,728,382, 4-17-73, Cl. 260-514.00d.

Bundy, Gordon L., to Upjohn Company, The. Silylated prostaglandins and process therefor. 3,770,788, 11-6-73, Cl. 260-448.80r.

Bundy, Larry P., to Thiokol Chemical Corporation. Stabilized propellant compositions and methods for their preparation. 3,728,171, 4-17-73, Cl. 149-19.000.

Bundy, Patrick L., to Michigan Carton Co. Flat foldable carton having a supported intermediate tray. 3,768,720, 10-30-73, Cl. 229-15.000.

Bunger, David A., to Baldwin, D. H., Company. Multi-tone arpeggio system for electronic organ. 3,718,748, 2-27-73, Cl. 84-1.240.

Bunger, Franz; and Lehmann, Karl-Heinz, to Brown, Boveri & Cie Aktiengesellschaft. Protective circuit for electric motors. 3,753,070, 8-14-73, Cl. 318-472.000.

Bunger, Heinrich; and Renckhoff, Gustav, to Dynamit Nobel Aktiengesellschaft. Oxidation-and low temperature-resistant glycerides of natural fatty acids. 3,748,265, 7-24-73, Cl. 252-1.000.

Bunger, Heinrich; and Renckhoff, Gustav, to Dynamit Nobel Aktiengesellschaft. Hydrolysis-resistant acetoglycerides which are solid at room temperature. 3,766,227, 10-16-73, Cl. 260-410.800.

Bunger, Heinrich; and Renckhoff, Gustav, to Dynamit Nobel Aktiengesellschaft. Meltable coating compositions, particularly for foodstuffs and pharmaceutical preparations. 3,779,783, 12-18-73, Cl. 106-171.000.

Bunger, Waldemar. Drape curtain or the like. 3,774,666, 11-27-73, Cl. 160-348.000.

Bungo, Edward M.: *See—*
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Buning, Robert: *See—*
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Buning, Robert; and Frick, Siegmund, to Dynamit Nobel Aktiengesellschaft. Cross-linked articles and coatings of vinyl chloride polymers and process for their manufacture. 3,755,252, 8-28-73, Cl. 260-46.50r.

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Bunker, Kenneth James; and Wright, Martin Ronald, to Alford & Alder (Engineers) Limited. Servo valves. 3,746,045, 7-17-73, Cl. 137-625.240.

Bunker, Loomis O. Organic disposal machine. 3,724,187, 4-3-73, Cl. 56-361.000.

Bunker Ramo Corporation: *See—*
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Stieler, Alfred Otto Hugo; and Billmann, Gerhard Leonhard Emil, 3,777,926.

Bunker, Richard D., to Dyna-Flex Corporation. Exposed printing plate washer. 3,727,536, 4-17-73, Cl. 95-98.000.

Bunker, Richard D., to Dyna-Flex Corporation. Single exposed plastic relief image printing plate washer. 3,730,069, 5-1-73, Cl. 95-98.000.

Bunker, Robert C.: *See—*
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Bunker, William: *See—*
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Bunker, William Marvin; and Tew, Walter Hosey, Jr., to General Electric Company. Historical data display. 3,739,369, 6-12-73, Cl. 340-324.00a.

Bunker-Ramo Corporation, The: *See—*
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Bunn, Dorrance P., Jr.: *See—*
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Bunn, Dorrance P., Jr., to Texaco Inc. Conversion of hydrocarbons. 3,751,359, 8-7-73, Cl. 208-155.000.

Bunn-O-Matic Corporation: *See—*
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Bunnell, Edmond C.; and Schnedler, Paul E., to Armco Steel Corporation. Controlling cooling of galvanized strip in process of forming minimized spangle product. 3,756,844, 9-4-73, Cl. 117-64.00r.

Bunnell, Fred H.: *See—*
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Bunnell, Raymond Howard; and Guerin, Frank, to Hoffmann-La Roche Inc. Method of ultrasonic coupling. 3,710,779, 1-16-73, Cl. 128-2.00v.

Bunnelle, Philip R.: *See—*
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Wenneborg, William Z.; Payne, Bobby R.; and Bunnelle, Philip R., 3,747,696.

Bunney, John Brian; and Cassin, Christopher, to Imperial Chemical Industries Limited. Deformation of polymeric materials. 3,733,383, 5-15-73, Cl. 264-88.000.

Bunning, John G., to Esterline Corporation. Strip chart drive for recorder. 3,717,881, 2-20-73, Cl. 346-136.000.

Bunte, William S.; and DeGasperis, Lino E., to Egan Machinery Company. Extrusion die deckle means. 3,711,235, 1-16-73, Cl. 425-466.000.

Bunten, Paul H. Air cooling apparatus. 3,760,601, 9-25-73, Cl. 62-240.000.

Bunten, Theodore M., to Repco Products Corporation. Pedestal for electrical circuit components having a flexible protective dielectric shield. 3,714,369, 1-30-73, Cl. 174-38.000.

Bunten, Theodore M., to Repco Products Corporation. Pedestals for electrical circuit components. 3,740,452, 6-19-73, Cl. 174-38.000.

Bunten, Theodore M., to Repco Products Corporation. Guide element for baseboard radiation. 3,779,309, 12-18-73, Cl. 165-55.000.

Bunting, Colin: *See—*
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Bunting, James H.: *See—*
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Bunting, James H., to Bowmar/Ali, Inc. Calculator display circuit. 3,755,806, 8-28-73, Cl. 340-324.00r.

Bunting, Leslie J., to Eastman Kodak Company. Control device for projector film stripping and threading mechanism. 3,750,975, 8-7-73, Cl. 242-192.000.

Bunting, Pamela M.; and Leathen, William W., to Gulf Research & Development Company. Cultivation of micro-organisms on hydrocarbons. 3,713,976, 1-30-73, Cl. 195-28.00r.

Bunting, Pamela M.; and Leathen, William W., to Gulf Research & Development Company. Cultivation of micro-organisms on hydrocarbons. 3,713,984, 1-30-73, Cl. 195-82.000.

Bunting, Robert L., Jr. Continuous casting process. 3,726,331, 4-10-73, Cl. 164-57.000.

Bunting, Robert L., Jr.; Ring, Theodore C.; D'Amato, Joseph; and Wojcik, Witold M., to Roblin Industries, Inc. Apparatus for continuously casting steel. 3,766,961, 10-23-73, Cl. 164-66.000.

Bunting, William M.; and Langer, Arthur W., Jr., to Esso Research and Engineering Company. Chelated sodium compounds. 3,742,057, 6-26-73, Cl. 260-583.000.





Bunting, William M.; and Langer, Arthur W., Jr., to Esso Research and Engineering Company. Complexes of inorganic sodium compounds and chelating amines. 3,758,585, 9-11-73, Cl. 260-583.00p.

Bunting, William M.; and Langer, Arthur M., Jr., to Esso Research and Engineering Company. Separation of sodium compounds. 3,767,763, 10-23-73, Cl. 423-194.000.

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Buntschuh, Robert Frank; and Rouland, Henry George, to RCA Corporation. Rate aided ranging and time dissemination receiver. 3,769,589, 10-30-73, Cl. 325-419.000.

Bunyan, Thomas Walter, to P & O Pilgrim Valve Limited. Mounting of propellers on shafts. 3,746,470, 7-17-73, Cl. 416-244.000.

Bunyan, Thomas Walter, to P & O Pilgrim Valve Limited. Fastening of wheels, propellers and the like. 3,772,759, 11-20-73, Cl. 29-252.000.

Bunzel, Eckard; Spessert, Robert; Rieskamp, Karl; and Hildebrand, Willi, to Ofu Ofenbau-Union GmbH. Industrial furnace. 3,781,166, 12-25-73, Cl. 432-126.000.

Buonaura, Anthony: *See—*
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Buonavita, Carlos E., to Burroughs Corporation. Current monitoring apparatus. 3,721,928, 3-20-73, Cl. 335-204.000.

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Bur, Philip W., to Honeywell Inc. Limit control apparatus. 3,714,537, 1-30-73, Cl. 318-626.000.

Burakov, Valery Petrovich: *See—*
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Burany, Janos; Csovak, Erno; Gulyas, Gabor; Nemeth, Jozsef; Van, Ivan; Vollak, Andor; and Erdosi, Jozsef, to Gepipari Technologiai Intezet. Process and an equipment for the plastic forming or shaping and simultaneous chip-free chopping of metal bars and wies. 3,727,253, 4-17-73, Cl. 10-86.00f.

Buratti, Massimo: *See—*
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Burba, Christian; Drawert, Manfred; Voigt, Hartmut; and Griebsch, Eugen. Polyurethane foams produced from nitrogenous polyethers. 3,734,871, 5-22-73, Cl. 260-2.5aq.

Burba, Christian; Griebsch, Eugen; and Krieger, Bernhard, to Schering AG. Methods of adhering and coating with reactive mixtures of polyesters and polyisocyanates. 3,773,595, 11-20-73, Cl. 156-332.000.

Burbach, Henry Edward, to Combustion Engineering, Inc. Method and apparatus useful in combustion gas purification. 3,726,239, 4-10-73, Cl. 110-1.00j.

Burbank, John Emerson, to Scovill Manufacturing Company. Apparatus for finishing metal zipper chain. 3,720,086, 3-13-73, Cl. 72-194.000.

Burberry, Robin Keith; and White, Robert Anthony, to A.P.V. Company Limited, The. Plate evaporators. 3,735,793, 5-29-73, Cl. 159-28.00p.

Burbick, Ross E.: *See—*
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Burbine, William G.: *See—*
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Burboeck, Hans Peter, to Zeiss-Stiftung, Carl. Microscope stage. 3,765,745, 10-16-73, Cl. 350-90.000.

Burch, A. Robert, to Burch Controls, Inc. Industrial robot. 3,760,956, 9-25-73, Cl. 214-1.0bb.

Burch, Arthur R.; and Bates, Charles E., to Clark Equipment Company. Automatic control system for storage systems transfer cart. 3,746,189, 7-17-73, Cl. 214-16.40b.

Burch Controls, Inc.: *See—*
Burch, A. Robert, 3,760,956.

Burch, Homer Albert, to Morton-Norwich Products, Inc. 3-Alkyl-4-bis(2-hydroxyethyl)amino-6-(5-nitro-2-furyl) isoxazolo(5,4-d) pyrimidines. 3,770,740, 11-6-73, Cl. 260-256.40f.

Burch, James L., to Fiber Industries, Inc. Threadline defect detector. 3,746,865, 7-17-73, Cl. 250-219.00s.

Burch, Lyndon W., to B/K Electric Co., Inc. Circuit breaker. 3,778,739, 12-11-73, Cl. 337-72.000.

Burch, Paul F.: *See—*
Roberts, Walter L.; and Burch, Paul F., 3,751,328.

Burcham, Harry Logan, to Valley Tow-Rite, Inc. Adjustable load stabilizing trailer hitch. 3,731,950, 5-8-73, Cl. 280-406.00a.

Burcher, Ernest E.: *See—*
Keafer, Lloyd S., Jr.; Burcher, Ernest E.; and Kopia, Leonard P., 3,779,788.

Burcher, Ernest E.; Rowland, Carroll W.; and Sinclair, Archibald R., to United States of America, National Aeronautics and Space Administration. Laser communication system for controlling several functions at a location remote to the laser. 3,710,122, 1-9-3, Cl. 250-199.000.

Burcher, George Davey: *See—*
Bossons, Walter Howard; Parer, David George; and Burcher, George Davey, 3,730,356.

Burck, Joseph M.: *See—*
Breslow, Jeffrey D.; Glass, Marvin I.; and Burck, Joseph M., 3,759,521.

Burckhardt, Manfred H.; and Schafer, Lutz, to Daimler-Benz Aktiengesellschaft. Sealing sleeve of elastic material. 3,707,852, 1-2-73, Cl. 64-32.00f.

Burckhardt, Manfred H.; Lutze, Walter; and Schwerdt, Paul, to Daimler-Benz Aktiengesellschaft. High frequency transmitter, especially for brake slippage control installation of motor vehicles. 3,719,840, 3-6-73, Cl. 310-71.000.

Burckhardt, Manfred H., to Daimler-Benz Aktiengesellschaft. Device for preventing the over-braking of vehicles with hydraulic brake installations. 3,726,567, 4-10-73, Cl. 303-21.00f.

Burckhardt, Manfred H.; Wupper, Hans-Herbert; and Worbis, Siegfried, to Daimler-Benz Aktiengesellschaft. Coil compression spring. 3,727,902, 4-17-73, Cl. 267-180.000.

Burckhardt, Manfred H.; Florus, Hans-Jorg; Grossner, Horst; and Krohn, Helmut, to Daimler-Benz Aktiengesellschaft. Brake force regulating system for vehicles, especially for motor vehicles. 3,744,851, 7-10-73, Cl. 303-21.0be.

Burckhardt, Manfred H.; Lutze, Walter; and Schwerdt, Paul, to Daimler-Benz Aktiengesellschaft. Frequency transmitter especially for brake slippage control systems of motor vehicles. 3,745,390, 7-10-73, Cl. 310-71.000.

Burckhardt, Manfred H.; Krohn, Hellmut; Grossner, Horst; and Florus, Hans-Jorg, to Daimler-Benz Aktiengesellschaft. Brake force control system for vehicles especially motor vehicles. 3,762,774, 10-2-73, Cl. 303-21.0eb.

Burckhardt, Manfred H.; Lutze, Walter; and Schwerdt, Paul, to Daimler-Benz Aktiengesellschaft. Frequency transmitter, especially for brake slippage control installation of motor vehicles. 3,764,837, 10-9-73, Cl. 310-168.000.

Burckhardt, Manfred H.; Florus, Hans-Jorg; Grossner, Horst; Krohn, Hellmut; and Stein, Hermann, to Diamler-Benz Aktiengesellschaft. Device for prevention of spinning of the driven wheels of a motor vehicle. 3,779,331, 12-18-73, Cl. 180-82.00r.

Burckhardt, Urs; and Zimmermann, Markus, to Ciba-Geigy Corporation. Iodoethynyl pyridine compounds. 3,778,441, 12-11-73, Cl. 260-290.000.

Burcliff Industries, Inc.: *See—*
Johnson, Dean W., 3,772,622.

Burcz, Lawrence D., to Ford Motor Company. Automatic transmission control circuit with electrically operated valves. 3,709,066, 1-9-73, Cl. 74-866.000.

Burcz, Lawrence D.; and Lemieux, George E., to Ford Motor Company. Clutch with torque responsive valve. 3,719,259, 3-6-73, Cl. 192-54.000.

Burdelski, Theo; and Gurtner, Klaus, to Ferroplast Theo Burdelski & Co. Coupling. 3,713,306, 1-30-73, Cl. 64-14.000.

Burden, Roy B., Jr.; and O'Gieblyn, Ernest J., to Wasteco, Inc. Heating and exhaust emission control system and method for material dryers. 3,749,030, 7-31-73, Cl. 110-8.00r.

Burden, Roy B., Jr., to Wasteco, Inc. Controlled atmosphere incinerator. 3,749,031, 7-31-73, Cl. 110-8.00r.

Burdett Oxygen Co. of Cleveland, Inc.: *See—*
Barrett, Charles D., Jr., 3,728,825.

Burdette, George W., to United States of America, Navy. Gelled hydrazine containing rocket fuel. 3,736,195, 5-29-73, Cl. 146-36.000.

Burdette, William M., Jr.; and Davis, David C., Jr., to Sperry Rand Corporation. Digital equipment interface unit. 3,739,349, 6-12-73, Cl. 340-172.500.

Burdfska, Kurt: *See—*
Pugin, Andre; Burdfska, Kurt; and Model, Ernst, 3,741,995.

Burdge, David N., to Marathon Oil Company. Flooding with miscible-type fluid slugs having different brine tolerances. 3,770,649, 11-6-73, Cl. 252-312.000.

Burdic, William S.; and Case, Robert O., Jr., to North American Aviation, Inc. Slant range tracking terrain avoidance system. 3,739,380, 6-12-73, Cl. 343-7.0ta.

Burdick, Eugene A. Multi-purpose cutting tool. 3,755,894, 9-4-73, Cl. 30-181.000.

Burdick, Ralph V., Jr. Container with snap-open cover. 3,741,431, 6-26-73, Cl. 220-43.00p.

Burdick, Robert E., to Rolair Systems Inc. Replaceable air cushion device. 3,756,342, 9-4-73, Cl. 180-124.000.

Burdidge, Colin, to Beecham Group Limited. Precipitation of virus particles. 3,772,149, 11-13-73, Cl. 195-1.500.

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Burenga, Thomas I., to TSC Industries Inc. Tractor power take-off for centrifugal pump. 3,717,045, 2-20-73, Cl. 74-15.600.

Burenga, Thomas I.; and Elliott, Everett, to TSC Industries, Inc. Rotary roller pumps. 3,734,654, 5-22-73, Cl. 418-152.000.

Burenga, Thomas I., to FMC Corporation. Legume harvester with auger feeds. 3,769,988, 11-6-73, Cl. 130-30.00h.

Bures, Ladislav: *See—*

Mladek, Milos; Burget, Bohumir; Bures, Ladislav; and Rajnoh, Jaroslav, 3,750,380.
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Burford, Milton K.; Simpson, Robert A.; and Bernardin, Rodney A., to United States of America, Navy. Terradynamic brake. 3,774,540, 11-27-73, Cl. 102-2.000.
Burg, Fred G., to Houdaille Industries, Inc. Machine tool having tool changer. 3,760,490, 9-25-73, Cl. 29-568.000.
Burg, Karlheinz; Brinkmann, Ludwig; and Wolters, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Thermoplastic molding compositions on the basis of polyoxymethylenes. 3,767,610, 10-23-73, Cl. 260-37.0al.
Burg, Martin S.; Carbonaro, Lynn M.; and Songco, Evelyn M., to Western Electric Company, Incorporated. Depuration of an aqueous solution containing vanadium and cobalt salts as impurities. 3,752,759, 8-14-73, Cl. 210-50.000.
Burgan, Paul G.; and Jekiel, Richard J., to Wentworth, Richard G. Visual display system. 3,750,138, 7-31-73, Cl. 340-334.000.
Burgarella, John P.; Carcia, Peter P.; and Kee, Richard C., to Polaroid Corporation. Control system for photographic apparatus. 3,744,385, 7-10-73, Cl. 95-11.00r.
Burgarella, John P., to Polaroid Corporation. Photoflash apparatus. 3,757,643, 9-11-73, Cl. 95-11.00r.
Burgarella, John P.; Carcia, Peter P.; and Kee, Richard C., to Polaroid Corporation. Photographic control system and apparatus having self-monitoring features. 3,774,516, 11-27-73, Cl. 95-42.000.
Burgbacher, Martin, to Papst-Moteren K.G. External-rotor reluctance motor. 3,775,626, 11-27-73, Cl. 310-67.000.
Burgdorf, Jochen, to ITT Industries, Inc. Two-circuit wheel cylinder. 3,731,596, 5-8-73, Cl. 92-52.000.
Burgdorf, Jochen, to ITT Industries, Inc. Multi-circuit brake system. 3,756,660, 9-4-73, Cl. 303-6.00r.
Burgdorf, Marten: *See*—
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Burgdorf, Marten, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Method for making hollow bevel gears with integral hollow shaft. 3,780,413, 12-25-73, Cl. 29-159.200.
Burge, Anthony Robert: *See*—
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Burgener, Willis R.: *See*—
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Burger, Edwin M., to Oliver Tire & Rubber Company. End plug assembly for pipe. 3,749,131, 7-31-73, Cl. 138-89.000.
Burger Eisenwerke AG: *See*—
Durth, Wilfried, 3,780,721.
Burger, Friedrich: *See*—
Wanslik, Wilhelm; Ratheiser, Heinz; and Burger, Friedrich, 3,766,797.
Burger, Guy Claude. Baby's napkin. 3,729,004, 4-24-73, Cl. 128-286.000.
Burger, Harry Fred, to Walworth Company. Gate valve with thin walled hubs. 3,734,461, 5-22-73, Cl. 251-366.000.
Burger, Heinz: *See*—
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Burger, Joanne D.: *See*—
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Burger, Karl-Heinz, to Bosch, Robert, G.m.b.H. Apparatus for heating and cooling a vehicle passenger compartment. 3,753,462, 8-21-73, Cl. 13-165.000.
Burger, Philip M.; and Carson, David E., to Carson & Burger, Incorporated. Lid orienting assembly. 3,734,268, 5-22-73, Cl. 198-33.0ad.
Burger, Theodor; Hellmig, Erhard; and Vanheerentals, Jacques Leon, to Agfa-Gevaert Aktiengesellschaft. Method of controlling exposure during photographic printing of variable contrast material. 3,753,707, 8-21-73, Cl. 96-27.000.
Burger, William H., to Kimberly-Clark Corporation. Method and apparatus cross-drafting fibrous nonwoven webs. 3,708,831, 1-9-73, Cl. 19-236.000.
Burger, William H., to Kimberly-Clark Corporation. Crosslaying machine. 3,711,354, 1-16-73, Cl. 156-269.000.
Burger, William H., to Kimberly-Clark Corporation. Method and apparatus for crosslaying web materials. 3,765,989, 10-16-73, Cl. 156-441.000.
Burgess, Bernard W.: *See*—
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Burgess, Charles David, to Simon-Carves, Limited. Traveling grate machines. 3,719,354, 3-6-73, Cl. 266-21.000.
Burgess, Colin D.: *See*—
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Burgess, Colin M.; Feather, Peter; and Goatly, Philip H., to BDH Pharmaceuticals Limited. 17α-(5'-Substituted-5'-hydroxy-penta-1',3'-divinyl)-steroids. 3,758,521, 9-11-73, Cl. 260-397.500.
Burgess, Dennis A.; Alexson, Charles E.; and Jones, Ralph P., to Microm; a division of Colight Inc. Micro film duplicating device. 3,775,711, 11-27-73, Cl. 355-100.000.
Burgess, Douglas P.; and Harkey, Johnny D., to Cannon Mills Company. Temple for terry looms and method of operating same. 3,724,509, 4-3-73, Cl. 139-25.000.
Burgess, Douglas P.; and Williams, Gilmer A., to Cannon Mills Company. Method and apparatus for feeding terry warps in looms. 3,746,052, 7-17-73, Cl. 139-25.000.
Burgess, Francis Travers, to General Steel Industries, Inc. Resiliently centered railway motor truck. 3,738,283, 6-12-73, Cl. 105-136.000.
Burgess, Fred L. Fish lure retriever. 3,772,815, 11-20-73, Cl. 43-17.200.
Burgess, James F.; and Neugebauer, Constantine A., to General Electric Company. Direct bonding of metals with a metal-gas eutectic. 3,744,120, 7-10-73, Cl. 29-494.000.
Burgess, James Henry: *See*—
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Burgess, James P.; Polkinghorn, Melvin W.; and Dieterle, Gunther, to International Telephone and Telegraph Corporation. Switches for turn signal and hazard warning lights. 3,710,049, 1-9-73, Cl. 200-61.270.
Burgess, James P.; and Polkinghorn, Melvin W., to International Telephone and Telegraph Corporation. Lamp socket. 3,718,892, 2-27-73, Cl. 339-126.00r.
Burgess, James V., Jr. Mine ventilation control system. 3,715,969, 2-13-73, Cl. 98-50.000.
Burgess, John Richard: *See*—
Evans, William Henry Reginald; and Burgess, John Richard, 3,727,042.
Burgess, Lester E., to Gulf & Western Industrial Products Company. Metal coated plastic cartridge case and method of manufacture. 3,749,021, 7-31-73, Cl. 102-43.00p.
Burgess Micro Switch Company Limited: *See*—
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Burgess, Norman E., to Domtar Limited. Internal interlocking flap box. 3,744,699, 7-10-73, Cl. 229-23.00r.
Burgess, Oakley B., 51% to Shook, Alvin L. Hedge trimmer. 3,731,476, 5-8-73, Cl. 56-237.000.
Burgess, Ralph D., to Pillsbury Company, The. Transferring, cutting and depositing apparatus for bakery goods. 3,759,126, 9-18-73, Cl. 83-112.000.
Burgess, Ronald R., to Motorola, Inc. Single crystal silicon contact for integrated circuits and method for making same. 3,717,514, 2-20-73, Cl. 148-175.000.
Burgess, Ronald R., to F & E Manufacturing Company. Pressure-vacuum relief fuel filler cap. 3,724,707, 4-3-73, Cl. 220-44.00r.
Burgess, Ronald R., to F & E Manufacturing Company. Pressure-vacuum relief fuel filler cap. 3,724,708, 4-3-73, Cl. 200-44.00r.
Burgess, Ronald R.; Coleman, Michael G.; and Grenon, Lawrence A., to Motorola, Inc. Light emitting diode display for electronic timepiece. 3,757,511, 9-11-73, Cl. 58-50.00r.
Burgess, Stanley E. Auto padded windshield. 3,721,468, 3-20-73, Cl. 296-84.00k.
Burgess, Thomas H., to Fischer & Porter Company. Sensor probe and shield assembly for swirl-type flowmeter. 3,719,080, 3-6-73, Cl. 73-194.00b.
Burgess Vibrocrafters, Inc.: *See*—
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Simmons, Frank A., 3,760,479.
Burgess, Warren C., Jr. Vibratory quantifying apparatus. 3,746,211, 7-17-73, Cl. 221-7.000.
Burgess, William F., Jr. Portable drafting apparatus. 3,751,809, 8-14-73, Cl. 33-80.000.
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Burgett, David C.: *See*—
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Burgett, James F.; Gorrell, Gerald A.; Mills, Norman D.; and Vanderberg, Lawrence J., to Ford Motor Company. Magnetic gauge with two V-positioned coils and having magnetic restoring ring. 3,753,107, 8-14-73, Cl. 324-146.000.
Burgett, James F.; and Vanderberg, Lawrence J., to Ford Motor Company. Motor vehicle magnetic gauge circuitry with time delay. 3,761,731, 9-25-73, Cl. 307-10.00r.
Burghart, Anthony V.; Houser, David E.; Kieffer, John E.; and Wallace, George A., to International Business Machines Corporation. Method and apparatus for repairing printed circuits. 3,775,579, 11-27-73, Cl. 219-85.000.
Burghartz, Ernst Albrecht; and Fuss, Hans Guenter. Contruction for the ventilation and air conditioning of rooms of existing buildings. 3,780,638, 12-25-73, Cl. 98-31.000.
Burgholte, Alwin: *See*—
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Burgholte, Alwin; Wirtz, Rainer; and Domann, Helmut, to Bosch, Robert, G.m.b.H. Digital slip frequency control circuit for asynchronous dynamo electric machines. 3,731,169, 5-1-73, Cl. 318-227.000.
Burgi, Xaver. Attachable label. 3,722,118, 3-27-73, Cl. 40-21.00r.
Burgio, Antonio. Separable button assembly. 3,725,980, 4-10-73, Cl. 24-108.000.
Burgstaller, Gottfried: *See*—
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Burgwald, Glenn M.; Kruger, William P.; and Hammond, Donald L., to Hewlett-Packard Company. Gas laser. 3,771,066, 11-6-73, Cl. 331-94.50d.
Burgwin, Stephen Lovell, to Honeywell Inc. Accelerometers. 3,772,920, 11-20-73, Cl. 73-517.00b.
Burgyan, Aladar; Pipoly, Richard A.; and Stelzer, Paul H., to Ferro Corporation. Abrasion resistant stabilized lead chromate pigments coated with silica and polyolefin wax. 3,773,535, 11-20-73, Cl. 106-298.000.
Burk, David L.; and Reen, Orville W., to Allegheny Ludlum Industries, Inc. Method for producing a hot worked body. 3,740,215, 6-19-73, Cl. 75-208.000.
Burk, Emmett H., Jr.; and Carlos, Donald D., to Atlantic Richfield Company. Cyclic nitrile carbonate group-containing chloroformates. 3,737,435, 6-5-73, Cl. 260-307.00a.
Burk, Emmett H., Jr.; and Carlos, Donald D., to Atlantic Richfield Company. Method for the preparation of cyclic nitrile sulfites. 3,763,175, 10-2-73, Cl. 260-301.000.
Burk, George A., to Dow Chemical Company, The. Preparation of white brominated biphenyl. 3,733,366, 5-15-73, Cl. 260-649.00d.
Burk, Marvin C.: *See*—
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Burkall, Alvin E., to Whirlpool Corporation. Belt shifter with curved fingers for multiple speed dryer. 3,707,882, 1-2-73, Cl. 74-242.300.
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Finnegan, William G.; Burkardt, Lohr A.; McLean, William B.; McEwan, William S.; and Larocca, Edward W., 3,742,859.
Burkaro, Willy; Rheiner, Alfred, Jr.; and Richle, Rolf, to Hoffmann-La Roche Inc. Method of combatting malaria. 3,767,804, 10-23-73, Cl. 424-270.000.
Burkart, Edward J. Livestock loading chute. 3,763,827, 10-9-73, Cl. 119-82.000.
Burke, Alun, to Contraves AG. Level feeler. 3,735,636, 5-29-73, Cl. 73-290.00r.
Burke, Ambrose D. Double voice coil loudspeaker. 3,766,334, 10-16-73, Cl. 179-115.5dv.
Burke, Charles R., to Abbott Laboratories. Method for determining total blood serum iron-binding capacity. 3,709,985, 1-9-73, Cl. 424-1.000.
Burke, Claude E., to Procter & Gamble Company, The. Lard flavor concentrate. 3,767,429, 10-23-73, Cl. 426-65.000.
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Burke, David C.: *See*—
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Burke, Donald J.; and Cole, Judson C., to Continental Industries, Inc. Tool for squeezing off flexible pipe. 3,730,478, 5-1-73, Cl. 251-8.000.
Burke, Edward A.: *See*—
Wall, James A.; and Burke, Edward A., 3,723,740.
Burke, Edward F., Jr., to Polaroid Corporation. Thermally responsive flash lamp sequencing apparatus. 3,728,069, 4-17-73, Cl. 431-93.000.
Burke, George E., Jr., to Textron, Inc. Pneumatically actuated fastener driving device with improved piston return air system. 3,708,096, 1-2-73, Cl. 227-130.000.
Burke, George K.; and Raines, Kenneth, to Burron Medical Products, Inc. Flexible needle guard for breaking syringe needles. 3,712,302, 1-23-73, Cl. 128-221.000.
Burke, George K.; and Raines, Kenneth, to Burron Medical Products, Inc. Intravenous injection apparatus drip chamber having filter means. 3,722,697, 3-27-73, Cl. 210-451.000.
Burke, George K.; and Raines, Kenneth, to Burron Medical Products, Inc. Method of making syringe and needle adapter assembly by ultrasonic bonding. 3,728,184, 4-17-73, Cl. 156-73.000.
Burke, George K.; and Raines, Kenneth, to Burron Medical Products, Inc. Multi-way valve. 3,750,704, 8-7-73, Cl. 137-625.470.
Burke, George K.; and Raines, Kenneth, to Burron Medical Products, Inc. Hypodermic syringe barrel and needle structure. 3,756,235, 9-4-73, Cl. 128-221.000.
Burke, George K.; and Raines, Kenneth, to Burron Medical Products, Inc. Hypodermic syringe body structure. 3,768,474, 10-30-73, Cl. 128-220.000.
Burke, Harold J., to General Motors Corporation. Collapsible steering column assembly. 3,757,601, 9-11-73, Cl. 74-492.000.
Burke, Jerry A., Jr.: *See*—
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Burke, Michael J., to Federal-Mogul Corporation. Apparatus for making an elastomeric annular seal with enclosed garter spring. 3,733,155, 5-15-73, Cl. 425-128.000.
Burke, Nelson W., to Honeywell Information Systems, Inc. Crystal controlled frequency shift keying synchronous generating system. 3,752,922, 8-14-73, Cl. 178-66.00r.
Burke, Nelson W., to Honeywell Information Systems, Inc. Frequency shift keyed generating system. 3,752,923, 8-14-73, Cl. 178-66.00r.
Burke, Oliver W., Jr. Silica pigments and elastomer-silica pigment masterbatches and production processes relating thereto. 3,716,513, 2-13-73, Cl. 260-33.6a0.
Burke, Oliver W., Jr. Aqueous latices of high polymer compositions and processes and means for the production thereof. 3,719,572, 3-6-73, Cl. 204-159.150.
Burke, Oliver W., Jr. Silica pigments and preparation thereof. 3,719,741, 3-6-73, Cl. 423-339.000.
Burke, Patrick Michael, to Du Pont de Nemours, E. I., and Company. Dialkyl N-substituted phosphoramidate containing flame retardants. 3,767,736, 10-23-73, Cl. 260-950.000.
Burke, Richard L., to Colgate-Palmolive Company. Abrasive cleaning compositions. 3,754,878, 8-28-73, Cl. 51-307.000.
Burke, Richard L., to Colgate-Palmolive Company. Removal of metallic stains from porcelain surfaces. 3,754,941, 8-28-73, Cl. 106-3.000.
Burke, Robert C. Fish-supporting and holding device. 3,744,090, 7-10-73, Cl. 17-70.000.
Burke, William B., to Bradley, Milton, Company. Player controlled tethered striking element and playing pieces. 3,747,929, 7-24-73, Cl. 273-98.000.
Burke, William F.; Greenwood, Robert C.; and Jones, Thomas E., to Pan-Nova, Inc. Coin operated fluid dispenser. 3,731,777, 5-8-73, Cl. 194-13.000.
Burke, Zane L. Production of copper oxides and zinc oxide. 3,719,451, 3-6-73, Cl. 423-604.000.
Burkel, Rainer: *See*—
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Burker, Ulf; and Koch, Sigurd, to Siemens Aktiengesellschaft. Programmable fixed data memory utilizing Schottky diodes. 3,781,825, 12-25-73, Cl. 340-173.0sp.
Burkert, Christian. Elastic sealing gasket. 3,768,819, 10-30-73, Cl. 277-206.00r.
Burkert, George M.; Uhland, H. Edward; and Bach, Ricardo O., to First National City Bank, mesne. Lithium alumino silicate composition having low iron content. 3,754,947, 8-28-73, Cl. 106-39.00r.
Burket, Stanley C.: *See*—
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Burkett, Francis L., to Dow Chemical Company, The. Egg carton. 3,730,420, 5-1-73, Cl. 229-44.00r.
Burkett, Wilford B.; and Carlsen, George D., II, to McCulloch Corporation. Electronic watt hour meter. 3,760,273, 9-18-73, Cl. 324-142.000.
Burkett, Wilford B.; and Jackson, Robert V., to McCulloch Corporation. Chain saw starting system. 3,774,303, 11-27-73, Cl. 30-382.000.
Burkey, Lee C., to North American Rockwell Corporation. Lapping machine. 3,765,128, 10-16-73, Cl. 51-73.00r.

Burkey, William D.: *See—*
Marciniak, John C.; and Burkey, William D., 3,732,831.

Burkhalter, Robert; and Congdon, George L., to Norland Corporation. Limb holder positioner for bone mineral analyzer. 3,715,587, 2-6-73, Cl. 250-50.000.

Burkhardt, Daniel J.: *See—*
Over, David J.; and Burkhardt, Daniel J., 3,771,283.

Burkhardt, Edward A., to FMC Corporation. Extended life bearing. 3,737,204, 6-5-73, Cl. 308-241.000.

Burkhardt, Gisbert, to Telefunken Patentverwertungsgesellschaft m.b.H. Apparatus for the separate discharge of flat items from a stack. 3,730,514, 5-1-73, Cl. 271-11.000.

Burkhardt, Gottfried; and Metschanabl, Andreas, to Diehl. Planetary drum printer with movable gear segments to control type carrier rotation. 3,772,989, 11-20-73, Cl. 101-110.000.

Burkhardt, Hans: *See—*
Andree, Franz; Burkhardt, Hans; and Riedel, Guenther, 3,708,499.

Burkhardt, Horst: *See—*
Heidenhain, Johannes; Burkhardt, Horst; and Kraus, Heinz, 3,728,117.

Burkhardt, Joseph A.; Childers, Thomas W.; Tidwell, Danny R.; and Koerner, Roger J., to Esso Production Research Company. Subsea electric connector system and procedure for use. 3,714,384, 1-30-73, Cl. 200-51.00r.

Burkhardt, Joseph A.; Childers, Thomas W.; Koerner, Roger J.; Mason, John P.; and Tidwell, Danny R., to Esso Production Research Company. Subsea production system. 3,777,812, 12-11-73, Cl. 166-.600.

Burkhardt, Konstanz Gisbert: *See—*
Rapparlie, Hans; and Burkhardt, Konstanz Gisbert, 3,752,043.

Burkhardt, Max; and Thalmann, Armin, to Concast AG. Adjustable continuous casting mold. 3,710,845, 1-16-73, Cl. 164-273.000.

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Burkhardt, Max; Huber, Horst; and Chateau, Christian, to Concast AG and Concast Incorporated. Strand guide apparatus for continuous casting. 3,752,219, 8-14-73, Cl. 164-282.000.

Burkhardt, Max; Thalmann, Armin; Fiala, Ferdinand; and Schmid, Markus, to Concast AG. Method and apparatus for cooling and guiding strand in continuous casting machines. 3,753,459, 8-21-73, Cl. 164-89.000.

Burkhardt, Max; Huber, Horst; Zeller, Josef K.; Chateau, Christian; and Schmid, Markus, to Concast AG and Concast Incorporated. Continuous casting machine. 3,773,103, 11-20-73, Cl. 164-282.000.

Burkhart, Ernest O. Multiple tape apparatus. 3,761,096, 9-25-73, Cl. 274-4.00f.

Burkhart, George N., Jr., to Duncan Electric Company. Box and mounting and connecting means for extremely heavy duty watthour meters. 3,764,858, 10-9-73, Cl. 317-107.000.

Burkhart, James A., to United States of America, National Aeronautics and Space Administration. Magneto-plasma-dynamic arc thruster. 3,735,591, 5-29-73, Cl. 60-202.000.

Burkhart, John H.; and Slick, Edward C., to GTE Sylvania Incorporated. Compositions for improved solderability of copper. 3,716,421, 2-13-73, Cl. 148-6.14r.

Burkholder, Harvey Z., to U.S. Industries, Inc. Egg packing machine. 3,741,368, 6-26-73, Cl. 198-37.000.

Burkholz, Herbert C.; and Burkholz, Norman K. Dome structure for supporting flexible material to form a dome. 3,766,573, 10-23-73, Cl. 4-172.120.

Burkholz, Norman K.: *See—*
Burkholz, Herbert C.; and Burkholz, Norman K., 3,766,573.

Burki, Alfred J. Treatment appliance for teeth and the like. 3,732,589, 5-15-73, Cl. 15-22.00r.

Burkitt, Sherman C., to FMC Corporation. Coal preparation process and magnetite reclaimer for use therein. 3,737,032, 6-5-73, Cl. 209-10.000.

Burkle, Erwin; and Loebe, Felix, to Krauss-Maffei Aktiengesellschaft. Feeding attachment for machine processing foamable plastic materials. 3,780,995, 12-25-73, Cl. 259-193.000.

Burkley, Kathleen E. Body support for invalids. 3,719,962, 3-13-73, Cl. 5-91.000.

Burklin, Max: *See—*
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Wanner, Karl; Bleicher, Manfred; Sigg, Horst; and Burklin, Max, 3,737,170.

Burklund, Glenn A. Methods for texturizing yarns and the like. 3,745,618, 7-17-73, Cl. 28-72.100.

Burklund, Vernon D.: *See—*
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Burko, Albert Ivanovich: *See—*
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Burks, Daniel S. Fluid assisted drill construction. 3,767,315, 10-23-73, Cl. 408-59.000.

Burks, Kenneth N.: *See—*
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Burks, Warren C.; and Lawrence, Jack G. Thermal sensing of current carrying mediums. 3,721,902, 3-20-73, Cl. 324-106.000.

Burkwall, Morris P., Jr., to Quaker Oats Company, The. Preparation of a high protein simulated cheese product. 3,741,774, 6-26-73, Cl. 99-117.000.

Burkwall, Morris P., Jr., to Quaker Oats Company, The. High protein food product. 3,759,714, 9-18-73, Cl. 99-14.000.

Burland, Oliver J. Emergency vehicle warning light. 3,739,336, 6-12-73, Cl. 340-50.000.

Burland, Oliver J. Emergency warning light. 3,757,108, 9-4-73, Cl. 240-46.590.

Burland, Oliver J. Supporting bar assembly for vehicle. 3,779,436, 12-18-73, Cl. 224-42.10g.

Burland, Peter D.; Stephenson, James L.; and Stobart, Edward H., to Milchem Incorporated. Composition and process for the reduction of thermal degradation of aqueous drilling fluids. 3,764,530, 10-9-73, Cl. 252-8.50c.

Burlbert, Lawrence. Attachment type rabbit feeder. 3,776,190, 12-4-73, Cl. 119-18.000.

Burleigh, John E.: *See—*
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Burleigh, John E., to Phillips Petroleum Company. Natural rubber masterbatches. 3,709,958, 1-9-73, Cl. 260-754.000.

Burleson, Aaron, to Burlington Industries, Inc. Knitted compressive stretch fabrics, and method and apparatus for the manufacture thereof. 3,720,078, 3-13-73, Cl. 66-133.000.

Burley, Cameron H., to Culbertson Industries, Inc. Method and apparatus for the recovery of synchronous carrier in a digital communication system. 3,753,114, 8-14-73, Cl. 325-320.000.

Burley, Elliott L.: *See—*
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Burley, Harvey A., to General Motors Corporation. Vacuum actuated ignition spark energy level control circuit. 3,718,124, 2-27-73, Cl. 123-148.0dc.

Burley, Harvey A., to General Motors Corporation. Dual mode spark plug. 3,719,851, 3-6-73, Cl. 313-123.000.

Burley, Harvey A.; Bleil, Carl E.; Rishavy, Edward A.; and Currie, James H., to General Motors Corporation. Rotary combustion engine ignition. 3,739,753, 6-19-73, Cl. 123-8.090.

Burley, Harvey A., to General Motors Corporation. Rotary combustion engine ignition. 3,754,534, 8-28-73, Cl. 123-529.000.

Burley, John Charles, to Ackerman, Myron. Stabilising woven fabrics. 3,719,450, 3-6-73, Cl. 8-149.200.

Burlington Industries, Inc.: *See—*
Acree, William L., 3,762,872.
Atwell, Everett C.; and Ballard, Homer Lee, 3,713,347.
Aycock, Ben F.; and Tesoro, Giuliana C., 3,765,837.
Barber, Richard P.; and Moses, Glen R., 3,731,411.
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Burlis, Norbert W., to Sherwood Medical Industries, Inc. Extruder. 3,712,782, 1-23-73, Cl. 425-380.000.

Burlis, Norbert W.; and Corbett, Joseph H., to Sherwood Medical Industries, Inc. Extruding apparatus. 3,724,985, 4-3-73, Cl. 425-132.000.

Burlis, Norbert W.; and Corbett, Joseph H., to Sherwood Medical Industries Inc. Apparatus for extruding products of plural components of varied proportions with scrap reclamation. 3,752,617, 8-14-73, Cl. 425-131.000.

Burlong, Donn B.; and Luzaich, Samuel, to Ecodyne Cooling Products Company. Fill hanger. 3,749,381, 7-31-73, Cl. 261-111.000.

Burman, Bruce G.: *See—*
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Burmaster, Chester F., to Eastman Kodak Company. Hydrolyzing polyesters. 3,728,287, 4-17-73, Cl. 260-2.300.





Burmeister, Hans. Odor sealing method. 3,762,875, 10-2-73, Cl. 21-60.50a.

Burmenko, Eduard Jurievich: *See—*
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Burndy Corporation: *See—*
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Burnet, Arthur L.; and London, Joe F., Jr., to Burlington Industries, Inc. Creel assembly including stop motion devices for circular knitting machines. 3,777,512, 12-11-73, Cl. 66-125.00r.

Burnet, Robert C.; and Slack, William F., to Van Dyk Research Corporation. Apparatus for imparting intermittent rotation to a first member in rotating registry with a second member. 3,736,056, 5-29-73, Cl. 355-8.000.

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Burnett & Rolfe Limited: *See—*
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Burnett, George E. House trailer ground anchor. 3,744,192, 7-10-73, Cl. 52-23.000.

Burnett, George R.; and Burnett, Jessie E. Low pressure control switch with bridging contacts. 3,735,071, 5-22-73, Cl. 200-83.00j.

Burnett, Henry J., to Pollutant Separation, Inc. Apparatus for separating pollutants and obtaining separate liquids and solids. 3,729,042, 4-24-73, Cl. 159-2.000.

Burnett, James H., to Edwards Company, Inc. Fire detector stabilizer circuit. 3,728,703, 4-17-73, Cl. 340-237.00s.

Burnett, Jessie E.: *See—*
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Burnett, Jimmy D., to United States of America, Army. Vinyl ferrocene butadiene copolymer burning rate catalyst. 3,770,787, 11-6-73, Cl. 260-439.0cy.

Burnett, Lauren W.: *See—*
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Burnett, Raymond S.: *See—*
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Burnett, Richard T., to Bendix Corporation, The. Tandem cylinder disc brake. 3,724,616, 4-3-73, Cl. 188-345.000.

Burnett, Richard T., to Bendix Corporation, The. Disc brake with automatic adjuster mechanism. 3,747,711, 7-24-73, Cl. 188-71.900.

Burnett, Richard T., to Bendix Corporation, The. Application adjuster for air-actuated disc brake. 3,768,602, 10-30-73, Cl. 188-71.900.

Burnett, Sibley C.: *See—*
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Burnett, William W. Measuring attachment for motor vehicle wheels. 3,779,456, 12-18-73, Cl. 235-95.000.

Burney, Charles F., 1/2 to Keneally, John. Method and means for treating filaments of hair, or the like. 3,735,768, 5-29-73, Cl. 132-9.000.

Burney, Charles F.; and Pazemenas, Vytautas V., to GTE Sylvania Incorporated. Coaxial cable transducer. 3,763,482, 10-2-73, Cl. 340-258.00r.

Burney, Ivan T., to Westinghouse Electric Corporation. Precipitator cell. 3,707,828, 1-2-73, Cl. 55-138.000.

Burney, Ivan T., to Westinghouse Electric Corporation. Electrostatic precipitator. 3,733,783, 5-22-73, Cl. 55-104.000.

Burney, Ivan T., to Westinghouse Electric Corporation. Air conditioning condenser fan arrangement with condensate removal. 3,763,660, 10-9-73, Cl. 62-280.000.

Burnham, Fred E., to Litton Systems, Inc. Digital feed system for electronic antenna array. 3,713,158, 1-23-73, Cl. 343-100-50a.

Burnham, Fred E., to Litton Systems, Inc. Digital beam displacement circuit. 3,745,580, 7-10-73, Cl. 343-100.0sa.

Burnham, Peter B.: *See—*
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Burnhill, Michael S. Vaginal sponge. 3,762,414, 10-2-73, Cl. 128-285.000.

Burnie, Robert T.; Clarke, David W.; and Hamilton, Wilson S., to Boeing Company, The. Method of rendering hydrophobic the surface of a transparent sheet and surface-conditioning composition therefor. 3,766,123, 10-16-73, Cl. 260-324.000.

Burns, Alan Alexander, Jr.: *See—*
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Burns, Arnold J.; Snow, Glen F.; and Vandersall, Howard L., to Monsanto Company. Fire retardant coating composition. 3,733,289, 5-15-73, Cl. 260-28.50r.

Burns, Bernard J.: *See—*
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Burns, Bland Calvin; and Albertsen, Hans C. Method and apparatus for conveying sewage. 3,730,884, 5-1-73, Cl. 210-15.000.

Burns, Carmen D., to Texas Instruments, Incorporated. Liquid crystal display panel. 3,771,855, 11-13-73, Cl. 350-160.01c.

Burns, Charles D., Co.: *See—*
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Burns, Charles L., to Mallory, P. R., & Co., Inc. Bell crank type operating means for simultaneously actuating interlocked pair of electrical switches. 3,761,652, 9-25-73, Cl. 200-50.00c.

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Meyers, Robert A.; and Burns, Eugene A., 3,759,868.

Burns, Eugene A.; and Jones, Robert J., to TRW Inc. Endo alicyclic end capped polyquinoxaline resins. 3,748,307, 7-24-73, Cl. 260-72.500.

Burns, Eugene A.; and Jones, Robert J., to TRW Inc. Endo alicyclic end capped polyimidazopyrrolone. 3,748,310, 7-24-73, Cl. 260-78.40r.

Burns, Eugene A.; and Jones, Robert J., to TRW Inc. Heterocyclic endo alicyclic end capped resins. 3,748,311, 7-24-73, Cl. 260-78.40r.

Burns, Eugene A.; and Jones, Robert J., to TRW Inc. Thermosetting hydrazide polymers. 3,748,312, 7-24-73, Cl. 260-78.40r.

Burns, Eugene A.; and Jones, Robert J., to TRW Inc. Pyrolytic polymerization catalyst. 3,781,247, 12-25-73, Cl. 260-78.40d.

Burns, Fred R. Combination knockout tool. 3,713,200, 1-30-73, Cl. 29-267.000.

Burns, Frederick B.: *See—*
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Burns, Henry L., to Covitron Corporation. Nebulizer. 3,744,722, 7-10-73, Cl. 239-338.000.

Burns, Howard M. Manual dexterity game. 3,721,440, 3-20-73, Cl. 273-1.00r.

Burns, James R.: *See—*
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Burns, John Andrew, to Western Electric Company, Incorporated. Method of forming a circuit. 3,729,816, 5-1-73, Cl. 29-593.000.

Burns, John Andrew; and Coucoulas, Alexander, to Western Electric Company, Incorporated. Method of forming circuit crossovers. 3,762,040, 10-2-73, Cl. 29-593.000.

Burns, Joseph, to Fairchild Camera and Instrument Corporation. Photodiode apparatus for reducing beam drift of a cathode ray tube display system. 3,743,883, 7-3-73, Cl. 315-21.000.

Burns, Joseph P.; Feltzin, Joseph; and Koehn, Erich, to ICI America Inc. Flame-retardant, polyurethane coating compositions. 3,764,577, 10-9-73, Cl. 260-45.70p.

Burns, Joseph P.; Feltzin, Joseph; and Sanderson, Frank T., to ICI America Inc. Flame-retardant, polyurethane coating compositions. 3,778,408, 12-11-73, Cl. 260-45.70p.

Burns, Joseph Richard, to RCA Corporation. Semiconductor memory using variable threshold transistors. 3,760,378, 9-18-73, Cl. 340-173.00r.

Burns, Lloyd G. Fish scaler. 3,766,605, 10-23-73, Cl. 17-64.000.

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Burns, Mark T. Prefabricated structure adapted to be attached to a vehicle top. 3,734,110, 5-22-73, Cl. 135-1.00a.

Burns, Marvin; Ogden, Charles Thomas; and Rodzen, Richard A., to IIT Research Institute. Steerable catheter. 3,773,034, 11-20-73, Cl. 128-2.00m.

Burns, Richard H.: *See—*
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Burns, Richard H., to Hobart Manufacturing Company, The. Separator sheet feeder for food machinery. 3,710,533, 1-16-73, Cl. 53-157.000.
Burns, Robert J., Jr. Liquid dispenser. 3,765,577, 10-16-73, Cl. 222-501.000.
Burns, Robert Vincent, to GTE Automatic Electric Laboratories, Incorporated. Coin telephone circuit. 3,760,101, 9-18-73, Cl. 179-6.30r.
Burns, Robert W., to General Cable Corporation. Apparatus for assembling a component of parts comprising terminations, conductor leads and enclosures. 3,765,073, 10-16-73, Cl. 29-203.00d.
Burns, Russell W., to Merit Abrasive Products, Inc. Rotary abrasive device. 3,711,261, 1-16-73, Cl. 51-334.000.
Burns, Simon Pierce; and Hartman, Henry Edmund, to Jefferson Chemical Company, Inc. Recovery of propylene oxide from contaminants by distillation in the presence of acetone or acetone-methanol mixtures. 3,715,284, 2-6-73, Cl. 203-56.000.
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Burns, Tom V., to Amex Phosphates, Inc. Method for making ammonium phosphate fertilizer. 3,734,708, 5-22-73, Cl. 71-34.000.
Burns, William A., Jr.: *See—*
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Burns, William F., to Petrolite Corporation. Circular flotation system. 3,733,272, 5-15-73, Cl. 210-221.000.
Burnsdie, Charles H., to Phillips Petroleum Company. Propellant burning rate catalyst and method of propulsion. 3,753,348, 8-21-73, Cl. 60-219.000.
Burnside, Floyd D., to Shell Oil Company. Apparatus and method for filtering well fluids. 3,730,268, 5-1-73, Cl. 166-177.000.
Burnside, Walter M.: *See—*
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Burnsweig, Joseph, Jr.; and Heimiller, Robert C., to Hughes Aircraft Company. High power, broad bandwidth modulator of RF energy. 3,766,551, 10-16-73, Cl. 343-5.0dp.
Buroni, Vittorio, to Industrie Pirelli S.p.A. Method for preparing an oil-filled cable having a corrugated sheath for cutting and cable so prepared. 3,726,008, 4-10-73, Cl. 29-628.000.
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Burpee, Lee E.; Burpee, Charles D.; and Paynter, Donald A. Instrumented token. 3,766,452, 10-16-73, Cl. 317-262.00r.
Burr, Derek James; and Betteridge, Walter, to International Nickel Company, Inc., The. Production of sintered metal products. 3,708,282, 1-2-73, Cl. 75-200.000.
Burr-Ban Tool Service Company: *See—*
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Burrage, Lawrence M.; and McStrack, Darrel D., to McGraw-Edison Company. Apparatus for producing wet process ceramic bodies. 3,719,581, 3-6-73, Cl. 204-299.000.
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Burrell, Wayne R.; and Burrell, Richard P., 3,765,636.
Burrell, Frank C., to General Motors Corporation. Vehicle steering system. 3,765,698, 10-16-73, Cl. 280-96.200.
Burrell, Geoffrey John: *See—*
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Burrell, Wayne R.; and Burrell, Richard P., to Burrell Bros., Inc. Bracket for gas containers. 3,753,543, 8-21-73, Cl. 248-313.000.
Burrell, Wayne R.; and Burrell, Richard P., to Burrell Bros., Inc. Bracket for gas containers and similar tanks. 3,765,635, 10-16-73, Cl. 248-313.000.
Burrell, Wayne R.; and Burrell, Richard P., to Burrell Bros., Inc. Vise for gas containers and similar tanks. 3,765,636, 10-16-73, Cl. 248-313.000.
Burress, George Thomas, to Mobil Oil Corporation. Vapor-phase alkylation in presence of crystalline aluminosilicate catalyst. 3,751,506, 8-7-73, Cl. 260-671.00r.
Burress, George Thomas, to Mobil Oil Corporation. Vapor-phase alkylation in presence of crystalline alumino-silicate catalyst. 3,755,483, 8-28-73, Cl. 260-671.00r.
Burridge, George D. Tamper bar for a tamping machine. 3,729,055, 4-24-73, Cl. 172-719.000.
Burridge, Robert E.; and Everson, Peter O., to Craftings, Inc. Lampshade and method of assembly. 3,778,611, 12-11-73, Cl. 240-108.00d.
Burris, Donald J., to Outdoor Sports Industries, Inc. Riflescope mount. 3,750,318, 8-7-73, Cl. 42-1.00s.
Burris, Glenn A.; and Lares, Joseph P. Metering valve. 3,727,882, 4-17-73, Cl. 251-209.000.
Burris Industries, Incorporated: *See—*
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Burrough, Donald E.; Scheffler, David R.; and Seefeld, Dean E., to Gehl Company. Feed material handling apparatus. 3,724,908, 4-3-73, Cl. 302-37.000.
Burrough, Donald E.; and Braunberger, Benjamin A., to Gehl Company. Mower conditioner. 3,729,907, 5-1-73, Cl. 56-14.100.
Burrough, Donald E.; and Braunberger, Benjamin A., to Gehl Company. Wheel suspension means for agricultural machine. 3,754,383, 8-28-73, Cl. 56-14.400.
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Burroughs, Elvin O. Releasable hook means for securing log loads. 3,735,452, 5-29-73, Cl. 24-68.0cd.
Burroughs, Frank P., to Optical Recognition Systems, Inc. Overlapped document detector. 3,773,321, 11-20-73, Cl. 271-57.000.
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Burroughs, Robert K.; and Wakefield, Timothy A., to LeBlond, R. K., Machine Tool Company. Measuring method and apparatus. 3,731,388, 5-8-73, Cl. 33-125.00m.
Burroughs, Robert S.; and Forbes, F. Douglas, to Hughes Aircraft Company. Adjacent CATV channel jamming. 3,760,097, 9-18-73, Cl. 178-5.100.
Burroughs, V. P., and Sons, Inc.: *See—*
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Burrow, John M., Jr. Cart for transporting television set. 3,741,574, 6-26-73, Cl. 280-5.320.
Burrow, Melvin N. Remote well plugging apparatus. 3,717,202, 2-20-73, Cl. 166-55.000.
Burrows, Charles B.; and Vajda, Edward A. Foundation strip for concrete molding. 3,778,020, 12-11-73, Cl. 249-219.00r.
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Burrows, Harold George; and Hepworth, Stephen John. Polyamides. 3,763,113, 10-2-73, Cl. 260-78.0sc.
Burrows, Joseph M. Removable peripheral light assembly for bathroom mirror. 3,737,646, 6-5-73, Cl. 240-4.200.
Burrows, Milford D.; and Morganson, Peter H., to Stanley Works, The. Portable reciprocating saw drive mechanism. 3,750,483, 8-7-73, Cl. 74-50.000.
Burrows, Owen M., to Norton Company. Refractory cement lining for coreless induction furnaces. 3,751,571, 8-7-73, Cl. 13-35.000.
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Burrus, Charles; and Boegli, Serge. Process of making cigarette filters, and apparatus. 3,762,281, 10-2-73, Cl. 93-1.00c.
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Burstein, Ely. Slide fasteners. 3,745,636, 7-17-73, Cl. 29-207.5sl.
Burstein, Norman; and Ditzler, Richard C., to Smokontrol Corporation of America. Air cleaning apparatus. 3,779,710, 12-18-73, Cl. 23-288.00f.
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Burt, James Gordon, to Du Pont de Nemours, E. I., and Company. Mixtures of 1,1,2-trichloro-1,2,2-trifluoroethane, ethanol and acetone and a ternary azeotrope thereof. 3,728,268, 4-17-73, Cl. 252-170.000.

Burt, Ralph D. Eccentric weight rotary vibrator. 3,772,923, 11-20-73, Cl. 74-61.000.

Burtelson, Frederick W., to Reliable Electric Company. Method of post-tensioning prestressed concrete. 3,762,027, 10-2-73, Cl. 29-452.000.

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Burth, Willi. Supply and take-up system for film and the like. 3,780,959, 12-25-73, Cl. 242-55.180.

Burthardt, Charles J. Adjustable-pivot pliers. 3,768,346, 10-30-73, Cl. 81-401.000.

Burtis, Samuel O. Hydrofoil-shaped stabilizing or attitude-affecting means for boats. 3,753,415, 8-21-73, Cl. 114-126.000.

Burtis, Wilson A., to Crane Co., mesne. Tubing flaring tool. 3,758,932, 9-18-73, Cl. 29-200.00b.

Burtis, Wilson A., to De Laval Turbine California, Inc. Tubing coupling. 3,768,843, 10-30-73, Cl. 285-114.000.

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Burton, Charles A., to Rimrock Corporation. Article forming machine and extractor. 3,765,474, 10-16-73, Cl. 164-344.000.

Burton, Charles G., to Chisholm-Ryder Company, Inc. Picking arm construction in a machine for harvesting fruit grown on plants arranged in a row. 3,774,381, 11-27-73, Cl. 56-330.000.

Burton, Cyril; and Steeves, Douglas. Underwater saw for tree and stump removal. 3,719,116, 3-6-73, Cl. 83-483.000.

Burton, Dennis Ernest; Newbold, Geoffrey Tattersall; Percival, Albert; Lambie, Alan James; and Sencial, Ian Robert. 2-Trifluoromethyl-or 2-pentafluoroethylbenzimidazole compounds. 3,721,678, 3-20-73, Cl. 260-309.200.

Burton, Dennis Ernest; Newbold, Geoffrey Tattersall; Percival, Albert; Lambie, Alan James; and Sencial, Ian Robert, to Fisons Limited. Benzimidazole compound, method of use, and compositions. 3,725,554, 4-3-73, Cl. 424-273.000.

Burton, Douglas G.; and Kiger, Norman L. Thermo plastic tubing furniture. 3,719,389, 3-6-73, Cl. 297-440.000.

Burton, Duane C. Concrete form. 3,770,237, 11-6-73, Cl. 249-3.000.

Burton, Earl F.: *See—*
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Burton, James A., to AMF Incorporated. Writing apparatus for use with galvanometer devices. 3,728,735, 4-17-73, Cl. 346-139.00c.

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Burton, James R. Detachable dinghy or tender for sail boats. 3,734,047, 5-22-73, Cl. 114-39.000.

Burton, James R., to Texaco Inc. Grease thickened with synergistic proportions of bentonite clay and polyethylene. 3,753,906, 8-21-73, Cl. 252-28.000.

Burton, Jay E., to Drake, Crandell & Batchelder, mesne. Downed-aircraft radio-locator beacon and related apparatus. 3,723,881, 3-27-73, Cl. 325-115.000.

Burton, Jean A.; White, T. Stanley; and Myrland, Harold M., to Hormel, Geo. A., & Co. Process and apparatus for slicing and weighing bacon for packaging. 3,730,742, 5-1-73, Cl. 99-233.110.

Burton, John A.: *See—*
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Burton, Lawrence A., to Allen-Bradley Company. Conductor supporting partition for electrical control center. 3,710,198, 1-9-73, Cl. 317-120.000.

Burton, Maurice G., to Ute Linter, Inc. Adjustable tilt steering device. 3,724,290, 4-3-73, Cl. 74-493.000.

Burton, Maurice G. Mobile unit with overhead compartment. 3,758,147, 9-11-73, Cl. 296-23.00r.

Burton, Norman. Bubble dome vehicle roof top attachment. 3,764,179, 10-9-73, Cl. 296-137.00r.

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Burton, Parsons & Company, Inc.: *See—*
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Burton, Pearl, to International Telephone and Telegraph Corporation. Inorganic flameproofing composition for organic materials. 3,741,929, 6-26-73, Cl. 260-40.00r.

Burton, Perry E., to Burton and Noonan. Method and apparatus for forming cloth lengths with folded hems. 3,772,948, 11-20-73, Cl. 83-23.000.

Burton, Perry E., to Burton & Noonan. Method and apparatus for folding and sewing. 3,773,002, 11-20-73, Cl. 112-121.120.

Burton, Peter Edward: *See—*
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Burton, Roy Harold; and Baldwin, Tony Lewis, to Imperial Chemical Industries Limited. Apparatus and process for measuring fiber lengths. 3,739,183, 6-12-73, Cl. 250-219.00s.

Burton, Thomas A.; and Moberg, Allen W., to Waters Instruments, Inc. Renal preservation system. 3,777,507, 12-11-73, Cl. 62-306.000.

Burtscher, Joachim; Emeis, Reimer; and Herlet, Adolf, to Siemens Aktiengesellschaft. Method of producing small area semiconductor components. 3,716,911, 2-20-73, Cl. 29-578.000.

Burtscher, Joachim; Frohmader, Karl-Peter; Porst, Alfred; and Voss, Peter, to Siemens Aktiengesellschaft. Thyristor with auxiliary emitter connected to base between base groove and main emitter. 3,771,029, 11-6-73, Cl. 317-235.00r.

Burtscher, Joachim; Frohmader, Karl Peter; Porst, Alfred; and Voss, Peter, to Siemens Aktiengesellschaft. Thyristor with auxiliary emitter which triggers first. 3,777,229, 12-4-73, Cl. 317-235.00r.

Burtton, Hollis E. Perforating apparatus. 3,735,659, 5-29-73, Cl. 83-524.000.

Burum, Harold J. Frame connecting piece. 3,729,868, 5-1-73, Cl. 49-420.000.

Burup, Poul M. Ventilating system. 3,760,708, 9-25-73, Cl. 98-39.000.

Burus, Harry Shaner; Miller, Richard Carrel; and Sautter, Helmuth Otto, to Bell Telephone Laboratories, Incorporated. Slow scan procedure for high resolution graphics mode video scene compatible with conditional replenishment type of bandwidth reduction. 3749,829, 7-31-73, Cl. 178-6.800.

Burvee, Alfred B. Automatic steering system. 3,765,501, 10-16-73, Cl. 180-79.20r.

Burwell, Bruce K.; and Powell, Kenneth, to Westinghouse Electric Corporation. Tuned cavity device. 3,727,099, 4-10-73, Cl. 315-39.590.

Burwell, Garwood N., to Rails Company, The. Adjustable fastener assembly for concrete ties. 3,731,875, 5-8-73, Cl. 238-346.000.

Burwell, Rodney P., to Northwestern National Bank of Minneapolis. Barge cover. 3,730,128, 5-1-73, Cl. 114-201.000.

Burwell, Stanley J., to Lyons Industries, Inc. Tire grinding feed device. 3,721,392, 3-20-73, Cl. 241-301.000.

Burwen, Richard S. Wide dynamic range noise masking compandor. 3,732,371, 5-8-73, Cl. 179-1.00r.

Burwen, Richard S. Variable bandpass dynamic noise filter. 3,753,159, 8-14-73, Cl. 333-17.000.

Burwood Products Company: *See—*
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Bury, Allen J., to Molex Incorporated. Range surface receptacle. 3,750,092, 7-31-73, Cl. 339-192.0rl.

Buryabash, Alexei Nikolaevich: *See—*
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Burzan, Vernon J.: *See—*
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Busbey, William F.; and Hopkins, Donald L., to Caterpillar Tractor Company. Summing valve arrangement. 3,732,036, 5-8-73, Cl. 417-216.000.

Busby, Brian James; and Hughes, David Alexander, to Imperial Chemical Industries of Australia and New Zealand Limited. Continuous polymerisation process. 3,755,281, 8-28-73, Cl. 260-92.80w.

Busby, Donald W.; and Goodfellow, Robert D., Jr., to Subterranean Tools Inc. Seal ring and method of making. 3,751,049, 8-7-73, Cl. 277-235.00a.

Busby, Hubert: *See—*
Jackson, William J.; and Busby, Hubert, 3,741,673.

Busby, John T., to Lee, Raymond, Organization, Inc., The. Collapsible table trailer. 3,712,662, 1-23-73, Cl. 296-23.00r.

Busby, Llewellyn D., to General Electric Company. Steam flatiron. 3,738,033, 6-12-73, Cl. 38-77.830.

Busch, Bennie T. Barrel stave edge sawing machine. 3,710,836, 1-16-73, Cl. 147-28.000.

Busch, Edward R.; and Wood, Guy B., to Weston Instruments, Inc. Thickness change radiation gauge. 3,715,592, 2-6-73, Cl. 250-83.30d.

Busch, John E.; and Puccini, Sergio E., to GTE Automatic Electric Laboratories, Incorporated. Switching arrangement for controlling peripheral units in a time division multiplex common control system. 3,714,379, 1-30-73, Cl. 179-18.00j.

Busch, John Edward, to GTE Automatic Electric Laboratories, Incorporated. Party and coin detection arrangement for a communication switching system. 3,760,112, 9-18-73, Cl. 179-17.00a.

Busch, John F., to GTE Automatic Electronic Laboratories, Incorporated. Digit impulse scanning arrangement for a communication switching system. 3,772,476, 11-13-73, Cl. 179-18.0sb.

Busch, John M., to FMC Corporation. Fluid operated friction clutch with dump valve. 3,762,520, 10-2-73, Cl. 192-106.00f.

Busch, Josef: *See—*
Heyl, Gerhard; Luttgens, Gunter; Behr, Rolf; Maus, Fritz; Frenken, Hans; Busch, Josef; Bruck, Herbert; and Schaffer, Helmut, 3,717,791.
Hunicke, Wolfgang; Spohr, Rolf; Schranz, Karl-Wilhelm; Busch, Josef; Schon, Erwin; and Frick, Hans-Dieter, 3,714,883.
Schranz, Karl-Wilhelm; Hunicke, Wolfgang; and Busch, Josef, 3,714,882.

Busch, Josef; Bruck, Herbert; Schranz, Karl-Wilhelm; Schon, Erwin; and Frick, Hans-Dieter. Apparatus for processing exposed photographic film or the like. 3,724,355, 4-3-73, Cl. 95-94.00r.

Busch, Norbert: *See—*
Mauvernay, Roland Yves; Busch, Norbert; Simond, Jacques; and Moleyre, Jacques, 3,712,893.
Mauvernay, Roland Yves; Busch, Norbert; Moleyre, Jacques; and Simond, Jacques, 3,718,650.
Mauvernay, Roland Yves; and Busch, Norbert, 3,728,457.
Mauvernay, Roland Yves; Busch, Norbert; Simond, Jacques; and Moleyre, Jacques, 3,781,432.

Busch, Paul F.; and Krumme, John F., to Ski Valet, Inc. Storage and locking assembly for skis and poles. 3,722,652, 3-27-73, Cl. 194-64.000.

Busch, Peter: *See—*
Story, Paul R.; and Busch, Peter, 3,781,303.

Busch, Richard E., to Addmaster Corporation. Resilient support. 3,744,747, 7-10-73, Cl. 248-22.000.

Busch, Richard E., to Addmaster Corporation. Paper feed mechanism for data printers. 3,749,221, 7-31-73, Cl. 197-116.000.

Busch, Robert Edward, to RCA Corporation. Method for dicing materials having a hexagonal crystal structure. 3,731,861, 5-8-73, Cl. 225-2.000.

Busch, Theo; and Dienst, Rudolf, to Ludwig-Ofag-Indugas Industrieofenanlagen GmbH. Apparatus for the cooling of bodies under protective gas. 3,778,043, 12-11-73, Cl. 266-2.00r.

Busch, Thomas W., to Appleton Papers, Inc. Method for manufacture of manifolding paper coated with pressure rupturable materials. 3,767,451, 10-23-73, Cl. 117-36.200.

Busche, Kenneth A. Programmed illumination of panel display sections. 3,749,484, 7-31-73, Cl. 353-30.000.

Buschen, Bernard J. Tool holder rack. 3,749,252, 7-31-73, Cl. 211-60.00t.

Buscher, Richard G.; and Davis, Richard L., to Lear Siegler, Inc. Electrically synchronized controllers. 3,748,749, 7-31-73, Cl. 35-11.000.

Buscher, Richard G.; Davis, Richard L.; Kazmarek, Edward; and Larsen, Richard K., to Lear Siegler, Inc. Mechanical linkage system. 3,765,263, 10-16-73, Cl. 74-491.000.

Buschmann, Hans; Mehlhart, Erwin; Pomplun, Emil; and Schwibbe, Alfred, to Nixdorf Computer AG. Electromagnetic drive. 3,755,700, 8-28-73, Cl. 310-30.000.

Buschmann, Horst, to Schloemann Aktiengesellschaft. Conveying and cooling lengths of semi-finished products. 3,722,709, 3-27-73, Cl. 214-1.0bc.

Buschmann, Karl: *See—*
Auer, Werner; Buschmann, Karl; Hauser, Heinz; and Knobloch, Walter, 3,738,940.

Buschow, Kurt Heinz Jurgen; Westendorp, Frans Frederik; and Wijn, Henricus Petrus Johannes. Method of manufacturing a body having anisotropic, permanent magnetic properties. 3,723,197, 3-27-73, Cl. 148-103.000.

Buse, Frederic W., to Ingersoll-Rand Company. Toothed shroud centrifugal impeller. 3,746,467, 7-17-73, Cl. 416-186.000.

Bush, Albert F.: *See—*
Farber, Milton; Bush, Albert F.; and Wiens, Franklin J., 3,768,232.

Bush Boake Allen Limited: *See—*
Curtis, Anthony J.; Janes, John F.; and Jaggers, Brian G., 3,745,131.
Sully, Bernard Thomas Dudley, 3,763,245.

Bush, Brian, to Adler Outo Precision Ltd. Method and apparatus for mixing liquids. 3,775,058, 11-27-73, Cl. 23-230.00r.

Bush, Carl D.; and Root, Robert S., to Lipe-Rollway Corporation. Fluid clutch with self-contained pump. 3,749,217, 7-31-73, Cl. 192-113.00b.

Bush, Charles E. Welding rod holder. 3,732,986, 5-15-73, Cl. 211-60.00r.

Bush, Clarence C., to United States of America, Army. Apparatus for measuring skin friction. 3,714,824, 2-6-73, Cl. 73-117.400.

Bush, Clarence C., to United States of America, Army. Vee-belt spring-O-matic power transmission. 3,771,377, 11-13-73, Cl. 74-230.17a.

Bush, Dale A. Demand-responsive fish feeder. 3,741,163, 6-26-73, Cl. 119-54.000.

Bush, Elsmore W., to Cubic Corporation. Navigation aid. 3,727,226, 4-10-73, Cl. 343-112.0pt.

Bush, Eric Langley: *See—*
Sterling, Henley Frank; and Bush, Eric Langley, 3,708,728.

Bush, Fred J., Jr., to N L Industries, Inc. Radiation shielding means joint and method of making same. 3,751,669, 8-7-73, Cl. 250-506.000.

Bush, George W.: *See—*
Szabo, Marton; and Bush, George W., 3,737,944.

Bush, Glenn W.: *See—*
Baker, James N.; Bird, Richard A.; and Bush, Glenn W., 3,775,151.

Bush, Henry J.; Entzminger, John N., Jr.; and Richard, Walter R., to United States of America, Air Force. Coherent frequency hopped, phase modulated acoustic surface wave generator. 3,736,587, 5-29-73, Cl. 340-351.000.

Bush, Ian E., to Cybertek, Inc. Method and apparatus for extraction of solvent extracts. 3,752,651, 8-14-73, Cl. 23-230.00r.

Bush, Ian E., to United States of America, Health, Education and Welfare. Mixer-separator for automated analytical chemistry system. 3,780,936, 12-25-73, Cl. 233-20.00r.

Bush, Jacquelyn D.: *See—*
Huffman, William A.; Lowrey, Dean R.; Hill, Brian K.; and Bush, Jacquelyn D., 3,767,414.

Bush, John W.; and Cunningham, Andrew E., to Borg-Warner Corporation. Fluid pressure brake system. 3,730,541, 5-1-73, Cl. 303-21.00f.

Bush, Paul S. Shelf position-holding means. 3,709,166, 1-9-73, Cl. 108-106.000.

Bush, Paul S. Containers and their construction. 3,759,412, 9-18-73, Cl. 220-7.000.

Bush, Philip D.: *See—*
Fitzhugh, Edward F., Jr.; Bush, Philip D.; and Seidel, Don C., 3,737,307.

Bush, Richard Paul; Lloyd, Norman Cecil; and Pearce, Christopher Arthur, to Dow Corning Limited. Cyclicilazanes. 3,742,003, 6-26-73, Cl. 260-448.20n.

Bush, Richard Paul, to Midland Silicones Limited. Siloxazanes compositions and processes thereof. 3,755,398, 8-28-73, Cl. 260-448.20n.

Bush, Robert E.: *See—*
Degelleke, Gerrit; and Bush, Robert E., 3,734,307.

Bush, Roy L.; and Beattie, Harold R., to Continental Oil Company. Apparatus for securing small diameter conduit to a larger diameter tubing string or the like. 3,757,387, 9-11-73, Cl. 24-81.0cc.

Bush, Stanley Edward: *See—*
Bunce, Michael Kelly; Bush, Stanley Edward; Fargo, George Arthur, Jr.; and Saltus, George Edwin, 3,723,654.

Bush, Vannevar; and Smith, Joseph L., Jr., to Massachusetts Institute of Technology. Circuital flow hot gas engines. 3,708,979, 1-9-73, Cl. 60-59.00r.

Bush, Walter Monroe; and Gates, John Warburton, Jr., to Eastman Kodak Company. Image transfer systems with onium indophenoxide image dyes. 3,765,886, 10-16-73, Cl. 96-3.000.

Bush, Walter R.: *See—*
Ambler, E. Curtis; Scoville, Andrew E.; and Bush, Walter R., 3,723,815.

Bushee, Joseph J. Apparatus for controlling flow of pressurized fluids. 3,713,462, 1-30-73, Cl. 137-625.210.

Bushey, Albert H.: *See—*
Wittrock, Henry J.; Baker, Bernard R.; and Bushey, Albert H., 3,726,721.

Bushick, Ronald D.: *See—*
Wimer, William W.; and Bushick, Ronald D., 3,766,257.

Bushick, Ronald D., to Sun Oil Company. Process for producing sym-octahydroanthracene from sym-octahydrophenanthren. 3,715,406, 2-6-73, Cl. 260-668.00f.

Bushick, Ronald D.; Norman, Oscar L.; and Spinelli, Harry J. Formation of naphthalene-2,6-dicarboxylic acid. 3,718,690, 2-27-73, Cl. 260-515.00p.

Bushick, Ronald D.; and Hirschler, Alfred E., to Sun Oil Company. Catalytic conversion of polycyclic aromatic hydrocarbons in the presence of hydrogen. 3,776,968, 12-4-73, Cl. 260-668.00f.

Bushin, Alexandr Nikitich: *See—*
Stepanov, Gennady Arkadievich; Bushin, Alexandr Nikitich; Turian, Yakov Iosifovich; Kirnos, Yakov Yakovlevich; Kolobikhin, Valentin Alexandrovich; Baranova, Pavla Sergeevna; Sherashov, Vadim; Rastvorov, Jury Nikolaevich; Emelyanova, Elena Nikolaevna; and Sishkina, Irina Mikhailovna, 3,726,937.

Bushman, John Andrew, to Pye Limited. Medical respirators. 3,729,001, 4-24-73, Cl. 128-188.000.

Bushman, R. C.: *See—*
Shrewsbury, Robert S.; Webb, J. D.; and Bushman, R. C., 3,753,397.

Bushmeyer, Richard W.; and Miller, Charles D.; deceased (by Holmstrom, John, Jr.; administrator), to Case, J. I., Company. Bite-size body of hay. 3,723,129, 3-27-73, Cl. 99-2.000.

Bushnell, Calvin L., to United Aircraft Corporation. Matrix-type fuel cell with circulated electrolyte. 3,748,179, 7-24-73, Cl. 136-86.00r.

Bushnell, Calvin L.; and Stedman, James K., to United Aircraft Corporation. Matrix-type fuel cell. 3,779,811, 12-18-73, Cl. 136-86.00r.

Bushnell, David P.: *See—*
Akin, Alfred A., Jr.; and Bushnell, David P., 3,744,872.

Bushnell Optical Corporation: *See—*
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Bushnell, Sherman W., Jr. Control system for multi-stage lift. 3,734,464, 5-22-73, Cl. 254-93.00r.

Bushnell, Sherman W., Jr. Multi-stage life. 3,752,261, 8-14-73, Cl. 182-17.000.

Bushnell, William H., to United States of America, Army. Waveguide phase shift actuator. 3,728,647, 4-17-73, Cl. 333-98.00r.

Bushon, Richard J. Wire hanger attachment. 3,720,357, 3-13-73, Cl. 223-85.000.

Bushrod, Charles James, to Electric Power Storage Limited. Mould for casting electrode grids for electric storage batteries. 3,709,459, 1-9-73, Cl. 249-134.000.

Bushtedt, Jury Petrovich: *See—*
Kudinov, Vladimir Mikhailovich; Bushtedt, Jury Petrovich; Dudko, Daniil Andreevich; Arkhangelsky, Georgy Alexandrovich; Pogoretsky, Georgy Ivanovich; Volgin, Leonid Alexandrovich; Kotov, Viktor Anatolievich; Surnin, Boris Anatolievich; and Degtyarev, Mikhal Vasiievich, 3,780,927.

Bushyhead, Jess C., to Hallmark Cards, Incorporated. Merchandise display structure. 3,756,168, 9-4-73, Cl. 108-111.000.

Busian, Vincent V., to General Electric Company. Method and means of assembling a dyamoelectric machine. 3,755,889, 9-4-73, Cl. 29-596.000.

Business Builders International, Inc.: *See—*
Torme, Albert; and Wolfson, Jerome Theodore, 3,766,680.

Buske, Ervin. Claw hook for chains. 3,729,926, 5-1-73, Cl. 59-93.000.

Busker, Leroy H.; and Francik, Carl J., to Beloit Corporation. Fibrous web press nip structure including nonporous belts backed by pistons supported with fluid pressure. 3,748,225, 7-24-73, Cl. 162-272.000.

Busking, Bob E., to Shell Oil Company. Floating structure with rotatable templet for connecting guide lines thereto. 3,760,875, 9-25-73, Cl. 166-.500.

Buskirk, David L.: *See—*
Sharp, Richard A.; McGrew, Jay L.; Gille, John P.; Mowrey, Eugene C.; and Buskirk, David L., 3,767,498.

Busler, Willard LeRoy; and Ross, Milton Dean, to AMP Incorporated. Assembling apparatus. 3,711,922, 1-23-73, Cl. 29-203.00b.

Busler, William R.: *See—*
Hsieh, Henry L.; Mueller, Francis X., Jr.; and Busler, William R., 3,764,639.

Buslik, Walter S., to International Business Machines Corporation. Magnetic disk storage file in sealed enclosure. 3,710,357, 1-9-73, Cl. 340-174.10c.

Buss A.G.: *See—*
Blochl, Walter; and Oberbacher, Bonifaz, 3,773,907.
Franz, Peter; and Maier, Andreas, 3,734,415.
Koller, Hans, 3,742,611.
Koller, Hans; and Frey-Portner, Urs, 3,755,913.
Weber, Wilhelm G.; Gresch, Pratteln Walter; and Stojanovic, Muttenz Ivan, 3,726,648.

Buss, Benjamin Alvin; and Buss, Donald C. Cassette and intimate system of washing soiled fabrics and material. 3,729,959, 5-1-73, Cl. 68-19.100.

Buss, Benjamin Alvin; and Buss, Donald C., to Ametek, Inc. Single operator sheet folder. 3,752,470, 8-14-73, Cl. 270-80.000.

Buss, David R.: *See—*
Churchill, Bruce W.; Steel, Robert; and Buss, David R., 3,740,318.

Buss, Donald C.: *See—*
Buss, Benjamin Alvin; and Buss, Donald C., 3,729,959.
Buss, Benjamin Alvin; and Buss, Donald C., 3,752,470.

Buss, Keen W.; and Speece, Richard E., to Marine Protein Corporation. Fish husbandry system. 3,756,197, 9-4-73, Cl. 119-3.000.

Buss Ltd.: *See—*
Sutter, Fritz; and Ronner, Fritz, 3,776,529.

Buss, Waldeen C.; and Kluksdahl, Harris E., to Chevron Research Company. Reforming with a platinum-tin-iridium catalyst. 3,718,578, 2-27-73, Cl. 208-139.000.

Busse, Ewald A.; and Raker, Glen W. Vacuum collar for roofing kettles and the like. 3,718,131, 2-27-73, Cl. 126-343.50a.

Busselaar, Cornelis A.: *See—*
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Bussey, Marlin G.: *See—*
Corbett, John M.; Bussey, Marlin G.; and Killingbeck, Graydon Wayne, 3,770,668.

Bussi, Ennio, to Fernando Fontana & C.S.a.s. Watchcase, in particular for a waterproof and subaqueous watch. 3,777,473, 12-11-73, Cl. 58-90.00r.

Bussienne, Christian Edmond, to Constructions Mills-K. Device for mounting rollers on a runway. 3,721,326, 3-20-73, Cl. 193-35.00r.

Bussmann W., KG: *See—*
Ginzel, Severin; and Niederhuber, Peter, 3,771,930.

Busson, Christian: *See—*
Alagy, Jacob; Busson, Christian; Gadelle, Claude; and Seree de Roch, Irenee, 3,717,662.
Alagy, Jacob; and Busson, Christian, 3,781,344.

Bustamante, Santiago J.; and Schell, Donald H., to United States of America, Atomic Energy Commission. Extrusion die. 3,778,217, 12-11-73, Cl. 425-467.000.

Bustin, Franz, to Mobil Oil Corporation. Method of embossing thin, limp plastic film, and disposable and embossed plastic bag product. 3,760,940, 9-25-73, Cl. 206-58.000.

Bustin, Leopold. Pinless hinge. 3,718,943, 3-6-73, Cl. 16-178.000.

Bustin, Leopold. Self cleaning safety step bar. 3,741,341, 6-26-73, Cl. 182-228.000.

Bustin, Leopold. Traction mat. 3,752,396, 8-14-73, Cl. 238-14.000.

Bustraan, Daniel J.; Gossie, Mijo A.; Sundstrom, Roy N.; and Wisner, William R., to Corning Glass Works. Article handling apparatus and method. 3,731,862, 5-8-73, Cl. 225-4.000.

Busuttil, Henry L.; Kreisler, Sol S.; McGibbeny, James R.; and Pearson, Russell O., to TRW Inc. Electrical connector with coaxial contacts. 3,753,206, 8-14-73, Cl. 339-16.00c.

Butane Match A.G.: *See—*
Piffath, Rodney S.; and Cole, John J., 3,709,462.
Piffath, Rodney S.; and Cole, John J., 3,740,183.

Butcher, Edward Peter, to Bakelite Xylonite Limited. Fire-retardant compositions. 3,715,310, 2-6-73, Cl. 252-8.100.

Butcher, Louis M., to Aluminum Company of America. Electric coil. 3,727,163, 4-10-73, Cl. 336-206.000.

Butcher, Louis M., to Aluminum Company of America. Method of forming a laminate structure. 3,773,585, 11-20-73, Cl. 156-192.000.

Butcher, Robert E., to Esco Manufacturing Company. Fault responsive switching system. 3,767,934, 10-23-73, Cl. 307-64.000.

Butcher, Wade E., Jr.; and Sims, Robert J., to Harris-Intertype Corporation, mesne. Adaptive processor for an RF antenna. 3,766,559, 10-16-73, Cl. 343-100.0sa.

Butcher, Wilfred H. Rotary trencher having adjustable depth control means. 3,711,158, 1-16-73, Cl. 299-27.000.

Butek, William T., Jr.: *See—*
Baker, Herbert; Rathje, David S.; and Butek, William T., Jr., 3,761,672.

Buten, Norman: *See—*
Catalano, Paul D.; Buten, Norman; Eash, George H.; and Emanuel, Frank V., 3,733,119.

Butera, Thomas, Jr.: *See—*
Stasio, Robert; and Butera, Thomas, Jr., 3,758,219.

Buth, Wallace R. Disposable flexible liner for paint trays. 3,757,990, 9-11-73, Cl. 220-63.00r.

Butherus, Alexander Duane, to Bell Telephone Laboratories, Incorporated. Solid electrolyte batteries and methods for their production. 3,765,949, 10-16-73, Cl. 136-153.000.

Butler, Anna S.: *See—*
Butler, Neal L.; and Butler, Anna S., 3,773,358.

Butler, Anthony J., to Dow Corning Corporation. Propellants and refrigerants based on trifluoropropene. 3,723,318, 3-27-73, Cl. 252-67.000.

Butler Automatic, Inc.: *See—*
Bassett, Kirk W.; and Butler, Richard A., Jr., 3,753,833.
Bassett, Kirk W.; and Butler, Richard A., Jr., 3,756,526.

Butler, Charles T.: *See—*
Strum, Bernard J.; Quincy, Roger B., Jr.; and Butler, Charles T., 3,711,600.





Butler, David R., to Loewy, Raymond and Snaith, William, Inc. Bracket standard and base rail system. 3,733,755, 5-22-73, Cl. 52-36.000.

Butler, David R., to Loewy, Raymond and Snaith, William, Inc. Modular partition system. 3,733,756, 5-22-73, Cl. 52-36.000.

Butler, Donald E. 1-Amino-3-aminoalkyl-3-phenylindoline compounds. 3,725,436, 4-3-73, Cl. 260-326.110.

Butler, Donald E., to Parke, Davis & Company. Diazepine compounds and methods for their production. 3,770,762, 11-6-73, Cl. 260-308.00r.

Butler, Ernest J.; Gade, John N.; and Herberger, Robert J., to Eastman Kodak Company. Method and means for handling film cartridges. 3,742,586, 7-3-73, Cl. 29-430.000.

Butler, Eugene B.; Fak, Ivan A.; and Line, Lawrence L., to General Tire & Rubber Company, The. Hydrophilic-poromeric foam. 3,778,332, 12-11-73, Cl. 161-159.000.

Butler, Frank W. Centerboard pivot for a sailboat. 3,716,011, 2-13-73, Cl. 114-132.000.

Butler, Gene R.; and Sipe, Gary L., to Sperry Rand Corporation. Bale relocator mechanism for a bale wagon. 3,724,684, 4-3-73, Cl. 214-6.00b.

Butler, Gene R., to Sperry Rand Corporation. Positive mechanical drive for the bale separating hooks of a single bale unloading bale wagon. 3,754,668, 8-28-73, Cl. 214-8.560.

Butler, Gene R.; and Butler, Lee D., to Sperry Rand Corporation. Dampening system for the transfer table of a bale wagon. 3,777,904, 12-11-73, Cl. 214-6.00b.

Butler, Jaguith Gould; and Mack, Alfred, to RCA Corporation. Universal data quality monitor. 3,771,059, 11-6-73, Cl. 325-31.000.

Butler, James L. Aerosol dispenser with auxiliary valve. 3,750,909, 8-7-73, Cl. 222-148.000.

Butler, James M.; and Simmons, Gerald P., to Westinghouse Air Brake Company. Vehicle suspension system. 3,740,070, 6-19-73, Cl. 280-104.50r.

Butler, James N.; and Cogley, David R., to United States of America, Air Force. Lithium battery electrolyte additive and method of improving discharge rate. 3,716,410, 2-13-73, Cl. 136-6.000.

Butler, James Oscar, Jr.; and Shepherd, Bob G., to Columbia Products Company. Fishing line guide fastening and method of securing a fishing line guide. 3,760,524, 9-25-73, Cl. 43-24.000.

Butler, Joel F.: *See—*
Jones, Learoy H., Jr.; and Butler, Joel F., 3,760,966.

Butler, John D.: *See—*
Fitzner, Marcel; and Butler, John D., 3,729,096.

Butler, John Francis; Jordan, John William; and Orbeck, Finn, to Doxford and Sunderland Limited. Opposed piston two-stroke cycle internal combustion engines. 3,734,074, 5-22-73, Cl. 123-119.0cb.

Butler, John Mann; Follett, Archie E.; and Cass, Robert A., to United States of America, Atomic Energy Commission, mesne. Explosive composition containing lithium perchlorate and a nitrated amine. 3,723,202, 3-27-73, Cl. 149-19.000.

Butler, Joseph W., to Lear Siegler, Inc. Fluid coupling. 3,731,705, 5-8-73, Cl. 137-614.060.

Butler, Kenneth; Carroll, Ronnie D.; and Hamanaka, Ernest S., to Pfizer Inc. 6-(1-Carboxycycloalkylcarboxamido)penicillanic acid, derivatives and salts thereof. 3,728,334, 4-17-73, Cl. 260-239.100.

Butler, Lawrence: *See—*
Barnard, Mark Cary Sedgwick; and Butler, Lawrence, 3,780,791.

Butler, Lee D.: *See—*
Butler, Gene R.; and Butler, Lee D., 3,777,904.

Butler, Louis: *See—*
Pearson, Ian; Butler, Louis; and Errede, Louis A., 3,772,032.

Butler, Luther C., Jr.; and Jamieson, Robert S., to Lorain Products Corporation. Frequency comparator. 3,708,686, 1-2-73, Cl. 307-149.000.

Butler, Luther C., Jr., to Lorain Products Corporation. Majority logic system. 3,737,674, 6-5-73, Cl. 307-204.000.

Butler, Luther C., Jr., to Lorain Products Corporation. Majority logic system. 3,770,982, 11-6-73, Cl. 307-215.000.

Butler Manufacturing Company: *See—*
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Butler National Corporation: *See—*
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Butler, Neal L.; and Butler, Anna S. Trailer coupling device. 3,773,358, 11-20-73, Cl. 280-513.000.

Butler, R. B., Inc.: *See—*
Wallace, James L., 3,734,204.

Butler, Rex B., to United States of America, Navy. Rotary sabot projectile. 3,744,426, 7-10-73, Cl. 102-94.000.

Butler, Richard A., Jr.: *See—*
Bassett, Kirk W.; and Butler, Richard A., Jr., 3,753,833.
Bassett, Kirk W.; and Butler, Richard A., Jr., 3,756,526.

Butler, Richard G. Friction type screwdriver. 3,730,238, 5-1-73, Cl. 145-76.000.

Butler, Richard George. Selective chamber screw driver. 3,753,455, 8-21-73, Cl. 145-63.000.

Butler, Robert F.: *See—*
Stout, Lilburn G., Jr.; Butler, Robert F.; and Smith, Thomas S., 3,713,391.

Butler, Rolland O.: *See—*
Atkinson, Cliff C.; Butler, Rolland O.; and Ross, Francis J., 3,717,929.

Butler, Stuart L.; and Crocker, Robert E., to Texas Instruments, Incorporated. Snap disc thermal sequencer. 3,713,062, 1-23-73, Cl. 337-107.000.

Butler, Thomas A.; and Pflugfelder, Reinhold G., to Motorola, Inc. Pulse width control for radar transponders. 3,713,145, 1-23-73, Cl. 343-6.80r.

Butler, Thomas J. Cupola structure. 3,731,910, 5-8-73, Cl. 266-15.000.

Butler, Tony W., Jr. Tower with rotated cooling assembly. 3,721,290, 3-20-73, Cl. 165-85.000.

Butler, Tony W., Jr. Single Wankel diesel engine-compression in cross-ported horizontal tandem. 3,742,917, 7-3-73, Cl. 123-8.050.

Butler, Vaughn H., to Burlington Industries, Inc. Slitting mechanism for use with circular knitting machines. 3,768,279, 10-30-73, Cl. 66-147.000.

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Butler, Wilbur T. Liquid flow monitoring. 3,707,983, 1-2-73, Cl. 137-173.000.

Butler, William. Automatic breading machine. 3,735,726, 5-29-73, Cl. 118-24.000.

Butler, William D. Method of clacining limestone. 3,722,867, 3-27-73, Cl. 423-175.000.

Butler, William M., to Canadian Patents and Development Limited. Collapsible desk. 3,729,244, 4-24-73, Cl. 312-195.000.

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United States of America, National Aeronautics and Space Administration, 3,745,255.

Butre, Jean-Louis; and Pierrot, Francois, to Progil. Electrolytic process for obtaining chlorine in a pure state and alkali metal phosphates in concentrated solution and a cell for accomplishing this process. 3,763,005, 10-2-73, Cl. 204-90.000.

Butscher, Franz; and Bader, Werner, to Motoren- und Turbinen-Union Friedrichshafen GmbH. Electronic speed regulator for internal combustion engines. 3,777,174, 12-4-73, Cl. 290-40.000.

Buttafava, Pietro, to Honeywell Information Systems Italia S.p.A. Frequency-to-voltage converter device. 3,740,633, 6-19-73, Cl. 318-328.000.

Buttafava, Pietro, to Honeywell Information Systems Italia. Continuous mode motor speed control system. 3,745,436, 7-10-73, Cl. 318-464.000.

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Butter, Charles D., to Honeywell Inc. Acousto-optic device. 3,765,750, 10-16-73, Cl. 350-161.000.

Butter, Donald A.; Kern, Edmund R.; and Menelly, Richard A., to International Telephone and Telegraph Corporation. Cavity pellet emissive electrode. 3,718,831, 2-27-73, Cl. 313-346.00r.

Butter, Karl; and Knauer, Kuno, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Process for the production of regeneratively cooled rocket combustion chambers and thrust nozzle assemblies. 3,738,916, 6-12-73, Cl. 204-9.000.

Butter, Karl; Kaufmann, Michael; and Dederra, Helmut, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Thrust gas generator having a combustion chamber and thrust nozzle regeneratively cooled by a liquid. 3,768,256, 10-30-73, Cl. 60-260000.

Butter, Stephen A.: *See—*
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Butterfield, Delwin W. Pump mounting assembly. 3,726,610, 4-10-73, Cl. 417-360.000.

Butterfield, Max E.; Hoerr, Richard H.; McLees, Alan L.; and Proksch, Frederick D., to Caterpillar Tractor Company. Sandwich deck construction. 3,722,518, 3-27-73, Cl. 181-33.00g.

Butterfield, Ted Lee, to Spraying Systems Co. Unloader valve for spray guns. 3,729,018, 4-24-73, Cl. 137-469.000.

Butterweck, Artur; and Bromsen, Wilhelm, to Hoesch Aktiengesellschaft. Protective shielding. 3,736,838, 6-5-73, Cl. 89-36.00a.

Butterworth Hydraulic Developments Limited: *See—*
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Butterworth, Philip, to Butterworth Hydraulic Developments Limited. Fluid pressure operated motors. 3,713,367, 1-30-73, Cl. 91-231.000.
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Buttery, Kenneth T., to Brown Company. Compartmented ice cream carton with interior vertical support and divider, dual opening means and reclosure means. 3,731,870, 5-8-73, Cl. 229-27.000.
Buttery, Kenneth T.; and Haas, Richard G., to Brown Company. Compartment front opening carton with interior vertical divider. 3,731,871, 5-8-73, Cl. 229-27.000.
Buttery, Kenneth T.; and Haas, Richard G., to Brown Company. Front-opening carton with unique end flap arrangement. 3,734,390, 5-22-73, Cl. 229-27.000.
Buttery, Kenneth T., to Brown Company. Ice cream carton having readily removable divider and support means. 3,735,916, 5-29-73, Cl. 229-27.00r.
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Buttery, Ron G.; Seifert, Richard M.; Lundin, Robert E.; and Guadagni, Dante G., to United States of America, Agriculture. Preparation of 2-methoxy-3-isobutylpyrazine. 3,720,672, 3-13-73, Cl. 260-250.00r.
Butti, Adriano; Prino, Giuseppe; and Bertellini, Gianfranco, to Crinos Industria Farmacobiologica S.p.A. Process for the extraction of alkali salts of deoxyribonucleic acid from animal organs. 3,770,720, 11-6-73, Cl. 260-211.50r.
Buttle, Robert L., to United States of America, Atomic Energy Commission, mesne. Coating molybdenum with pure gold. 3,741,735, 6-26-73, Cl. 29-198.000.
Buttle, Robert Leroy; and Bailey, William Douglas, to RCA Corporation. Electronic device package. 3,730,969, 5-1-73, Cl. 174-52.00s.
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Buttner, Horace J. Recirculating ball heat transfer system for drying and heating materials. 3,775,041, 11-27-73, Cl. 432-27.000.
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Button, Aaron Russell. Mobile home pad construction. 3,708,931, 1-9-73, Cl. 52-169.000.
Buttriss, Albert T., to Eaton Corporation. Magazine assembly for fastener driving apparatus. 3,742,577, 7-3-73, Cl. 29-212.00r.
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Butts, LaVerne D. Fish hook device. 3,742,639, 7-3-73, Cl. 43-42.390.
Butts, Mervin R., to General Motors Corporation. Refrigeration evaporator assembly. 3,717,009, 2-20-73, Cl. 62-523.000.
Butula, Ivan, to PLIUA Pharmaceutical and Chemical Works. Method for the preparation of 4,5,6,7-tetrahydroindazoles. 3,736,332, 5-29-73, Cl. 260-370.00r.
Butwell, Robert J., to Varian Associates. Composite microwave window and waveguide transform. 3,753,171, 8-14-73, Cl. 333-98.00p.
Butz, Carl C.: *See—*
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Buus, Harold W.; and Morgan, Donald G., to Magnetics International, Inc. Magnetic separator. 3,737,822, 6-5-73, Cl. 335-304.000.
Buxbaum, Arne; and Kahlen, Horst, to Licentia Patent-Verwaltungs-G.m.b.H. Control logic for switching rectifier systems. 3,764,885, 10-9-73, Cl. 321-13.000.
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Buyken, Frank E.; and Foster, Robert C. Method of installing form-ties. 3,740,825, 6-26-73, Cl. 29-433.000.
Buysch, Hans-Josef; Krimm, Heinrich; and Margotte, Dieter, to Bayer Aktiengesellschaft. 2-(Hydroxyphenyl)-2-(isopropenylphenyl)-propanes, processes for their manufacture. 3,758,597, 9-11-73, Cl. 260-613.00r.
Buyze, Edwin K., to Budd Company, The. Disk brake actuator and adjustment means. 3,709,333, 1-9-73, Cl. 188-71.900.
Buyze, Edwin K., to Budd Company, The. Mounting means and disk for an externally supported disk brake. 3,729,067, 4-24-73, Cl. 188-18.00a.
Buyze, Edwin K., to Budd Company, The. Fabricated ring for a brake disk. 3,730,304, 5-1-73, Cl. 188-218.0xl.
Buzano, Michel, to Rhone-Poulenc-Textile, S.A., mesne. Novel high-bulk yarn. 3,763,643, 10-9-73, Cl. 57-140.00j.
Buzano, Michel, to Rhone-Poulenc-Textile, S.A., mesne. Process for producing textured yarn. 3,772,747, 11-20-73, Cl. 28-72.017.
Buzano, Michel, to Societe Rhodiaceta. Process and apparatus for manufacture of a thermoplastic yarn with residual twist. 3,777,465, 12-11-73, Cl. 57-34.0hs.
Buzby, George C., Jr.; and Greenspan, George, to American Home Products Corporation. Method of preparing D-13$\beta$-ethylgona-1,3,5(10)-triene-3, 16$\alpha$, 17$\beta$-triol. 3,733,254, 5-15-73, Cl. 195-51.00c.
Buzby, George C., Jr.; and Smith, Herchel, to American Home Products Corporation. Synthesis of 13-alkyl-6-chlorogona-4,6-dien-3-ones. 3,775,404, 11-27-73, Cl. 260-239.55r.
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Buzzard, Clair A.; Pasternack, Gerald P.; and Saltzberg, Burton R., to Bell Telephone Laboratories, Incorporated. Digital filter arrangement which alternatively filters two signals differing in frequency. 3,717,754, 2-20-73, Cl. 235-152.000.
Buzzard, Robert J., to Coherent Radiation. Anode for a discharge tube. 3,760,213, 9-18-73, Cl. 313-39.000.
Buzzell, Harold O., to Polaroid Corporation. Novel adhesive and optical devices laminated therewith. 3,719,544, 3-6-73, Cl. 161-1.000.
Buzzetta, Frank Vincent: *See—*
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Buzzolini, Mario G. 2-Methyl-1,3-propandediamine derivatives. 3,711,510, 1-16-73, Cl. 260-326.50g.
Buzzolini, Mario G., to Sandoz-Wander, Inc. Substituted ribofuranosides as hypolipidemics. 3,767,800, 10-23-73, Cl. 424-180.000.
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Byers, Edward Victor. Orrery. 3,733,720, 5-22-73, Cl. 35-45.000.
Byers, James Otto, Jr., to Sanders Associates, Inc. Hydraulic control system. 3,742,980, 7-3-73, Cl. 137-625.620.
Byers, James Otto, Jr., to Sanders Associates, Inc. Flow control valve with single spool second stage. 3,742,981, 7-3-73, Cl. 137-625.630.
Byers, Jim L. Self-centering horizontally translatable support/hold-down apparatus for building structures and the like. 3,771,270, 11-13-73, Cl. 52-167.000.
Byers, Robert A., to Bell & Howell Company. Playback system with frequency equalization by cascaded circuits performing in accordance with partial fraction expansions of factorial equalizing function terms. 3,781,488, 12-25-73, Cl. 179-100.20k.
Byers, Robert D.; and Hartford, Winslow H., to Allied Chemical Corporation. Black chromium plating process and composition. 3,723,261, 3-27-73, Cl. 204-51.000.
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Byler, William H.; and Mattis, James J., to U.S. Radium Corporation. Method for preparing rare earth oxide phosphors. 3,717,584, 2-20-73, Cl. 252-301.40r.
Bylund, Per Ake; and Mellgren, Gunnar, to Allmanna Svenska Elektriska Aktiebolaget. Semiconductor device having heat pipe cooling means. 3,739,234, 6-12-73, Cl. 317-234.00r.
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Byram, James C.; and Tours, James W., to International Business Machines Corporation. System for outputting lines about a point of operation. 3,757,311, 9-4-73, Cl. 340-172.500.
Byram, Robert J.; Culver, Mark N.; and Van Ostrom, David L., to General Motors Corporation. Automatic cranking system for providing power assist upon vehicle engine stall. 3,715,005, 2-6-73, Cl. 180-103.000.
Byrd, Carlisle O., Jr., to Carborundum Company, The. Protector for high temperature furnace insulation supports. 3,742,670, 7-3-73, Cl. 52-506.000.
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Byrd, Lucid Lincoln, to Carter Precision Electric Company. Method and apparatus for making electrical connector assemblies. 3,737,998, 6-12-73, Cl. 29-627.000.
Byrd, Ottis G., to Cities Service Oil Company. Method of deep well cementing. 3,720,266, 3-13-73, Cl. 166-312.000.
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Byrne, Melvin E. Rail vibrating machine. 3,766,859, 10-23-73, Cl. 104-1.000.
Byrne, Michael F.; and Powelson, Douglas V. N., to Allied Chemical Corporation. Plastic pipe joint. 3,768,841, 10-30-73, Cl. 285-21.000.
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Byrnes, Charles J.; and Vassilaros, George L., to Crucible Inc. Method for treating titanium scrap. 3,737,306, 6-5-73, Cl. 75-101.00r.
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C/P Corporation: *See—*
Bryant, Everette Tyler, Jr., 3,761,939.

Caballero, Carlos Ramos. Nose dilator. 3,710,799, 1-16-73, Cl. 128-342.000.

Cabanes, Alain, to Regie Nationale des Usines Renault and Automobiles Peugeot. Electromagnetic safety latch systems. 3,747,379, 7-24-73, Cl. 70-264.000.

Cabaniss, Julian C. Machine for handling aircraft brake assemblies. 3,734,304, 5-22-73, Cl. 214-1.0bd.

Cabaret, George F.; Holland, Andrew M.; Morris, Joseph P.; Pester, William B.; and Osborne, Harold A., to Mattel, Inc. Audio visual toy. 3,771,255, 11-13-73, Cl. 46-33.000.

Cabassut, Andre Emile Roger: *See—*
Duthion, Louis; Cabassut, Andre Emile Roger; and Labussiere, Andre Julien, 3,708,036.

Cabell, Robert G.; Yancey, Thomas A.; Linville, Roy Norman; and Harrington, Daniel J., to Arvonia-Buckingham Slate Company, Inc. Apparatus for trimming slate. 3,724,439, 4-3-73, Cl. 125-23.000.

Caberlotto, Giovanni, to Calzaturificio Caber S.p.A. Ski boot. 3,758,965, 9-18-73, Cl. 36-2.5al.

Cabernoch, James L.: *See—*
Hultberg, Wayne M.; and Cabernoch, James L., 3,770,119.

Cabero, Eligio Franco. Water-inlet control valve. 3,773,070, 11-20-73, Cl. 137-430.000.

Cabeza, Henry. Aircraft landing gear. 3,741,503, 6-26-73, Cl. 244-103.00s.

Cabezas, Orlando. Articulated ironing board. 3,736,679, 6-5-73, Cl. 38-139.000.

Cabezudo, Jose Fernandez. Massage envelope belt with adjusting dispositives for vibrators and mobilizers. 3,713,439, 1-30-73, Cl. 128-63.000.

Cable Electric Products, Inc.: *See—*
Danesi, Raul P., 3,772,633.
Schwartz, Frederic W., 3,729,628.

Cable, H. Edward; Cable, Herbert E.; and Cable, John A., to Weld Tooling Corporation. Portable flame cutting machine. 3,713,637, 1-30-73, Cl. 266-23.00m.

Cable, Herbert E.: *See—*
Cable, H. Edward; Cable, Herbert E.; and Cable, John A., 3,713,637.

Cable, John A.: *See—*
Cable, H. Edward; Cable, Herbert E.; and Cable, John A., 3,713,637.

Cable Switch Corporation: *See—*
Gould, Robert W., 3,778,805.

Cableform Limited: *See—*
Morton, John; Stevens, Keith Drummond; and Thexton, Graham Spencer, 3,737,821.
Morton, John; Stevens, Keith Drummond; and Thexton, Graham Spencer, 3,764,870.

Cables de Lyon Alsacienne: *See—*
Bendayan, Jacques; Duret, Jean; and Cartet, Roger, 3,745,491.
Bendayan, Jacques, 3,778,799.
Huriez, Claude, 3,758,353.

Cabot Corporation: *See—*
Asgeirsson, Asgeir, 3,714,041.
Belknap, Louis S., 3,721,731.
Berghezan, Aurel I., 3,715,791.
Berstein, Gregor; Hardy, John F.; and Doppler, Leonard H., 3,714,085.
Berstein, Gregor, 3,737,404.
Gridley, Porter F.; Brennan, James J., Jr.; Williams, Frank R.; and Hagopian, Erivan, 3,769,257.
Jordan, Merrill E.; Burbine, William G.; and Williams, Frank R., 3,725,103.
Swank, Thomas F., 3,770,470.
Tully, Paul R.; and Lippe, Robert J., 3,710,510.

Cabot Corporation, mesne: *See—*
Baranow, Sanford; and Klingler, Leo J., 3,743,548.
Herchenroeder, Robert Blanchard Herman, 3,770,391.

Cabut, Louis Antoine: *See—*
Kienzle, Jean Andre Paul; Huille, Michel Ernest Antoine; and Cabut, Louis Antoine, 3,754,955.
Kienzle, Jean Andre Paul; Hoille, Michel Ernest Antoine; and Cabut, Louis Antoine, 3,764,361.
Kienzle, Jean Andre Paul; Huille, Michel Ernest Antoine; and Cabut, Louis Antoine, 3,767,442.

Cabut, Louis Antoine, to Ugine Kuhlmann. Anthraquinone dyestuffs. 3,763,192, 10-2-73, Cl. 260-373.000.

Cacace, Alfredo Luigi Adolfo; and Cacace, Antonino Giorgio, to Antonsteel (Proprietary) Limited. Processing of scrap metal. 3,774,289, 11-27-73, Cl. 29-403.000.

Cacace, Antonino Giorgio: *See—*
Cacace, Alfredo Luigi Adolfo; and Cacace, Antonino Giorgio, 3,774,289.

Caccamo, Samuel. Mounting means for animating existing decoy. 3,736,688, 6-5-73, Cl. 43-3.000.

Caccamo, Samuel. Mounting means for animating existing decoy. 3,768,192, 10-30-73, Cl. 43-3.000.

Cacciamani, Eugene R., Jr.: *See—*
Wolljsza, Chester J., Jr.; and Cacciamani, Eugene R., Jr., 3,736,507.

Cachan, Jean Cospen; and Baumann, Bernard, to Cebal GP. Method and apparatus for hermetically sealing a rigid panel. 3,713,956, 1-30-73, Cl. 156-580.000.

Cachat, John F., to Park-Ohio Industries, Inc. Method of producing a ring gear and flywheel assembly. 3,775,831, 12-4-73, Cl. 29-447.000.

Cachon, Rene P., to International Business Machines Corporation. Semiconductor wafer chuck. 3,711,081, 1-16-73, Cl. 269-21.000.

Cachon, Rene P.; Perlmann, Ariel L.; and Schorr, Michael A., to International Business Machines Corporation. Vacuum holding apparatus. 3,729,206, 4-24-73, Cl. 279-3.000.

Cackley, George W.; Heitzman, Gary N.; Boggs, Roger L.; and Stedman, Robert N., to Caterpillar Tractor Company. Cushioned track with cross grousers. 3,717,387, 2-20-73, Cl. 305-19.000.

Cadaco, Inc.: *See—*
Bolton, Douglas R., 3,734,502.

Cadbury Limited: *See—*
Greeves, Thomas William, 3,743,152.

Caddock, Richard E. Method of making power resistors. 3,722,084, 3-27-73, Cl. 29-610.000.

Caddock, Richard E. Method of making film-type power resistors. 3,722,085, 3-27-73, Cl. 29-620.000.

Cade, James E.; and Mossuto, Frank, said Cade assor. to said Mossuto, Frank. Angularly adjustable end wrench. 3,715,937, 2-13-73, Cl. 81-177.800.

Cade, Paul E., to International Business Machines Corporation. Multiple bank atomic absorption apparatus for simultaneously measuring different physical parameters of a material. 3,734,620, 5-22-73, Cl. 356-73.000.

Cade, Philip J., to Electronics Corporation of America. Flame sensor control circuit. 3,727,073, 4-10-73, Cl. 307-117.000.

Cade, Ronald L.; and Knapp, John F., to Xerox Corporation. Plural electrode development apparatus. 3,719,169, 3-6-73, Cl. 118-636.000.

Cadet, Raymond, to Societe Nouvelle de Roulements Annecy. Gradual-locking freewheels. 3,753,477, 8-21-73, Cl. 192-41.00a.

Cadillac Products, Inc.: *See—*
Barnett, Karl F., 3,718,251.

Cadiou, Jean, to S.A. Automobiles Citroen. Ash trays for motor vehicles. 3,749,466, 7-31-73, Cl. 312-245.000.

Cadiou, Jean G., to Societe Anonyme Automobiles Citroen. Devices for raising and lowering a car door window. 3,777,579, 12-11-73, Cl. 74-99.000.

Cadiou, Jean Georges, to Societe Anonyme Automobiles Citroen. Car safety belts. 3,713,693, 1-30-73, Cl. 297-389.000.

Cadmus, Eugene L., to Ventron Corporation. Process for removal of soluble mercury residues from aqueous process streams. 3,764,528, 10-9-73, Cl. 210-50.000.

Cadonati, Gaimpiero. Method for reeled yarn dyeing and apparatus for carrying the method into effect. 3,728,077, 4-17-73, Cl. 8-155.100.

Cadorette, Raymond; and Eckert, George, to Texaco Inc. Fuel composition. 3,719,458, 3-6-73, Cl. 44-72.000.

Cadorin, Dante: *See—*
Thring, Meredith Wooldrige; Cadorin, Dante; and Ducato, Aldo, 3,764,667.

Cadou, Peter B.: *See—*
Story, Thomas A.; and Cadou, Peter B., 3,773,393.

Cadwell, Sidney M. Method of fabricating and installing a submergible pipeline. 3,740,958, 6-26-73, Cl. 61-72.100.

Cady, Paxton; and Welch, William J., to Bactomatic, Incorporated. Microbiological detection apparatus. 3,743,581, 7-3-73, Cl. 195-103.50r.

Cady, Royal C., to Universal Oil Products Company. Automatic gate means for handling thin veneer-type sheets. 3,733,069, 5-15-73, Cl. 271-50.000.

Cady, Walter G. Instrument for responding to mechanical vibration of acceleration and for converting the same into electric energy. 3,739,202, 6-12-73, Cl. 310-8.300.





Caelisch, Howard G.; Keister, Robert O.; Reed, Denvil E., Jr.; and Williamson, Kenneth D., to Union Carbide Corporation. Process for upgrading dripolene. 3,751,361, 8-7-73, Cl. 208-255.00h.

Caen, Claude Nephtale, to Societe Anonyme Francaise du Ferodo. Apparatus for controlling power transmitted by a group of N phase conductors. 3,764,890, 10-9-73, Cl. 323-24.000.

Caero, Jose G. Brake load sensing and control device. 3,724,610, 4-3-73, Cl. 188-181.00t.

Caesar, Michael B.: *See—*
Mills, Harold E.; and Caesar, Michael B., 3,770,410.

Cafe-Bar International Pty., Ltd.: *See—*
Scholer, Mervyn Garnet, 3,739,946.

Caffey, Paul N. Method for reworking and cleaning wells. 3,712,380, 1-23-73, Cl. 166-300.000.

Caffiero, Rudolphe: *See—*
Pillon, Daniel; Poignant, Pierre; and Caffiero, Rudolphe, 3,779,738.

Caffrey, Joseph R.: *See—*
Epstein, Peter F.; Caffrey, Joseph R.; and Yu, Pyung Kyung, 3,748,343.

Caffrey, Terence, to Davey Compressor Company, The. Speed control for engine driven fluid compressor. 3,756,747, 9-4-73, Cl. 417-34.000.

Caffrey, Terence, to Davey Compressor Company, The. Method and apparatus unloading a rotary compressor. 3,778,192, 12-11-73, Cl. 417-286.000.

Caffrey, Terence, to Davey Compressor Company, The. Compressor blade. 3,778,201, 12-11-73, Cl. 418-152.000.

Cage, John M., to Hewlett-Packard Company. Method and apparatus for the detection and recordation of high frequency sound in the cardiovascular system. 3,762,397. 10-2-73, Cl. 128-2.05s.

Cagen, George, to Ideal Toy Corporation. Doll which tears only in horizontal position. 3,758,983, 9-18-73, Cl. 46-135.00a.

Caggiano, Vincent J.: *See—*
Schroader, Irvin H.; Hosea, Melvin E.; Caggiano, Vincent J.; and Miller, Leo C., 3,741,502.

Cagle, Haplan R., to Sahlin Engineering Company, Inc. Industrial air valve with electrically operable pilot valve having minimal solenoid loading. 3,761,051, 9-25-73, Cl. 251-63.000.

Cagle, Harlan R., to Sahlin Engineering Company, Inc. Lift control system for press unloader or the like. 3,732,989, 5-15-73, Cl. 214-1.0bd.

Cahan, Leslie Lawrence. Key receptacle for an automotive vehicle. 3,742,741, 7-3-73, Cl. 70-63.000.

Cahen, Raymond M.: *See—*
Debus, Henri Robert; Van Tongelen, Marcel; and Cahen, Raymond M., 3,775,495.
Debus, Henri Robert; Van Tongelen, Marcel; and Cahen, Raymond M., 3,775,499.
Debus, Henri Robert; Van Tongelen, Marcel; Cahen, Raymond M.; and Daniels, Calvin Lee, 3,776,965.

Cahill, David R.: *See—*
Blance, Robert B.; Cahill, David R.; and Wachtel, Peter, 3,745,006.

Cahill, Harold James; and Erickson, Cornelius James, to Du Pont de Nemours, E. I., and Company. Electrical resistance heating control circuit. 3,752,956, 8-14-73, Cl. 219-505.000.

Cahill, Joseph A.: *See—*
Meyers, Joseph A., III; and Cahill, Joseph A., 3,715,185.

Cahill, Joseph A.; Meyers, Joseph A.; and Sauer, Richard W., to Atlantic Richfield Company. Production of nonionic detergents. 3,739,034, 6-12-73, Cl. 260-615.00b.

Cahill, Lysle D.: *See—*
Behane, David; Spradley, Lewis Harold; Cahill, Lysle D.; and Marshall, William W., 3,723,646.
Helgeson, Gaylord A.; and Cahill, Lysle D., 3,761,953.

Cahill, Lysle D.; and Denlinger, George William, to Mead Corporation, The. Precision drive for printing cylinder. 3,730,011, 5-1-73, Cl. 74-221.000.

Cahill, Robert F.: *See—*
Weintraub, Arthur; Kalina, Henry A.; and Cahill, Robert F., 3,740,710.

Cahill, Robert Francis, to International Telephone and Telegraph Corporation. Packaging for cylindrical and similar objects. 3,708,946, 1-9-73, Cl. 53-37.000.

Cahill, Steven P.: *See—*
Bath, James G.; and Cahill, Steven P., 3,760,926.

Cahill, William J., Jr., to Consolidated Edison Company of New York, Inc. Nuclear reactor vessel structure. 3,711,371, 1-16-73, Cl. 176-50.000.

Cahill, William J., Jr., to Consolidated Edison Company of New York, Inc. Emergency shut-off valve for nuclear reactors. 3,713,969, 1-30-73, Cl. 176-38.000.

Cahn, Arno; Ackilli, Joseph Anthony; and Carroll, Frank Emery, to Lever Brothers Company. Combinations of hydroxyalkyl-N-methyltaurines and anionic surfactants as synergistic emulsifiers. 3,723,356, 3-27-73, Cl. 252-526.000.

Cahn, Robert P.: *See—*
Li, Norman H.; and Cahn, Robert P., 3,719,590.
Li, Norman N.; Cahn, Robert P.; and Shrier, Adam L., 3,779,907.

Cahoon, Samuel L.; Steelman, Clifton V.; and Welch, Lawrence E. Vibratory concrete applicator. 3,770,248, 11-6-73, Cl. 259-1.000.

Cahoy, Roger P.: *See—*
Phillips, Lee V.; and Cahoy, Roger P., 3,711,549.

Cahoy, Roger P.; and Sanjean, John, to Gulf Research & Development Company. Carbamyloxybenzylidenemalononitrile insecticides. 3,781,446, 12-25-73, Cl. 424-300.000.

Caiati, Frank P.; and Wight, David C., to General Motors Corporation. Solid state crash recorder. 3,781,824, 12-25-73, Cl. 340-172.500.

Caillat, Maurice; and Perrin, Georges, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Cooling apparatus with conveyor. 3,745,784, 7-17-73, Cl. 62-380.000.

Caille, Charles, to Sulzer Brothers Limited. Air distributing channel. 3,744,724, 7-10-73, Cl. 239-553.500.

Cailley, Jean-Pierre, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Electrochemical cells comprising current collector member embedded into the protruding edges of the electrodes. 3,732,124, 5-8-73, Cl. 136-13.000.

Cailley, Jean-Pierre, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). High discharge rate electric cells and batteries. 3,761,314, 9-25-73, Cl. 136-13.000.

Caillouet, Louis A., Jr., to Connelly, T. J., Construction Company. Smoke sensing circuit with battery standby. 3,750,123, 7-31-73, Cl. 340-237.00r.

Cailloux, Paul, to Promecam Sisson-Tekmann. Shearing machine. 3,742,801, 7-3-73, Cl. 83-391.000.

Cain, Harvey D. Nut bowl. 3,756,462, 9-4-73, Cl. 220-23.830.

Cain, Jay M., to Hoover Company, The. Tool caddy. 3,771,191, 11-13-73, Cl. 15-257.00a.

Cain, Lester Lee: *See—*
Sheldon, Loren B.; Cain, Lester Lee; and Dower, Ethell J., 3,728,896.

Cain, Maurice Edward; Knight, Geoffrey Thomas; Gazeley, Keith Frederick; and Lewis, Peter McHigh, to Natural Rubber Producers' Research Association, The. Treatment of rubber. 3,721,659, 3-20-73, Cl. 260-83.300.

Cain, Robert H. Windshield ejector for vehicles. 3,737,193, 6-5-73, Cl. 296-84.00k.

Cain, Robert H. Inflatable dash-panel construction. 3,767,229, 10-23-73, Cl. 280-150.0ab.

Cain, Robert L.; and Rothrock, James S., to American Gage & Manufacturing Co., The, mesne. Economy hoist. 3,724,816, 4-3-73, Cl. 254-164.000.

Cain, Robert L., to American Gage & Manufacturing Co., The, mesne. Release mechanism for ratchet-type power unit. 3,727,886, 4-17-73, Cl. 254-164.000.

Cain, Troy D.: *See—*
Frydenberg, Donald V.; and Cain, Troy D., 3,716,179.

Cain, Wayne R.; Marcus, Konrad H.; and Prince, Edgar D., to Prince Corporation. Bone holding mechanism. 3,708,828, 1-9-73, Cl. 17-1.000.

Caiola, Robert J.: *See—*
Schulz, Gerald L.; and Caiola, Robert J., 3,725,109.

Caird, Robin Dempsey; and Smith, John Roberton, to Junex Electrix Limited. Method of forming electrical heating panels for textile articles. 3,768,156, 10-30-73, Cl. 29-611.000.

Cairelli, Carmen P., to McGill Manufacturing Company, Inc. Low cost switching arrangement for appliance motor speed control. 3,732,476, 5-8-73, Cl. 318-305.000.

Cairl, John F.: *See—*
Ross, Ellis H.; and Cairl, John F., 3,756,631.

Cairns, Elton J.; Kyle, Martin L.; and Shimotake, Hiroshi, to United States of America, Atomic Energy Commission. Cathodes for secondary electrochemical power-producing cells. 3,716,409, 2-13-73, Cl. 136-6.000.

Cairns, Gordon J.; and Harrison, Marquerite D. Combined dispensers and canisters. 3,739,935, 6-19-73, Cl. 220-23.400.

Cairns, Hugh; and Minshull, Robert, to Fisons Limited. Benzodipyrones. 3,718,668, 2-27-73, Cl. 260-345.200.

Cairns, James; and Walton, Nicholas, to Garlock, Inc. Composite bearings. 3,781,205, 12-25-73, Cl. 252-12.600.

Cairns, Robert Lacock: *See—*
Benjamin, John Stanwood; Cairns, Robert Lacock; and Weber, John Herbert, 3,749,612.

Cairns, Robert Lacock; and Benjamin, John Stanwood, to International Nickel Company, Inc., The. Extrusion of canned metal powders using graphite follower block. 3,723,109, 3-27-73, Cl. 75-214.000.

Cairns, Robert Lacock; and Benjamin, John Stanwood, to International Nickel Company, Inc., The. Dispersion strengthened titanium alloys. 3,737,300, 6-5-73, Cl. 75-.5bc.

Cairns, Robert Lacock; and Benjamin, John Stanwood, to National Nickel Company, Inc., The. Zone annealing in dispersion strengthened materials. 3,746,581, 7-17-73, Cl. 148-11.50f.

Cairns, Thomas M.; and Kennedy, Robert D., to Ford Motor Company. Electrical terminal. 3,742,430, 6-26-73, Cl. 339-252.00r.

Cairns, Walter J.: *See—*
Arciprete, Genio R ; Cairns, Walter J.; Hertz, Carl Hellmuth; Mansson, Kjell Ake Gosta; and Rothery, John L., 3,717,875.
Cais, Michael; Gamble, Fred R., Jr.; and Osiecki, Jeanne Helen, to Synvar Associates. Chalcogenides intercalated with ammonium and non-heavy metal inorganic salts and hydroxides. 3,769,210, 10-30-73, Cl. 252-25.000.
Caison, Lloyd D.: *See—*
Manning, Donald P.; Caison, Lloyd D.; and Jones, Frank R., 3,767,754.
Cajon Company: *See—*
Shivak, Robert A., 3,747,963.
Cake, Arthur Fischer: *See—*
Levine, Morris Meyer; and Cake, Arthur Fischer, 3,765,163.
Cal-West Electric Inc.: *See—*
de Bella, Gasper V., 3,714,449.
Calabrese, Anthony; and Gramiglia, Frank, to Greiner, Charles, and Company. Cervical collar. 3,756,226, 9-4-73, Cl. 128-75.000.
Calabrese, Suzanne Hutchinson. Safety handle for knives. 3,747,211, 7-24-73, Cl. 30-155.000.
Calabria, Joseph: *See—*
Catanzarite, Vincent O., 3,773,351.
Calamari, Timothy A., Jr.; Schreiber, Sidney P.; Cooper, Albert S., Jr.; and Reeves, Wilson A., to United States of America, Agriculture. Chainless mercerizer suitable for use with liquid ammonia. 3,724,243, 4-3-73, Cl. 68-244.000.
Calamari, Timothy A., Jr.; Reeves, Wilson A.; Schrieber, Sidney P.; and Cooper, Albert S., Jr., to United States of America, Agriculture. Process for the liquid ammonia treatment of yarns. 3,767,359, 10-23-73, Cl. 8-115.700.
Calame, Guy: *See—*
de Mestral, Henri; Decosterd, Albert; Calame, Guy; and de Mestral, George, 3,720,055.
Calame, Jean Pierre: *See—*
Siddall, John B.; and Calame, Jean Pierre, 3,711,548.
Siddall, John B.; and Calame, Jean Pierre, 3,712,880.
Siddall, John B.; and Calame, Jean Pierre, 3,758,516.
Siddall, John B.; and Calame, Jean Pierre, 3,759,964.
Siddall, John B.; and Calame, Jean Pierre, 3,773,805.
Calame, Michel, to Societe Genevoise d'Instruments de Physique. Measuring device of two dimensional displacements. 3,742,610, 7-3-73, Cl. 33-172.00f.
Calamie, Jean: *See—*
Siddall, John B.; and Calamie, Jean, 3,711,547.
Calberg, Willis G.: *See—*
Gentile, Ralph; and Calberg, Willis G., 3,775,224.
Calberg, Willis G., to Eastman Kodak Company. Film discriminating and winding apparatus. 3,776,438, 12-4-73, Cl. 225-93.000.
Calbiochem: *See—*
Drell, William; and Gueffroy, Donald E., 3,776,903.
Calcagni-Frazier-Zajachowski, Architects, Inc.: *See—*
Frazier, Richard B., 3,716,270.
Calcagno, Benedetto: *See—*
Cavenaghi, Carlo; Di Fiore, Lucio; Barilli, Filippo; and Calcagno, Benedetto, 3,725,257.
Lugo, Luigi; Calcagno, Benedetto; and Reni, Cesare, 3,725,256.
Piccolo, Luigi; and Calcagno, Benedetto, 3,758,675.
Calcagno, Benedetto; Divo, Claudio; and Ghirga, Marcello, to Societa Italiana Resine S.p.A. Process for preparing vinyl acetate. 3,714,237, 1-30-73, Cl. 260-497.00a.
Calcagno, Benedetto; and Ghirga, Marcello, to Societa Italiana Resine S.p.A. Process for preparing olefin esters. 3,716,581, 2-13-73, Cl. 260-497.00a.
Calcagno, Benedetto; and Piccolo, Luigi, to Societa Italiana Resine S.p.A. Process for preparing titanium dioxide. 3,735,000, 5-22-73, Cl. 423-613.000.
Calcagno, Benedetto; Piccolo, Luigi; and Ghirga, Marcello, to Societa' Italiana Resine S.p.A. Process for preparing aluminum trichloride. 3,760,066, 9-18-73, Cl. 423-496.000.
Calcagno, Benedetto; Ferlazzo, Natale; and Ghirga, Marcello, to Societa Italiana Resine S.p.A. Method of preparing supported oxidation catalysts for producing ethylene oxide. 3,773,693, 11-20-73, Cl. 252-466.00a.
Calcagno, Benedetto; Ferlazzo, Natale; and Ghirga, Marcello, to Societa Italiana Resine S.p.A. Method of preparing supported oxidation catalysts for producing ethylene oxide. 3,775,346, 11-27-73, Cl. 252-463.000.
Calcagno, Benedetto; Ghirga, Marcello; and Di Fiore, Lucio, to Societa Italiana Resine S.p.A. Process for reactivating an aluminum trichloride catalyst. 3,779,943, 12-18-73, Cl. 252-411.00r.
Calcagno, Benedetto; Canavesi, Roberto; and Bertolini, Natale, to Societa Italiana Resine S.p.A. Process for manufacturing linear alkyl benzenes. 3,780,120, 12-18-73, Cl. 260-671.00b.
Calcatco, Inc.: *See—*
James, Maurice L., 3,749,258.
Calcato, Inc.: *See—*
James, Maurice L., 3,778,962.
Calcia, Giuseppe: *See—*
Michellone, Giancarlo; Maurizio, Gilberto; Calcia, Giuseppe; Brandino, Dario; and Palazzetti, Mario, 3,713,708.
Calcott, Thomas George: *See—*
Hamilton, Frank Alexander; and Calcott, Thomas George, 3,774,856.
Caldemeyer, Daniel F. Motor driven headrest and back for recliner chair. 3,738,706, 6-12-73, Cl. 297-410.000.
Calder, Brooke J., Jr.; Risko, Bernard L.; and Belock, Robert J., to Austin Powder Company. Detonation device and method for making the same. 3,726,216, 4-10-73, Cl. 102-27.00r.
Calder, Oliver Jerome. Combined spray and anti-clogging means. 3,752,400, 8-14-73, Cl. 239-116.000.
Calder, Robert A. C., to International Harvester Company. Hay conditioner drive. 3,747,310, 7-24-73, Cl. 56-1.000.
Calderazzo, Fausto: *See—*
L'Eplattenier, Francois; and Calderazzo, Fausto, 3,729,512.
Calderon, Nissim; and Scott, Kenneth W., to Goodyear Tire & Rubber Company, The. Control of molecular weight and molecular weight distributions of unsaturated polymers. 3,754,046, 8-21-73, Cl. 260-677.00r.
Calderwood, Andrew S.; and Black, Richard G., to Westinghouse Electric Corporation. Sealing membranes in a reverse osmosis module. 3,773,181, 11-20-73, Cl. 210-321.000.
Caldo, Cornelio: *See—*
Cappuccio, Vittorio; Caldo, Cornelio; and Cantatore, Giuseppe, 3,709,839.
Caldwell, Alan K., to Rewop Company. Hydraulic motor and pump system. 3,724,583, 4-3-73, Cl. 180-66.00r.
Caldwell, Charles W.: *See—*
Parker, Bernard I.; and Caldwell, Charles W., 3,775,004.
Caldwell Company, Inc., The: *See—*
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Caldwell, Jack N. Batting practice device. 3,731,925, 5-8-73, Cl. 273-26.00e.
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Caldwell, John R.; and Jackson, Winston J., Jr., to Eastman Kodak Company. Hot melt adhesive blends of poly(tetramethylene) terephthalate and polystyrene or polystyrene copolymers. 3,728,212, 4-17-73, Cl. 161-182.000.
Caldwell, John Warren, to Pennwalt Corporation. Start-up lubricator. 3,767,013, 10-23-73, Cl. 184-6.300.
Caldwell, Joseph A.; Sump, Gary D.; and Benedict, Risque L., to Esso Production Company. Impressed current cathodic protection system. 3,769,521, 10-30-73, Cl. 307-95.000.
Caldwell, Laurence B.; and Helman, Robert W., to Bethlehem Steel Corporation. Method of forming minimized spangle coated strip. 3,717,501, 2-20-73, Cl. 117-102.00m.
Caldwell, Lyle. Hydrothermal treatment of subsurface earth formations. 3,729,052, 4-24-73, Cl. 166-283.000.
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Caldwell, Richard L.; and Givens, Wyatt W., to Mobil Oil Corporation. Method of indirectly monitoring the output of a pulsed neutron source. 3,710,112, 1-9-73, Cl. 250-83.30r.
Caldwell, Robert H. Tire chain and connector. 3,714,976, 2-6-73, Cl. 152-228.000.
Caldwell, Robert H.; and Pauline, Larry I., to Grizzly Corporation. Chain trencher with shock resistant silent drive. 3,754,341, 8-28-73, Cl. 37-86.000.
Caldwell, Robert H.; and Pauline, Larry I., to Grizzly Corporation. Multi-purpose stake. 3,758,062, 9-11-73, Cl. 248-156.000.
Caldwell, Roland B., to Ranco Incorporated. Control apparatus for exhaust gas recirculating system. 3,739,797, 6-19-73, Cl. 137-85.000.
Caldwell, Samuel I.; and Cline, Lawrence R., to Caterpillar Tractor Company. Swing transmission for excavators. 3,739,652, 6-19-73, Cl. 74-421.00a.
Caldwell, Samuel I., to Caterpillar Tractor Company. Disconnect device. 3,744,331, 7-10-73, Cl. 74-405.000.
Caldwell, Samuel I., to Caterpillar Tractor Company. Composite drive assembly. 3,750,489, 8-7-73, Cl. 74-434.000.
Caldwell, Samuel I.; and Cline, Lawrence R., to Caterpillar Tractor Company. Air-cooled resilient coupling assembly. 3,768,276, 10-30-73, Cl. 64-11.00r.
Caldwell, Samuel I.; and Wanner, John C., to Caterpillar Tractor Company. Modular brake assembly. 3,771,627, 11-13-73, Cl. 188-170.000.





Caldwell, William C., Jr., to Westinghouse Electric Corporation. Noise suppressing throttling valve. 3,773,085, 11-20-73, Cl. 137-630.150.
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Caleskie, Vincent J.; Hughes, Paul T.; and Johnson, Robert Wayne, to Protection Devices, Inc. Anti-hijacking and theft control systems for motor vehicles. 3,781,789, 12-25-73, Cl. 340-64.000.
Caley, Lloyd E.; Hill, Horace E.; and Phillips, Joseph L., to Boeing Company, The. Drill with guide tip. 3,779,664, 12-18-73, Cl. 408-225.000.
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Calfee, Richard W.; and Hopner, Emil, to International Business Machines Corporation. Color video recording and playback system. 3,715,474, 2-6-73, Cl. 178-5.400.
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Calhoun, Frederick L., to A-T-O Inc., mesne. Container inspection apparatus. 3,778,617, 12-11-73, Cl. 250-223.00b.
Calhoun, Fredrick L., to Automatic Sprinkler Corporation of America. Container inspection apparatus with plural detectors and rotating projection system. 3,708,680, 1-2-73, Cl. 250-223.00b.
Calhoun, Harry C.; and Kaufman, Carl L., to International Business Machines Corporation. Monolithic integrated circuit resistor design for optimum resistor tracking. 3,771,095, 11-6-73, Cl. 338-320.000.
Calhoun, John Charles; and Flegal, William Malcolm, to Western Electric Company, Incorporated. Method of and apparatus for measuring the temperature of a movable elongated conductor. 3,737,982, 6-12-73, Cl. 29-573.000.
Calhoun, William D.; Hemsley, William T.; and Sioberg, Charles M. Decking system. 3,707,819, 1-2-73, Cl. 52-319.000.
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Calia, Charles: *See—*
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Calistrat, Michael M., to Koppers Company, Inc. Resilient coupling. 3,724,239, 4-3-73, Cl. 64-13.000.
Calizzano, Fernand; Chauvel, Michel; Malliere, Jean; and Rybner, Jean, to Compagnie Internationale pour l'Informatique. Automatic control system for loading and unloading magnetic tapes in digital recorder equipments. 3,751,604, 8-7-73, Cl. 179-100.2ph.
Calkin, Edwin Theodore; Hamilton, Billy Harold; and La Porta, Frank Carl, to Bell Telephone Laboratories, Incorporated. Switching regulator with high efficiency turnoff loss reduction network. 3,736,495, 5-29-73, Cl. 323-17.000.
Calkin, Edwin Theodore; Hamilton, Billy Harold; and La Porta, Frank Carl, to Bell Telephone Laboratories, Incorporated. Regulated DC to DC converter with regulated current source driving a nonregulated inverter. 3,737,755, 6-5-73, Cl. 321-2.000.
Calkin, Edwin Theodore; Hamilton, Billy Harold; and La Porta, Frank Carl, to Bell Telephone Laboratories, Incorporated. Switching regulator with network to reduce turnon power losses in the switching transistor. 3,745,444, 7-10-73, Cl. 323-17.000.
Calkins, Burton H.; Carstens, Dale L.; and Riester, James J., to United States of America, Navy. Illuminating flare having high drag configuration. 3,724,375, 4-3-73, Cl. 102-31.000.
Calkins, Edward E.: *See—*
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Calla, Pierre Joseph Frederic; Berthelot, Louis Marie Joseph; Sureau, Robert Frederic Michel; and Kremer, Gilbert Victor Henri, to Ugine Kuhlmann. Bicarbonate salts of indazolium and benzimidazolium dyestuffs. 3,726,852, 4-10-73, Cl. 260-157.000.

Callaghan, John David, to RCA Corporation. Antenna structures. 3,739,388, 6-12-73, Cl. 343-726.000.

Callaghan, John David; and Wilson, Robert Morris, to RCA Corporation. Adapter for coaxial cable connector. 3,740,453, 6-19-73, Cl. 174-75.00c.

Callaham, John E., to Procter & Gamble Company, The. Photosense detecting and removing stuck chips from a carrier of a chip frying machine. 3,752,676, 8-14-73, Cl. 99-100.00p.

Callahan, Earnest C. Allen wrench holder. 3,766,811, 10-23-73, Cl. 81-180.00r.

Callahan, George G., to Carrier Corporation. Modular multizone, zone logic control center. 3,731,730, 5-8-73, Cl. 165-22.000.

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Callahan, John W.: *See—*
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Callahan, John William; and Capdeville, Martin J., to Pennwalt Corporation. Abrading apparatus with rotary index table. 3,778,935, 12-18-73, Cl. 51-8.000.

Callahan, Joseph C., to United States of America, Atomic Energy Commission. Cell for measuring stresses in prestressed concrete. 3,742,757, 7-3-73, Cl. 73-88.50r.

Callahan, Joseph R. Mounting jig for electrical outlet boxes. 3,759,505, 9-18-73, Cl. 269-98.000.

Callahan, Render B. Fishing float light. 3,720,824, 3-13-73, Cl. 240-6.40f.

Callahan, William H.; and Smith, Royal F., to Lektro-Vend Corporation. Fluent material dispenser with screw discharge assistant. 3,710,991, 1-16-73, Cl. 222-413.000.

Callahan, William H.; and Horvath, Stephen I., to Lektro-Vend Corporation. Vending machine. 3,780,909, 12-25-73, Cl. 221-85.000.

Callan, John E.; and Freitag, Lawrence F., to Allen-Bradley Company. Coded circuit card mounting device with cover. 3,729,657, 4-24-73, Cl. 317-101.0dh.

Callan, John E., to Cities Service Company. Extruder. 3,758,001, 9-11-73, Cl. 222-146.000.

Callan, John E., to Allen-Bradley Company. Lower power loss voltage supply circuit. 3,777,253, 12-4-73, Cl. 323-22.00t.

Callan, John G., to Knox, Inc. Scanning and control apparatus. 3,724,958, 4-3-73, Cl. 356-160.000.

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Calle, Jaime; Flynn, Richard Thomas; and Porter, Marion Gene, to Honeywell Information Systems, Inc. High speed data transfer for a peripheral controller. 3,742,457, 6-26-73, Cl. 340-172.500.

Callerame, Joseph, to Chemical Generators, Inc. Process of preparing chlorine dioxide. 3,754,079, 8-21-73, Cl. 423-479.000.

Callerame, Mary Lou, to Chemical Generators, Inc. Process for producing chlorine dioxide. 3,763,006, 10-2-73, Cl. 204-103.000.

Calleson, Donald A., to Liggett & Myers Incorporated. Method and apparatus for impregnating fibrous filter material. 3,743,528, 7-3-73, Cl. 117-9.000.

Callihan, Clayton D.; Srinivasan, Vadake R.; and Dunlap, Charles E., to Louisiana State University Foundation, The. Comestible, digestible protein from cellulose. 3,761,355, 9-25-73, Cl. 195-33.000.

Callihan, Clayton D. Preparation of water-soluble derivatives of cellulose, and compositions thereof. 3,761,465, 9-25-73, Cl. 260-231.000.

Callinghan, Robert M.; and Hawthorne, John W., to United States Steel Corporation. Process for removing iron carbonyl with ozone. 3,780,163, 12-18-73, Cl. 423-210.000.

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Callister, Richard M.; and Langer, Robert J., to Masabi Jobbers, Inc. Blast-hole liner. 3,760,727, 9-25-73, Cl. 102-24.00r.

Callum, George William, to Lamson Paragon Limited. Photo-composing machines. 3,732,009, 5-8-73, Cl. 355-43.000.

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Calow, John R. B.; Small, Norman J. H.; and Bull, Brian. Lubricant compositions. 3,761,404, 9-25-73, Cl. 252-39.000.

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Caltabiano, Alfio, to Ghisalba S.p.A. Turin. Electromagnetic contactor. 3,708,769, 1-2-73, Cl. 335-132.000.

Calton, Ernes; and Spencer, Arthur, to British Steel Corporation. Preheating of welding slay for better starting. 3,710,068, 1-9-73, Cl. 219-73.000.

Calton, Marion A.; and Weiss, Carl D., to Production Technology Inc., mesne. Friction welding sintered materials. 3,731,959, 5-8-73, Cl. 287-189.36b.

Calton, Marion R.: *See—*
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Calvert, Corlette C.; Morgan, Neal O.; and Martin, Richard D., to United States of America, Agriculture. Separator for negatively phototactic housefly larvae from chicken hen excreta. 3,716,371, 2-13-73, Cl. 99-4.000.

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Calvert, Richard C. M., III: *See—*
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Calvert, Rodney K., to Mead Corporation, The. Mechanism for lining shells. 3,716,321, 2-13-73, Cl. 425-383.000.

Calvert, Rodney K.; Scott, Dale K.; and Landrum, Charles Rabun, to Mead Corporation, The. Packaging mechanism. 3,747,294, 7-24-73, Cl. 53-48.000.

Calvert, Rodney K., to Mead Corporation, The. Packaging machine. 3,760,555, 9-25-73, Cl. 53-48.000.

Calvert, Roger. Cutting tools. 3,710,468, 1-16-73, Cl. 29-96.000.

Calvert, William Lemont; and Handwerk, Richard Herman, to Union Carbide Corporation. Particulate solids injector apparatus. 3,779,712, 12-18-73, Cl. 23-288.00e.

Calvet, Albert M. Range, trailing distance and safe passing indicator for motor vehicle operators. 3,772,795, 11-20-73, Cl. 33-264.000.

Calvin, John N., to Combustion Engineering, Inc. Flow twister. 3,764,470, 10-9-73, Cl. 176-76.000.

Calvin, Noel M. Pulse producing circuit particularly adapted for button type telephone. 3,732,439, 5-8-73, Cl. 307-284.000.

Calvino Y Teijeiro, Benito Jose, to Magrini Fabbriche Riunite Magrini Scarpa e Magnano M.S.M.S.p.A. High-voltage circuit breaker with gas quenching. 3,712,969, 1-23-73, Cl. 200-148.00r.

Calzaretto, Carl. Riser structure assembly. 3,747,539, 7-24-73, Cl. 108-91.000.

Calzaturificio Caber S.p.A.: *See—*
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Calzolari, Pietro; and Longoni, Sergio, to Industrie Pirelli S.p.A. Electric cable with corrugated metallic sheath. 3,766,309, 10-16-73, Cl. 174-102.00d.

Cam Gears Limited: *See—*
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Cam Industries, Inc.: *See—*
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Cam-Stat Incorporated: *See—*





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Camacho, Daniel Gamez. Paper cutter for cutting specially coded stationery forms. 3,776,085, 12-4-73, Cl. 83-449.000.

Camacho, George T: Fixture for saw. 3,757,628, 9-11-73, Cl. 83-745.000.

Camacho, Salvador L., to Technology Application Services Corporation. Vessel preheating method and apparatus. 3,749,802, 7-31-73, Cl. 13-1.000.

Camacho, Salvador L., to Technology Application Services Corporation. Through hearth construction and method for plasma arc furnace. 3,749,803, 7-31-73, Cl. 13-9.000.

Camacho, Salvador L. Refuse converting method apparatus utilizing long arc column forming plasma torches. 3,779,182, 12-18-73, Cl. 110-8.00r.

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Camarco, Thomas J. Rolling iron. 3,742,630, 7-3-73, Cl. 38-100.000.

Camarota, John T. Flying saucer toy. 3,738,053, 6-12-73, Cl. 46-74.00d.

Cambou, Andre Paul, to Societe Anonyme de Telecommunications. Translating winder for electric cables. 3,779,480, 12-18-73, Cl. 242-158.00r.

Camboulives, Andre Alphonse Mederic Leon; and Vandenbroucke, Roger Alfred Jules, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Fixing of fuel injection manifolds into combustion chambers. 3,768,251, 10-30-73, Cl. 60-39.320.

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Cambridge Filter Corporation: *See—*
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Terral, Ben D., 3,741,303.

Camdex Inc.: *See—*
Leich, Robert A., 3,714,860.

Cameli, Nazzareno: *See—*
Carbonaro, Antonio; Greco, Alberto; Dall Asta, Gino; and Cameli, Nazzareno, 3,766,284.

Camelon, Melville J.; Peng, Stephen C.; and Thomson, David M., to Ford Motor Company. Stable nonaqueous compositions capable of forming thermosetting films. 3,736,279, 5-29-73, Cl. 260-21.000.

Cameo Curtains, Inc.: *See—*
Heimberg, Eli; and Rosenberg, Marvin, 3,754,589.

Cameo, Inc.: *See—*
Warner, Ronald C.; and Shepherd, Bobby R., 3,762,545.

Camerik, Eduard, to U.S. Philips Corporation. Stylus securing device. 3,746,347, 7-17-73, Cl. 274-37.000.

Cameron, Bruce M. Athletic shoe. 3,739,497, 6-19-73, Cl. 36-2.5ag.

Cameron, Bruce M. Shoe and method of making same. 3,757,437, 9-11-73, Cl. 36-59.00r.

Cameron, Donald D., to Du Pont de Nemours, E. I., and Company. Process for making filled methyl methacrylate articles. 3,780,156, 12-18-73, Cl. 264-300.000.

Cameron, Donald L. Apparatus for water jet propulsion. 3,772,886, 11-20-73, Cl. 60-221.000.

Cameron, Frank L., to Westinghouse Electric Corporation. Current limiting fuse. 3,740,687, 6-19-73, Cl. 337-233.000.

Cameron, Frank L.; and Miller, Harold L., to Westinghouse Electric Corporation. Current limiting fuse. 3,742,415, 6-26-73, Cl. 337-279.000.

Cameron, Frank L., to Westinghouse Electric Corporation. Current limiting fuse with improved fuse elements. 3,747,041, 7-17-73, Cl. 337-159.000.

Cameron, Frank L., to Westinghouse Electric Corporation. High voltage current limiting fuse. 3,766,509, 10-16-73, Cl. 337-279.000.

Cameron, Gordon N. Hydraulically actuated spline arbor and chuck construction. 3,762,730, 10-2-73, Cl. 279-4.000.

Cameron Iron Works, Inc.: *See—*
Allen, Herbert, 3,731,599.
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Carman, Richard Jan; and Benson, Paul R., 3,726,307.
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Oliver, John P.; and Wedel, Alfred W., 3,717,920.
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Cameron Iron Works, Inc., mesne: *See—*
Carman, Richard Jan, 3,723,956.
Carman, Richard Jan, 3,745,530.
Thornton, Roland L., Jr., 3,717,849.

Cameron, James Brisbane; and Walton-Knight, Bernard Piet, to BTR Industries, Limited. Methods of providing end fittings of hoses. 3,776,996, 12-4-73, Cl. 264-242.000.

Cameron, James Brisbane; Walton-Knight, Bernard Piet; Bartoo, Otto Floris; and Molijn, Joannes Cornelius, to BTR Industries Limited. Method of making handrails. 3,778,882, 12-18-73, Cl. 29-450.000.

Cameron, James H.: *See—*
Tygard, Charles M.; and Cameron, James H., 3,724,067.

Cameron, James MacDonald, to United Aircraft of Canada Limited. Vane rings. 3,751,180, 8-7-73, Cl. 415-199.000.

Cameron, John F., to Hatch Associates Ltd. Journal bearing. 3,746,410, 7-17-73, Cl. 308-72.000.

Cameron, Richard William, mesne: *See—*
French, Walter K., 3,714,804.

Cameron, Ronald E. Educational and game device. 3,765,107, 10-16-73, Cl. 35-35.00h.

Cameron-Johnson, Alan, to Hawker Siddeley Aviation Limited. Groundwheels for aircraft. 3,711,043, 1-16-73, Cl. 244-50.000.

Cameron-Johnson, Alan, to Hawker Siddeley Aviation Limited. Sealing gland with unstressed standby seal. 3,722,894, 3-27-73, Cl. 277-9.000.

Camiciotioli, Roberto; and Grossi, Giuseppe, to Societa Italiana Telecomunicazioni Siemens S.p.A. System for the remote supervision of multichannel PCM repeaters. 3,739,098, 6-12-73, Cl. 179-15.0ad.

Camiciottoli, Roberto; and Grossi, Giuseppe, to Societa Italiana Telecomunicazioni Siemens S.p.A. System for the remote supervision of multichannel PCM repeaters. 3,760,127, 9-18-73, Cl. 179-175.30r.

Camiciottoli, Roberto; and Marchini, Dino, to Societa Italiana Telecomunicazioni Siemens S.p.A. System for remote supervision of two-way repeater stations in multichannel PCM telecommunication path. 3,770,913, 11-6-73, Cl. 179-175.30r.

Camille Bauer Messinstruments Aktiengesellschaft: *See—*
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Camilleri, Charles F.: *See—*
Gusdorf, Walter; and Camilleri, Charles F., 3,738,287.

Camilleri, Charles Francis: *See—*
Gusdorf, Walter; and Camilleri, Charles Francis, 3,742,870.

Camilleri, Louis T.; and Huebner, Manfred H., to Hooker Chemical Corporation. Gel prevention in polyurethanes. 3,718,622, 2-27-73, Cl. 260-75.0np.

Camilleri, Thomas M. Preparing master pattern for producing casted raised figures. 3,747,440, 7-24-73, Cl. 76-107.00r.

Camilli, Concetto T.; and Engel, Lawrence J., to Esso Research and Engineering Company. Propellant binder and synthesis. 3,708,358, 1-2-73, Cl. 149-7.000.

Camilliere, John, to Electro-Nucleonics, Inc. Ultracentrifuge with rotor speed identification. 3,746,247, 7-17-73, Cl. 233-1.00b.

Camillus Cutlery Company: *See—*
Miori, Nilo M., 3,754,319.

Camis, Thomas; and Goss, Steven A., to Xerox Corporation. Single pass duplexing by sequential transfer. 3,734,015, 5-22-73, Cl. 101-229.000.

Camm, John James, to Girling Limited. Servo motors for vehicle brake systems. 3,756,124, 9-4-73, Cl. 91-369.00b.

Cammack, Thomas A.: *See—*
Czajkowski, Norman; Cammack, Thomas A.; Pickler, William C.; and Donahue, William J., 3,768,415.
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Camon Kabushiki Kaisha: *See—*
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Camosso, Domenico, to RIV-SKF Officine di Villar Perosa S.p.A. Device for conveying fluid into a rotatable hollow casing. 3,770,305, 1106-73, Cl. 285-110.000.
Camosso, Dominico, to RIV-SKF Officine di Villar Perosa S.p.A. Roller bearing and cages therefor. 3,729,239, 4-24-73, Cl. 308-217.000.
Camp, Albert T., to United States of America, Navy. Process for preparing stable essentially water-free slurries of nitrocellulose and products thereof. 3,723,207, 3-27-73, Cl. 149-92.000.
Camp, Bryon; Camp, Percival Arthur; and Meyer, William Hasso. Group wash station. 3,722,007, 3-27-73, Cl. 4-166.000.
Camp, Carolyn J.; and Lindblom, Robert C., to Dow Chemical Company, The. Dielectric layer composition. 3,779,982, 12-18-73, Cl. 260-41.00r.
Camp, Dennis W.: *See—*
Kaufman, John W.; Camp, Dennis W.; and Turner, Robert E., 3,731,531.
Camp, Ernest C., Jr., to Cities Service Company. Manufacture of alkali metal phosphates. 3,708,275, 1-2-73, Cl. 71-1.000.
Camp, Frederick W.; Eisen, Frederic S.; Fear, James Van Dyck; and Kirk, Merritt C., Jr., to Sun Oil Company of Pennsylvania, mesne. Hydrogenation process utilizing recovered catalyst. 3,729,407, 4-24-73, Cl. 208-10.000.
Camp, Gary Van: *See—*
Cupp, Frederick B.; and Camp, Gary Van, 3,737,895.
Camp, Harold E.: *See—*
Grier, John D.; and Camp, Harold E., 3,749,487.
Grier, John D.; and Camp, Harold E., 3,752,994.
Camp, John W. A., to Ford Motor Company. Device for connecting a cable to a lever. 3,730,318, 5-1-73, Cl. 192-99.00s.
Camp, Ludwig: *See—*
Oliver, Norman J.; Hardie, Virgil; and Camp, Ludwig, 3,720,431.
Camp, Michel, to Rhone-Poulenc S.A. Storage stable concentrated aqueous emulsions prepared from a mixture of methylhydrogen siloxane and methyl polysiloxane, an aminated polymer and an epoxy compound. 3,779,967, 12-18-73, Cl. 260-29.20m.
Camp, Nat. Handle clamp. 3,727,265, 4-17-73, Cl. 16-125.000.
Camp, Nat. Boiling chamber for steam generator. 3,743,780, 7-3-73, Cl. 219-288.000.
Camp, Nat. Steam generator with electrically heated boiling chamber. 3,775,589, 11-27-73, Cl. 219-284.000.
Camp, Percival Arthur: *See—*
Camp, Bryon; Camp, Percival Arthur; and Meyer, William Hasso, 3,722,007.
Camp, Raymond J.: *See—*
Bruno, Frederick H.; Camp, Raymond J.; and Farrell, Thomas H., 3,710,703.
Camp, Richard H. Combination automotive warning device. 3,761,875, 9-25-73, Cl. 340-67.000.
Camp, William C., Jr., to Cayuga Associates, Inc. Frequency stabilization for LSA oscillator. 3,754,194, 8-21-73, Cl. 331-1.00r.
Campagna, Benjamin J.: *See—*
Campagna, Benjamin J., 3,712,009.
Campagna, Benjamin J., to Campagna, Benjamin J. and Truono, Eugene J. Manhole closure assembly with valve relief means. 3,712,009, 1-23-73, Cl. 52-20.000.
Campagnuolo, Carl J.; McKindra, Clayton D.; Sewell, Clinton J.; Villarroel, Fernando; and Woolston, Lionel L., to United States of America, Navy. Aircraft rocket firing system. 3,712,170, 1-23-73, Cl. 89-1.814.
Campagnuolo, Carl J.; and Horton, Billy M., to United States of America, Army. Fluidic generator. 3,772,541, 11-13-73, Cl. 310-15.000.
Campagnuolo, Carl J., to United States of America, Army. Electrical power for fuze activation. 3,781,575, 12-25-73, Cl. 310-8.800.
Campanella, Matthew J.: *See—*
Guillen, Francisco J.; and Campanella, Matthew J., 3,710,377.
Campanella, Samuel Joseph; Suyderhoud, Henri George; and Onufry, Michael, Jr., to Communications Satellite Corporation. Echo suppressor break-in circuit. 3,725,612, 4-3-73, Cl. 179-170.600.
Campanella, Samuel Joseph; Suyderhoud, Henri G.; and Onufry, Michael, Jr., to Communications Satellite Corporation. Adaptive echo cancellers with compandors. 3,780,233, 12-18-73, Cl. 179-170.002.
Campani, John: *See—*
Moll, Oswin C., 3,720,783.
Campanini, Sergio: *See—*
Horowitz, Charles; and Campanini, Sergio, 3,773,365.
Campanini, Sergio, to Berg Manufacturing Company, The, mesne. Modualted spring brake. 3,713,702, 1-30-73, Cl. 303-9.000.
Campari, Luigi: *See—*
Teagno, Wladimiro; and Campari, Luigi, 3,715,457.
Teagno, Wladimiro; and Campari, Luigi, 3,764,958.
Teagno, Wladimiro; and Campari, Luigi, 3,781,766.
Teagno, Wladimoro; and Campari, Luigi, 3,753,193.
Campbell, Albert Evan, Jr.; and Jensen, Andrew O., to Xerox Corporation. Brazing ceramics. 3,740,830, 6-26-73, Cl. 29-472.700.
Campbell, Allen B., to Mesta Machine Company. Shear for steel strip and the like. 3,760,677, 9-25-73, Cl. 83-600.000.
Campbell, Alvin Edward, to GTE Automatic Electric Laboratories, Incorporated. Plug jack nut tool. 3,760,659, 9-25-73, Cl. 81-90.00c.
Campbell, Andrew J. Pair of surgical scissors. 3,721,245, 3-20-73, Cl. 128-318.000.
Campbell, Billy H.: *See—*
Smith, Arthur A.; Christensen, Dean E.; Campbell, Billy H.; Strickland, Raymond I.; Lopez, Bennie F.; Eckstein, Herbert P.; and Litchfield, Hart S., 3,765,752.
Campbell Chain Company: *See—*
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Campbell, Charles: *See—*
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Campbell, Colin: *See—*
McDermott, Peter; and Campbell, Colin, 3,730,413.
Campbell, Craig C., to Mobil Oil Corporation. Method of coating employing anionic wax emulsions. 3,711,314, 1-16-73, Cl. 117-56.000.
Campbell, Craig C., to Mobil Oil Corporation. Pesticidal compositions. 3,740,419, 6-19-73, Cl. 424-21.000.
Campbell, Darrel: *See—*
Nicholson, Allan D.; and Campbell, Darrel, 3,743,688.
Nicholson, D. Allan; and Campbell, Darrel, 3,755,504.
Campbell, David D., to General Motors Corporation. Servomotor. 3,733,972, 5-22-73, Cl. 92-37.000.
Campbell, David H.: *See—*
Cook, Charles A.; and Campbell, David H., 3,716,434.
Campbell, David O., to United States of America, Atomic Energy Commission. Isotope enrichment process for lanthanide and actinide elements. 3,708,392, 1-2-73, Cl. 176-16.000.
Campbell, David W.; and Matthews, Robert R., to Continental Oil Company. Method of increasing recovery of petroleum from subterranean formations. 3,770,056, 11-6-73, Cl. 166-273.000.
Campbell, Donald A.: *See—*
Packard, James R.; Campbell, Donald A.; Tait, William C.; and Dierssen, Gunther H., 3,757,250.
Tait, William C.; Campbell, Donald A.; Packard, James R.; and Dierssen, Gunther H., 3,747,018.
Campbell, Donald A.; and Locante, John, to Westinghouse Electric Corporation. Method for determining reactor coolant system leakage. 3,712,850, 1-23-73, Cl. 176-19.00r.
Campbell, Donald A.; Packard, James R.; Tait, William C.; and Weiher, Richard L., to Minnesota Mining and Manufacturing Company. Free exciton indirect transition laser. 3,715,162, 2-6-73, Cl. 356-30.000.
Campbell, Donald K. Rotary power device. 3,756,755, 9-4-73, Cl. 418-227.000.
Campbell, Donald S., to Ecodyne Corporation. Salt platform seal arrangement. 3,732,165, 5-8-73, Cl. 210-190.000.
Campbell, Edward G. Anti-skid attachment for automobiles. 3,711,116, 1-16-73, Cl. 280-150.00c.
Campbell, Eric C., to Wescor, Inc. Psychrometer and method. 3,739,629, 6-19-73, Cl. 73-77.000.
Campbell, Erwin A.: *See—*
Woolslayer, Homer J.; Woolslayer, Joseph R.; Jenkins, Cecil; and Campbell, Erwin A., 3,716,155.
Campbell, Francis Robert: *See—*
Weatherup, William Paul; and Campbell, Francis Robert, 3,723,946.
Campbell, Fred D.: *See—*
United States of America, National Aeronautics and Space Administration, 3,723,745.
Campbell, Frederic: *See—*
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Campbell, Gabe L.: *See—*
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Campbell, George E.: *See—*
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Campbell, George L., to Garland Steel Company. Conduit seal. 3,708,187, 1-2-73, Cl. 285-373.000.
Campbell, George L. Fluid distribution system and method. 3,767,121, 10-23-73, Cl. 239-272.000.
Campbell, George Thomas Richardson; and Wakamatsu, Moritomo, to Algoship International Limited. Oil tank heating apparatus. 3,738,305, 6-12-73, Cl. 114-73.000.
Campbell, Graham S. Sun reflector. 3,738,740, 6-12-73, Cl. 350-288.000.
Campbell, Gregory A., to General Motors Corporation. Forming skin covered foam by expanding a polyurethane mixture containing excess blowing agent in a closed mold. 3,709,965, 1-9-73, Cl. 264-45.000.
Campbell, Harold, to British Insulated Callender's Cables Limited. Electric wire suspension clip. 3,774,269, 11-27-73, Cl. 24-250.00r.
Campbell, Harvey A. Counter assembly for conveyor. 3,763,981, 10-9-73, Cl. 193-35.00r.
Campbell Industries: *See—*
Jangaard, Sverre M., 3,710,498.
Campbell, James A., to Westinghouse Air Brake Company. Brake rigging for railway car trucks. 3,731,766, 5-8-73, Cl. 188-52.000.



Campbell, James F.; and Nystrand, Ernst Daniel, to Kimberly-Clark Corporation. Mechanism for heat sealing. 3,748,207, 7-24-73, Cl. 156-359.000.
Campbell, James K.; and Lee, Kenneth M., to Dow Corning Corporation. Silicone-acrylate soil release treatment for organic textiles. 3,714,287, 1-30-73, Cl. 260-826.000.
Campbell, James K.; and Musolf, Martin C., to Dow Corning Corporation. Spandex fiber reacted with isocyanato group containing siloxane. 3,725,000, 4-3-73, Cl. 8-115.006.
Campbell, James K., to Dow Chemical Corporation. Process for binding pigments to glass fabrics. 3,759,740, 9-18-73, Cl. 117-126.0gs.
Campbell, James L., to Internation Research Corporation. Fuel preheater. 3,768,730, 10-30-73, Cl. 236-93.000.
Campbell, James R.: *See—*
Igarashi, Yoshiashi; Campbell, James R.; and Allman, Richard L., 3,774,718.
Campbell, James R. Method of fabricating a spherical bearing. 3,727,280, 4-17-73, Cl. 29-149.50b.
Campbell, James Robert: *See—*
Barlow, Alan; and Campbell, James Robert, 3,767,058.
Campbell, James Samuel. Disposal machine for cuttings or the like. 3,735,933, 5-29-73, Cl. 241-236.000.
Campbell, James T.: *See—*
Hileman, Ronald E.; and Campbell, James T., 3,714,404.
Campbell, James W., to Halton City State Bank, mesne. Method and apparatus for cutting panels. 3,717,265, 2-20-73, Cl. 214-1.600.
Campbell, James W., to Wetoma Corporation. Discharge unit for panel cutting apparatus. 3,721,140, 3-20-73, Cl. 143-157.000.
Campbell, James W., to Halton City State Bank. Method and apparatus for cutting panels. 3,768,352, 10-30-73, Cl. 83-104.00r.
Campbell, James W., to Halton City State Bank, mesne. Method and apparatus for cutting panels. 3,768,796, 10-30-73, Cl. 269-34.000.
Campbell, James W., to Halton City State Bank, mesne. Method and apparatus for cutting panels. 3,777,598, 12-11-73, Cl. 83-29.00r.
Campbell, Jesse L.; Klein, Walter F.; and Lowry, Denis E., to International Business Machines Corporation. Cartridge particularly suitable for disc record member. 3,730,602, 5-1-73, Cl. 312-10.000.
Campbell, John; Freeman, Roger Francis Argyll; and Williams, Gwilym Iorwerth. Apparatus for the determination of surface tension of liquids. 3,765,227, 10-16-73, Cl. 73-64.400.
Campbell, John David; and McCann, Robert E., to Dykema, Charles M.; trustee and United States of America, Small Business Administration. Compact rotary well drilling rig with hydraulic swivel pull down mechanism. 3,719,238, 3-6-73, Cl. 173-147.000.
Campbell, John E., to Polaroid Corporation. Self-developing photographic film unit with liquid trap and an alkali neutralizing spacer element. 3,761,269, 9-25-73, Cl. 96-76.00r.
Campbell, John M., to Carrier Corporation. Probe mounting structure. 3,776,027, 12-4-73, Cl. 73-70.000.
Campbell, John Scott; Deming, Philip H.; and Epstein, Aaron M., to Universal Laboratories, Incorporated. Method for decoratively silk screen printing candles. 3,771,445, 11-13-73, Cl. 101-129.000.
Campbell, Keir Charles, to Ranks Hovis McDougall Limited. Method of feeding chitinous meal to crustacea. 3,733,204, 5-15-73, Cl. 99-402.00r.
Campbell, Kenneth C.; and Rhinehart, Robert R., Jr., to Celanese Corporation. Filter start-up in dry spinning acrylonitrile copolymer. 3,715,416, 2-6-73, Cl. 264-39.000.
Campbell, Kenneth C.; David, James M.; Frye, Gary E.; and Woods, Robert E., to Celanese Corporation. Continuous secondary cellulose ester process. 3,755,297, 8-28-73, Cl. 260-227.000.
Campbell, Kenneth C.; Davis, James Martin; and Woods, Robert E., Jr., to Celanese Corporation. Preparation of secondary cellulose acetate. 3,767,642, 10-23-73, Cl. 260-227.000.
Campbell, Larry E., to Corning Glass Works. Soluble and colloidal silicates. 3,715,224, 2-6-73, Cl. 106-74.000.
Campbell, Laurie J.; Lohr, Raymond J.; and Kienholz, Charles M., to Marx, Louis, & Co., Inc., mesne. Game combining chance and judgment. 3,744,800, 7-10-73, Cl. 273-135.00e.
Campbell, Leslie T.; and Vetter, Joseph J., to United States of America, Navy. Apparatus for determining the position of a surface vessel with respect to a signal source. 3,731,264, 5-1-73, Cl. 340-3.0ps.
Campbell, Lester L., to Hughes Aircraft Company. Stepped length lead locator and trimmer. 3,771,207, 11-13-73, Cl. 29-203.00h.
Campbell, Lewis B.; and Pietrzak, Joe P., to General Motors Corporation. Flexible grid for freezing trays. 3,724,804, 4-3-73, Cl. 249-128.000.
Campbell, Loran William, Jr., to Bell Telephone Laboratories, Incorporated. Digital ratio circuit including zero suppression. 3,752,972, 8-14-73, Cl. 235-196.000.
Campbell, Mahlon E.: *See—*
McConnell, Bobby D.; Lavik, Melvin T.; and Campbell, Mahlon E., 3,721,625.
Campbell, Matthew Teasdale, to Fork Lift Truck Patentees Establishment. Load handling vehicle. 3,780,895, 12-25-73, Cl. 214-770.000.
Campbell, Morris C. Invertible dual purpose tray holder. 3,760,996, 9-25-73, Cl. 224-48.00r.
Campbell, Norman Bernard; and Wells, Ross Nelson Frederick, to Union Carbide Canada Limited. Polycarbonamide having improved basic dye receptivity. 3,719,641, 3-6-73, Cl. 260-78.00a.
Campbell, Paul J. Machine tool tracer. 3,756,122, 9-4-73, Cl. 90-62.00a.
Campbell, Raymond L., Jr.: *See—*
Tinch, David H.; Campbell, Raymond L., Jr.; Eliahou, Elie S.; and Schmidt, Arthur W., 3,721,960.
Campbell, Richard H., Jr.; and Wilkens, William B., to Wilcom Products, Inc. Method and apparatus for evaluating the integrity of the shield connection in a splicing section joining the ends of adjacent insulated and shielded communication cables. 3,711,76, 1-16-73, Cl. 324-51.000.
Campbell, Robert, to General Motors Corporation. Vehicle speed controller. 3,712,126, 1-23-73, Cl. 73-117.000.
Campbell, Robert Bruce, to Lear Siegler, Inc. Latched gating circuit. 3,737,675, 6-5-73, Cl. 307-211.000.
Campbell, Robert D., to San Fernando Electric Manufacturing Co., Inc. Apparatus for automatically testing and sorting electrical elements. 3,716,134, 2-13-73, Cl. 209-73.000.
Campbell, Robert H.; and Cherry, Wesley R., to Sun Oil Company of Pennsylvania, mesne. Hot melt adhesive having improved creep properties. 3,723,371, 3-27-73, Cl. 260-28.5av.
Campbell, Robert H.; and Cloyd, Harold S., to Continental Can Company, Inc. and Nosco Plastics, Incorporated. Impact absorbing corner structure. 3,750,598, 8-7-73, Cl. 108-51.000.
Campbell, Robert Henry; and Wise, Raleigh Warren, to Monsanto Company. Preparation of sulfenamides by catalytic oxidation. 3,737,431, 6-5-73, Cl. 260-247.100.
Campbell, Robert L.; and Roatcap, Daniel A. Bottle alignment device for bottle filling machines. 3,742,989, 7-3-73, Cl. 141-371.000.
Campbell, Robert L., Jr., to Automated Manufacturing Systems, Inc. Apparatus for molding hollow plastic articles. 3,776,052, 12-4-73, Cl. 74-230.17a.
Campbell, Robert Riddle; Hönnold, George Herbert; and Lefkowitz, Michael, to Bell Telephone Laboratories, Incorporated. Interrupt network to protect a voice frequency signal detector from being talked-off by outgoing speech signals. 3,715,518, 2-6-73, Cl. 79-84.0vf.
Campbell, Robert W.: *See—*
Lind, Wilton H.; and Campbell, Robert W., 3,761,515.
Campbell, Robert W., to Phillips Petroleum Company. Polyamide fibers from mixture of bis-(p-aminocyclohexy) methane and 4,4'-methylene dianiline. 3,721,653, 3-20-73, Cl. 260-78.00r.
Campbell, Robert W., to Phillips Petroleum Company. Polyamide fibers from mixture of 1,3-bis-(4-piperidyl) propane and bis(p-aminocyclohexyl)methane. 3,725,358, 4-3-73, Cl. 260-78.00r.
Campbell, Ronald F., to Chemetron Corporation. Method for carbon dioxide snow separation. 3,757,367, 9-11-73, Cl. 62-10.000.
Campbell, Ronald J.: *See—*
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Campbell, Rouel R. Epicyclic camera. 3,743,393, 7-3-73, Cl. 352-84.000.
Campbell Soup Company: *See—*
Berner, David L.; Jacobson, Glen A.; and Trombold, Charles D., 3,732,111.
Gageant, Louis M.; and Greet, William E., 3,731,715.
Mayo, William Harold; Winters, Arthur Burnett; Davis, James Bradley, Jr.; Edenfield, Harrison; and Gainous, Aubrey Cornelius, 3,743,024.
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Campbell, Stephen P., Jr., to Damon Corporation. Surgical lancet having casing. 3,760,809, 9-25-73, Cl. 128-314.000.
Campbell, Sterling A.: *See—*
Nau, Richard A.; and Campbell, Sterling A., 3,779,452.
Campbell, Sterling A., to General Dynamics Corporation. Chemical liquid oxide spray separator. 3,766,718, 10-23-73, Cl. 55-228.000.
Campbell, Thomas G.: *See—*
Campbell, Thomas G.; and Purvis, James A. (said Purvis assor. of 1/4 to said), 3,740,815.
Campbell, Thomas G.; and Purvis, James A., said Purvis assor. of 1/4 to said Campbell, Thomas G. Pallet stringer puller. 3,740,815, 6-26-73, Cl. 29-200.00d.
Campbell, Thomas Herbert; Schnitzler, Paul; and West, Laurice Juston, to RCA Corporation. Lattice network using distributed impedance transmission lines. 3,768,047, 10-23-73, Cl. 333-73.00s.
Campbell, Trevor G., to Caterpillar Tractor Company. Multi-movement single lever control. 3,768,328, 10-30-73, Cl. 74-471.0xy.
Campbell, William C., to Merck & Co., Inc. Treatment of pain, fever and inflammation with benzimidazoles. 3,711,608, 1-16-73, Cl. 424-270.000.
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Campbell, Willis R.; and Brackbill, Warren H., to Sperry Rand Corporation. Apron drive for a manure spreader. 3,722,306, 3-27-73, Cl. 74-219.000.
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Campman, James P., to Vidar Laboratories, Inc. Transistor transmitter using variable line length tuner. 3,732,497, 5-8-73, Cl. 325-105.000.
Campman, James P.; and Linscott, Jack H., to Linscott, Jack H. and said Campman assor. of 1/2 to said Vidar Laboratories, Inc. Remotely controlled automatic utility meter reader. 3,778,795, 12-11-73, Cl. 340-188.00r.
Campman, James P., to Vidar Laboratories Inc. Intrusion detecting apparatus and method. 3,781,842, 12-25-73, Cl. 340-258.00b.
Camprubi, Bartholomew; and Capron-Tee, Grahame Gerald, to Hoover Company, The. Fluidic dishwasher spray system. 3,708,120, 1-2-73, Cl. 239-66.000.
Camps, Javier Sanglas. Wheel hub assembly. 3,776,597, 12-4-73, Cl. 301-6.00v.
Camps, Jean-Jacques. Heating apparatus using liquid fuel. 3,724,992, 4-3-73, Cl. 431-154.000.
Camras, Marvin, to IIT Research Institute. Method of making a transducer head. 3,713,212, 1-30-73, Cl. 29-603.000.
Camras, Marvin, to IIT Research Institute. Magnetic transducer system with head engaging slidably supported tape loop adjacent the capstan. 3,725,608, 4-3-73, Cl. 179-100.20c.
Camras, Marvin, to IIT Research Institute. Video recording system. 3,737,568, 6-5-73, Cl. 178-6.60a.
Camras, Marvin, to IIT Research Institute. Mounting structure for transducer heads. 3,761,644, 9-25-73, Cl. 179-100.21a.
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Canale, Raymond P.; and Ross, Wesley J., to Colt Industries Operating Corporation. Turbine engine control system. 3,777,482, 12-11-73, Cl. 60-39.28r.
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Canarutto, Claudio, to Olivetti, Ing., C., & C., S.p.A. Apparatus having a plurality of multi-position switches for automatically testing electronic circuit boards. 3,723,867, 3-27-73, Cl. 324-73.0pc.
Canas-Rodriguez, Antonio; and Leeming, Peter Rodway, to Pfizer Inc. 3-Substituted-1-phenyl-indolines and indolinones in composition for alleviating mentol depression. 3,720,771, 3-13-73, Cl. 424-274.000.
Canas-Rodriguez, Antonio; and Leeming, Peter Rodway, to Pfizer Inc. 3-Substituted-1-phenyl indolinones. 3,732,248, 5-8-73, Cl. 260-325.000.
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Candel, Sebastien M. Liquid aeration method and apparatus. 3,768,788, 10-30-73, Cl. 261-122.000.
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Candiani, Giampiero, to Societa Italiana Telecomunicazioni Siemens S.p.A. Binary-code expander. 3,755,808, 8-28-73, Cl. 340-347.0dd.
Candlin, John Paton; Maguire, James Edward; and Wyatt, Ronald John, to Imperial Chemical Industries, Limited. Compositions for initating olefin polymerisation and the use thereof. 3,738,944, 6-12-73, Cl. 252-431.00r.
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Candor, James T. Flexible skirt construction for a vacuum cleaning nozzle and the like. 3,780,398, 12-25-73, Cl. 15-415.000.
Candor, Robert R.; and Candor, James T. Liquid removing apparatus and method. 3,755,911, 9-4-73, Cl. 34-1.000.
Candor, Robert R.; and Candor, James T. Liquid removing method. 3,757,426, 9-11-73, Cl. 34-1.000.
Candor, Robert R.; and Candor, James T. Method and apparatus for treating sheet-like material with fluid. 3,771,236, 11-13-73, Cl. 34-16.000.
Candy, James Charles, to Bell Telephone Laboratories, Incorporated. Stabilized delta modulator. 3,716,803, 2-13-73, Cl. 332-11.00d.
Candy, William R. Header-spoon with flexible trailing bait. 3,731,419, 5-8-73, Cl. 43-42.280.
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Canivenc, Serge, to Societe Lannionnaise d'Electronique. Connection system for waves with variable polarization. 3,747,115, 7-17-73, Cl. 343-820.000.
Cann, Peter L., to Carrier Corporation. Centrifugal fan assembly. 3,743,439, 7-3-73, Cl. 415-206.000.
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Cannon, Corbitt Thomas. Helicopter cargo pod. 3,778,011, 12-11-73, Cl. 244-137.00r.
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Cannon, Robert L.; Goldberg, Herbert E.; Thaler, Sherwood S.; and Daynard, Richard F., to American Optical Corporation. Temporary power supply for a heart-stimulating device. 3,757,794, 9-11-73, Cl. 128-419.00p.
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Canova, Fred; Krouse, Leroy M.; and Hornschuch, Hanns, to Ingersoll-Rand Company. Gas compressor. 3,773,430. 11-20-73, Cl. 415-104.000.
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Cant, Noel W.; and Hall, William K., to Gulf Research & Development Company. Propylene oxidation in the presence of gold metal. 3,725,482, 4-3-73, Cl. 260-604.00r.
Cantagallo, Raymond E.; and Lutz, Robert J., to Sun Shipbuilding & Dry Dock Company. Apparatus for transportation of commodities. 3,733,849, 5-22-73, Cl. 62-414.000.
Cantales, Joseph. Spackling knife tool. 3,774,252, 11-27-73, Cl. 7-14.10a.
Cantales, Paul. Disposable plastic leggings for dogs. 3,762,073, 10-2-73, Cl. 36-2.50p.
Cantaloube, Bernard Andre: *See—*
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Canter, James A., to General Motors Corporation. Timer circuit-automotive compressor. 3,765,191, 10-16-73, Cl. 62-228.000.
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Cantor, Abraham; and Winicov, Murray W., to West Laboratories, Inc. Germicidal iodine compositions for application to skin tissue including teats of milk animals. 3,728,449, 4-17-73, Cl. 424-150.000.
Cantor, Abraham; and Winicov, Murray W., to West Laboratories, Inc. Indicator means for consumer mixing of multicomponent systems. 3,770,641, 11-6-73, Cl. 252-90.000.
Cantor, Abraham; and Winicov, Murray W., to West Laboratories, Inc. Disinfectant composition. 3,777,022, 12-4-73, Cl. 424-150.000.
Cantral, John Isaac, to Deere & Company. Side draft control system for a tractor and earth-working implement. 3,734,195, 5-22-73, Cl. 172-7.000.
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Cantrell, Ralph S., Sr. Newspaper inserting machine. 3,711,083, 1-16-73, Cl. 270-55.000.
Cantrell, Roger E.; and Sturiale, Louis A., to Westinghouse Electric Corporation. Explosively welded plug for leaky tubes of a heat exchanger and method of using the same. 3,724,062, 4-3-73, Cl. 29-470.100.
Cantrell, Ronald G., to Houdaille Industries, Inc. Rigidly attached resilient buckling column bumper support systems. 3,781,049, 12-25-73, Cl. 293-99.000.
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Cantwell, Laurence W., to Portec, Inc. Rail anchor. 3,762,640, 10-2-73, Cl. 238-327.000.
Cantwell, Thomas C., Jr.; and Wilmot, Richard D., to Hughes Aircraft Company. Digital radar detector system. 3,727,218, 4-10-73, Cl. 343-5.0dp.
Cantz, Rolf J., to Kennametal Inc. Tire stud having porous impregnated body. 3,719,478, 3-6-73, Cl. 75-208.00r.
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Cantz, Rolf J., to Kennametal Inc. Tire stud. 3,747,659, 7-24-73, Cl. 152-210.000.
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Canyon Research Corporation: *See—*
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Capes, Charles Edward; McIlhinney, Allan Edward; and Tweddle, Thomas Allen, to Canadian Patents and Development Limited. Method and apparatus for conveying particulate material upwardly in a gas stream. 3,776,601, 12-4-73, Cl. 302-64.000.
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Capetti, Federico; and Terzuolo, Giancarlo, to Olivetti, Ing., C., & C., S.p.A. Paper sheet feed control device for printing machines, duplicators and machines for the treatment of sheets in general. 3,746,333, 7-17-73, Cl. 271-56.000.
Capetti, Frederico; and Terzuolo, Giancarlo, to Olivetti, Ing., C., & C., S.p.A. Suction device for picking up sheets. 3,754,751, 8-28-73, Cl. 271-103.000.
Capgras, Rene, to Industrial Development Company. Automobile suspension. 3,736,000, 5-29-73, Cl. 280-124.00f.
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Caplick, Daniel J.; Marra, Frank; and Sprenger, Gerhard E., to Sun Chemical Corporation. Radiation-curable compositions comprising an isocyanate-modified polyfunctional ester and a photoinitiator. 3,759,809, 9-18-73, Cl. 204-159.230.
Caporicci, Antonio G. Automatic door locking mechanism. 3,708,193, 1-2-73, Cl. 292-280.000.
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Capossela, Anthony C., Jr.: *See—*
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Cappelen, Christian, Jr.; and Grimsrud, Lars. Method for the sterilization of a system for preparation of a liquid mixture. 3,738,382, 6-12-73, Cl. 137-240.000.
Cappetti, Ilio; Melindo, Flavio; and Perucca, Giovanni, to Centro Studi E Laboratori Telecomunicazioni S.p.A. Traffic concentrator for telecommunication system with tree structure. 3,728,492, 4-17-73, Cl. 179-18.0fc.
Cappiello, Pierre; and Gauberthier, Joseph, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges

Claude and Technip Compagnie Francaise d'Etudes et de Constructions. Diphasic fluid distributing device. 3,754,381, 8-28-73, C. 55-269.000.
Cappon, Arthur M., to Sperry Rand Corporation. Bit organized integrated MNOS memory circuit with dynamic decoding and store-restore circuitry. 3,719,932, 3-6-73, Cl. 340-173.00r.
Cappon, John. Method and device for the design of two parameter distribution system. 3,708,653, 1-2-73, Cl. 235-61.00b.
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Capps, David B.; and Erdelyi, Alexander, to Parke, Davis & Company. Organic sulfur compounds and methods for their production. 3,725,422, 4-3-73, Cl. 260-294.80e.
Capps, David B., to Parke, Davis & Company. Organic amides and methods for their production. 3,726,880, 4-10-73, Cl. 260-294.80e.
Capps, David B., to Parke, Davis & Company. Novel anti-infective agents and means of producing the same. 3,758,491, 9-11-73, Cl. 260-306.700.
Capps, Raymond H.; and Harman, Gordon S., to Union Carbide Corporation. Method for recovering tantalum and/or columbium. 3,712,939, 1-23-73, Cl. 423-63.000.
Capps, William T., Sr.; and Hunnam, Robert J., to Ram-Pak, Inc. Trash-compacting apparatus. 3,747,519, 7-24-73, Cl. 100-218.000.
Cappucci, Joseph D., to Merrimac Industries, Inc. Lumped constant quadrature coupler with improved parasitic suppression. 3,723,914, 3-27-73, Cl. 333-11.000.
Cappucci, Joseph D., to Merrimac Industries, Inc. Four port networks synthesized from interconnection of coupled and uncoupled sections of line lengths. 3,761,843, 9-25-73, Cl. 333-10.000.
Cappuccio, Vittorio; Caldo, Cornelio; and Cantatore, Giuseppe, to Montecatini Edison S.p.A. Fiber-forming compositions having improved dye receptivity, process for their preparation and new basic nitrogen compounds employed therein. 3,709,839, 1-9-73, Cl. 60-2.0bp.
Capra, Uberto. Control system for horizontal scrubbing brush of vehicle-washing station. 3,725,967, 4-10-73, Cl. 15-21.00e.
Capra, Uberto. Vehicle drying apparatus. 3,742,615, 7-3-73, Cl. 34-229.000.
Caprara, Giuseppe: *See—*
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Caprio, Lawrence A.: *See—*
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Captain, Khushroo M.; Edwards, John H.; and Russell, David B., to American Velcro, Inc., mesne. Heating apparatus. 3,773,597, 11-20-73, Cl. 156-499.000.
Capuano, Guido A.; and Davenport, William G., to Canadian Patents and Development Limited. Electroplating aluminum. 3,775,260, 11-27-73, Cl. 204-14.00r.
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Caputo, Anthony J.: *See—*
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Caputo, William R., to Westinghouse Electric Corporation. Motor control system. 3,741,348, 6-26-73, Cl. 187-29.00r.
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Caputo, William R.; and Ostrander, William M., to Westinghouse Electric Corporation. Elevator system. 3,759,350, 9-18-73, Cl. 187-29.00r.
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Carabateas, Philip M., to Sterling Drug Inc. N-(3-Quinuclidenyl) aclanilides. 3,763,168, 10-2-73, Cl. 260-293.530.
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Caraculacu, Adrian, Dr.-Eng.; Petrus, Eng. Alla; and Laba, Eng. Mircea, to Institutul de Chimie Macromoleculara Petre Ponti-Iasi. Process for preparing the P,P-dinitrobibenzyl. 3,716,590, 2-13-73, Cl. 260-645.000.
Caras, Bernard, to Burroughs Corporation. Clamp for use in assembling display device. 3,730,511, 5-1-73, Cl. 269-152.000.
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Caraway, Guy C. Adjustable speed projector with synchronized sound recorder. 3,779,632, 12-18-73, Cl. 352-17.000.
Carbajal, Bernard G., III; Gosney, William Milton; and Hall, Lou H., to Texas Instruments, Incorporated. Fabrication of an insulated gate field effect transistor device. 3,724,065, 4-3-73, Cl. 29-571.000.
Carbajal, Manuel. Process for making moldable bagasse compositions. 3,748,160, 7-24-73, Cl. 106-99.000.
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Carbon, Theo; and Kessler, Reinhard, to Fichtel & Sachs AG. Hub shell assembly for a bicycle and method of making the same. 3,722,959, 3-27-73, Cl. 301-105.00b.
Carbonara, Carl. Silent electric switch means. 3,710,057, 1-9-73, Cl. 200-164.00r.
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Carbone, Angelo F., 50% to Fallacaro, Emmanuels. Reciprocating cutting apparatus. 3,747,448, 7-24-73, Cl. 83-4.000.
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Carbone, Jorge L. Piano striking mechanism. 3,757,026, 9-4-73, Cl. 84-236.000.
Carbonell, Marlene: Bathtub scrubber. 3,731,334, 5-8-73, Cl. 15-50.00r.
Carbonneau, Rene R., to Mylec, Inc. Protective pad for the leg and ankle. 3,772,704, 11-20-73, Cl. 2-22.000.
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Carbonnel, Henri, to Groupement Atomique Alsacienne Atlantique. Means for treating a liquid metal and particularly aluminum. 3,715,112, 2-6-73, Cl. 266-34.00t.
Carbonniere, John G., to Ocean Labs Inc. Kelp derived feeds containing sequestered trace minerals mixed with sulfate salts. 3,764,341, 10-9-73, Cl. 99-2.0cd.
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Carbrey, Robert L., to Bell Telephone Laboratories, Incorporated. Self companding pulse code modulation systems. 3,735,393, 5-22-73, Cl. 340-347.0da.
Carbrey, Robert Lawrence, to Bell Telephone Laboratories, Incorporated. Time division communication system utilizing time separation switching. 3,742,147, 6-26-73, Cl. 179-15.0at.
Carbrey, Robert Lawrence, to Bell Telephone Laboratories, Incorporated. Time division switching system. 3,745,253, 7-10-73, Cl. 179-15.0at.
Carbrey, Robert Lawrence, to Bell Telephone Laboratories, Incorporated. Time division switching arrangement utilizing a hybrid circuit. 3,745,256, 7-10-73, Cl. 179-15.0at.
Carbrey, Robert Lawrence, to Bell Telephone Laboratories, Incorporated. Nonlinear charge redistribution PCM coder. 3,745,555, 7-10-73, Cl. 340-347.0ad.
Carcia, Calixto Fortunato, to Jackson, Byron, Inc. Method of selectively stimulating oil wells, compositions therefor, and methods of making such compositions. 3,719,228, 3-6-73, Cl. 166-281.000.
Carcia, Leslie C.; Mc Neill, John D.; Papanastastou, Theodore A.; Howers, Norman K.; and Tjonpiangi, William E., to International Business Machines Corporation. Input/output hardware trace monitor. 3,748,650, 7-24-73, Cl. 340-172.500.
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Cardarelli, Nathan F.; and Mansdorf, Seymour Zachary, to University of Akron, The. Dermal protective film. 3,749,772, 7-31-73, Cl. 424-81.000.
Cardarelli, Nathan F., to Diamond Shamrock Corporation. Method of controlling the gastropod vectors of parasitic flukes. 3,767,809, 10-23-73, Cl. 424-304.000.
Cardell, Nicholas W., Jr.; and Manzo, Richard James, to Bunker-Ramo Corporation, The. Method and apparatus for data entry. 3,753,233, 8-14-73, Cl. 340-172.500.
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Carder, William E., to Carder Industries, Inc. Straight edge with non-slip inserts. 3,738,010, 6-12-73, Cl. 33-107.000.
Cardew, Kenneth Hugh Frederic; and Petty, Stuart Peter Fitmaurice, to National Research Development Corporation. Solenoid device. 3,742,407, 6-26-73, Cl. 335-258.000.
Cardi, Paul. Fail-safe device for thermostatic valves. 3,776,457, 12-4-73, Cl. 236-34.500.
Cardiac Resuscitator Corporation: *See—*
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Cardwell, John G., Jr., to General Electric Company. Adapter base for electric lamp. 3,746,906, 7-17-73, Cl. 313-318.000.
Cardwell, John William, to Lucas, Joseph, (Industries) Limited. Vehicle ignition switch. 3,770,916, 11-6-73, Cl. 200-44.000.
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Carey, John Gerard, to Imperial Chemical Industries Limited. Manufacture of 1,1'-disubstituted-4,4'-bipyridylium salts. 3,772,310, 11-13-73, Cl. 260-295.0am.
Carey, John Gerard, to Imperial Chemical Industries Limited. Manufacture of 1,1'-disubstituted-4,4'-bipyridylium salts. 3,772,310, 11-13-73, Cl. 260-295.0am.
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Carey, Peter M.; and Holmwood, Owen L., to Lektromedia Ltd. Low resolution graphics for CRT displays. 3,750,135, 7-31-73, Cl. 340-324.0ad.
Carey, Raymond E.; and Robertson, Andy S., to AMF Incorporated. Adjustable tape path length. 3,739,363, 6-12-73, Cl. 340-174.00l.
Carey, Virginia Marie. Undergarment and prosthesis for use therewith. 3,710,800, 1-16-73, Cl. 128-488.000.
Carey, William H., to Walk-In-Boys, Inc., The. Plural rotatable drum chance device. 3,751,040, 8-7-73, Cl. 273-143.00r.
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Carignan, Lucien W., to New England Malleable Iron Company. Automated apparatus for machining parts on a rotatable arbor. 3,771,390, 11-13-73, Cl. 82-2.500.
Carignani, Milvio; Conti, Michele; Berte, Dufour; Rossi, Geremia; Pasero, Edoardo; and Zmolnig, Hermann, to Italsider S.p.A. Method for recovering iron from blast furnace and basic oxygen furnace wastes. 3,770,415, 11-6-73, Cl. 75-3.000.
Carini, George F.; Hommel, Ernest M.; and Twigger, James R., to Hommel, O., Company, The. Ceramic coating compositions for continuous cleaning surfaces. 3,761,293, 9-25-73, Cl. 106-48.000.
Caris, Costa: *See—*
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Kamborian, Jacob S.; and Caris, Costa, 3,775,797.
Carissimi, Massimo; and Ravenna, Franco, to Maggioni & C., S.p.A. Phenylcyclohexane derivatives and methods for their manufacture. 3,712,928, 1-23-73, Cl. 260-592.000.
Caristi, Robert F., to Avco Corporation. Flowing liquid laser. 3,745,484, 7-10-73, Cl. 331-94.500.
Carita, Enrico, to Honeywell Information Systems Italia. Circuit for diagnosing failures in electronic memories. 3,712,537, 1-23-73, Cl. 235-153.000.
Carl, Christopher: *See—*
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Carl, David F., to Allis-Chalmers Corporation. Pressure graduated control valve. 3,765,454, 10-16-73, Cl. 137-625.680.
Carl, David G.; Kietzman, Richard C.; and Knapp, William A. Masking the closeable area of a container during coating of the container. 3,740,259, 6-19-73, Cl. 117-94.000.
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Carle, Guy E. Apparatus for continuous casting of metal strip. 3,747,667, 7-24-73, Cl. 164-282.000.
Carle, Joseph T., to Oil Dynamics, Inc. Submersible motor cable for severe environment wells. 3,742,363, 6-26-73, Cl. 174-102.00r.
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Carless, Ernest Lee. Record album storage cabinet. 3,779,621, 12-18-73, Cl. 312-15.000.
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Tillie, W. Robertus J.; Carleton, James T.; and Putman, Richard E. J., 3,748,224.
Carleton, John T., to Du Pont de Nemours, E. I., and Company. Vacuum coating method. 3,736,175, 5-29-73, Cl. 117-107.100.
Carleton, Joseph G.; McEwen, Cassius R.; and Williams, Frederick G., Jr., said Carleton and said McEwen assors. to Beckman Instruments, Inc. Automatic fraction collector. 3,708,948, 1-9-73, Cl. 53-74.000.
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Carley, David R.; Lowrance, Byron R.; and Mangham, Jesse Roger. Preparation of dihydrocarbon beryllium compounds. 3,780,118, 12-18-73, Cl. 260-665.00r.
Carley, David R., to Ethyl Corporation. Manufacture of beryllium hydride. 3,780,169, 12-18-73, Cl. 423-645.000.
Carley, Donald Raymond, to RCA Corporation. Transistor employing variable resistance ballasting means dependent on the magnitude of the emitter current. 3,740,621, 6-19-73, Cl. 317-235.00r.
Carley, James A., to Los Angeles Miniature Products, Inc. End lamp accessory. 3,733,479, 5-15-73, Cl. 240-2.00r.
Carley, James A., to Los Angeles Miniature Products Inc. Elongate light block assembly lamp. 3,739,219, 6-12-73, Cl. 313-278.000.
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Carley, Wesley B. K. Mobile rock drilling unit. 3,744,574, 7-10-73, Cl. 173-27.000.
Carley-Macauly, Kenneth Wallace; Hitchon, James Witham; and Moulton, Robert James, to United Kingdom Atomic Energy Authority. Electro-hydraulic crushing apparatus. 3,715,082, 2-6-73, Cl. 241-1.000.
Carli, Alvin J., to Alliance Manufacturing Company, Inc., The. Door operator reversing control. 3,719,005, 3-6-73, Cl. 49-28.000.
Carlile, Alfred E.; and Cox, Bernard H., to Textron, Inc. Molded plastic snap fastener for strip of components therefor. 3,774,756, 11-27-73, Cl. 206-56.0ab.





Carlin, Bernard, 50% to Garrett, Billy J. Gate valve. 3,778,030, 12-11-73, Cl. 251-327.000.
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Burk, Emmett H., Jr.; and Carlos, Donald D., 3,763,175.
Carlow, Earl F.; and Hepworth, Edward C., to Motorola, Inc. Digital phase shifter/synchronizer and method of shifting. 3,755,748, 8-28-73, Cl. 328-155.000.
Carls, Billy F.; and Bell, Paul R. Storage of histology specimens. 3,733,768, 5-22-73, Cl. 53-25.000.
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Carlsmith, Lawrence A., to Improved Machinery Inc. Method of making annular grid structure. 3,745,642, 7-17-73, Cl. 29-475.000.
Carlson, Alfred D.; and Kasper, Joseph G., to Tennant Company. Filter chamber for sweeping machine. 3,747,156, 7-24-73, Cl. 15-349.000.
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Carlson, Alton R.: *See—*
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Carlson, Arnold August. Cooking iron. 3,736,859, 6-5-73, Cl. 99-331.000.
Carlson, Arthur B.; and Watson, Robert W., to Conco Inc. Load balancer with safety control. 3,747,886, 7-24-73, Cl. 248-325.000.
Carlson, Arthur B., to Conco Inc. Product-carrying basket. 3,776,410, 12-4-73, Cl. 220-19.000.
Carlson, Bernard E. Bulk material handling vehicle and unloading boom therefor. 3,770,101, 11-6-73, Cl. 198-115.000.
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Carlson, Carl J.; and Horne, Samuel E., Jr., to Goodrich, B. F., Company, The. Polymerization of conjugated polyolefins. 3,728,325, 4-17-73, Cl. 260-94.300.
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Carlson, Cleo Dale, to Dow Chemical Company, The. Process for the preparation of ethylbenzene. 3,766,290, 10-16-73, Cl. 260-672.00t.
Carlson, Dana Peter; and West, Norman Eugene, to Du Pont de Nemours, E. I., and Company. Poly(ethylene/chlorotrifluoroethylene) and poly (ethylene/tetrafluoroethylene having improved high temperature properties. 3,738,923, 6-12-73, Cl. 204-159.200.
Carlson, David John; and George, John Barrett, to RCA Corporation. Circuit for transmitting digital signals to conventional television receiver. 3,766,313, 10-16-73, Cl. 178-7.200.
Carlson, David John, to RCA Corporation. Modulator system. 3,775,555, 11-27-73, Cl. 178-6.800.
Carlson, Don H. Cementation tab. 3,763,566, 10-9-73, Cl. 32-40.00r.
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Grosser, Harry W.; Fehlman, William L.; and Carlson, Duane, 3,772,641.
Carlson, Duane E. Container crusher. 3,776,129, 12-4-73, Cl. 100-98.00r.
Carlson, Duane G., to International Business Machines Corporation. Acoustic filter. 3,731,759, 5-8-73, Cl. 181-.50f.
Carlson, Edwin R., to Del-Pak Media Corporation. Filter media for liquid wastes treatment and method of forming the same. 3,750,887, 8-7-73, Cl. 210-150.000.
Carlson, Edwin S., to Union Tank Car Company. Jacket flashing. 3,739,729, 6-19-73, Cl. 105-358.000.
Carlson, Elmer T. Totally enclosed cablebus. 3,770,875, 11-6-73, Cl. 174-88.00b.
Carlson, Elmer Victor: *See—*
Knowles, Hugh Shaler; and Carlson, Elmer Victor, 3,770,911.
Carlson, Elmer Victor; and Killion, Mead Clifford, to Industrial Research Products, Inc. Diaphragm assembly for electret transducer. 3,740,496, 6-19-73, Cl. 179-111.00e.
Carlson, Elmer Victor; and Mostardo, August, Jr., to Industrial Research Products, Inc. Electroacoustic transducer. 3,766,332, 10-16-73, Cl. 179-114.00a.
Carlson, Emery J.: *See—*
Bridwell, Billy W.; Carlson, Emery J.; Edgecomb, Raymond H.; and Watson, William E., 3,755,551.
Carlson, Floyd E. Pump displacement control. 3,732,037, 5-8-73, Cl. 417-217.000.
Carlson, George R. Automatic tape-controlled work finishing machine. 3,717,893, 2-27-73, Cl. 15-97.00r.
Carlson, Gerald J.; and Summerhayes, Harry R., to General Electric Company. Optical caliper and edge detector-follower for automatic gaging. 3,749,500, 7-31-73, Cl. 356-156.000.
Carlson, Harrison Cornforth; and Hess, Wayne Thomas, to Du Pont de Nemours, E. I., and Company. Process for recovering ammonia from a gaseous mixture containing $NH_3$ and HCN. 3,718,731, 2-27-73, Cl. 423-238.000.
Carlson, Heinz F. Wafer breaker. 3,743,148, 7-3-73, Cl. 225-2.000.
Carlson, Herbert L.: *See—*
Easoz, Robert D.; and Carlson, Herbert L., 3,771,447.
Carlson, James O.: *See—*
Birtchet, Ralph D.; and Carlson, James O., 3,712,189.
Carlson, Jerome A., to Bearings, Seals & Gears, Inc. Control valve. 3,747,640, 7-24-73, Cl. 137-625.210.
Carlson, Jerome Albert, to Bearings, Seals & Gears, Inc. Memory disc drive spindle. 3,759,592, 9-18-73, Cl. 308-187.000.
Carlson, John A.; Hoff, Dale R.; and Rooney, Clarence S., to Merck & Co., Inc. Antiparasitic composition containing nitroimidazole derivatives useful in the treatment of poultry diseases. 3,737,547, 6-5-73, Cl. 424-273.000.
Carlson, John A.; Kempke, William G.; Schweihs, Jess J.; Syverson, Marschelle M. G.; and Zolnosky, Larry D., to International Business Machines Corporation. Print hammer assembly. 3,749,008, 7-31-73, Cl. 101-93-c.
Carlson, John A.; Hoff, Dale R.; and Rooney, Clarence S., to Merck & Co., Inc. 1-Substituted-5-nitroimidazol-2-ylalkyl-(N -substituted) -carbamates. 3,761,491, 9-25-73, Cl. 260-309.000.
Carlson, John A.; Hoff, Dale R.; and Rooney, Clarence S., to Merck & Co., Inc. 1-Substituted-5-nitroimidazol-2-ylalkyl-(N-substituted)-carbamates. 3,773,781, 11-20-73, Cl. 260-309.000.
Carlson, John H., to USM Corporation. Sequential rotary and linear actuating mechanism. 3,751,995, 8-14-73, Cl. 74-20.000.
Carlson, John T. M.: *See—*
Lawson, Gerald P.; and Carlson, John T. M., 3,760,638.
Carlson, John T. M.; and Lawson, Gerald P., to Rosemount, Inc. Resistance wire temperature sensor and method of making same. 3,761,857, 9-25-73, Cl. 338-30.000.
Carlson, John T. Martin, 25% to Qualey, Terryl K. Particle size distribution analysis. 3,739,180, 6-12-73, Cl. 250-218.000.
Carlson, John W.; Esche, Morris; and Ferguson, Steven E., to General Motors Corporation. Engine starter. 3,772,921, 11-20-73, Cl. 74-7.00a.
Carlson, Lee Gerald; and Ronsen, Gustav A., to Babson Bros. Co. System for processing wastes. 3,773,659, 11-20-73, Cl. 210-7.000.
Carlson, Lewis R.; Hervig, Eugene E.; and Oehlers, Kenneth J. Digital computer incorporating base relative addressing of instructions. 3,731,283, 5-1-73, Cl. 340-172.500.
Carlson, Lloyd: *See—*
Schmitt, Robert A.; Betts, Gary W.; Johnson, Forrest H.; and Carlson, Lloyd, 3,719,288.
Carlson, Norman R.: *See—*
Matteson, Lucius G.; and Carlson, Norman R., 3,779,744.
Carlson, Norman R.; Putman, Richard E. J.; and Carleton, James T., to Westinghouse Electric Corporation. System for controlling carbon removal in a basic oxygen. 3,720,404, 3-13-73, Cl. 266-34.00r.
Carlson, Paul A.: *See—*
Atkins, Carl E.; and Carlson, Paul A., 3,723,967.

Carlson, Paul A., to Wagner Electric Corporation. Signal-sequence control circuit. 3,777,180, 12-4-73, Cl. 307-216.000.

Carlson, Reuben C., to Zenith Radio Corporation. Multi-band television tuner arrangement. 3,723,882, 3-27-73, Cl. 325-357.000.

Carlson, Reuben T.: *See—*
Mathers, Kenneth R.; and Carlson, Reuben T., 3,736,920.

Carlson, Richard D.; and Dever, James L., to Hooker Chemical Corporation. Production of halogenated halocyclopentadiene adducts of styrene. 3,711,563, 1-16-73, Cl. 260-649.00r.

Carlson, Richard K.: *See—*
Filipovich, Danny; Carlson, Richard K.; and Hadzimahalis, Theodore M., 3,744,884.

Carlson, Richard K.; and Koeber, Henry J., to Bell & Howell Company. Film footage indicator. 3,752,570, 8-14-73, Cl. 352-172.000.

Carlson, Richard S., to Diamond Shamrock Corporation. Reduction of electrolytic cell voltage by anode vibration. 3,767,542, 10-23-73, Cl. 204-98.000.

Carlson, Robert C., to Minnesota Mining and Manufacturing Company. Process for producing an impregnated waterlaid sheet and resultant product. 3,708,333, 1-2-73, Cl. 117-140.00a.

Carlson, Robert G.; and Steinhagen, Carl A., to General Electric Company. Method of forming a composite metallic preform tape. 3,719,538, 3-6-73, Cl. 156-179.000.

Carlson, Robert G.; Crawford, Joseph H.; Farmer, Edward R.; Murphy, Guy C.; and Salemme, Charles T., to General Electric Company. Foreign object damage protection for compressor blades and other structures and related methods. 3,762,835, 10-2-73, Cl. 416-24.000.

Carlson, Robert G., to North American Rockwell Corporation. Clamping arrangement for reducing the effects of noise in field effect transistor logic circuits. 3,774,053, 11-20-73, Cl. 307-237.000.

Carlson, Robert L., to Miner Enterprises, Inc. Cushioning assembly. 3,773,187, 11-20-73, Cl. 213-43.000.

Carlson, Ronald E.; and Hart, Milburn L. Pipe insulating method and apparatus. 3,709,751, 1-9-73, Cl. 156-78.000.

Carlson, Ronald H., to Hooker Chemical Corporation. Process for sequestering metal ions by use of an amino carboxylic phosphine. 3,717,701, 2-20-73, Cl. 423-272.000.

Carlson, Ronald H., to Hooker Chemical Corporation. Synergistic metal sequestrant. 3,734,861, 5-22-73, Cl. 252-180.000.

Carlson, Ronald H., to Hooker Chemical Corporation. Synergistic metal chelates. 3,748,114, 7-24-73, Cl. 71-1.000.

Carlson, Ronald H., to Hooker Chemical Corporation. Preparation of tetrakis(alphahydroxyorgano) phosphonium acid salts from elemental phosphorus. 3,755,457, 8-28-73, Cl. 260-606.50f.

Carlson, Ronald H., to Hooker Chemical Corporation. Preparation of phosphates. 3,764,656, 10-9-73, Cl. 423-311.000.

Carlson, Ronald H., to Hooker Chemical Corporation. Iron chelate compound of tris (hydroxymethyl) phosphine oxide and nitrilotriacetic acid or alkali metal salts. 3,780,079, 12-18-73, Cl. 260-439.00r.

Carlson, Ronald J.: *See—*
Hare, Alan W.; and Carlson, Ronald J., 3,765,119.

Carlson, Russell L., to Morgan Adhesives Company. Packaged adhesive laminate and method of making the same. 3,737,028, 6-5-73, Cl. 206-52.00r.

Carlson, Walter H.; and Ehrenreich, Leo C., to Carborundum Company, The. Process for producing reinforced carbon and graphite bodies. 3,772,115, 11-13-73, Cl. 156-148.000.

Carlson, Wilbur E. Retainer clip device. 3,719,970, 3-13-73, Cl. 24-73.0pb.

Carlson, William A.: *See—*
Smith, Sidney L.; and Carlson, William A., 3,775,164.

Carlsson, Carl Gosta, to AB Cernelle. Process of producing a composition for controlling the bacterial flora in the intestines of animals. 3,713,836, 1-30-73, Cl. 99-2.0vm.

Carlsson, Carl Ingvar, to Aktiebolaget Bofors. Device for the reciprocal securing of two elongated members telescopically arranged in relation to each other. 3,773,371, 11-20-73, Cl. 292-262.000.

Carlsson, Erik Herbert, to Aktiebolaget Overums Bruk. Cleat plate structures for caterpillar belts. 3,738,715, 6-12-73, Cl. 305-56.000.

Carlsson, Hans Thorsten Henrik, to Aktiebolaget Svenska Elektromagneter. Flywheel magneto ignition apparatus operating with capacitive ignition effect. 3,761,779, 9-25-73, Cl. 317-81.000.

Carlsson, Hilding Ake Gerry, to Aktiebolaget Bahco Ventilation. Automization burners. 3,759,657, 9-18-73, Cl. 431-170.000.

Carlsson, Lars Anders Fritz; Erik, Ake John; Sjoberg, Berndt Olof Harald; and Stjernstrom, Nils Erik. Lowering excessive serum lipid concentrations and preparations containing fluoro-pyridine derivatives. 3,737,542, 6-5-73, Cl. 424-263.000.

Carlsson, Lars Anders Fritz; Helgstrand, John Erik; Sjoberg, Berndt Olof Harald; and Stjernstrom, Nils Erik, to Aktiebolaget Astra. Fluoro-pyridine derivatives and therapeutically acceptable salts thereof. 3,781,280, 12-25-73, Cl. 260-240.00j.

Carlsson, Per Arvid Emil; Corrodi, Hans Rudolf; Florwall, Gosta Lennart; and Ross, Svante Bertil, to Aktiebolaget Astra. Method for inhibiting dopamine-β-hydroxylase using piperazine derivatives of dithiocarboxylates, and pharmaceutical preparations thereof. 3,740,430, 6-19-73, Cl. 424-250.000.

Carlsson, Per Arvid Emil; Corrodi, Hans Rudolf; Hallihagen, Sven Goran; and Junggren, Ulf Krister, to Aktiebolaget Hassle. Substituted hydroxyphenyl-alkylamines in the treatment of mental illness. 3,758,691, 9-11-73, Cl. 424-330.000.

Carlsson, Sixten Einar; Myhr, Lars Halvar; and Svensson, Lars-Ake Erling, to Borgs Fabriks AB. Energy absorber and method of operating same. 3,709,335, 1-9-73, Cl. 188-296.000.

Carlstedt, Paul A.: *See—*
Erickson, Arlen J.; and Carlstedt, Paul A., 3,776,546.

Carlstein, Joseph, to Vernitron Corporation. Telemetering system for displaying analog and digital data. 3,723,986, 3-27-73, Cl. 340-177.00r.

Carlsten, Ronald W.; and Nissen, Donald A., to United States of America, Atomic Energy Commission. Thermal battery. 3,719,527, 3-6-73, Cl. 136-85.00t.

Carlstrom, Lawrence A.; and Padgett, George L., to General Electric Company. Predeformed rabbit joint. 3,713,676, 1-30-73, Cl. 287-53.00r.

Carlstrom, Ruben. Electric heating source for seats and mattresses and methods of application of the same. 3,721,799, 3-20-73, Cl. 219-212.000.

Carlstrom, Thomas L.; and Leavitt, Jack P., to American Manufacturing Company, Inc. Wrapping apparatus for bag packs. 3,763,629, 10-9-73, Cl. 53-379.000.

Carlton, Alvar G.: *See—*
Pardoe, Carroll T.; Carlton, Alvar G.; and Appel, Robert L., 3,781,818.

Carlton Company: *See—*
Potter, Harold F., 3,748,425.

Carlton, Fred W.; and Carlton, Jesse W. Log-cutting apparatus. 3,718,060, 2-27-73, Cl. 83-84.000.

Carlton, Jesse W.: *See—*
Carlton, Fred W.; and Carlton, Jesse W., 3,718,060.

Carlton, Louis A.: *See—*
Thompson, Gene D.; and Carlton, Louis A., 3,750,766.

Carlton Machine Tool Company, The: *See—*
Lehmkuhl, Robert A., 3,723,016.

Carlton, William K.: *See—*
Hulse, Lauren L.; Carlton, William K.; and Tanck, Elinor J., 3,753,909.

Carlund, Rolf L., to AB Bygg-Och Transportekonomi (BT). Lift trucks. 3,726,427, 4-10-73, Cl. 214-701.00p.

Carlyle, Bert Edward; Rawlings, Robert Louis; and Volk, Karl Erich, to Burroughs Corporation. Dynamic debug aid for computer data communication networks. 3,778,767, 12-11-73, Cl. 340-146.10r.

Carmack, Philip W.; and Sweigart, David J., to United States of America, Army. Off-axis alignment device. 3,726,600, 4-10-73, Cl. 356-253.000.

Carman, Alexander J., to Stevens, J. P., & Co., Inc. Apparatus for feeding filling threads to a warp knitting machine. 3,771,330, 11-13-73, Cl. 66-84.00a.

Carman, Kenneth K., to Koppers Company, Inc. Gear type coupling. 3,775,997, 12-4-73, Cl. 64-9.000.

Carman, Richard Jan, to Cameron Iron Works, Inc., mesne. Acoustic control transmitter. 3,723,956, 3-27-73, Cl. 340-5.00r.

Carman, Richard Jan; and Benson, Paul R., to Cameron Iron Works, Inc. Pressure control apparatus. 3,726,307, 4-10-73, Cl. 137-487.500.

Carman, Richard Jan, to Cameron Iron Works, Inc. Acoustic control system having alternate enabling and control signal. 3,737,857, 6-5-73, Cl. 340-148.00r.

Carman, Richard Jan, to Cameron Iron Works, Inc., mesne. Plural tone acoustic control receiver. 3,745,530, 7-10-73, Cl. 340-171.00a.

Carman, Robert L., Jr.; Steinmetz, Lloyd L.; and Johnson, Bertram C., Jr., to United States of America, Atomic Energy Commission. Q-switched-mode-locked laser oscillator. 3,757,249, 9-4-73, Cl. 331-94.500.

Carman, Robert R.: *See—*
Rottmayer, Earl; Carman, Robert R.; and Gibson, James O., 3,713,959.

Carmel, Edwin L.; and Schirmer, Olaf W., to Pullman Incorporated. Trailer landing gear arrangement. 3,776,569, 12-4-73, Cl. 280-106.00t.

Carmen, Forghieri: *See—*
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Carmet Company: *See—*
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Schnellman, Oscar; and Stier, Henry Willy, 3,715,841.
Schnellman, Oscar; and Stier, Henry Willy, 3,754,357.

Carmichael, Charles J.; and Franklin, Albert G. Water disposal caisson and method of using same. 3,756,409, 9-4-73, Cl. 210-104.000.

Carmichael, Charles J.; and Franklin, Albert G. Method for separating oil from a mixture of oil and waste water from an offshore rig. 3,781,201, 12-25-73, Cl. 210-27.000.

Carmichael, Donald C.; and Chambers, Douglas L., to Battelle Memorial Institute. Coating apparatus. 3,756,193, 9-4-73, Cl. 118-49.100.





Carmichael, Keith Stewart: *See—*
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Carmichael, Keith Stewart; and Lester, Joseph Thomas, Jr., to Du Pont de Nemours, E. I., and Company. Noneverting bottom for thermoplastic bottles. 3,722,726, 3-27-73, Cl. 215-1.00c.

Carmichael, Keith Stewart, to Du Pont de Nemours, E. I., and Company. Noneverting bottom for thermoplastic bottles. 3,727,783, 4-17-73, Cl. 215-1.00c.

Carmichael, Lee T.: *See—*
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Carmichael, Paul D.: *See—*
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Pogonowski, Ivo C.; Carmichael, Paul D.; and Bodor, Edward E., 3,748,863.
Pogonowski, Ivo C.; and Carmichael, Paul D., 3,779,019.

Carmichael, Thomas F.; Maier, Richard J.; and Kirkpatrick, William J., to Syncro Corporation. Lighting circuit system. 3,751,710, 8-7-73, Cl. 315-79.000.

Carmien, Joseph Allen, to Nupla Corporation. Adapter for fiberglass tool handles and other fiberglass connections. 3,753,602, 8-21-73, Cl. 306-33.000.

Carminati, Julien. Nut running machines. 3,731,362, 5-8-73, Cl. 29-200.00p.

Carmon, Rodrigo: *See—*
Martinez, Cristobal; Fernandez, Miguel; and Carmon, Rodrigo, 3,732,235.

Carn, Patrick. Appliance for the transport and launching in particular for boats and other applications. 3,754,772, 8-28-73, Cl. 280-47.0bb.

Carn, Patrick. Device for transporting loads on uneven or shifting ground, and also for launching small boats. 3,771,809, 11-13-73, Cl. 280-47.13b.

Carnahan, Edward L. Carving and engraving machine. 3,742,816, 7-3-73, Cl. 90-13.100.

Carnahan, George E. Fish cleaning device. 3,715,229, 2-6-73, Cl. 17-66.000.

Carnahan, Robert D.; and Youtsey, Karl J., to Universal Oil Products Company. Method and means of catalytically converting fluids. 3,754,870, 8-28-73, Cl. 23-288.00f.

Carnahan, Robert D.; Youtsey, Karl J.; and Spielberg, David H., to Universal Oil Products Company. Control for an engine system. 3,768,259, 10-30-73, Cl. 60-276.000.

Carnahan, William M. Card holder for meter readers. 3,724,744, 4-3-73, Cl. 231-2.00e.

Carnall, Edward, Jr.: *See—*
Pearlman, Donald; Carnall, Edward, Jr.; and Martin, Thomas W., 3,773,909.

Carnanhan, Robert D.; and Youtsey, Karl J., to Universal Oil Products Company. Coupling arrangement for providing uniform velocity distribution for gas flow between pipes of different diameter. 3,780,772, 12-25-73, Cl. 138-37.000.

Carnation Company: *See—*
Melnychyn, Paul; and Stapley, Ronald B., 3,764,711.

Carnaud, J. J., & Forges de Basse-Indre, S.A.: *See—*
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Carnavos, Theodore C.; Hubble, William S.; and Woods, Kenneth K., to General Electric Company. Combined moisture separator and reheater. 3,712,272, 1-23-73, Cl. 122-483.000.

Carnel, Alain, to Compteurs Schlumberger. Input connections for differential amplifiers. 3,778,619, 12-11-73, Cl. 250-225.000.

Carner, John W.; and Anderson, Frank B., to Anderson, Frank B., mesne. Building construction. 3,714,304, 1-30-73, Cl. 264-94.000.

Carner, Walter J., to Institute of Gas Technology. Engine control apparatus. 3,757,755, 9-11-73, Cl. 123-148.00e.

Carnes, James D., to Halliburton Company. Internally catalyzed well consolidation. 3,759,327, 9-18-73, Cl. 166-295.000.

Carnes, James D.; Young, Bill M.; and Totty, Kenneth D., to Halliburton Company. Method of controlling loose sands and the like. 3,776,311, 12-4-73, Cl. 166-295.000.

Carnes, Joseph J.; Green, James H.; and Heller, John H., to New England Institute, Inc., The. Process for increasing sedimentation rate of heterogeneous colloidal suspension systems. 3,715,305, 2-6-73, Cl. 210-19.000.

Carnes, Lyle L., to Tenneco Inc. Lift seam retaining means. 3,740,020, 6-19-73, Cl. 254-134.000.

Carnes, Robert A., to Motorola, Inc. Power semiconductor device mountable on either its top or bottom surface. 3,745,422, 7-10-73, Cl. 317-234.00r.

Carnevale, Umberto A., to All American Industries, Inc. Energy absorber for aircraft arresting device. 3,737,123, 6-5-73, Cl. 244-110.00a.

Carney, Charles R., to Carney, Charles R., mesne. Trim tabs for boats. 3,769,927, 11-6-73, Cl. 114-66.50p.

Carney, Charles R., mesne: *See—*
Carney, Charles R., 3,769,927.

Carney, Durland B., to Zeltex, Inc. Electronic package and method of construction. 3,737,729, 6-5-73, Cl. 317-101.0dh.

Carney, Henry B., to Associated Packaging Inc. Shock absorbing paperboard package. 3,741,380, 6-26-73, Cl. 206-45.140.

Carney, John L., Jr.; and Duggi, Richard H., to ACF Industries, Incorporated. Hopper outlet structure for pneumatic unloading. 3,778,114, 12-11-73, Cl. 302-52.000.

Carney, Murray C., to Sangamo Electric Company. Multiple day recording chart pack. 3,781,906, 12-25-73, Cl. 346-137.000.

Carney, Richard William James; and DeStevens, George, to Ciba-Geigy Corporation. Tertiary aminoacids. 3,766,260, 10-16-73, Cl. 260-518.00r.

Carney, Richard William James; and De Stevens, George, to Ciba-Geigy Corporation. Tertiary aminoacids in anti-inflammatory compositions. 3,767,805, 10-23-73, Cl. 424-274.000.

Carney, William M. Water ski stowing device. 3,776,437, 12-4-73, Cl. 224-42.45r.

Carney, William V., to Porta Systems Corporation. Switching apparatus. 3,723,679, 3-27-73, Cl. 200-50.00b.

Carnier, Jacques, to Institut Francais du Petrole des Carburants et Lubrifiants. Positive clutch and brake with limit switch. 3,744,603, 7-10-73, Cl. 192-16.000.

Carnot, John J.; Tingquist, Stanley Carroll; Robb, Ronald Robert; and Feagin, Roy Chester, to Howmet Corporation. Refractory support for shell molds. 3,729,050, 4-24-73, Cl. 164-361.000.

Caro, Inc.: *See—*
Study, Jon A., 3,779,164.

Carol, John A., Jr., to General Motors Corporation. Fuel level sensor for a rotating fuel tank. 3,774,449, 11-27-73, Cl. 73-313.000.

Caroleo, Steven J., to Emerson Electric Co. Methods of installing an elongated, flexible, electric heater into a material storage tank, and heater construction for the same. 3,745,640, 7-17-73, Cl. 29-433.000.

Caroli, Alberto; and Giuffrida, Giovanni. Disc-like platelet fabric. 3,746,602, 7-17-73, Cl. 161-37.000.

Caroli, Italo, to DBM Industries Limited. Stick injector with paper feed. 3,741,698, 6-26-73, Cl. 425-125.000.

Caroli, Italo, to DBM Industries Limited. Stick injector with vacuum pickup. 3,744,948, 7-10-73, Cl. 425-125.000.

Carolina Enterprises, Inc.: *See—*
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Carolina Medical Electronics, Inc.: *See—*
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Carolina Narrow Fabric Company: *See—*
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Carolina Steel and Wire Corporation: *See—*
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Rauscher, David Albert; and Alexander, Robert Warren, 3,754,845.

Caron, Claude; and Hurtado, Jean, to Soletanche Societe Anonyme. Method of earth wall construction using cementitious betonitic mud. 3,759,044, 9-18-73, Cl. 61-35.000.

Caron Compactor Co.: *See—*
Caron, Fred Joseph; Caron, James Oliver; and Gray, George Carrol, 3,718,170.
Caron, Fred Joseph; Caron, James Oliver; and Gray, George Carrol, 3,724,342.

Caron, Fred Joseph; Caron, James Oliver; and Gray, George Carrol, to Caron Compactor Co. Axle cushioning assembly for wheels on construction equipment. 3,718,170, 2-27-73, Cl. 152-49.000.

Caron, Fred Joseph; Caron, James Oliver; and Gray, George Carrol, to Caron Compactor Co. Compaction wheels for earth tampers. 3,724,342, 4-3-73, Cl. 94-50.0pr.

Caron, James Oliver: *See—*
Caron, Fred Joseph; Caron, James Oliver; and Gray, George Carrol, 3,718,170.
Caron, Fred Joseph; Caron, James Oliver; and Gray, George Carrol, 3,724,342.

Caron, Lionel, to Bell Telephone Laboratories, Incorporated. Variable function magnetic domain arrangement. 3,750,106, 7-31-73, Cl. 340-172.500.

Caron, Lionel, to Bell Telephone Laboratories, Incorporated. Magnetic domain logic control arrangement. 3,763,477, 10-2-73, Cl. 340-174.0tf.

Caron, Lionel, to Bell Telephone Laboratories, Incorporated. Magnetic domain serial-to-parallel arrangement. 3,765,004, 10-9-73, Cl. 340-174.0tf.

Caron, Marcel: *See—*
Benner, Jean-Rene; Dop, Pierre; and Caron, Marcel, 3,735,300.

Caron, Michel; Coquet, Claude; Coste, Philippe; and Rey, Marcel, to Societe des Usines Chimiques de Pierrelatte. Process for the production of fluorine. 3,729,395, 4-24-73, Cl. 204-59.00r.

Caron, Paul R.: *See—*
Mailloux, Robert J.; and Caron, Paul R., 3,710,329.

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Caroon, Robert L.: *See—*
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Caroselli, Remus F.; Dillon, James J.; and Leary, David E., to Owens-Corning Fiberglas Corporation. Fabric effect for fibrous glass fabrics. 3,720,571, 3-13-73, Cl. 161-73.000.

Caroselli, Remus F.; Rammel, Gerald E.; and Rooney, Michael J., to Owens-Corning Fiberglas Corporation. Composite linear material

and process of making such material. 3,761,346, 9-25-73, Cl. 161-93.000.
Carothers, Charles H. Method and apparatus for ecological recycling of waste products to produce fertilizer and garden plant nutrients. 3,728,254, 4-17-73, Cl. 210-7.000.
Carothers, David B.; Rearick, Edward W.; and McBride, Lemuel R., to Billco Manufacturing Inc. Apparatus for automatically breaking out a scored glass bracket. 3,770,173, 11-6-73, Cl. 225-2.000.
Carothers, Frank S., Jr., to General Motors Corporation. Fuel control valve. 3,732,039, 5-8-73, Cl. 417-300.000.
Carothers, John W., to Westinghouse Electric Corporation. Latch and guide assembly for a dropout electrical fuse. 3,774,137, 11-20-73, Cl. 337-174.000.
Carow, Donald W. Rotating electrical machine. 3,766,456, 10-16-73, Cl. 318-138.000.
Carp, Alan E.; and Mohar, Douglas D., to General Mills, Inc. Method of making a simulated meat product. 3,772,035, 11-13-73, Cl. 426-274.000.
Carp, Ralph W.: *See—*
Slavin, Michael; and Carp, Ralph W., 3,754,796.
Carp, Ralph Wolf: *See—*
Slavin, Michael; Emery, Raymen Forrest; Carp, Ralph Wolf; and Ang, Leoncio Tan, 3,727,517.
Carpano & Pons: *See—*
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Carpenter, Charles W., to Hercules Incorporated. Pile fabric. 3,708,384, 1-2-73, Cl. 161-65.000.
Carpenter, Charles W., to Hercules Incorporated. Apparatus for making pile fabric. 3,736,209, 5-29-73, Cl. 156-435.000.
Carpenter, Daniel D.; Develet, Jean A., Jr.; and Huang, Robert Y., to TRW Inc. Signal sorting system. 3,753,123, 8-14-73, Cl. 325-476.000.
Carpenter, David W.: *See—*
Meraz, Daniel, Jr.; Simshauser, Anthony J.; Yeakey, Jack A.; and Carpenter, David W., 3,707,916.
Carpenter, David W.; and Yeakey, Jack A., to United States of America, Navy. Solid propellant. 3,713,395, 1-30-73, Cl. 102-103.000.
Carpenter, Eugene C., to Outboard Marine Corporation. Hydraulic power trim and power tilt system for a marine propulsion device. 3,722,455, 3-27-73, Cl. 115-41.0ht.
Carpenter, George J., to American Optical Corporation. Method of making cemented fiber optical devices. 3,729,356, 4-24-73, Cl. 156-296.000.
Carpenter, Henry G.: *See—*
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Carpenter, James F.; McCrary, Leon E.; Steube, Kenneth E.; Klein, Albert A., Jr.; and Kesler, George H., to McDonnell Douglas Corporation. Glow discharge coating apparatus. 3,750,623, 8-7-73, Cl. 118-49.500.
Carpenter, James H.; and Bowling, Joseph E., Jr., to Carborundum Company, The. Abrasive blast cleaning system. 3,716,947, 2-20-73, Cl. 51-9.000.
Carpenter, James H.; and Good, Harper Willard, to Carborundum Company, The. Abrasive blasting unit. 3,747,277, 7-24-73, Cl. 51-9.000.
Carpenter, James H., to Carborundum Company, The. Reclamation of molded sand. 3,768,740, 10-30-73, Cl. 241-68.000.
Carpenter, James H., to Carborundum Company, The. Apparatus for granulating molded sand. 3,770,218, 11-6-73, Cl. 241-301.000.
Carpenter, James H., Jr.; and Nalley, Don B., to Carborundum Company, The. Centrifugal blasting apparatus for removing Wustite scale. 3,731,432, 5-8-73, Cl. 51-9.000.
Carpenter, James Hugh; and Good, Harper Willard, to Carborundum Company, The. Workpiece treating apparatus. 3,748,787, 7-31-73, Cl. 51-15.000.
Carpenter, John J.; and Spreckels, Charles C., to Bulova Watch Company, Inc. Crystal mounting assembly. 3,754,153, 8-21-73, Cl. 310-9.100.
Carpenter, John L., to Container Corporation of America. Cushioned shipping folder. 3,722,668, 3-27-73, Cl. 206-46.0fr.
Carpenter, John L.; and Ostler, Charles R., to Container Corporation of America. Cushioned shipping folder. 3,768,721, 10-30-73, Cl. 229-40.000.
Carpenter, John M., to United States of America, Atomic Energy Commission. High intensity, pulsed thermal neutron source. 3,778,627, 12-11-73, Cl. 250-499.000.
Carpenter, Keith H., to General Motors Corporation. Depressed park wiper mechanism. 3,717,048, 2-20-73, Cl. 74-600.000.
Carpenter, L. E., & Company: *See—*
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Carpenter, Louis M.; and Dunn, Kenneth L., to Carpenter Manufacturing Co., Inc. Electrical insulation cutter and stripper. 3,774,478, 11-27-73, Cl. 81-9.510.
Carpenter, Lynn A., to Corning Glass Works. Glass forming apparatus. 3,775,082, 11-27-73, Cl. 65-162.000.
Carpenter Manufacturing Co., Inc.: *See—*
Carpenter, Louis M.; and Dunn, Kenneth L., 3,774,478.
Carpenter, Orval R. Skid wheel tractor utility boom. 3,753,508, 8-21-73, Cl. 214-130.00r.
Carpenter, Ralph A., to United States of America, Navy. Compressive scanning receiver. 3,743,942, 7-3-73, Cl. 325-337.000.
Carpenter, Richard L.: *See—*
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Carpenter, Robert D.; and Roman, Ronald J., to Union Carbide Corporation. Cyclone particle separator. 3,735,869, 5-29-73, Cl. 209-211.000.
Carpenter, Robert E.; and Peterson, Curtis R., to Ashland Oil, Inc. High pressure continuous process for polyesters from dicarboxylic acid anhydrides and monoepoxides. 3,723,390, 3-27-73, Cl. 260-75.00m.
Carpenter, Robert Gordon; Lindbloom, Eric; and McMahon, Maurice Thomas, Jr., to International Business Machines Corporation. Statistical logic test system having a weighted random test pattern generator. 3,719,885, 3-6-73, Cl. 324-73.00r.
Carpenter Technology Corporation: *See—*
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Carpenter, Wayne R.; and Bens, Everett M., to United States of America, Navy. Chemiluminescent formulation of increased light output. 3,769,227, 10-30-73, Cl. 252-188.300.
Carpenter, William T., to Synalloy Corporation. Pressure fluid control arrangement and method. 3,744,376, 7-10-73, Cl. 91-414.000.
Carpentier, Anthony L.; and Rodriguez, Juan A., to Storage Technology Corporation. Detection and correction of phase encoded data. 3,744,023, 7-3-73, Cl. 340-146.10f.
Carpentier, Jan Albert: *See—*
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Carpetech Corporation: *See—*
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Carpigiani, Poerio. Soft ice product machine with heating and cooling. 3,724,235, 4-3-73, Cl. 165-61.000.
Carpigiani, Poerio, to APAW S.A. Ice cream machine. 3,742,724, 7-3-73, Cl. 62-331.000.
Carpigiani, Poerio. Float valve for dry washing machines. 3,757,542, 9-11-73, Cl. 68-12.00r.
Carpigiani, Poerio C. Automatic ice-cream machine. 3,764,117, 10-9-73, Cl. 259-107.000.
Carpigiani, Poerio C. Liquid and air mixing gear pump. 3,764,238. 10-9-73, Cl. 418-15.000.
Carpigiani, Poerio C. Automatic ice-cream machine. 3,767,169, 10-23-73, Cl. 259-85.000.
Carr, David William Bentley, to Spanset Inter AG. Slings. 3,778,095, 12-11-73, Cl. 294-74.000.
Carr, Douglas Wesley: *See—*
Pass, Peter John; Carr, Douglas Wesley; Knight, Rogers Evert; Gelder, Ronald; Morrell, Morcton; Smith, Leslie William; Harris, Leonard Frederick; and Van Bastelaere, Karel Leon August, 3,741,236.
Carr, Earl L.; and Foster, James E., to United States Steel Corporation. Apparatus for sorting by length up-set headed pieces such as nails and the like. 3,729,095, 4-24-73, Cl. 209-90.000.
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Carr, George W., to Pullman Incorporated. Container hold-down locking means. 3,717,372, 2-20-73, Cl. 296-35.00a.
Carr, George W., to Pullman Incorporated. Variance compensator for chassis-to-container locking mechanism. 3,717,373, 2-20-73, Cl. 296-35.00a.
Carr, George W., to Pullman Incorporated. Chassis-to-container locking means. 3,719,385, 3-6-73, Cl. 296-35.00a.
Carr, Harry A. Keeper accessory for various types of conventional tools. 3,731,722, 5-8-73, Cl. 145-50.0da.
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Carr, James P., to FMC Corporation. Crop harvester. 3,736,738, 6-5-73, Cl. 56-330.000.
Carr, Kelly B., to Carr Engineering Corporation. Chipless round hole cutter. 3,761,192, 9-25-73, Cl. 408-22.000.
Carr, Larry R.; and Topol, George J., to Keene Corporation. Suspended solids analyzer. 3,714,444, 1-30-73, Cl. 250-218.000.
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Carr, Norman L.; Kramer, Sheldon J.; and Stahlfeld, Donald L., to Gulf Research & Development Company. Apparatus for controlling chemical processes. 3,725,653, 4-3-73, Cl. 235-151.120.
Carr, Norman L.; Roe, Warren A., Jr.; and Stauffer, Harry C., to Gulf Research & Development Company. Thermally efficient nonpolluting system for production of substitute natural gas. 3,732,085, 5-8-73, Cl. 48-214.000.



Carr, Norman L.; and Ko, Daniel Y. C., to Gulf Research & Development Company. Process for preparing a monoalkyl aromatic. 3,772,398, 11-13-73, Cl. 260-671.00p.
Carr, Norman L., to Gulf Research & Development Company. Reactivity control in petrochemical and refinery processes. 3,775,494, 11-27-73, Cl. 260-667.000.
Carr, Norman L.; and Ko, Daniel Y. C., to Gulf Research & Development Company. Process for preparing a monoalkyl aromatic. 3,776,971, 12-4-73, Cl. 260-671.00p.
Carr, Robert D.; Collier, Harry T.; and Jones, Clarence E., to Allied Chemical Corporation. Apparatus for treating textile material. 3,707,859, 1-2-73, Cl. 68-202.000.
Carr, Robert L., to Goodrich, B. F., Company, The. Belted pneumatic tire. 3,757,843, 9-11-73, Cl. 152-301.0dm.
Carr, Russell L. K.: *See—*
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Carr, Theodore G.; Richmond, Jon C.; Dueker, James E.; and Wagner, Robert G., to McDonnell Douglas Corporation. Wide angle lateral photo-detector means. 3,742,223, 6-26-73, Cl. 250-211.00j.
Carr-Brion, Kenneth Garfield; and Bramwell, Susan Elizabeth, to National Research Development Corporation. Determination of the mean size of solid particles contained in a fluid by scattering of X-radiation. 3,749,910, 7-31-73, Cl. 250-273.000.
Carrana, Lois. Movie viewer. 3,773,410, 11-20-73, Cl. 352-129.000.
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Carrasse, Jean, to Societe Generale de Constructions Electriques et Mecaniques (Alsthom). Vehicle propulsion system. 3,749,026, 7-31-73, Cl. 104-156.000.
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Carre, Jean-Claude: *See—*
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Pruvot, Francois C.; and Carre, Jean-Claude, 3,724,618.
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Carrell, Terry E., to United States of America, Air Force. Ultra hard communications antenna. 3,775,772, 11-27-73, Cl. 343-719.000.
Carreras, Luis Enrique, to Bendix Corporation, The. Gear and capstan guard for flight control servo. 3,715,103, 2-6-73, Cl. 254-150.00r.
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Carrick, Robert B.; Dormer, Harold K.; and Hudd, Bruce M., to Abitibi Paper Company, Ltd. Wall siding fasteners. 3,754,365, 8-28-73, Cl. 52-471.000.
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Campbell, John M., 3,776,027.
Cann, Peter L., 3,743,439.
Carroll, Alexander A., 3,744,930.
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Carrillo, Nelson P.; Snyder, David; and Husko, John P. Swimming pool alarm system. 3,732,556, 5-8-73, Cl. 340-261.000.
Carrington, Donald L. Demand limit control system. 3,769,520, 10-30-73, Cl. 307-41.000.
Carrle, Charles O.; Wensell, Edward W.; and Majusick, Thaddeus W., to Brooks, Bobbie, Incorporated. Sewing method. 3,750,604, 8-7-73, Cl. 112-265.000.
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Carroll, Felix P.; and Green, Harold A., to Air Products and Chemicals, Inc. Catalyst composition for polyurethane foam. 3,728,291, 4-17-73, Cl. 260-2.5ac.
Carroll, Felix P.; and Panchak, John R., to Air Products and Chemicals, Inc. Shelf-stable polyurethane catalyst mixture and method of preparing cellular polyurethanes using said mixture. 3,767,602, 10-23-73, Cl. 260-2.5ac.
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Carroll, George. Pneumatic device for moving articles. 3,779,401, 12-18e73, Cl. 214-1.0bb.

Carroll, Harlan R., to Fiber Industries, Inc. Textile noise reduction device. 3,713,509, 1-30-73, Cl. 181-33.00k.

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Carroll, John J.; Hughey, Calvin A.; and May, Charles W., to United States of America, Navy. Circuitry for remotely displaying radar imagery using a single data channel. 3,713,146, 1-23-73, Cl. 343-6.00a.

Carroll, John J., to United States of America, Navy. Voltage controlled up-down clock rate generator. 3,743,951, 7-3-73, Cl. 328-181.000.

Carroll, John T., to Allis-Chalmers Corporation. Control center with expandable frame cabinet. 3,725,746, 4-3-73, Cl. 317-120.000.

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Carroll, Lee, to Smith, W. C., & Sons, Inc. Apparatus for tempering chocolate. 3,777,807, 12-11-73, Cl. 165-26.000.

Carroll, Paul E., to Texas Instruments, Incorporated. Static filter for long line data systems. 3,778,759, 12-11-73, Cl. 340-15.50f.

Carroll, Richard W., to U.S. Industries, Inc. Interlocking magazine structure. 3,737,031, 6-5-73, Cl. 206-65.00f.

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Carrow, Guy F., to Phillips Petroleum Company. Apparatus for adjusting the flow of material through an extruder. 3,761,061, 9-25-73, Cl. 259-185.000.

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Carruthers, Eben H. Position plotting apparatus. 3,778,832, 12-11-73, Cl. 343-112.0pt.

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Carson, David L., to United States of America, Navy. Transducer. 3,778,758, 12-11-73, Cl. 340-10.000.

Carson, Don B.; and Hennemuth, William R., to Universal Oil Products Company. Fluid contacting apparatus. 3,723,072, 3-27-73, Cl. 23-288.00r.

Carson, Don B.; and Hennemuth, William R., to Universal Oil Products Company. Fluid contacting method for fluid-solid contacting. 3,723,300, 3-27-73, Cl. 208-146.000.

Carson, Don B., to Universal Oil Products Company. Apparatus for fluid-solid contacting operations. 3,732,081, 5-8-73, Cl. 23-288.00s.

Carson, John Robert, to McNeil Laboratories, Inc. 5-Aroyl-2-(β-hydroxyethyl)-1-loweralkyl-pyrroles. 3,721,680, 3-20-73, Cl. 260-326.50j.

Carson, John Robert, to McNeil Laboratories, Inc. Aroyl-substituted pyrroles. 3,752,826, 8-14-73, Cl. 260-326.300.

Carson, John Robert, to McNeil Laboratories, Inc. 5-Cinnamoyl-pyrrole-2-acetic acids and esters. 3,755,307, 8-28-73, Cl. 260-240.00j.

Carson, Kenneth G., to Honeywell Inc. Atmospheric condition responsive switch and housing. 3,712,967, 1-23-73, Cl. 200-61.060.

Carson, Kenneth G., to Honeywell Inc. Thermoferrite switch with pic resistor temperature compensation. 3,760,310, 9-18-73, Cl. 335-146.000.

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Carson, Walter C., to Martin Stamping & Stove Company. Counterflow fireplace. 3,724,443, 4-3-73, Cl. 126-121.000.

Carson, William S. Shower head. 3,713,587, 1-30-73, Cl. 239-383.000.

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Carstens, Heinz Peter. Photographic processor. 3,739,706, 6-19-73, Cl. 95-89.00d.

Carstens, Marion R.; and Bates, Homer J., to Georgia Tech Research Institute. Device to stop and to change direction of vehicles in a capsule-transport pipeline. 3,724,691, 4-3-73, Cl. 214-52.00c.

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Carstensen, Michael N. Multiple use body support. 3,733,104, 5-15-73, Cl. 297-377.000.

Carstenson, Lauren M. Underground water discharging and sprinkling device. 3,733,030, 5-15-73, Cl. 239-205.000.

Carswell, Donald R., to Kraftco Corporation. Manufacture of ricotta cheese. 3,780,199, 12-18-73, Cl. 99-116.000.

Carswell, Firman L., Manufacturing Company, The: *See—*
Schmidt, Otto W.; and Schmidt, Richard O., 3,734,046.

Carswell, John D., Jr.; and Gorman, George W., said Carswell assor. to Gow-Mac Instrument Company and said Gorman assor. to United States of America, Health, Education and Welfare. Gas analyzer apparatus. 3,756,069, 9-4-73, Cl. 73-27.00r.

Carswell, Robert: *See—*
Nankee, Robert J.; and Carswell, Robert, 3,753,912.

Carta, Guy R., to Research Corporation. Production of single cell protein material. 3,778,349, 12-11-73, Cl. 195-33.000.

Cartee, Thomas E.: *See—*
Smith, Jag G., Jr.; Michal, David H.; Cartee, Thomas E.; and Rothrock, Burton J., 3,775,810.

Carteels, Florent: *See—*
Habraken, Louis; Leroy, Vincent; Meulemans, Marcel; and Carteels, Florent, 3,719,475.

Carter, Andrew G., to Carter Engineering Company. Dual actuation safety belt buckle mechanism. 3,728,764, 4-24-73, Cl. 24-230.0ap.

Carter, Andrew G.; and Morgan, Charles L. Shadow-line device with a structurally independent guideway. 3,729,265, 4-24-73, Cl. 356-256.000.

Carter, Andrew G.; and Morgan, Charles L., to Carter Products Company, Inc. Shadow-line projector for assembly reference. 3,749,485, 7-31-73, Cl. 353-62.000.

Carter, Arthur D., Sr. Adjustable saw guide. 3,738,211, 6-12-73, Cl. 83-522.000.

Carter, Carl W.; and Johnson, Lloyd E., to Caterpillar Tractor Company. Gear train for gas turbine engines. 3,722,213, 3-27-73, Cl. 60-39.16r.

Carter, Cecil O.: *See—*
Hutson, Thomas, Jr.; and Carter, Cecil O., 3,751,517.
Hutson, Thomas, Jr.; and Carter, Cecil O., 3,761,540.
Hutson, Thomas, Jr.; and Carter, Cecil O., 3,763,265.
Hutson, Thomas, Jr.; and Carter, Cecil O., 3,767,726.
Hutson, Thomas, Jr.; and Carter, Cecil O., 3,771,966.
Hutson, Tom, Jr.; and Carter, Cecil O., 3,716,593.
Hutson, Tom, Jr.; and Carter, Cecil O., 3,775,510.

Carter, Clyde Thomas: *See—*
Henschen, Homer Ernst; and Carter, Clyde Thomas, 3,732,525.

Carter, Clyde Thomas; and Henschen, Homer Ernst, to AMP Incorporated. Electrical junction system. 3,711,817, 1-16-73, Cl. 339-121.000.

Carter, Crawford F.; and Dreher, John L., to Chevron Research Company. Complex aluminum greases having relatively constant consistency at elevated temperatures. 3,725,275, 4-3-73, Cl. 252-21.000.

Carter, David L.: *See—*
Collins, Dean R.; and Carter, David L., 3,771,149.

Carter, David P.; and Peterson, Terry J., to Hughes Aircraft Company. Latchable integrally molded electrical connector. 3,747,047, 7-17-73, Cl. 339-42.000.

Carter, Donald, to Lever Brothers Company. Folding apparatus. 3,772,969, 11-20-73, Cl. 93-84.00r.

Carter, Donald L.: *See—*
Brown, Eugene C.; and Carter, Donald L., 3,775,648.

Carter, Earl J.: *See—*
Zeski, Stephen J.; and Carter, Earl J., 3,758,915.

Carter, Efton T.: *See—*
Edmonston, William H.; and Carter, Efton T., 3,709,469.





Carter, Efton T. Semiflexible fluid-tight tube coupling. 3,727,955, 4-17-73, Cl. 285-223.000.

Carter, Elbert P.; Johnson, Donald R.; McErlane, James E.; Nadeau, Richard G.; and Nieuweboer, Gerrit, to Du Pont de Nemours, E. I., and Company. Automatic clinical analyzer. 3,770,382, 11-6-73, Cl. 23-253.00r.

Carter, Elga M.: *See—*
Carter, James D.; and Carter, Elga M., 3,756,792.

Carter Engineering Company: *See—*
Carter, Andrew G., 3,728,764.

Carter, Forrest L. High resolution, high etendue, retarding-potential electron concentrator. 3,731,096, 5-1-73, Cl. 250-49.5ae.

Carter, Forrest L. X-ray target changer using a translating anode. 3,737,698, 6-5-73, Cl. 313-60.000.

Carter, Harry R., to Poloron Products, Inc. Spring mounting for snowmobile bogie wheels. 3,717,211, 2-20-73, Cl. 180-5.00r.

Carter, Harry R. Automatic vehicle driver aid system. 3,775,743, 11-27-73, Cl. 340-32.000.

Carter, Herbert A.: *See—*
Alley, Bernard J.; and Carter, Herbert A., 3,745,078.

Carter, Herbert S.: *See—*
Woodley, Clifford E.; and Carter, Herbert S., 3,722,430.

Carter, Hugh: *See—*
Thomas, Dalton A., 3,780,840.

Carter, J. C., Company, The: *See—*
Carter, James C., 3,764,236.

Carter, Jack L.: *See—*
Flanagan, James P.; and Carter, Jack L., 3,769,999.

Carter, James B., Limited: *See—*
Windsor, Lynne E., 3,760,326.

Carter, James C., to Carter, J. C., Company, The. Modular pump. 3,764,236, 10-9-73, Cl. 417-372.000.

Carter, James D.; and Carter, Elga M., to Clean Air Fuels, Inc. Babassu solid fuel process. 3,756,792, 9-4-73, Cl. 44-1.00r.

Carter, James L.: *See—*
Sinfelt, John H.; Barnett, Allan E.; and Carter, James L., 3,769,201.

Carter, James L.; and Sinfelt, John H., to Esso Research and Engineering Company. Catalytic reforming process. 3,729,408, 4-24-73, Cl. 208-65.000.

Carter, James Milton: *See—*
Schur, Paul Elliot; Gallotello, Peter Edward; Keuler, Joseph Frederick; and Carter, James Milton, 3,762,184.

Carter, John H., to ACF Industries, Incorporated. Cap locking device for pneumatic hopper outlets. 3,715,053, 2-6-73, Cl. 220-55.00r.

Carter, John R.: *See—*
Chen, Wei L.; and Carter, John R., 3,723,719.

Carter, John W., to Seats, Inc. Vehicle seat. 3,711,149, 1-16-73, Cl. 296-63.000.

Carter, Kenneth R., to Litton Systems, Inc. Conductor grids for post and film memory systems. 3,717,854, 2-20-73, Cl. 340-174.0va.

Carter, Leewood C.; Mullen, Edward K.; and Davanzo, Anthony J., to Book Covers, Inc. Method and apparatus for making books including a book block bonded to a book cover board structure. 3,708,813, 1-9-73, Cl. 11-3.000.

Carter, Leo F.: *See—*
Latinen, George A.; and Carter, Leo F., 3,747,899.

Carter, Margaret A.: *See—*
Carter, Norman T.; and Carter, Margaret A., 3,732,955.

Carter, Melvin A.; and Steinke, Theodore D., to Kaiser Aluminum & Chemical Corporation. Process and system for pumping molten metal. 3,759,635, 9-18-73, Cl. 417-50.000.

Carter, Ned C.: *See—*
Johnson, Maurice V., Jr.; Carter, Ned C.; and Koenig, Kenneth W., 3,759,168.

Carter, Neil E.: *See—*
Russell, John Duncan; and Carter, Neil E., 3,734,417.

Carter, Nick G.; and Moore, Charles C., III, to AMF Incorporated. Method and apparatus for correlating a pipeline inspection record to known external locations. 3,754,275, 8-21-73, Cl. 346-1.000.

Carter, Norman D.: *See—*
Wilson, Raymond F.; Peck, Reese A.; Carter, Norman D.; Cole, Edward L.; and Hess, Howard V., 3,725,250.

Carter, Norman D.; Estes, John H.; and Kravitz, Stanley, to Texaco Inc. Dehydroisomerization process. 3,756,941, 9-4-73, Cl. 208-135.000.

Carter, Norman T.; and Carter, Margaret A. Travel case for infant supplies. 3,732,955, 5-15-73, Cl. 190-51.000.

Carter, Paul R.: *See—*
Bird, James E.; and Carter, Paul R., 3,749,651.

Carter Precision Electric Company: *See—*
Byrd, Lucid Lincoln, 3,735,061.
Byrd, Lucid Lincoln, 3,737,998.

Carter Products Company, Inc.: *See—*
Carter, Andrew G.; and Morgan, Charles L., 3,749,485.

Carter, Ray L. Hanger device with foldable arms. 3,749,253, 7-31-73, Cl. 211-171.000.

Carter, Raymond Charles, to Hepworth Plastics Limited, mesne. Pipe couplings. 3,759,553, 9-18-73, Cl. 285-260.000.

Carter, Raymond Charles, to Hepworth Plastics Limited, mesne. Pipe couplings. 3,759,554, 9-18-73, Cl. 285-260.000.

Carter, Rex D., to Sheller-Globe Corporation. Support for suspended files. 3,734,300, 5-22-73, Cl. 211-177.000.

Carter, Richard P.; and Policelli, Frederick J., to Hercules Incorporated. Filament wound vessel and method of manufacture. 3,750,823, 8-7-73, Cl. 220-3.000.

Carter, Ronald D.: *See—*
Cragg, William D.; Dymoke-Bradshaw, Leslie E. B.; Batchelor, Anthony C.; and Carter, Ronald D., 3,781,492.

Carter, Ronald David, to Stanley Works, The. Stem cutting and retaining tool. 3,762,048, 10-2-73, Cl. 30-124.000.

Carter, Sidney T., to A-T-O Inc. Container handling apparatus. 3,717,239, 2-20-73, Cl. 198-31.0aa.

Carter, Sidney T.; and Jolda, Lorian J., to A-T-O Inc. Clamping means for container labeling and strip-applying apparatus. 3,754,637, 8-28-73, Cl. 198-179.000.

Carter, Stephen Barnaby: *See—*
Borrow, Antony; Broadbent, Douglas; Carter, Stephen Barnaby; Evans, Gillian Margaret; Hemming, Harold George; Hesp, Barrie; and Parton, Carol, 3,761,512.

Carter, Terence Vernon, to M.S.E. Holdings Limited. Centrifuging apparatus. 3,761,014, 9-25-73, Cl. 233-38.000.

Carter, Thomas A., Jr.: *See—*
Duron, Paul P.; Carter, Thomas A., Jr.; and Mondok, Frank, 3,733,848.

Carter, Walter H.: *See—*
Jordon, Wesley A.; and Carter, Walter H., 3,765,918.

Carter, Warren E., to Perfect Equipment Corporation. Wheel weight demonstrating device. 3,716,927, 2-20-73, Cl. 35-19.00r.

Carter, Warren L., to Perfect Equipment Corporation. Coil spring spacer. 3,773,309, 11-20-73, Cl. 267-615.000.

Carter, William A.; Sievert, William C.; and Munson, James L., to Inland Steel Company. Roller coating system for one side strip coating. 3,716,019, 2-13-73, Cl. 118-246.000.

Carter, William A., Jr.; and Preban, Arnold G., to Inland Steel Company. Process for galvanizing a ferrous metal article. 3,726,705, 4-10-73, Cl. 117-51.000.

Carter, William C.: *See—*
Bouricius, Willard G.; Jessep, Donald C., Jr.; Carter, William C.; and Wadia, Aspi B., 3,736,569.

Carter, William C.; Hsieh, Edward P.; and Wadia, Aspi B., to International Business Machines Corporation. Status switching arrangement. 3,737,870, 6-5-73, Cl. 340-172.500.

Carter, William C.; Hsieh, Edward P.; and Wadia, Aspi B., to International Business Machines Corporation. Multiple B-adjacent group error correction and detection codes and self-checking translators therefor. 3,766,521, 10-16-73, Cl. 340-146.1al.

Carter, William C.; and Wadia, Aspi B., to International Business Machines Corporation. Hybrid redundancy interface. 3,780,276, 12-18-73, Cl. 235-153.0ae.

Carter, William, Company, The: *See—*
Kaupin, William B., 3,720,212.

Carter, William J.: *See—*
Harrold, Ronald T.; and Carter, William J., 3,728,619.

Carter-Wallace, Inc.: *See—*
Reisner, David B.; Ludwig, Bernard J.; Berger, Frank M.; and Sofia, Robert D., 3,773,953.
Reisner, David D.; Ludwig, Bernard J.; and Berger, Frank M., 3,755,589.

Carter's Ink Company, The: *See—*
Koch, Paul L.; and Maxwell, James C., 3,733,613.

Cartet, Roger: *See—*
Bendayan, Jacques; Duret, Jean; and Cartet, Roger, 3,745,491.

Cartier, Michael D.; and Groff, Gaylord L., to Minnesota Mining and Manufacturing Company. Temperature-responsive electrical switch. 3,727,164, 4-10-73, Cl. 337-405.000.

Cartier, Roger J., to Controls Company of America. Timer stepping mechanism having stretched intervals. 3,717,043, 2-20-73, Cl. 74-112.000.

Cartier, Roger J.; Obermann, George; and Williman, John, to Controls Company of America. Timer blade arrangement. 3,752,944, 8-14-73, Cl. 200-38.00b.

Cartland, William H.; and Earnest, Ernest R. High speed single vane motor. 3,764,241, 10-9-73, Cl. 418-138.000.

Cartledge, Thomas: *See—*
Pickard, John; and Cartledge, Thomas, 3,753,673.

Cartlidge, Dennis Murray: *See—*
Hach, Vladimir; Lockhart, Robert William; and Cartlidge, Dennis Murray, 3,709,943.

Cartmell, James V.: *See—*
Churchill, Donald; Cartmell, James V.; and Miller, Robert E., 3,732,119.
Churchill, Donald; and Cartmell, James V., 3,734,597.

Cartmell, James V.; and Churchill, Donald, to National Cash Register Company, The. Encapsulated liquid crystals. 3,720,623, 3-13-73, Cl. 252-316.000.

Cartmell, Robert R., to Standard Oil Company. Catalytic petroleum conversion process. 3,767,566, 10-23-73, Cl. 208-120.000.

Cartner Group Limited: *See—*
Starnes, Peter Edward, 3,745,339.

Cartoceti, Italtano; and Orlandi, Giancarlo. Apparatus for intermittent, unidirectional rotation of cigarette trays. 3,766,789, 10-23-73, Cl. 74-84.000.

Carton and United Breweries Limited: *See—*
Clarke, Brian James; Hildebrand, Robert Peter; Lance, David George; and White, Alexander William, 3,765,903.

Cartrette, Inc., mesne: *See—*
Bayha, Jack E., 3,767,084.

Cartridge Actuated Devices, Inc.: *See—*
McPherson, James H., 3,745,276.
Sawyer, Robert H., 3,748,413.

Cartridge Television, Inc.: *See—*
Crosno, Philip M., 3,718,755.
Crosno, Philip M., 3,758,710.
Crosno, Philip M., 3,758,711.

Cartwright, Cyril A.: *See—*
Lane, George C.; Cartwright, Cyril A.; and Elmslie, Keith W., 3,723,276.
Lane, George C.; Cartwright, Cyril A.; and Elmslie, Keith W., 3,740,327.

Cartwright, Delmar G., to Bell Canada. Telephone transfer circuit actuated by calling signal. 3,725,594, 4-3-73, Cl. 179-18.0ad.

Cartwright, Delmar G., to Bell Canada. Dial and multifrequency telephone system employing ringing and lamp flash signalling. 3,739,100, 6-12-73, Cl. 179-18.0ad.

Cartwright, John Anthony: *See—*
Daines, William Robert; and Cartwright, John Anthony, 3,745,565.

Cartwright, John Bryan Francis, 1/2 to Sperry Rand Limited. Electro-mechanical transducer. 3,755,699, 8-28-73, Cl. 310-12.000.

Cartwright, Robert S., to Stewart-Warner Corporation. Wheel stake. 3,713,186, 1-30-73, Cl. 16-45.000.

Cartwright, Robert S., to Stewart-Warner Corporation. Pull. 3,769,655, 11-6-73, Cl. 16-126.000.

Cartwright, Thomas William: *See—*
Page, Robert Brian; and Cartwright, Thomas William, 3,715,622.

Cartwright, William J., to Continental Can Company, Inc. Method of and apparatus for assembling internesting members. 3,733,680, 5-22-73, Cl. 29-429.000.

Caruel, Jacques E. J.; Castellant, Jean-Pierre J. E.; Coutor, Simone; and Jean-Baptiste, Armand, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Walls of combustion chambers. 3,735,589, 5-29-73, Cl. 60-39.650.

Caruel, Jacques Emile Jules; Cantaloube, Bernard Andre; Stora, Guy Daniel; Bedue, Jean Robert; Gastebois, Philippe Marc Denis; and Guillevere, Herve Alain, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Devices for pre-vaporising liuid fuel. 3,757,522, 9-11-73, Cl. 60-39.710.

Carugati, Vitaliano: *See—*
Colombo, Sergio; Carugati, Vitaliano; Ferramola, Gianni; and Ferrari, Sergio, 3,735,132.
Colombo, Sergio; Carugati, Vitaliano; Ferramola, Gianni; and Ferrari, Sergio, 3,781,557.

Carus Corporation: *See—*
Anderson, Fred J.; and Kessler, Jack L., 3,758,391.
Anderson, Fred J.; and Kessler, Jack L., 3,758,392.

Caruso, Bernard E., to Hitco. Chromium oxide coating for siliceous articles. 3,725,117, 4-3-73, Cl. 117-100.00s.

Caruso, Gerald L.: *See—*
Ackerman, William H., Jr.; Fischer, Emery; and Caruso, Gerald L., 3,771,416.

Caruso, Gerard. Trolling rig. 3,747,254, 7-24-73, Cl. 43-25.200.

Caruso, Jerome C., to Leira Corporation. Bulk film rewind apparatus. 3,752,413, 8-14-73, Cl. 242-71.700.

Caruso, Paul J., to Itek Corporation. Image converter charging information of one frequency to another frequency. 3,754,144, 8-21-73, Cl. 250-213.00r.

Caruso, Philip J., Jr. Microwave radiometric aircraft landing assist system. 3,725,930, 4-3-73, Cl. 343-100.0me.

Caruso, Richard. Hair curler. 3,759,271, 9-18-73, Cl. 132-33.00g.

Caruso, Stephen; Isenberg, Henry D.; Reichler, Allen S.; and Wiseman, Donald F., to Technicon Instruments Corporation. Method and apparatus for providing direct real-time determination of a particulate population. 3,742,194, 6-26-73, Cl. 235-92.0pc.

Carvalho, Robert: *See—*
Scanlon, Joseph C.; Brauer, Alfred; Carvalho, Robert; and Ellis, Cecil B., 3,740,559.

Carvalho, Vasco O.: *See—*
Burt, Harold S.; and Carvalho, Vasco O., 3,756,374.
Burt, Harold S.; and Carvalho, Vasco O., 3,776,396.

Carver, August B., to United States of America, Navy. Outboard missile control surface and actuator. 3,711,040, 1-16-73, Cl. 244-3.210.

Carver, Charles M. Driving tool for floor tar insert elements. 3,769,682, 11-6-73, Cl. 29-255.000.

Carver, Edgar B.: *See—*
Fisk, Reginald C.; and Carver, Edgar B., 3,779,726.

Carver, Fred F., to Singer Company, The, mesne. Aircraft sound simulation system. 3,718,987, 3-6-73, Cl. 35-12.00q.

Carver, Fred S.: *See—*
Varnum, Gordon D.; and Meylan, Charles D. (said Meylan assor. to), 3,724,819.

Carver, Herbert K., Jr., to Dove, J. B., Inc. Shrink tunnel. 3,711,957, 1-23-73, Cl. 34-31.000.

Carver, Herbert K., Jr.; and Hansen, Omar, Jr., to Dove, J. B., Inc. Smokeless cut-off blade for plastic wrapping film. 3,754,489, 8-28-73, Cl. 83-16.000.

Carver, Keith R., to Ohio State University, The, mesne. Shielded end-fire antenna. 3,757,345, 9-4-73, Cl. 343-786.000.

Carver, Richard N., to Marx, Louis, & Co., Inc., mesne. Vacuum ball-holding and projecting apparatus. 3,765,677, 10-16-73, Cl. 273-96.00r.

Carver, Robert W. Amplifier with protective energy limiter circuit components. 3,727,148, 4-10-73, Cl. 330-207.00p.

Carver, William M., Jr., to Sears, Roebuck and Co. Zipper. 3,775,812, 12-4-73, Cl. 24-205.11r.

Carver-Greenfield Corporation: *See—*
Greenfield, Charles; Casparian, Robert E.; and Bonanno, Anthony J., 3,716,458.

Carveth, William H. Reinforced plastic gear. 3,733,921, 5-22-73, Cl. 74-439.000.

Carwood, Blaine E. Drive mechanism for a self-propelled irrigation system. 3,749,117, 7-31-73, Cl. 137-344.000.

Cary, Frank Holper; and Thon, Ronald A., to Molon Motor & Coil Corporation. Electric sub-fractional motor with encapsulated rotor. 3,742,269, 6-26-73, Cl. 310-43.000.

Cary, Harry W., Jr.: *See—*
Abrams, Ralph; and Cary, Harry W., Jr., 3,719,974.

Cary Instruments: *See—*
Chupp, Vernon L.; and Duffield, Jack J., 3,775,010.
Hawes, Roland C., 3,728,030.
Hawes, Roland C., 3,737,235.
Hawes, Roland C., 3,748,040.

Cary Instruments; a wholly owned subsidiary of Varian Associates: *See—*
Abu-Shumays, Ahmad; and Duffield, Jack J., 3,741,660.

Cary, John W. Convertible trailer construction. 3,715,141; 2-6-73, Cl. 296-23.00r.

Cary Products, Inc.: *See—*
McLarty, Shirley, 3,713,678.

Cary, Thomas Francis. Camper and cabinet construction therefor. 3,722,946, 3-27-73, Cl. 296-23.0mc.

Casa, Angelo Della: *See—*
Peter, Richard; Angliker, Hans-Joerg; and Casa, Angelo Della, 3,759,957.
Peter, Richard; Angliker, Hans-Joerg; and Casa, Angelo Della, 3,759,958.
Peter, Richard; Angliker, Hans-Joerg; and Casa, Angelo Della, 3,759,959.

Casa, Fausto: *See—*
Vecellio, Bernardino; and Casa, Fausto, 3,725,177.

Casa, Henri Della: *See—*
Borgnat, Daniel; Casa, Henri Della; and Jusseau, Noel, 3,771,473.

Casad, Burton M.: *See—*
Barrere, Clem A., Jr.; and Casad, Burton M., 3,713,272.
Snyder, Charles F.; and Casad, Burton M., 3,728,844.

Casadevall, James L.: *See—*
Kinnaird, Laird D.; Moorhead, Seth B., Jr.; and Casadevall, James L., 3,745,928.

Casadevall, James L., to Martin Marietta Corporation. Expansion permitting arrangement, and method of joining members. 3,711,361, 1-16-73, Cl. 161-47.000.

Casadevall, James L., to Martin Marietta Corporation. High performance ablative material construction. 3,726,751, 4-10-73, Cl. 161-58.000.

Casadevall, James L.; Arnold, James P.; and Buzlea, Ruby D., to Martin Marietta Corporation. Method of making hot gas manifold. 3,773,593, 11-20-73, Cl. 156-294.000.

Casagrande, Bruno. Drive arrangement for telescopically arranged elements. 3,753,468, 8-21-73, Cl. 173-44.000.

Casagrande, Cesare: *See—*
Ferrari, Giorgio; and Casagrande, Cesare, 3,711,485.

Casagrande, Fulvio: *See—*
Duennenberger, Max; Schellenbaum, Max; and Casagrande, Fulvio, 3,708,527.

Casale, Ernest. V-drive transmission utilizing splash lubrication. 3,763,961, 10-9-73, Cl. 184-11.00a.

Casale, William R.; Saltz, Fred; and Schreck, George R., to International Business Machines Corporation. Form run-out and jam detector for printer. 3,779,440, 12-18-73, Cl. 226-74.000.

Casalta, Jean Pierre; Dubs, Claude; and Lechevallier, Andre, to Electricite de France. Electric line tensioning apparatus. 3,729,172, 4-24-73, Cl. 254-67.000.

Casano, Frank V. Tile-spacing construction. 3,745,735, 7-17-73, Cl. 52-390.000.

Casas-Robert, Ramon, to Mefina S.A. Presser foot for a sewing machine. 3,776,160, 12-4-73, Cl. 112-235.000.

Casau, Celestin J.: *See—*
Rosztoczy, Ferenc E.; Casau, Celestin J.; and Kinoshita, Joshyo, 3,770,518.





Casavant, Albert R. Cymbal holder. 3,730,047, 5-1-73, Cl. 84-402.000.

Casavant, Roger M.; Larson, Wesley S.; and Panicci, Richard L., to Chen, Allen S., mesne. Shoe covering apparatus. 3,775,793, 12-4-73, Cl. 12-1.00r.

Cascade Corporation: *See—*
Didtel, Stuart R.; and Olson, Harland D., 3,738,520.
Farmer, Stanley E., 3,737,049.
Nutter, Ralph E., 3,709,547.

Cascade Industries, Incorporated: *See—*
West, Robert E., 3,755,981.
West, Robert E.; and Kantebet, Kishore V., 3,765,534.

Cascade Pole Company: *See—*
Monahan, Victor C.; Monahan, Gerald L.; and Cundy, Clyde Y., 3,746,776.

Casciano, Frederick M. Diver signal and/or marker. 3,760,440, 9-25-73, Cl. 9-8.00r.

Casco Products Corporation: *See—*
Welk, Horace B., Jr., 3,776,043.

Case, Cecil L.; and Garrison, Harold Keith, to Hesston Corporation. Variable speed power transmission. 3,715,928, 2-13-73, Cl. 74-218.000.

Case, Cecil L.; Elder, Robert L.; and Fell, Ferol S., to Hesston Corporation. Mowing, conditioning and windrowing machine and method. 3,716,972, 2-20-73, Cl. 56-1.000.

Case, Cecil L., to Hesston Corporation. Hydraulic flotation for implement header. 3,717,995, 2-27-73, Cl. 60-470.000.

Case, Cecil L.; Elder, Robert L.; and Fell, Ferol S., to Hesston Corporation. Mowing, conditioning and windrowing machine. 3,754,384, 8-28-73, Cl. 56-14.400.

Case, David A., to Tenneco Inc. Universal tailpipe bracket. 3,711,050, 1-16-73, Cl. 248-74.00r.

Case, Derek Frank: *See—*
Maries, Keith; and Case, Derek Frank, 3,770,403.

Case, Derek Frank; and Stammers, Kenneth, to International Computers Limited. Magnetic heads. 3,775,571, 11-27-73, Cl. 179-100.20c.

Case, Everett N., to Atlantic Richfield Company. Process for the recovery in useful form of fluorine values from phosphate rock while producing phosphoric acid. 3,743,725, 7-3-73, Cl. 423-166.000.

Case, Herbert M.: *See—*
Hawkins, Albert W.; O'Shea, Ronald J.; and Case, Herbert M., 3,767,508.

Case, J. I., Company: *See—*
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Casey, Charles H. Power operated cleaning device. 3,737,942, 6-12-73, Cl. 15-339.000.

Casey, Don E. Collapsible container liner. 3,731,854, 5-8-73, Cl. 222-386.500.

Casey, Edward H., to ACF Industries, Incorporated. Carburator flow stand. 3,741,008, 6-26-73, Cl. 73-118.000.

Casey, Gary L.; and Cogswell, James A., to General Motors Corporation. Method and apparatus for controlling a power transmission. 3,752,011, 8-14-73, Cl. 74-731.000.

Casey, Gerald F., to Fema Corporation. Adjustable non-linear spring and spring suspension system. 3,727,900, 4-17-73, Cl. 267-160.000.

Casey, Horace Craig, Jr.; and Luther, Lars Christian, to Bell Telephone Laboratories, Incorporated. Diffused junction gap electroluminescent devices. 3,755,006, 8-28-73, Cl. 148-33.000.

Casey, James T.; and Badia, Frank A., to International Nickel Company Inc., The. Highly reflective aluminum flake. 3,776,473, 12-4-73, Cl. 241-15.000.

Casey, Morris Dick. Adjustable center apparatus. 3,756,102, 9-4-73, Cl. 82-45.00r.

Casey, Robert, to Caterpillar Tractor Company. Bearing arrangement for idler wheels. 3,744,860, 7-10-73, Cl. 308-109.000.

Casey, Robert J. Apparatus for constructing building structures. 3,767,336, 10-23-73, Cl. 425-4.000.

Casey, Robert W.; and Casey, Timothy R. Fusible door holding device. 3,744,832, 7-10-73, Cl. 292-101.000.

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Casey, William R., to Goodyear Tire & Rubber Company, The. Tire building apparatus. 3,769,856, 11-6-73, Cl. 74-675.000.

Cash, Carlton H.; Green Hazel; and Jernigan, James J., to United States of America, Army. N-element glint simulator. 3,760,418, 9-18-73, Cl. 343-18.00e.

Cash, David R., to Cash, James, Machine Co. Dual head for a multi-needle sewing machine. 3,749,037, 7-31-73, Cl. 112-117.000.

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Cash, William D.; and Weiner, Murray, to Ciba-Geigy Corporation. Treatment and prophylaxis of thrombocascular diseases with 2-imidazolone derivatives. 3,721,738, 3-20-73, Cl. 424-275.000.

Cash, William D.; Petrack, Barbara; and Weiner, Murray, to Ciba-Geigy Corporation. Method of treating movement disorders. 3,729,563, 4-24-73, Cl. 424-248.000.

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Casper, Lee A., to Iron Mountain, Inc. Heat sealing apparatus and method. 3,723,212, 3-27-73, Cl. 156-69.000.
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Caspers, James W.; and Nuese, Carlos, to United States of America, Navy. Track-before-detect system. 3,731,304, 5-1-73, Cl. 343-5.0dp.
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Cassanelli, Robert R.; Wauters, Ronald P.; Wirchansky, Anastasia C.; and Wyss, Clement R., to General Foods Corporation. Multilayered, multi-colored desserts. 3,734,745, 5-22-73, Cl. 99-130.000.
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Cassar, Luigi; Chiusoli, Gian Paolo; Foa, Marco; Losco, Giuseppe; and Fmai, Franco, to Montecatini Edison S.p.A. Process for preparing esters of the para-diphenyl acetic acid. 3,708,518, 1-2-73, Cl. 260-469.000.
Cassar, Luigi; Foa, Marco; and Chiusoli, Gian Paolo, to Montecatini Edison S.p.A. Process for preparing phenylacetic acid. 3,708,529, 1-2-73, Cl. 260-515.00r.
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Cassedy, Edward S., Jr.; and Piltch, Martin. Photoelastic mode-locking of Q-switched lasers using birefringent crystals. 3,725,815, 4-3-73, Cl. 331-94.500.
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Cassel, Ralph. Golf game equipment. 3,752,482, 8-14-73, Cl. 273-176.00b.
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Casset, Georges; Driffort, Jean Pierre; and Lebel, Pierre, to Ste dite France-Couleur. Beam-deflection system for color television picture tube. 3,733,507, 5-15-73, Cl. 313-70.00c.
Cassidy, Floyd L.; and Ko, Daniel Y. C., to Gulf Research & Development Company. Two-stage dehydrocyclization process. 3,748,255, 7-24-73, Cl. 208-65.000.
Cassidy, Floyd L.; and Ko, Daniel Y. C., to Gulf Research & Development Company. Dehydrocyclization of paraffins in the presence of added aromatics. 3,748,258, 7-24-73, Cl. 208-138.000.
Cassidy, Floyd L.; and Ko, Daniel Y. C., to Gulf Research & Development Company. Selective dehydrocyclization process. 3,748,259, 7-24-73, Cl. 208-138.000.
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Castegnier, Adrien. Electrolytic light modulation systems. 3,730,608, 5-1-73, Cl. 350-160.00r.
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Castets, Michel G. M.; Colin, Jean-Marie H.; and Eebuisser, Jean-Claude A., to International Standard Electric Corporation. Circuit for matching the radar pulse duration with the range gate width. 3,713,152, 1-23-73, Cl. 343-7.700.
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Cavalla, John F.; Sandison, Gillian M.; and White, Alan C., to Wyeth, John, & Brother Limited. Acetylenically unsaturated diaryl nitriles and derivatives thereof. 3,759,906, 9-18-73, Cl. 260-247.000.

Cavalla, John Frederick: *See—*
Brown, Kevan; and Cavalla, John Frederick, 3,743,656.

Cavalla, John Frederick; and White, Alan Chapman, to Wyeth, John, & Brother Limited. Hexahydroazepines. 3,729,465, 4-24-73, Cl. 260-239.00b.

Cavallarin, Bruno: *See—*
Palazzetti, Mario; and Cavallarin, Bruno, 3,773,136.

Cavalleri, Bruno; and Sardi, Anna, to Gruppo Lepetit S.p.A. α-Halophenylacetamides. 3,732,253, 5-8-73, Cl. 260-340.500.

Cavalleri, Bruno; Bellasio, Elvio; Testa, Emilio; and Maffii, Giulio, to Gruppo Lepetit S.p.A. α-Fluoro-1-naphthalenemalonic acid and derivatives thereof. 3,770,803, 11-6-73, Cl. 260-475.0fr.

Cavalli, Paolo, to Fiat Societa per Azioni. Control device for the manual regulation of the speed of compression-ignition engines. 3,732,748, 5-15-73, Cl. 74-502.000.

Cavallotti, Claudio: *See—*
Sacrini, Egeo; and Cavallotti, Claudio, 3,775,465.

Cavamatic Limited: *See—*
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Cavanagh, John R.: *See—*
Cross, Kenneth R.; Cavanagh, John R.; and Newman, Richard L., 3,758,233.

Cavanagh, John R., to Logic Systems Corporation Limited. Brine resistant propeller. 3,744,931, 7-10-73, Cl. 416-224.000.

Cavanagh, John R., to Logic Systems Corporation, Limited. Direct melt injection casting centre. 3,771,588, 11-13-73, Cl. 164-337.000.

Cavanagh, Paul: *See—*
Brown, Richard E.; Cavanagh, Paul; and Shavel, John, Jr., 3,776,944.

Cavanagh, Ronald Patrick; and Wright, Allan Richard, to Northern Electric Company Limited. Dispensing packages. 3,721,382, 3-20-73, Cl. 229-52.00b.

Cavanaugh, Lawrence R.; and McCurry, Robert E., to International Business Machines Corporation. Electro-ionic printing apparatus. 3,742,516, 6-26-73, Cl. 346-74.00r.

Cavanaugh, R. J.: *See—*
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Cavanaugh, Robert John, to Du Pont de Nemours, E. I., and Company. Epoxidation of hexafluoropropylene. 3,775,438, 11-27-73, Cl. 260-348.50r.

Cavanaugh, Robert John; and Atkins, George Milton, Jr., to Du Pont de Nemours, E. I., and Company. Epoxidation of tetrafluoroethylene and chlorotrifluoroethylene. 3,775,440, 11-27-73, Cl. 260-348.50r.

Cavanaugh, Robert M.: *See—*
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Cavanna, Mario. Device for longitudinally welding tapes of plastics material-in packaging machines. 3,720,565, 3-13-73, Cl. 156-497.000.

Cavaterra, Enrico: *See—*
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Cavazza, Claudio; Bianchi, Giancarlo Eletti; and Diamanti, Enrico, to Sigma-Tau Industrie Farmaceutiche Riunite S.p.A. Triamcinolone acetonide esters and process for their preparation. 3,749,712, 7-31-73, Cl. 260-239.550.

Cavella, James J., to Datadyne Corporation. Printing mechanism actuator. 3,745,497, 7-10-73, Cl. 335-266.000.

Cavella, James J., to Datadyne Corporation. Digital printer hammer assembly. 3,745,917, 7-17-73, Cl. 101-93.00c.

Cavenaghi, Carlo; Di Fiore, Lucio; Barilli, Filippo; and Calcagno, Benedetto, to Societa Italiana Resine S.p.A. Process of separating aromatic hydrocarbons from hydrocarbon mixtures. 3,725,257, 4-3-73, Cl. 208-331.000.

Caveney, Jack Edward; Moody, Roy A.; and Bulanda, John Jean, to Panduit Corporation. Cable tie. 3,731,347, 5-8-73, Cl. 24-16.0pb.

Caveney, Jack Edward; Moody, Roy Alleyne; and Bulanda, John Jean, to Panduit Corporation. Wire termination and splicing system. 3,778,750, 12-11-73, Cl. 339-97.00r.

Cavestany, Adrian V.; and Berger, Isaac, to Carrier Corporation. Flue gas venting arrangement. 3,726,267, 4-3-73, Cl. 126-85.00b.

Cavett, Narvin R. Football kicking tee. 3,762,706, 10-2-73, Cl. 273-55.00b.

Caviar, Lee. Timing device with adjustable cam operated microswitch assembly. 3,736,391, 5-29-73, Cl. 200-38.00r.

Cavicchi, Roland. Wheel wrench adapter. 3,779,106, 12-18-73, Cl. 81-177.00b.

Caviccioli, Mario. Pot washer and sterilizer. 3,717,159, 2-20-73, Cl. 134-58.0dl.

Cavigelli, George A., to Sybron Corporation. Conductivity monitor having control network load compensation. 3,745,459, 7-10-73, Cl. 324-157.000.

Cavil, David I., to Outboard Marine Corporation. Safety circuit for electric steering system. 3,739;738, 6-19-73, Cl. 114-144.00r.

Cavil, David T., to Outboard Marine Corporation. Bi-directional voltage control for permanent magnet alternator. 3,723,844, 3-27-73, Cl. 320-59.000.

Cavin, Doyle K.; and Trousdale, Robert B. Digital computer with accumulator sign bit indexing. 3,737,867, 6-5-73, Cl. 340-172.500.

Cavis, Thomas C., to Trane Company, The. Cooling apparatus. 3,719,059, 3-6-73, Cl. 62-285.000.

Cavote, Donald R.: *See—*
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Cavraro, Antonio: *See—*
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Cawi, Vernon A.: *See—*
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Cawthorn, Joel M. Stone guitar with tuned neck. 3,769,871, 11-6-73, Cl. 84-291.000.

Cawthorn, Trevor Lewis, to Cooper Roller Bearings Company Limited. Shaft seals. 3,776,559, 12-4-73, Cl. 277-56.000.

Caxton Designs Limited: *See—*
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Cayla, Yves, to Societe d'Etudes et de Documentation Electronique (SEDELEC). Unit for translating and printing of data supplied in a form of combinations of binary signals. 3,741,112, 6-26-73, Cl. 101-93.00c.

Cayle, Theodore, to Baxter Laboratories, Inc. Treating lactase deficiency with an active lactase. 3,718,739, 2-27-73, Cl. 424-94.000.

Cayol, Andre: *See—*
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Cayon, David Walter: *See—*
Field, Fred Walker; and Cayon, David Walter, 3,732,931.

Cayphas, Etienne; Leclercq, Robert; and Van-Cauter, Albert, to Glaverbel S.A. Method and apparatus for bending a glass ribbon to a different draw direction. 3,740,205, 6-19-73, Cl. 65-25.00a.

Cayton, David Walter; and Johnson, Leslie William, to Deere & Company. Precision depth seed planter. 3,749,035, 7-31-73, Cl. 111-85.000.





Cayton, Thomas C., Jr., to Motorola, Inc. Tape head indexing and shifting apparatus. 3,781,018, 12-25-73, Cl. 274-4.00a.

Cayuga Associates, Inc.: *See—*
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Cease, Vincent J.; and Thomas, Samuel C., Jr., to Continental Oil Company. Method for preparing overbased oil soluble compositions. 3,772,198, 11-13-73, Cl. 252-32.7hc.

CEB Limited: *See—*
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Cachan, Jean Cospen; and Baumann, Bernard, 3,713,956.
Cospen, Jean; and Baumann, Bernard, 3,744,669.

Cebalo, Tony, to Air Products and Chemicals, Inc. Thiophosphate derivatives of triazoline thiones. 3,719,686, 3-6-73, Cl. 260-308.00c.

Cebalo, Tony, to Air Products and Chemicals, Inc. Certain 5-sulfamoyl-1,3,4-thiadiazol-2-ylureas. 3,726,892, 4-10-73, Cl. 260-306.80d.

Cebalo, Tony; and Miesel, John L., to Lilly, Eli, and Company. Triazoline phosphates. 3,780,052, 12-18-73, Cl. 260-308.00c.

Cebel: *See—*
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Ceccato, Alberto P. Inflatable water ski. 3,750,203, 8-7-73, Cl. 9-310.00d.

Ceccato, Giovanni: *See—*
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Cecchi, Carlo, to Fiat Societa per Azioni. Automatic scoop positioning device for mechanical shovel. 3,738,522, 6-12-73, Cl. 214-764.000.

Cecchi, Carlo, to Fiat Societa per Azioni. Self regulating fluid pump. 3,751,190, 8-7-73, Cl. 417-288.000.

Cecchin, Gildo; and Hilbert, Francis H. Signal processing circuit for a color television receiver. 3,733,562, 5-15-73, Cl. 332-9.00t.

Cecchin, Gildo; and Hilbert, Francis H., to Motorola, Inc. Signal processing circuit for a color television receiver. 3,781,701, 12-25-73, Cl. 330-30.00d.

Ceccon, Harry L.; and Furumoto, Horace W. Coaxial flashlamp. 3,721,851, 3-20-73, Cl. 313-201.000.

Cecere, Andrew P., to Samcoe Holding Corporation. Sealing device for vacuum extractor. 3,735,444, 5-29-73, Cl. 15-307.000.

Cech, Robert E.: *See—*
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Cech, Robert E., to General Electric Company. Rare earth intermetallic compounds by a calcium hydride reduction-diffusion process. 3,748,193, 7-24-73, Cl. 148-101.000.

Cech, Robert E., to Copper Range Company. Method of extracting a metal from a material containing the metal in elemental form. 3,775,097, 11-27-73, Cl. 75-103.000.

Cecil, Howard F.; and Armentrout, James L., to Southwest Forest Industries, Inc. Controlled adhesion sterile package seal. 3,773,248, 11-20-73, Cl. 229-51.0wb.

Cecil, James B.; and Howard, William G., Jr., to Motorola, Inc. Reference current source. 3,731,181, 5-1-73, Cl. 323-4.000.

Cecil, James B.; and Davis, Walter R., to Motorola, Inc. Constant current regulating circuit. 3,777,251, 12-4-73, Cl. 323-4.000.

Cecil, James Barton, to Motorola, Inc. Ladder termination circuit. 3,714,599, 1-30-73, Cl. 330-19.000.

Cecil, James Barton, to Motorola, Inc. Digital to analog converter including improved reference current source. 3,717,777, 2-20-73, Cl. 307-296.000.

Cecil, Olin B.: *See—*
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Cecil, Richard R.; and Fink, Thomas E., to Esso Research and Engineering Company. Two-stage hydrodesulfurization process with hydrogen addition in the first stage. 3,732,155, 5-8-73, Cl. 208-210.000.

Cecil, Thomas F., II; and Davidge, Ronald V., to International Business Machines Corporation. Corona discharge device. 3,736,424, 5-29-73, Cl. 250-49.5zc.

Cecil, Tom A., to Engelhard Minerals & Chemicals Corporation. Preparation of stable suspension of calcined clay. 3,754,712, 8-28-73, Cl. 241-16.000.

Ceco Corporation, The: *See—*
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Cedar, Raymond J., to Ford Motor Company. Anti-dieseling carburetor structures. 3,741,178, 6-26-73, Cl. 123-97.00b.

Cedar, Raymond J., to Ford Motor Company. Engine anti-diesel and deceleration control. 3,753,427, 8-21-73, Cl. 123-198.0pb.

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Cekada, Joseph, Jr. Aqueous siloxane bag lubricant for tire molding. 3,713,851, 1-30-73, Cl. 106-38.220.

Celada, Juan; and MacKay, Patrick W., to Fierro Esponja, S.A. Pressure lock for feeding particulate material to and removing it from a pressure vessel. 3,710,808, 1-16-73, Cl. 137-1.000.

Celada, Juan; Villarreal, David; and MacKay, Patrick W., to Fierro Esponja S.A. Method and apparatus for the gaseous reduction of iron ore to sponge iron. 3,765,872, 10-16-73, Cl. 75-34.000.

Celada, Juan; Mackay, Patrick W.; Garcia, Gilberto Guerra; Martinez, Enrique R.; and Villasenor, Antonio, to Fierro Esponja, S.A. Method and apparatus for controlling the composition. 3,770,421, 11-6-73, Cl. 75-91.000.

Celada, Juan; MacKay, Patrick W.; and de la Pena, Ramon, to Fierro Esponja S.A. Method for reducing particulate metal ores to sponge iron with recycled reducing gas. 3,779,741, 12-18-73, Cl. 75-35.000.

Celanese Canada Limited: *See—*
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Celanese Coatings Company: *See—*
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Celesco Industries, Inc., mesne: *See—*
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Celeste, Jack Richard. Photopolymerizable transfer elements. 3,770,438, 11-6-73, Cl. 96-67.000.

Cella, John A.; and Schmitt, William H., to Alberto-Culver Company. Low calorie dry sweetener composition. 3,753,739, 8-21-73, Cl. 99-141.00a.

Cella, John Anthony; York, Thomas Oliver; and Schmitt, William Howard, to Alberto-Culver Company. High-foaming liquid detergent compositions. 3,728,265, 4-17-73, Cl. 252-90.000.

Cella, Robert J. Twist around antenna. 3,774,219, 11-20-73, Cl. 343-702.000.

Cellarius, Hans-Joerg: *See—*
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Cenci, Harry J., to Rohm & Haas Company. t-Butyl alcohol/water cosolvent emulsion copolymerization of a monomeric system comprising methyl methacrylate and bicyclic methacrylate. 3,716,524, 2-13-73, Cl. 260-78.500.

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Kan, Peter T.; and Cenker, Moses, 3,761,502.
Kan, Peter T.; Cenker, Moses; and Narayan, T. V. Lakshmi, 3,772,217.
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Patton, John T., Jr.; Cenker, Moses; and Kan, Peter T., 3,766,103.

Cenker, Moses; and Kan, Peter T., to BASF Wyandotte Corporation. Carbodiimide foams of reduced brittleness prepared from resole-derived quasi-prepolymers. 3,732,187, 5-8-73, Cl. 260-77.5bf.

Cenker, Moses; Kan, Peter T.; Patton, John T., Jr.; and Robertson, Earl J., to BASF Wyandotte Corporation. Carboiimide foams reduced friability prepared in the presence of an acrylonitrile-grafted polyol. 3,748,289, 7-24-73, Cl. 260-2.5bf.





Cenker, Moses; and Weipert, Eugene A., to BASF Wyandotte Corporation. Heteric nonionic surfactants having enhanced detergency. 3,770,701, 11-6-73, Cl. 260-65.00b.

Censi, Giorgio. Variable stroke multiple pump. 3,738,230, 6-12-73, Cl. 92-13.300.

Centaur Chemical Co.: *See—*
Avakian, Souren, 3,732,734.

Centliver, Marion F.: *See—*
Karnes, Donovan; and Centliver, Marion F., 3,738,555.
Karnes, Donovan; and Centliver, Marion F., 3,744,694.

Centner, Herman. Optical system for attachment to a projector to reproduce a secondary image. 3,768,891, 10-30-73, Cl. 351-30.000.

Centner, Ronald M.; and Kamm, Vernon C., to Bendix Corporation, The. Coordinate determining device employing a slowly varying difference signal to determine approximate cursor position. 3,735,044, 5-22-73, Cl. 178-18.000.

Central Engineering Company: *See—*
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Central Glass Company, Limited: *See—*
Nagae, Yasuyuki, 3,737,665.
Takenobu, Mareo; Yoshida, Takashi; Masuda, Hiroshi; Takahashi, Kenya; Fujioka, Kenji; Miura, Kansuke; Shibasaki, Masuo; and Yamamoto, Tetsuo, 3,775,491.
Yamada, Tunehiko; Egami, Seiji; Sasatani, Harumi; Matsuoka, Hideaki; Emoto, Saburo; and Okamura, Kunio, 3,716,176.

Central Investment Corporation: *See—*
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Central Quality Industries, Inc.: *See—*
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Central Screw Company: *See—*
Ringhand, Kenneth D., 3,745,599.
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Central Soya Company, Inc.: *See—*
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Central Specialties Company: *See—*
Van Etta, David; and Ballenger, Robert J., 3,738,550.

Central Texas Iron Works, Inc.: *See—*
Williams, John K., 3,755,851.

Central Tool Co., Inc.: *See—*
Marshall, George L., 3,744,142.

Central Transformer, Inc.: *See—*
Hucker, Arthur A.; and Winter, David F., 3,731,029.

Central Vac International, Inc.: *See—*
Simonelli, Carl L., 3,714,765.

Centre de Recherches de Pont-a-Mousson: *See—*
Lang, Georges F., 3,708,132.
Leblond, Christian Georges; and Oger, Jacques Francois Marie, 3,707,846.

Centre d'Etude de l'Energie Nucleaire: *See—*
Flipot, Alfred Jean; and Gilissen, Robert E. M., 3,751,538.
Habraken, Louis; Leroy, Vincent; Meulemans, Marcel; and Carteels, Florent, 3,719,475.

Centre d'Etudes Pour l'Industrie Pharmaceutique: *See—*
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Sauter, Fritz, 3,772,276.

Centre d'Etudes Techniques des Industries de l'Habillement: *See—*
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Centre Electronique de France: *See—*
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Centre Electronique Horloger S.A.: *See—*
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Choffat, Hubert, 3,751,692.
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Centre Europeen de Recherches Mauvernay: *See—*
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Centre National de Recherches Metallurgiques: *See—*
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Habraken, Louis; Leroy, Vincent; Meulemans, Marcel; and Carteels, Florent, 3,719,475.
Luckers, John, 3,727,450.
Ponghis, Nicolas Gerassimos; and Van Osmael, Claude Henri, 3,718,758.
van den Hove, Christian; and Renard, Lucien, 3,733,049.

Centre National de Recherches Metallurgiques Centrum Voor Research in de Metallurgie: *See—*
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Nilles, Paul-Emile; and Noel, Yvon-Paul, 3,773,495.
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Centre National d'Etudes Spatiales: *See—*
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Centre Stephanois de Recherches Mecaniques Hydromecanique et Frottement: *See—*
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Centre Technique de l'Industrie des Papiers Cartons et Celluloses: *See—*
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Centre Technique du Cuir: *See—*
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Centre Technique Industriel dit: Institut Textile de France: *See—*
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Centro Sperimentale Metallurgico S.p.A.: *See—*
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Centro Studi E Laboratori Telecomunicazioni S.p.A.: *See—*
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Centronics Data Computer Corporation: *See—*
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Centrul de Sudura si Incercari la Oboseala Timisoara: *See—*
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Centrum Techniki Okretowej Przedsiebiorstwo Panstwowe Wyodrebnione: *See—*
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Centuri Engineering Company, Inc.: *See—*
Brown, Lawrence W.; and Piester, Leroy E., 3,719,145.
McAllister, Jack G., 3,736,836.
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Piester, Leroy E.; and Royal, Robert E., 3,721,193.

Century, Bernard A.; and Linsay, Michael, to Allied Steel & Tractor Products, Incorporated. Safety clutch. 3,775,998, 12-4-73, Cl. 64-30.00d.

Century Data Systems, Inc.: *See—*
Buchan, William A.; and Elliott, Richard J., 3,757,189.
Buchan, William Arthur; and Ring, John Joseph, 3,771,114.

Century Geophysical Corporation: *See—*
McLaughlin, Charles R.; and West, Jerry B., 3,720,910.

Century Laboratories Inc.: *See—*
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Century Products, Inc.: *See—*
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Blazey, Lawrence; Silverstrom, David; and Rocker, Elmer, 3,777,673.

Century Tool Company, Inc.: *See—*
Mann, Basil B., 3,722,762.

Ceppi, Francis G., to Polaroid Corporation. Light polarizing device and process for making the same. 3,720,555, 3-13-73, Cl. 156-102.000.

CER Geonuclear Corporation: *See—*
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Ceramic Engineering Limited: *See—*
Work, Peter Twatt, 3,721,262.

Ceramic Magnetics, Inc.: *See—*
Lang, Alphonse Gregory, Jr., 3,760,494.

Ceraver: *See—*
Foucry, Jean; and Auriol, Alain, 3,749,595.

Cerbai, Guido; and Turbanti, Luigi. Heterocyclic amine esters of 2-phenyl or 2-propyl-4-pentynoic acid. 3,776,908, 12-4-73, Cl. 260-247.20b.

Cerberus AG: *See—*
Lampart, Thomas; Scheidweiler, Andreas; and Kuhn, Max, 3,710,110.
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Scheidweiler, Andreas, 3,714,641.
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Cerco Corporation: *See—*
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Cerda, Elisabeth S.: *See—*
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Cerniglia, Joseph Anthony, Jr., to Hewlett-Packard Company. Intensity modulated teardrop display for a vectorcardiograph. 3,710,174, 1-9-73, Cl. 315-22.000.

Cernoch, Thomas J.: *See—*
Bach, Frederick O.; Chapin, Leo N.; Freed, Robert; and Cernoch, Thomas J., 3,717,463.

Cerny, Frank J., Jr., to Motorola, Inc. Intermodulation rejection capabilities of field-effect transistor radio frequency amplifiers and mixers. 3,716,730, 2-13-73, Cl. 307-295.000.
Cerny, Frank J., Jr.; and Linder, Donald L., to Motorola, Inc. Oscillator with switchable filter control voltage input for rapidly switching to discrete frequency outputs. 3,729,688, 4-24-73, Cl. 331-1.00a.
Cerny, Frank J. Jr., to Motorola, Inc. Broadband circuit for minimizing the effects of crystal shunt capacitance. 3,731,230, 5-1-73, Cl. 331-116.00r.
Cerny, Jindrich: *See*—
Horn, Vladimir; Kuda, Vladimir; and Cerny, Jindrich, 3,771,573.
Cerny, Louis J.: *See*—
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Ceroke, Clarence J.: *See*—
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Ceroll, Gerald E., to General Mills, Inc. Splicer tape assembly for use in tape winding machines. 3,770,551, 11-6-73, Cl. 156-506.000.
Ceromet, Inc.: *See*—
Anderson, Raymond B., Jr., 3,762,455.
Cerone, Robert J. Compact multi-cavity wiper bullet mold. 3,718,310, 2-27-73, Cl. 249-165.000.
C.E.R.P.H.A. (Centre Europeen de Recherches Pharmacologiques): *See*—
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Cerri, Egidio: *See*—
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Cerrocchi, Lino: *See*—
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Certain, Bernard Maurice, to Societe Nationale Industriclle Aerospatiale. Method and devices for improving the longitudinal stability of helicopters. 3,717,317, 2-20-73, Cl. 244-17.130.
Certain-Teed Products Corporation: *See*—
Heilmayr, Peter F., 3,776,672.
Swander, Kenneth D., Jr.; and Wilkins, Ronald D., 3,712,181.
Certain-Teed Saint Gobain Insulation Corporation: *See*—
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Swander, Kenneth D., Jr., 3,730,056.
Cerulo, Louis J.: *See*—
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Cerva, Alexander; and Tomasovic, Milan, to Vyzkumny ustav mechanizacie a automatizacie Nove. Nozzle for a pneumatic-hydraulic head for cleaning of molds for pressure casting of metal. 3,719,325, 3-6-73, Cl. 239-405.000.
Cervenak, Peter J., to Nicholson Manufacturing Company. Log barker ring position controller. 3,709,269, 1-9-73, Cl. 144-208.00e.
Cervenak, Peter J., to Nicholson Manufacturing Company. Limb stub-cutting mechanism. 3,718,167, 2-27-73, Cl. 144-2.00z.
Cervenka, Joseph J.; and Hetzel, Marvin E., to Cerzel Tool & Engineering Company. Machine for making wire terminals and applying same to a bobbin. 3,747,186, 7-24-73, Cl. 29-203.00d.
Cerveny, Walter J., to Triplett Corporation. Autopolarity voltmeter circuit. 3,746,984, 7-17-73, Cl. 324-115.000.
Cerwenka, Peter: *See*—
Holzgruber, Wolfgang; Machner, Peter; Schneihofer, Adolf; Kleinhagauer, Otmar; and Cerwenka, Peter, 3,781,448.
Cerwin, James Joseph, to Bunker-Ramo Corporation, The. Miniature connector-modular. 3,760,336, 9-18-73, Cl. 339-92.00m.
Cerzel Tool & Engineering Company: *See*—
Cervenka, Joseph J.; and Hetzel, Marvin E., 3,747,186.
Cesari, Giuseppe. Tooth brush complete with dispenser for the tooth paste. 3,741,667, 6-26-73, Cl. 401-175.000.
Cesaro, Richard S. Tethered airborne communications and information transfer system. 3,742,358, 6-26-73, Cl. 325-3.000.
Cesarotti, Joseph D. Plastic sign symbol. 3,755,943, 9-4-73, Cl. 40-130.00d.
Cesca, Sebastiano: *See*—
Arrighetti, Sergio; Roggero, Arnaldo; Vajna, Eugenio; and Cesca, Sebastiano, 3,712,876.
Arrighetti, Sergio; Corradini, Giorgio; and Cesca, Sebastiano, 3,725,372.
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Ceska, Frank Z., to Menasco Manufacturing of Canada Ltd., mesne. Oleo-pneumatic shock absorber. 3,724,832, 4-3-73, Cl. 267-64.00r.
Ceskoslovenska akademie ved: *See*—
Chvalovsky, Vaclav; Mach, Lumir; and Machova, Helena, 3,736,162.
Dolejs, Ladislav; Kahovcova, Kitka; Slama, Karel; and Sorm, Frantisek, 3,711,519.
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Jost, Karel; Pliska, Vladimir; Krejci, Ivan; and Sorm, Frantisek, 3,752,799.
Lim, Drahoslav; Kopecek, Jindrich; and Vacik, Jiri, 3,745,042.
Lim, Drahoslav; Coupek, Jiri; and Lubomir, Lochmann, 3,761,529.
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Wichterle, Otto; and Krejci, Lubomir, 3,767,759.
Cesna, Joseph V.: *See*—
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Cespanyi, Sandor; Enekes, Sandor; Temesszentandrasi, Guido; Zambo, Pal; and Palmay, Zoltan, to Lenin Kohaszati Muvek and Ozdi Kohaszati Uzemek. Process for the production of frec-cutting carbon steels with special de-oxidation. 3,767,380, 10-23-73, Cl. 75-8.000.
Cessna Aircraft Company, The: *See*—
Jones, Jack, 3,708,934.
Putnam, Richard C., 3,748,063.
Cetenko, Wiaczeslaw: *See*—
Morrison, Glenn C.; Shavel, John, Jr.; and Cetenko, Wiaczeslaw, 3,725,420.
Cetrulo, Frank A., Jr., to National Factors, Inc. Driving lug structure for endless track. 3,722,963, 3-27-73, Cl. 305-38.000.
Cettin, Edward J.; Pappas, Jimmy P.; and Lager, Sam E., to Thermo-Chem Systems, Inc. Anti-pollution system for internal combustion engines. 3,709,203, 1-9-73, Cl. 123-119.00a.
Ceulemans, Hugo Frans: *See*—
Van Den Enden, Gaston Alfons; and Ceulemans, Hugo Frans, 3,710,977.
Cevales, Giacomo, to Refradige S.p.A. Thermal treatment of electromelted refractory materials. 3,754,950, 8-28-73, Cl. 106-57.000.
Cevasco, Albert Anthony, to American Cyanamid Company. Certain 2-(o-sulfonamidophenyl)-4 (3H)-quinazolinones. 3,740,402, 6-19-73, Cl. 260-256.50r.
CF & I Steel Corporation: *See*—
Godfrey, Howard J.; Homa, Stephen W.; and Stott, Ronald J., 3,763,680.
C.G.E.E. Alsthom: *See*—
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CGR Medical Corporation: *See*—
Siedband, Melvin P.; and James, Jack L., 3,766,391.
Chabala, Leonard V.; and Rogers, Edward J., to S & C Electric Company. Switch operating mechanism. 3,769,477, 10-30-73, Cl. 200-146.00r.
Chabardes, Pierre; and Querou, Yvon, to Rhone-Poulenc S.A. Ruthenium catalyzed process for the alkylation of ketones. 3,781,307, 12-25-73, Cl. 260-347.800.
Chabas & Besson S.A.: *See*—
Besson, Louis Pierre Albert, 3,779,064.
Chabee, George G., to Cumberland Engineering Company, Inc. Knife holder and knife therefor. 3,779,123, 12-18-73, Cl. 83-698.000.
Chaboseau, Jacques Pierre: *See*—
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Chabot, Leo L.: *See*—
Amato, Richard A.; and Chabot, Leo L., 3,772,868.
Chabrerie, Jean-Pierre; and Mailfert, Alain Jacques, to Agence Nationale de Valorisation de la Recherche (ANVAR). Homopolar machines with contacts of liquid metal. 3,743,874, 7-3-73, Cl. 310-178.000.
Chace, Howard E.: *See*—
Bole, Hamilton B.; and Chace, Howard E., 3,765,861.
Chacko, Joseph, to Sargent Industries, Inc., mesne. Trigger mechanism for gas valving apparatus. 3,709,044, 1-9-73, Cl. 74-2.000.
Chacos, Nicholas G. Safety bottle cap. 3,771,682, 11-13-73, Cl. 215-9.000.
Chadbourne, Gilbert R., to Keyes Fibre Company. Packaging tray. 3,765,592, 10-16-73, Cl. 229-2.500.
Chaddha, Ashwani K. Data communication system. 3,723,972, 3-27-73, Cl. 340-172.500.
Chadha, Desh D.; Patel, Babu B.; and Pickett, Charles G., to Bio-Medical Sciences, Inc. Disposable therometer construction. 3,712,141, 1-23-73, Cl. 73-356.000.
Chadha, Jaswinder Singh: *See*—
Aneja, Rajindra; and Chadha, Jaswinder Singh, 3,752,833.



Chadha, Rajendra Nath, to Stauffer Chemical Company, mesne. Method of curing organic siloxane polymers and copolymers. 3,776,977, 12-4-73, Cl. 260-825.000.
Chadwell, James I. Flexible cleaner for the sole of a golf shoe. 3,763,578, 10-9-73, Cl. 36-7.300.
Chadwick, Cecil George, to Union Carbide Corporation. Method of purifying low-carbon ferrochrome. 3,725,051, 4-3-73, Cl. 75-130.500.
Chadwick, Charlie F. Convertible trailer. 3,730,542, 5-1-73, Cl. 280-9.000.
Chadwick, David H., to Mobay Chemical Company. Polyurethanes prepared from polyester, organic diisocyanates and bis(β-hydroxyethoxy-phenyl). 3,711,440, 1-16-73, Cl. 260-47.0cb.
Chadwick, Donald H.; Mueller, William A.; and Apodaca, Ruben T., to International Electronic Research Corporation. Process of making a metal core printed circuit board. 3,745,095, 7-10-73, Cl. 204-15.000.
Chadwick, George F., to Airco, Inc. Electrical resistor. 3,742,423, 6-26-73, Cl. 338-334.000.
Chadwick, Incorporated: *See*—
Chadwick, Russell D., 3,710,868.
Chadwick, Philip, to General Electric Company. Voltage distortion detection and control for HVDC converter. 3,737,763, 6-5-73, Cl. 321-11.000.
Chadwick, Philip, to General Electric Company. Margin angle control for HVDC converter having improved valve current monitor. 3,771,041, 11-6-73, Cl. 321-5.000.
Chadwick, Ray F.; and Robertson, John H., to Bendix Corporation, The. Energy absorber for high pressure fluid jets. 3,730,040, 5-1-73, Cl. 83-177.000.
Chadwick, Ray F.; Kurko, Michael C.; and Corriveau, Joseph A., to Bendix Corporation, The. Nozzle for producing fluid cutting jet. 3,756,106, 9-4-73, Cl. 83-177.000.
Chadwick, Russell D., to Chadwick, Incorporated. Aircraft suspended bucket for fire fighting. 3,710,868, 1-16-73, Cl. 169-2.00a.
Chadwick-Helmuth Electronics, Inc.: *See*—
Helmuth, James G., 3,770,338.
Chae, Hi Chul: *See*—
Vandenberg, Willard J.; Chae, Hi Chul; Stewart, Elmer R.; Palmer, Wayne R.; and Padgitt, Howard R., 3,709,598.
Chae, Hi Chul; Gelinas, Richard; Trusty, Jon Caton; and Berntsen, Walter H., to Lilly, Eli, and Company. Electronic system and method for capsule inspection. 3,757,943, 9-11-73, Cl. 209-111.700.
Chaeko, Joseph; and Satterfield, Robert S., to Sargent Industries, Inc. Inflatable evacuation slide. 3,712,417, 1-23-73, Cl. 182-48.000.
Chafetz, Harry: *See*—
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Patmore, Edwin L.; Siegart, William R.; and Chafetz, Harry, 3,725,468.
Patmore, Edwin L.; Siegart, William R.; and Chafetz, Harry, 3,734,955.
Patmore, Edwin L.; Siegart, William R.; and Chafetz, Harry, 3,775,459.
Chaffee, Edwin George, to Litton Systems, Inc. Planar-shielded meander slow-wave structure. 3,736,534, 5-29-73, Cl. 333-031.00r.
Chaffee, Quentin Roosevelt: *See*—
Brandeau, Edward Peter; Chaffee, Quentin Roosevelt; and Gitt, Robert Lewis, 3,710,620.
Chaffee, Robert C.: *See*—
Chartier, Richard G.; and Chaffee, Robert C., 3,717,272.
Chaffee, William H.; Rubio, Alfred M.; and Lorenz, Richard L., to Columbia Broadcasting System, Inc. Guitar strings with enlarged end. 3,777,613, 12-11-73, Cl. 84-297.00s.
Chaffers, John W., to Weyerhaeuser Company. Container with means for locking the lid. 3,713,579, 1-30-73, Cl. 229-44.00r.
Chaffin, John H., III, to Honeywell Inc. Optical memory with interferometer tracking. 3,716,845, 2-13-73, Cl. 340-173.01m.
Chafin, Gerald L.: *See*—
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Chafin, James M.; and Padovani, Henry R., to Textron Inc. Heel notching means. 3,735,439, 5-29-73, Cl. 12-42.00r.
Chafitz, Steven R.: *See*—
Hollies, Norman R. S.; and Chafitz, Steven R., 3,709,657.
Chafitz, Steven Roy; and Laden, Karl, to Gillette Company, The. Intermittent dispensing device. 3,739,952, 6-19-73, Cl. 222-213.000.
Chaft, Marc E. Intrauterine contraceptive device. 3,716,052, 2-13-73, Cl. 128-130.000.
Chahley, William, to Chahley, William, Ltd. Manhole cover. 3,772,828, 11-20-73, Cl. 49-465.000.
Chahley, William, Ltd.: *See*—
Chahley, William, 3,772,828.
Chai, Hi D.; Mills, Stephen H.; Pawletko, Joseph P.; Peters, Francis E.; and Young, Carl T., to International Business Machines Corporation. Magnetic actuator mechanism. 3,745,495, 7-10-73, Cl. 335-229.000.
Chaikin, Malcolm; Rokfalussy, Desmond; and Dircks, Alexander Douglas. Apparatus for the processing of wool fibres. 3,715,780, 2-13-73, Cl. 19-178.000.
Chaikin, Saul W.: *See*—
Cope, Oswald James; and Chaikin, Saul W., 3,779,768.
Cope, Oswald James; and Chaikin, Saul W., 3,779,774.
Chaikin, Saul W., to Xidex Corporation. Adhesion of organic materials to organic polymers. 3,740,252, 6-19-73, Cl. 117-34.000.
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Chaki, Kouin. Pick up device for stringed instrument. 3,733,425, 5-15-73, Cl. 84-1.140.
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Challandes, Claude, to Centre Electronique Horloger S.A. Universal timepiece. 3,722,207, 3-27-73, Cl. 58-42.500.
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Challey, John R., to Rhodia Inc., mesne. Composition for control of coccidiosis containing a coccidiostatically active 4-hydroxy-quinoline and meticlorpindol. 3,761,594, 9-25-73, Cl. 424-258.000.
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Chamberlain, John, to United Aircraft Corporation. Combustion system. 3,739,576, 6-19-73, Cl. 60-39.74r.

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Chamberlin, Richard I.; Leahy, Joseph E.; and Viles, Frederick J., to Sheldon, E. H., and Company. Laboratory exhaust hood. 3,752,056, 8-14-73, Cl. 98-115.0lh.

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Chambers, Alan B.; Blackaby, James R.; and Billingham, John, to United States of America, National Aeronautics and Space Administration. Temperature controller for a fluid cooled garment. 3,736,764, 6-5-73, Cl. 62-89.000.

Chambers, Albert; Johnson, Peter Bennett; and Lee, Thomas Brian, to Fisons Limited. Bis-chromones. 3,773,794, 11-20-73, Cl. 260-345.200.

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Chambers, Derek, to Raytheon Company. Visual display system. 3,774,161, 11-20-73, Cl. 340-172.500.

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Chambost, Pierre; and Chambost, Aime. Apparatus for filling a sausage skin with sliced sausage filling. 3,710,542, 1-16-73, Cl. 53-123.000.

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Chamlee, Cliff. Prefabricated all weather dome-type shelter. 3,763,608, 10-9-73, Cl. 52-80.000.

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Champeau, Charles A. Method of making a building material from waste stock from a papermaking process. 3,769,116, 10-30-73, Cl. 156-62.800.

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Champleboux, Jacques Joseph; and Delaux, Robert Daniel, to Pneumatiques, Caoutchouc Manufacture et Plastiques Kleber-Colombes. Hoses. 3,766,949, 10-23-73, Cl. 138-133.000.

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Champney, Rodney W.; Mc Keen, Leighton R.; and Breck, Louis William Jr., to Farah Manufacturing Company, Inc. Pocket welting machine. 3,763,802, 10-9-73, Cl. 112-121.120.

Champoux, Edmond J. Out-of-phase pedals oscillated exercising device. 3,747,924, 7-24-73, Cl. 272-79.00r.

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Chan, Chee Keung, to M & T Chemicals Inc. Novel zinc plating process. 3,758,386, 9-11-73, Cl. 204-55.000.

Chan, David Cheong King, to Chevron Research Company. O or S aryl-N,N,N hexaalkyl phosphonium salts and their method of preparation. 3,755,510, 8-28-73, Cl. 260-959.000.

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Chan, Kingsley; and Buck, Willard E., to Spectrotherm Corporation. Rotating polygon mirror assembly with an interior motor. 3,772,464, 11-13-73, Cl. 178-7.600.

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Chana, Howard E.; Rado, Joseph; and White, Harold D., to General Motors Corporation. Intake manifold for exhaust gas recirculation. 3,717,131, 2-20-73, Cl. 123-52.0mv.

Chana, Howard E. Automatic transmission and controls. 3,752,009, 8-14-73, Cl. 74-645.000.

Chana, Howard E., to General Motors Corporation. Hydrodynamic unit with friction clutch. 3,777,863, 12-11-73, Cl. 192-3.330.

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Chance, Leon H.; and Moreau, Jerry P., to United States of America, Agriculture. Organo-phosphorus compounds containing perfluoroalkyl radicals and their application to cellulosic textiles. 3,719,448, 3-6-73, Cl. 8-116.00p.

Chance, Leon H.; and Moreau, Jerry P., to United States of America, Agriculture. Perfluoroalkyl phosphonates. 3,763,282, 10-2-73, Cl. 260-932.000.

Chancellor, Charles W. Salt impregnated device for containers. 3,740,239, 6-19-73, Cl. 99-171.00b.

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Chandler, Benson. Press for a wooden truss. 3,709,762, 1-9-73, Cl. 156-580.000.

Chandler, David Horace, to Marconi Company, Limited, The. Method of making printed circuit coil. 3,754,322, 8-28-73, Cl. 29-625.000.

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Chandler, Jasper S., to Eastman Kodak Company. Modular structure for viewing apparatus. 3,781,102, 12-25-73, Cl. 353-26.000.

Chandler, Robert B., to Kilpatrick & Company. Air conditioning system with variable primary air volume terminal and method of operation therefor. 3,720,258, 3-13-73, Cl. 165-2.000.

Chandler, Robert F., Jr., to General Electric Company. Solid state circuits for and method of simulating relay logic. 3,774,051, 11-20-73, Cl. 307-203.000.

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Chandler, Roy L., to Red Ant Products, Inc. Cycle carrier. 3,760,965, 9-25-73, Cl. 214-450.000.

Chandler, William Bruce; and Foster, George Hails, Jr., to AMP Incorporated. Modular electrical junction and interconnection means with supporting means for terminal blocks. 3,777,223, 12-4-73, Cl. 317-118.000.

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Chandos, Laurence R., to Frank, G. B., Incorporated. Inflatable display banner. 3,729,847, 5-1-73, Cl. 40-125.00f.

Chandra, Grish; Owen, William John; Lloyd, Norman Cecil; and Cooper, Bryan Ewart, to Midland Silicones Limited. Organosilicon compounds. 3,714,118, 1-30-73, Cl. 260-46.5ua.

Chandra, Grish; Owen, William John; Lloyd, Norman Cecil; and Cooper, Bryan Ewart, to Midland Silicones Limited. Organosilicon compounds. 3,758,541, 9-11-73, Cl. 260-448.20q.

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Chandrasekaran, Swayambu; and Mueller, Max B., to Allied Chemical Corporation. Fluorine-containing copolymer compositions and method for their preparation. 3,720,655, 3-13-73, Cl. 260-87.50b.

Chandre, Arthur J.; and Moericke, Dieter, to Rex Chainbelt Inc. Rail anchor applicator. 3,722,422, 3-27-73, Cl. 104-17.00a.

Chandronnait, Alfred J. Axonometeric drawing aid. 3,711,953, 1-23-73, Cl. 33-77.000.

Chandross, Edwin Arthur; Tomlinson, Walter John, III; Ulrich, Reinhard; and Weber, Heinz Paul, to Bell Telephone Laboratories, Incorporated. Embossing techniques for producing integrated optical circuits. 3,767,445, 10-23-73, Cl. 117-8.000.

Chandross, Edwin Arthur; and Shanrorf, Theodore Arthur, to Bell Telephone Laboratories, Incorporated. Fabrication of thin film devices. 3,772,104, 11-13-73, Cl. 156-18.000.

Chaney, Arlen L., to Omark Industries, Inc. Ammunition packaging. 3,756,387, 9-4-73, Cl. 206-3.000.

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Chaney, Donal W., to Harsco Corporation. Stationary refuse packer and associated container apparatus. 3,721,182, 3-20-73, Cl. 100-35.000.

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Chaney, Harry M., to Corning Glass Works. Digital stroke character generator. 3,713,134, 1-23-73, Cl. 340-324.00a.

Chaney, Preston E.; and Rhodes, Charles F., Jr., to Sun Oil Company. Telemetering system for rotating body. 3,719,935, 3-6-73, Cl. 340-206.000.

Chaney, Robert; and Kelly, Michael A., to Hewlett-Packard Company. Analyzer employing magneto-optic rotation. 3,740,151, 6-19-73, Cl. 356-117.000.

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Chang, Catherine Teh-Lin, to Du Pont de Nemours, E. I., and Company. Photopolymerizable compositions containing cyclic cis-a-dicarbonyl compounds and selected sensitizers. 3,756,827, 9-4-73, Cl. 96-86.00p.

Chang, Charles H., to GAF Corporation. Anthraquinone dyes containing N-methylenelactam. 3,758,505, 9-11-73, Cl. 260-326.50c.

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Chang, Clarence D.; Naro, Paul A.; and Silvestri, Anthony J., to Mobil Oil Corporation. Catalyst for the demetalation of a hydrocarbon charge stock. 3,772,185, 11-13-73, Cl. 208-251.00h.

Chang, Edward H., to Fremont Industries, Inc. Phosphate-free detergents. 3,749,675, 7-31-73, Cl. 252-135.000.

Chang, Henry M., to First Dynamics, Inc. Combination food container and implement for extracting the contents. 3,722,779, 3-27-73, Cl. 229-1.50c.

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Chang, Hoy Ying, to Burroughs Corporation. Method and apparatus for synchronizing a dynamic recirculating shift register with asynchronously rotating memories. 3,750,104, 7-31-73, Cl. 340-172.500.

Chang, Hsu, to International Business Machines Corporation. Sensing of cylindrical magnetic domains. 3,720,928, 3-13-73, Cl. 340-174.0tf.

Chang, Hsu, to International Business Machines Corporation. Magnetic means for collapsing and splitting of cylindrical domains. 3,727,197, 4-10-73, Cl. 340-174.0tf.

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Chang, Joseph J.: *See—*
Agusta, Benjamin; and Chang, Joseph J., 3,740,620.

Chang, Joseph J. F.; and Vora, Madhukar B. Shallow junction semiconductor devices. 3,778,687, 12-11-73, Cl. 317-235.00r.

Chang, Kyung Taik, to Korea Institute of Science and Technology. Explosive cladding on geometrically non-uniform metal material. 3,728,780, 4-24-73, Cl. 29-470.100.

Chang, Leo S.: *See—*
Bettiga, Albert C.; and Chang, Leo S., 3,731,146.

Chang, Leo S., to International Business Machines Corporation. Surface for impression development in electrophotography. 3,754,963, 8-28-73, Cl. 117-17.500.

Chang, Marguerite S.; and Lowe, James U., Jr., to United States of America, Navy. Temperature resistant propellants containing cylotetramethylenetetranitramine. 3,756,874, 9-4-73, Cl. 149-19.000.

Chang, Milton M. T.: *See—*
McCrickered, John T.; and Chang, Milton M. T., 3,723,010.

Chang, Nuke Ming: *See—*
Foy, Fred P., Jr.; and Chang, Nuke Ming, 3,752,966.

Chang, Pei Tsing: *See—*
MacHenry, Richard; and Chang, Pei Tsing, 3,779,704.

Chang, Richard S.: *See—*
Bosley, Denis V.; and Chang, Richard S., 3,777,420.

Chang, Richard S., to Mattel, Inc. Helicopter toy. 3,740,032, 6-19-73, Cl. 272-31.00b.

Chang, Richard S., to Mattel, Inc. Control means for stunt vehicles. 3,743,279, 7-3-73, Cl. 272-31.00a.

Chang, Richard S.; Staats, William A.; Bosley, Denis V.; and Yamasaki, Toshio, to Mattel, Inc. Impact-damage-resistant, propeller-driven toy. 3,757,461, 9-11-73, Cl. 46-243.0av.

Chang, Richard S., to Mattel, Inc. Flyable toy aircraft with Jettisonable battery pack. 3,777,395, 12-11-73, Cl. 46-243.0av.

Chang, Robert C. C.: *See—*
Bachofer, Henry L.; and Chang, Robert C. C., 3,735,224.

Chang, Robert C. C., to Sun Oil Company of Pennsylvania. Fluid manifolding arrangement. 3,765,441, 10-16-73, Cl. 137-271.000.

Chang, Robert Wu-Lin, to Bell Telephone Laboratories, Incorporated. Joint initial setting of attenuator coefficients and sampling time in automatic equalizers for synchronous data transmission systems. 3,715,665, 2-6-73, Cl. 325-42.000.

Chang, Shih-Chieh. Calendar for mounting on watch band. 3,736,681, 6-5-73, Cl. 40-109.000.

Chang, Stephen S.; and May, William A. Compositions useful for imparting a deep fat fried aroma and flavor to foods. 3,767,427, 10-23-73, Cl. 426-175.000.

Chang, Thomas M. S., to Research Corporation. Blood compatible microencapsulated detoxicants and method for making. 3,725,113, 4-3-73, Cl. 117-82.000.

Chang, Tom C., to Cam-Stat Incorporated. Time interlock for air conditioning compressor and the like. 3,774,082, 11-20-73, Cl. 317-141.00s.

Chang, Wen H., to International Business Machines Corporation. Charge transfer logic device. 3,777,186, 12-4-73, Cl. 307-304.000.

Chang, Wen-Hsuan; Dowbenko, Rostyslaw; and Makhlouf, Joseph M., to PPG Industries, Inc. Polyester powder coating compositions. 3,759,854, 9-18-73, Cl. 260-21.000.

Chang, Wen-Hsuan; Dowbenko, Rostyslaw; and Anderson, Carl C., to PPG Industries, Inc. Polymerizable phosphorus-containing monomers prepared by reacting an aldehyde, an unsaturated amide and trialkyl phosphites. 3,763,108, 10-2-73, Cl. 260-72.00r.

Chang, Wen-Hsuan; and Kaman, Andrew J., to PPG Industries, Inc. Transparent, impact-resistant poly(carbonate-urethane) laminates. 3,764,457, 10-9-73, Cl. 161-183.000.

Chang, Yi Han; Evanega, George R.; and McLamore, William M., to Pfizer Inc. N-Secondary alkyl alkanediamines and derivatives thereof as anti-inflammatory agents. 3,729,564, 4-24-73, Cl. 424-325.000.

Chang, Yun F.: *See—*
Labana, Santokh S.; and Chang, Yun F., 3,770,848.

Chang, Yun Feng: *See—*
Labana, Santokh S.; and Chang, Yun Feng, 3,714,120.
Labana, Santokh S.; Chang, Yun Feng; and Theodore, Ares N., 3,758,635.
Labana, Santokh S.; and Chang, Yun Feng, 3,781,380.

Chang, Yun Ger, to Reichhold Chemicals, Inc. Certain peroxy-containing 2-oxo-tetrahydrofurans. 3,755,369, 8-28-73, Cl. 260-343.300.

Chang, Yun Ger; and Bailey, Philip S., to Reichhold Chemicals, Inc. Organic peroxides and method therefor. 3,755,454, 8-28-73, Cl. 260-590.000.

Chang, Yun Ger, to Reichhold Chemicals Inc. Difunctional beta-hydroxy peresters and method of making same. 3,755,465, 8-28-73, Cl. 260-610.00d.

Changnon, Donald H., to U.S. Research & Development Corporation. Individual identification device. 3,732,640, 5-15-73, Cl. 40-2.200.

Chann, Geroge B. Convertible fishing reel. 3,727,857, 4-17-73, Cl. 242-84.20b.

Channell, Andrew Willis; Shikasho, Satoru; and Sommer, Gilbert Robert, to International Telephone and Telegraph Corporation. Zone control valves. 3,709,431, 1-9-73, Cl. 236-68.00r.

Channell, William H. Connecting block and housing for use in underground residental power distribution. 3,710,003, 1-9-73, Cl. 174-37.000.

Channin, Donald Jones; and Hammer, Jacob Meyer, to RCA Corporation. Unitized internally-modulated gas laser. 3,736,525, 5-29-73, Cl. 331-94.500.

Channing, Harry M.; and Elzer, Bernard J., to General Battery Corporation. Composite label and battery package. 3,767,038, 10-23-73, Cl. 206-46.0ba.

Chant, Albert H., Jr., to Dove, J. B., Inc. Film straightener apparatus for wrapping articles in stretchable film. 3,748,825, 7-31-73, Cl. 53-379.000.

Chant, Peter R., to Shell Oil Company. Apparatus for mineral-finned foam production. 3,776,702, 12-4-73, Cl. 23-284.000.

Chanzit, Lawrence: *See—*
Botwin, Leo; Chanzit, Lawrence; and Ruttenberg, Kenneth A., 3,728,727.

Chanzit, Lawrence; Green, Herbert; and Morgan, Huw C., to United Aircraft Corporation. Obstacle detection with crossed fan beam. 3,713,147, 1-23-73, Cl. 343-7.00a.

Chao, Chester C.; Lange, Lawrence K.; Lindbloom, Eric; and Savkar, Anil D., to International Business Machines Corporation. Fault simulation system for determining the testability of a nonlinear integrated circuit by an electrical signal test pattern. 3,75,598, 11-27-73, Cl. 235-153.0ac.

Chao, Henry H.; and Horner, Michael G., to Consolidated Papers, Inc. Adaptive controller having optimal filtering. 3,767,900, 10-23-73, Cl. 235-151.100.

Chao, Hung-Chi, to United States Steel Corporation. Method of converting metal powder into bar stock. 3,708,284, 1-2-73, Cl. 75-208.0cs.

Chao, Hung-Chi. Apparatus for producing metal powder. 3,744,944, 7-10-73, Cl. 425-7.000.

Chao, Junn-Ling; Wicks, Moye, III; and Pounds, Thomas W., to Shell Oil Company. Method and apparatus for measuring slurry concentration and velocity distribution in a slurry pipeline. 3,729,987, 5-1-73, Cl. 73-61.00r.

Chao, Kwei C.: *See—*
Akin, Cavit; and Chao, Kwei C., 3,775,393.

Chao, Stanley K., to Data Electronics Corporation. Ring core keyboard entry device. 3,740,745, 6-19-73, Cl. 340-365.00e.

Chao, Tay S.: *See—*
Turnquest, Byron W.; Chao, Tay S.; and Broman, Victor E., 3,775,321.

Chao, William P., to National Cash Register Company, The. Off-line process for laminating magnetic tape to tab stock. 3,746,606, 7-17-73, Cl. 161-251.000.

Chapelle, Walter E.: *See—*
Helava, Uuno V.; Chapelle, Walter E.; and Hornbuckle, John A., 3,726,591.

Chapin, Jay C., to Ventron Instruments Corporation, Scientific Chemicals Division. Fireproofing composition for cellulosic materials. 3,754,982, 8-28-73, Cl. 117-137.000.

Chapin, John S.: *See—*
Wright, Robert J.; Chapin, John S.; Mah, George; and Karstendiek, Claude A., 3,709,809.

Chapin, Leo N.: *See—*
Bach, Frederick O.; Chapin, Leo N.; Freed, Robert; and Cernoch, Thomas J., 3,717,463.

Chapin, Leo N.; and Freed, Robert, to Dick, A. B., Company. Electrophotographic multicolor copy process employing solubilizable dyes. 3,728,112, 4-17-73, Cl. 96-1.200.

Chapin, Leo N., to Dick, A. B., Company. Method for transferring a dye image and electrophotographic copy process embodying same. 3,754,907, 8-28-73, Cl. 96-1.400.

Chapkovich, John Steven, Jr.; and Lee, David Ernest, to United Aircraft Corporation. Universally movable mounting mechanism with locking and unlocking provisions and wherein the unlocking provisions are operable in accordance. 3,721,415, 3-20-73, Cl. 248-24.000.

Chaplin, Charles J.: *See—*
Bixler, Kenneth D.; Chaplin, Charles J.; Reifers, Richard F.; and Peppler, William S., 3,708,084.





Chaplow, Richard A.; and Hodgman, Ronald A., to General Foods Limited. Method of removing undesirable solids from coffee extract. 3,765,910, 10-16-73, Cl. 426-384.000.

Chaplygin, Igor Jurievich; Mitjushin, Dmitry Nikolaevich; Zapolnov, Dmitry Petrovich; Karamzina, Natalia Nikolaenva; Lebedeva, Valentina Grigorievna; and Lomagina, Irina Mikhailovna. Centrifugal suspension pump. 3,741,531, 6-26-73, Cl. 259-96.000.

Chapman & Miller Architects: *See—*
Chapman, Grosvenor, 3,736,708.

Chapman, Arthur S., to Hughes Aircraft Company. Balanced tiltable, rotating mirror with its optical axis angularly offset from its axis of rotation. 3,733,133, 5-15-73, Cl. 356-152.000.

Chapman, Arthur S., to Hughes Aircraft Company. Vernier azimuth gimbal suspension system. 3,761,163, 9-25-73, Cl. 350-301.000.

Chapman, Bobby J.; and Vollmer, Joseph F., said Chapman assor. to said Vollmer, Joseph F. Aircraft loading passageway with elevatable canopy. 3,711,881, 1-23-73, Cl. 14-71.000.

Chapman, Carl P.: *See—*
United States of America, National Aeronautics and Space Administration, 3,713,987.
United States of America, National Aeronautics and Space Administration, 3,740,725.

Chapman, Charles C., to Phillips Petroleum Company. Apparatus for increasing quality and quantity of product from an existing chemical apparatus operation. 3,716,343, 2-13-73, Cl. 23-285.000.

Chapman, Charles C.; Cannady, William P.; and Van Pool, Joe, to Phillips Petroleum Company. Purification of HF catalyst in alkylation process. 3,721,720, 3-20-73, Cl. 260-683.480.

Chapman, Charles C., to Phillips Petroleum Company. Condensing fractionator sidestream vapor as reboiler heat source. 3,763,022, 10-2-73, Cl. 203-25.000.

Chapman, Charles C., to Phillips Petroleum Company. Method for removing alkyl fluoride from an alkylation admixture in a riser-reaction zone. 3,763,264, 10-2-73, Cl. 260-683.420.

Chapman, Charles C., to Phillips Petroleum Company. Treatment of propane in HF alkylation with purified HF. 3,767,727, 10-23-73, Cl. 260-683.480.

Chapman Chemical Company: *See—*
Nagel, Fritz J., 3,727,889.

Chapman, Clarke: *See—*
Woodall, Alan; and Honey, Chesleigh Brian, 3,717,295.

Chapman, Dennis R.; and Paterson, William Crawford, to Courtaulds Limited. Electrolytic treatment of filamentary carbon material. 3,759,805, 9-18-73, Cl. 204-130.000.

Chapman, Derek D., to Eastman Kodak Company. Novel cyanine dyes derived from 1,2-diphenylindoles. 3,767,651, 10-23-73, Cl. 260-240.00e.

Chapman, Duane K.; Newman, John W.; and Green, William S., to Ashland Oil Inc. Methylation process. 3,718,704, 2-27-73, Cl. 260-671.00m.

Chapman, Frederic Frank, to Hawker Siddeley Canada Ltd. Sawing and chipping machine. 3,780,778, 12-25-73, Cl. 144-39.000.

Chapman, George, Jr., to Johnson & Johnson. Covering for a seed or plant bed. 3,769,747, 11-6-73, Cl. 47-31.000.

Chapman, Grosvenor, to Chapman & Miller Architects. Collapsible roof for preassembled building. 3,736,708, 6-5-73, Cl. 52-92.000.

Chapman, Harlow M. Apparatus and method for cleaning gaseous fluids. 3,727,377, 4-17-73, Cl. 55-89.000.

Chapman, Harold Sherman. Primary transfer sub for dual concentric drillpipe. 3,747,698, 7-24-73, Cl. 175-92.000.

Chapman, Harvey W., to Evans Products Company. Shipping system. 3,750,595, 8-7-73, Cl. 105-376.000.

Chapman, Howard R. Rotary engine. 3,743,451, 7-3-73, Cl. 418-61.000.

Chapman Industries Inc.: *See—*
MacDonald, John A., 3,723,234.

Chapman, James D. Laser football first down measuring device. 3,752,588, 8-14-73, Cl. 356-152.000.

Chapman, James R.; Baker, Charles; and Gentry, Hermond G., to Mead Corporation, The. Package and method of forming. 3,712,464, 1-23-73, Cl. 206-65.00s.

Chapman, James R., to Mead Corporation, The. Shrink film package and stabilizing device therefor. 3,747,750, 7-24-73, Cl. 206-65.00s.

Chapman, James Ronald: *See—*
Benson, Robert W.; Chapman, James Ronald; Reed, Robert G.; and Smith, Hoyt L., 3,776,542.

Chapman, John H.; and Staniforth, Susan E., to Glaxo Laboratories Limited. Crystalline complex of cephaloridine with an alkane diol. 3,708,478, 1-2-73, Cl. 260-243.00c.

Chapman, John L., to Bourns, Inc. Process and apparatus for removing undesired windings from wirewound elements. 3,777,109, 12-4-73, Cl. 219-85.000.

Chapman, Joseph E., III, to Schlumberger Technology Corporation. Well logging methods and apparatus. 3,724,589, 4-3-73, Cl. 181-.5bi.

Chapman, Kenneth George: *See—*
Chapman, Paul Fraser, 3,742,210.

Chapman, Leonard A., to Eagle Machine Company Limited. Tobacco harvester. 3,744,224, 7-10-73, Cl. 56-27.500.

Chapman, Leonard A., to Eagle Machine Company, Limited. Tobacco harvester. 3,754,387, 8-28-73, Cl. 56-27.500.

Chapman, Leonard A., to Eagle Machine Company, Limited. Tobacco harvester. 3,780,507, 12-25-73, Cl. 56-27.500.

Chapman, Paul Fraser, to Chapman, Kenneth George. Collapsible lamp shade. 3,742,210, 6-26-73, Cl. 240-108.00r.

Chapman, Paul G., to Arsco Paint Rollers, Inc. Paint roller and bearing assembly. 3,711,887, 1-23-73, Cl. 15-230.110.

Chapman, Paul W., to Honeywell Inc. KTA03 Ultraviolet detector. 3,717,799, 2-20-73, Cl. 317-234.00r.

Chapman, Peter Frederick, to Elliott Brothers (London) Limited. Terminal interconnections. 3,729,698, 4-24-73, Cl. 339-18.00r.

Chapman, Richard D., to Monsanto Company. Method for producing high tenacity-66 filaments. 3,716,611, 2-13-73, Cl. 264-290.00n.

Chapman, Richard D. Food carrying paper box. 3,747,832, 7-24-73, Cl. 229-31.00r.

Chapman, Ronald H.: *See—*
Brocker, John R.; Chapman, Ronald H.; Jacobs, Paul; Johnson, Ronald C.; Powell, Jerry R.; and Peay, Robert L., 3,766,523.

Chapman, Ronald W., to Shell Oil Company. Mechanically oriented perforating system. 3,730,282, 5-1-73, Cl. 175-4.510.

Chapman, Steven J., to Warwick Electronics, Inc. Pincushion distortion correction circuit. 3,781,590, 12-25-73, Cl. 315-27.0sr.

Chapman, Thomas Henry, to Gunson's Sortex Limited. Optical unit for use in a light-sensitive sorting machine. 3,710,099, 1-9-73, Cl. 240-51.11r.

Chapman, Walter Harry: *See—*
Watts, Raymond K.; and Chapman, Walter Harry, 3,758,050.

Chapman, Wood, & Griswold, Ltd.: *See—*
Tisdel, Lawrence C.; and Scott, Harry B., 3,762,880.

Chapp, John P., to Monsanto Company. Herbicidal compositions and methods. 3,723,087, 3-27-73, Cl. 71-92.000.

Chappel, Gilford A., to Esso Research and Engineering Company. Process for hydrogenating unsaturated hydrocarbons by use of small amounts of oxygen. 3,763,268, 10-2-73, Cl. 260-683.900.

Chappelle, Emmett W.: *See—*
Kelbaugh, Burton N.; Picciolo, Grace L.; Chappelle, Emmett W.; and Colburn, Maurice E., 3,756,920.

Chappelle, Emmett W.; and Rich, Edward, Jr., to United States of America, National Aeronautics and Space Administration. Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves. 3,745,089, 7-10-73, Cl. 195-66.00r.

Chappelle, Emmett W.; and Picciolo, Grace L., to United States of America, National Aeronautics and Space Administration. Method of detecting and counting bacteria in body fluids. 3,745,090, 7-10-73, Cl. 195-103.50r.

Chappelle, James H., to International Paper Company. Meter for measuring brightness of bleached fibers and controlling the bleaching process. 3,729,375, 4-24-73, Cl. 162-252.000.

Chappelow, Cecil C., Jr.; and Engel, James F., to Kerr-McGee Corporation. Fluorinated beta-diketones. 3,742,062, 6-26-73, Cl. 260-592.000.

Chapuis, Alain: *See—*
Blanc, Remy; Chapuis, Alain; and Gagne, Pierre, 3,710,601.

Chapuis, Marcel, to Stanadyne, Inc. Fuel injector. 3,722,801, 3-27-73, Cl. 239-533.000.

Chapuis, Robert, to Etablissements Ruby. Sanitary napkin having compressed core. 3,771,525, 11-13-73, Cl. 128-290.00r.

Chaput, Victor B., 1/2 to Simoneau, Alex. Pocketed gear differential. 3,779,101, 12-18-73, Cl. 74-711.000.

Character Recognition Corporation, mesne: *See—*
Hemstreet, Harold S., 3,713,099.
Hemstreet, Harold S., 3,713,100.

Charamel, Pierre; and Ligones, Hubert, to Merlin Gerin, Societe Anonyme. Vehicle current collector balanced support. 3,712,430, 1-23-73, Cl. 191-45.00r.

Charamel, Pierre, to Gerin, Merlin. Electric current collecting system. 3,760,128, 9-18-73, Cl. 191-49.000.

Charamel, Pierre, to Merlin Gerin, Societe Anonyme. Polyphase current collecting device for a vehicle moving along a trackway. 3,763,336, 10-2-73, Cl. 191-49.000.

Charavel, Bernard, to Produits Chimiques Pechiney-Saint-Gobain. Process for the preparation of methyl vinyl ketone and 2,5-dihydrofuran. 3,737,441, 6-5-73, Cl. 260-346.10r.

Charboneau, Ben J., to Sno-Start, Inc. Series type solid state voltage regulator which provides constant voltage to a storage device. 3,781,632, 12-25-73, Cl. 320-39.000.

Charbonnages de France: *See—*
Courbon, Paul, 3,765,155.
Saillard, Pierre, 3,743,937.

Charbonneau, Fernand Armand, to JWI Ltd. Wear resistant outsert for a paper machine foil. 3,778,342, 12-11-73, Cl. 162-352.000.

Charbonnier, Jean-Claude: *See—*
Tannenberger, Helmut; and Charbonnier, Jean-Claude, 3,730,771.

Charbonnier, Jean-Claude; and Tannenberger, Helmut, to Battelle Memorial Institute. Electric accumulator with beta alumina separator and electrolyte consisting of a salt in an organic solvent. 3,773,558, 11-20-73, Cl. 136-6.01n.

Charbonnier, Roger, to Adret-Electronique. Active frequency meter. 3,753,100, 8-14-73, Cl. 324-78.00d.

Charcharos, Anthreas Nicholas, to British Nuclear Design & Construction Limited. Support arrangement. 3,718,353, 2-27-73, Cl. 287-20.300.

Charcharos, Anthreas Nicholas; and Williamson, Clifford, to British Nuclear Design & Construction Limited. Boiler systems of the water tube type. 3,719,172, 3-6-73, Cl. 122-7.00r.

Charcharos, Anthreas Nicholas, to British Nuclear Design & Construction Limited. Nuclear reactor boiler system. 3,775,248, 11-27-73, Cl. 176-65.000.

Chardon, Felix A. Electromagnetic indicator having rotating sphere. 3,772,686, 11-13-73, Cl. 340-373.00r.

Charest, Bernard: *See—*
Blore, William E.; Zivanovic, Srbislav V.; and Charest, Bernard, 3,735,146.
Blore, William E.; Zivanovic, Srbislav; and Charest, Bernard, 3,764,830.

Charewicz, Francis J.; Steele, Eugene K.; and Nichols, Frank S., to General Electric Company. Method of making a sealing gasket. 3,714,318, 1-30-73, Cl. 264-236.000.

Charewicz, Francis J., to General Electric Company. Low voltage secondary lightning arrester sparkgap assembly. 3,723,819, 3-27-73, Cl. 317-61.000.

Chargematic, Inc.: *See—*
Potts, Vernon C., 3,775,660.

Charhut, Frank J., to Chicago-Allis Mfg. Corporation. Shaft seal for use in washing machines. 3,710,947, 1-16-73, Cl. 210-380.000.

Charipar, Joseph: *See—*
Everett, Thorald E. Montague; and Charipar, Joseph, 3,728,954.

Charle, Roger; Kalopissis, Gregoire; and Zviak, Charles, to Societe Anonyme dite: L'Oreal. Aerosol stain-removing composition. 3,714,049, 1-30-73, Cl. 252-90.000.

Charle, Roger; Aviak, Charles; and Kalopissis, Gregoire, to Societe Anonyme dite: L'Oreal. Cosmetic composition containing microencapsulated solvents for nail enamel. 3,729,569, 4-24-73, Cl. 424-14.000.

Charle, Roger; Kalopissis, Gregoire; Viout, Andrio; Aretos, Constantin; and Gascon, Jean, to Societe Anonyme dite: L'Oreal. Wool or hair treated with methacrylic anhydride or itaconic anhydride copolymerized with maleic anhydride and after treated with meraptoethylamine and propylene diamine or butyl amine. 3,762,863, 10-2-73, Cl. 8-127.510.

Charles, Alfred: *See—*
Lown, Ellsworth H., 3,744,289.

Charles, Daniel R., to Thomson-CSF. Flat cathode-ray tube for direct viewing spot display. 3,723,786, 3-27-73, Cl. 313-70.00r.

Charles, Donald; Hartsough, Albert Charles; and Sanford, Robert Fenches, to Princeton Electro Dynamics, Inc. Controllable electrical switch. 3,767,924, 10-23-73, Cl. 250-209.000.

Charles, Glen W.: *See—*
Crookston, James A.; and Charles, Glen W., 3,718,489.

Charles, Herbert N., to Fram Corporation. Thermal modulation of air supply system in automotive vehicle. 3,744,716, 7-10-73, Cl. 236-87.000.

Charles, James; and Akens, Robert L., to J.P.C., Inc. Energy absorbing highway guardrail. 3,776,520, 12-4-73, Cl. 256-13.100.

Charles, James A., to Dana Corporation. Switch having a pair of manually movable actuating elements. 3,761,662, 9-25-73, Cl. 200-153.00d.

Charles, James Anthony: *See—*
Shelley, Thomas Richard; and Charles, James Anthony, 3,728,241.

Charles, Joseph T. Mobile home telephone terminal system. 3,769,460, 10-30-73, Cl. 179-1.0ve.

Charles Machine Works, Inc., The: *See—*
Hall, Larry E.; Branen, Leonard A.; and Moore, Glen F., 3,746,100.
Schuermann, Kenneth W., 3,757,642.

Charles, Ray E. Solid waste compactor operable on low pressure fluid. 3,752,066, 8-14-73, Cl. 100-192.000.

Charles Supper Company: *See—*
Thomas, Roy L., Jr., 3,723,006.

Charlesworth, Donald, to Pilkington Brothers Limited. Electrode assemblies. 3,740,445, 6-19-73, Cl. 13-6.000.

Charlesworth, Eric, to Jenkins, Robert, & Company Limited. Welding of tubes to tube plates. 3,769,489, 10-30-73, Cl. 219-125.00r.

Charlesworth, Robert L., to Owens-Illinois, Inc. Photochromic material regeneration package. 3,777,390, 12-11-73, Cl. 46-1.001.

Charlich, Nicholas: *See—*
Weidner, Urban A.; and Charlich, Nicholas, 3,710,403.

Charlot, Lincoln H., Jr., to Minnesota Mining and Manufacturing Company. Radar detector. 3,716,854, 2-13-73, Cl. 343-5.0pd.

Charlot, Lincoln H., Jr., to Minnesota Mining and Manufacturing Company. Electrical detecting means. 3,731,307, 5-1-73, Cl. 343-7.5.

Charlson, Robert J.: *See—*
Ahlquist, Norman C.; and Charlson, Robert J., 3,719,810.

Charlton, Donald A.; and Clark, William P. Microstrip ferrite phase shifters having line segment varying in length in accordance with preselected phase shift characteristic. 3,753,162, 8-14-73, Cl. 333-24.100.

Charlton, Gregory G., to International Telephone and Telegraph Corporation. Wide-angle planar-beam, antenna adapted for conventional or doppler scan using curved arrays. 3,774,222, 11-20-73, Cl. 343-771.000.

Charlton, Gregory G., to International Telephone and Telegraph Corporation. Wide-angle planar-beam antenna adapted for conventional or doppler scan using laterally flared reflector. 3,781,897, 12-25-73, Cl. 343-836.000.

Charlton, Jaehn B. Exhaust pollution control system. 3,712,029, 1-23-73, Cl. 55-100.000.

Charlton, John: *See—*
Bizzigotti, Pio J.; and Charlton, John, 3,768,098.

Charlton, William D. Trailer hitch. 3,779,653, 12-18-73, Cl. 403-3.000.

Charms, Bernard L. Method of defibrillating a malfunctioning heart by means of electrodes located within the atrium. 3,738,370, 6-12-73, Cl. 128-419.00d.

Charney, Andrew. Conveyorized farming system. 3,771,258, 11-13-73, Cl. 47-1.200.

Charnley, Christopher John: *See—*
Brychta, Ondrej; and Charnley, Christopher John, 3,768,521.

Charnley, John, to Thackray, Chas. F., Limited. Acetabular sockets. 3,722,002, 3-27-73, Cl. 3-1.000.

Charogoff, Clarence: *See—*
Budzinski, David A.; Sorkin, Jack L.; and Charogoff, Clarence, 3,760,724.

Charon, Clarence W.: *See—*
Renaud, Laurent C.; and Charon, Clarence W., 3,749,638.

Charpentier, Robert R., to High Voltage Engineering Corporation. Resistor assembly. 3,757,152, 9-4-73, Cl. 313-63.000.

Charpentier, Robert R. Insulating ring for particle accelerator tubes and acceleration tube including the same. 3,764,838, 10-9-73, Cl. 313-63.000.

Charrier, Paul Jean Raymond; and Costedoat, George Gilbert, to Etat Francais represente Bar le Ministre Charge de la Defense National Delegation Ministerielle pour l'Armement. Electric arc cutting apparatus. 3,728,513, 4-17-73, Cl. 219-70.000.

Charron, Charles S.: *See—*
Cornford, Arthur S.; and Charron, Charles S., 3,738,506.

Charron, Denny W. Dental apparatus. 3,717,933, 2-27-73, Cl. 32-11.000.

Charron, Dwayne W., to Bangor Punta Operations, Inc. Silencer. 3,713,362, 1-30-73, Cl. 89-14.00d.

Charron, Jean-Claude, to Duval, Saunier. Proportional control valve for gas burners. 3,765,452, 10-16-73, Cl. 137-630.150.

Charron, Louis Donald: *See—*
McLean, John; and Charron, Louis Donald, 3,718,971.

Charron, William W., to Ford Motor Company. Enrichment fuel-air supply system. 3,739,760, 6-19-73, Cl. 123-127.000.

Charron, William W.; Harrison, Robert S.; and Marcum, Harold E., to Ford Motor Company. Vacuum controlled carburetor throttle valve positioner. 3,752,141, 8-14-73, Cl. 123-198.0db.

Charron, William W.; Harrison, Robert S.; and Marcum, Harold E., to Ford Motor Company. Vacuum controlled carburetor throttle valve positioner. 3,752,450, 8-14-73, Cl. 261-39.00r.

Charsky, Mikhail Mikhailovich: *See—*
Rogachev, Boris Vasilievich; Organovsky, Naum Abramovich; Sedelnikov, Ertel Sergeevich; and Charsky, Mikhail Mikhailovich, 3,746,978.

Charter Arms Corporation: *See—*
McClenahan, Douglas S., 3,748,744.

Charter, Wayne M., to Quaker Oats Company, The. Method for making a marbled meat pet food. 3,765,902, 10-16-73, Cl. 426-249.000.

Charters, Thomas H. Pulse generator. 3,731,111, 5-1-73, Cl. 307-106.000.

Chartet, Andre, to Societe Anonyme des Usines Chausson. Process for brazing stainless steel parts to parts of aluminum and aluminum alloys. 3,728,783, 4-24-73, Cl. 29-495.000.

Chartet, Andre, to Societe Anonyme des Usines Chausson. Furnace for the brazing in continue of parts made of aluminum mainly of heat exchangers moved in a continue motion. 3,756,489, 9-4-73, Cl. 228-43.000.

Chartet, Andre, to Societe Anonyme des Usines Chausson. Method for brazing aluminum radiators. 3,769,675, 11-6-73, Cl. 29-157.30r.

Chartet, Andre, to Societe Anonyme des Usines Chausson. Process for manufacturing expanded and corrugated heat exchanger cores from metal strip material. 3,776,015, 12-4-73, Cl. 72-324.000.

Chartier, Richard G.; and Chaffee, Robert C., to Gilmore-Tatge Mfg. Co., Inc. Tailgate auger. 3,717,272, 2-20-73, Cl. 214-503.000.

Charybdis, Inc.: *See—*
Hollister, Donald D., 3,763,392.

Chase, Ascher, to General Foam Plastics Corporation. Slide-in, slide-out play pool. 3,708,807, 1-9-73, Cl. 4-172.000.

Chase, Bernard S.; Frederick, Raymond H.; and Gorglione, Victor T. Stationary backlighted billboard, billboard display panel. 3,768,186, 10-30-73, Cl. 40-125.00k.





Chase, Charles Elroy, Sr., to Tachisto Inc. Line-type generator having an active charging circuit. 3,778,636, 12-11-73, Cl. 307-108.000.

Chase, Charles P., to Beckman Instruments, Inc. Pressure regulator. 3,709,242, 1-9-73, Cl. 137-81.000.

Chase, Charles R.: *See—*
Heisman, Robert M.; Chase, Charles R.; and Weisenberg, Louis A., 3,754,499.

Chase Corporation: *See—*
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Chase, Curtis A., Jr.: *See—*
Coles, Roy D., Jr.; Thomeer, Johannes H. M.; and Chase, Curtis A., Jr., 3,709,032.

Chase, David O.; Maloney, Martin V.; Wood, Frederick J., Jr.; and Wood, Barry B., to Shur-Line Manufacturing Co., Inc. Paint edger. 3,708,821, 1-9-73, Cl. 15-210.00r.

Chase, David O.; Maloney, Martin V.; Wood, Frederick J., Jr.; and Wood, Barry B., to Shur-Line Manufacturing Co., Inc. Paint applicator. 3,717,896, 2-27-73, Cl. 15-210.00r.

Chase, Edward L.: *See—*
Lania, Anthony R.; Chase, Edward L.; Chase, Francis M.; Graham, Leonard P.; and Murray, James E., 3,745,233.

Chase, Francis M.: *See—*
Lania, Anthony R.; Chase, Edward L.; Chase, Francis M.; Graham, Leonard P.; and Murray, James E., 3,745,233.

Chase, Fred L.: *See—*
Brenner, Mannie; Chase, Fred L.; and Leydon, Arthur J., 3,751,525.
Leydon, Arthur J.; Brenner, Mannie; and Chase, Fred L., 3,708,331.

Chase, Harold E., 5/50% to Cox, Marion, 5/50% to Dunigan, Walter C., 5/50% to Parker, Alfred Browning, 4/50% to Golson, Malcolm, 1/20% to McKeown, Robert R. and 1/20% to Preston, Elizabeth. Disposable refrigerated container that can be refilled, reused or eycled. 3,759,060, 9-18-73, Cl. 62-294.000.

Chase, John Donald; and Potter, Robert Louis, to American Cyanamid Company. Submicron metal oxide particles and their process for manufacture. 3,743,708, 7-3-73, Cl. 423-617.000.

Chase, Myron C., to Weatherby/Nasco, Inc. Injection training aid. 3,722,108, 3-27-73, Cl. 35-17.000.

Chase, Raymond Burt. Adherent resin with release surface. 3,725,105, 4-3-73, Cl. 117-2.00r.

Chase, Raymond L. Ski device for wheeled vehicles. 3,774,926, 11-27-73, Cl. 280-13.000.

Chase, Vance A.: *See—*
Copeland, Robert L.; Gamble, Bobby G.; Chase, Vance A.; and Beeler, David R., 3,713,961.
Copeland, Robert L.; Moorefield, Samuel A.; Beeler, David R.; and Chase, Vance A., 3,764,449.

Chase, Vernon Lindsay: *See—*
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Chase, W. M. Company: *See—*
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Chase, W. M., Company, mesne: *See—*
Gottlieb, Arnold J.; and Majesko, George A., 3,765,846.

Chase, W. R., & Co.: *See—*
Leydon, Arthur J.; Brenner, Mannie; and Chase, Fred L., 3,708,331.

Chase, Willis E.; and Plunkett, Bradley J., to Warwick Electronics, Inc. Electronicmusical instrument with phase shift tremulant system. 3,778,525, 12-11-73, Cl. 84-1.250.

Chase-Shawmut Company, The: *See—*
Belcher, Richard A., 3,721,936.
DiMarco, Bernard; Kussy, Frank W.; and Swain, Kenneth W. (said Swain assor. to), 3,781,607.
Jacobs, Philip C., Jr., 3,713,064.
Jacobs, Philip C., Jr., 3,735,317.
Jacobs, Philip C., Jr., 3,766,507.
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Kozacka, Frederick J., 3,721,935.
Kozacka, Frederick J., 3,743,994.
Kozacka, Frederick J.; and Jacobs, Philip C., Jr., 3,748,622.
Swain, Kenneth W. (said Swain assor. to said), 3,764,949.

Chasek, Norman E., to International Microwave Corporation. Process and apparatus for fire fighting by detecting and locating hidden burning material and hot embers behind walls, partitions, and the like. 3,711,845, 1-16-73, Cl. 340-227.000.

Chasek, Norman E., to International Microwave Corporation. Apparatus and system for testing and monitoring receiver equipment, including system capability for continuous in-service performance monitoring. 3,774,113, 11-20-73, Cl. 325-363.000.

Chasen, Lee Richard: *See—*
Dobrjanskyj, Lew; Einhorn, Ruediger; Flagg, Frank D.; and Chasen, Lee Richard, 3,758,920.

Chasin, Mark: *See—*
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Hoehn, Hans; and Chasin, Mark, 3,773,777.

Chastain, George R.: *See—*
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Chateau, Christian: *See—*
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Burkhardt, Max; Huber, Horst; Zeller, Josef K.; Chateau, Christian; and Schmid, Markus, 3,773,103.

Chateau, Frederick D. Eyebrow stencilling method and apparatus. 3,718,145, 2-27-73, Cl. 132-88.500.

Chatelaine-Geneve (Swisse): *See—*
Delatronchetta, Claude; Helion, Raymond; Gunthart, Rene; and Meissner, Andre, 3,766,942.

Chatelon, Andre Edouard Joseph, to International Standard Electric Corporation. Time division multiplex coder. 3,732,376, 5-8-73, Cl. 179-15.0by.

Chatelon, Andre Edouard Joseph; and Regnier, Marc Andre, to International Standard Electric Corporation. Auxiliary circuit for analog to digital coder. 3,739,375, 6-12-73, Cl. 340-347.0cc.

Chatfield, James E., to Canadian Limited. Liquid treatment plant and process, particularly for waste water. 3,779,910, 12-18-73, Cl. 210-49.000.

Chatham Precision, Inc.: *See—*
Dussia, R. Jules, 3,765,448.

Chatillon Societa Anonima Italiana per le Fibre Tessili Artificiali S.p.A.: *See—*
Patron, Luigi; and Console, Luciano, 3,755,278.
Urgesi, Federico; and Rothert, Horst, 3,773,807.

Chatin, Remy, to Moulinage et Retorderie de Chavanoz. Process for producing fancy effect yarns. 3,717,959, 2-27-73, Cl. 57-160.000.

Chatlos, Edward S.; Schroeder, Paul G. K.; and Prinkey, Clarence O., to Chatlos Systems, Inc. Dry air system. 3,715,866, 2-13-73, Cl. 55-179.000.

Chatlos Systems, Inc.: *See—*
Chatlos, Edward S.; Schroeder, Paul G. K.; and Prinkey, Clarence O., 3,715,866.

Chatourel, Pierre: *See—*
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Peltier, Henri; Bailly, Roger; and Chatourel, Pierre, 3,710,848.

Chatourel, Pierre Rene; and Lefebvre, Jean Henri, to Regie Nationale des Usines Renault. Low-pressure chill-casting devices. 3,727,674, 4-17-73, Cl. 164-306.000.

Chatten Chemicals; division of Chattem Drug & Chemical Company: *See—*
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Chatterjea, Probin K.: *See—*
Ruhl, Charles A. L.; Meyer, Edward; and Chatterjea, Probin K., 3,756,030.

Chatterjee, Pronoy K.; and Kwok, Michael C., to Personal Products Company. Water-insoluble fluid-absorptive and retentive materials and methods of making the same. 3,723,413, 3-27-73, Cl. 260-232.000.

Chatterjee, Pronoy Kumar, to Personal Products Company. Fluid absorption and retention products and methods of making the same. 3,731,686, 5-8-73, Cl. 128-285.000.

Chatterji, Arun K.; Custozzo, Marianne; Kiriazides, Demosthenes K.; Russell, John J., Jr.; and Serio, John P., to Xerox Corporation. Electrostatic developer containing modified silicon dioxide particles. 3,720,617, 3-13-73, Cl. 252-62.100.

Chatterji, Jiten: *See—*
Ely, John W.; Chatterji, Jiten; Holtmyer, Marlin D.; and Tinsley, John M., 3,768,566.
Malone, William T.; Holtmyer, Marlin D.; Tinsley, John M.; and Chatterji, Jiten, 3,748,266.
Malone, William T.; Holtmyer, Marlin D.; Tinsley, John M.; and Chatterji, Jiten, 3,758,406.

Chaturvedi, Yogesh Chand. Preparation of methyl-β-phenyl-ethyl-ether. 3,734,970, 5-22-73, Cl. 260-611.00a.

Chaube, Robert Augustin: *See—*
Duthion, Louis; Jacquot, Michel Jules; Amicel, Charles Gustave; Chaube, Robert Augustin; and Jean, Francis Marie, 3,754,617.

Chaud, Andre; Vieira, David Da Costa; Friedling, George; Suzan, Henri; and Vieuxmaire, Claude, to Commissariat a l'Energie Atomique. Device for indicating rapid radioactive contamination. 3,733,488, 5-15-73, Cl. 250-83.30r.

Chauha, Desh D.: *See—*
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Chaulet, Roger Louis; Guichard, Claude Pierre Albert Louis; Menissier, Pierre Lucien; and Soret, Jean-Claude Georges, to Societe Anonyme Societe Industrielle de Combustible Nucleaire. Plant for continuous vacuum casting of metals or other materials. 3,724,29, 4-3-73, Cl. 164-154.000.

Chaumont, Guy-Noel, to Poly-Traction Inc. Snowmobile slide rail suspension. 3,711,164, 1-16-73, Cl. 305-24.000.

Chaumont, Guy-Noel, to Poly-Traction Inc. Track for snowmobile or the like. 3,712,689, 1-23-73, Cl. 305-38.000.

Chaumont, Guy-Noel, to Dayco Corporation, mesne. Track for snowmobile or the like. 3,754,798, 8-28-73, Cl. 305-38.000.

Chaumont, Robert Jean; and Bargeton, Gilbert Louis, to Societe dite: Societe Anonyme de Telecommunications. Process and apparatus for the regeneration of rectangular signals. 3,732,378, 5-8-73, Cl. 179-16.0ea.

Chaupit, Jean, to Compagnie Generale d'Electricite. Semiconductor system redundant control arrangement. 3,723,847, 3-27-73, Cl. 321-27.00r.

Chaussy, Leon: *See—*
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Chauvel, Michel: *See—*
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Chauveton, Charles E.: *See—*
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Chauvette, Robert R., to Lilly, Eli, and Company. Deblocking process for cephalosporin antibiotics. 3,769,281, 10-30-73, Cl. 260-243.00c.

Chauvin, Jacques: *See—*
Lucas, Pierre M.; Sautel, Auguste A.; Chauvin, Jacques; Serezac, Daniel J.; and Cibert, Jack B., 3,767,869.

Chauvin, Yves; and Gaillard, Jean, to Institut Francais du Petrole des Carburants et Lubrifiants. Modified Al-Ni catalyst for dimerizing olefins. 3,728,283, 4-17-73, Cl. 252-429.00b.

Chauvin, Yves, to Institut Francais du Petrole des Carburants et Lubrifiants and Societe Nationale des Petroles d'Aquitaine. Catalyst composition and the process for polymerizing unsaturated hydrocarbons using this composition. 3,736,264, 5-29-73, Cl. 252-29.00r.

Chavanat, Paul; Epsztein, Bernard; and Mourier, Georges, to Thomson-CSF. High frequency circuits for electron tubes and tubes comprising such circuits. 3,742,293, 6-26-73, Cl. 315-39.510.

Chavanoz S.A.: *See—*
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Chavany, Jean-Claude, to Societe Anonyme de Telecommunications. Apparatus to impart a circular translatory to a element such as a modulator element. 3,746,422, 7-17-73, Cl. 350-6.000.

Chavasse, Nicholas H., Jr.; and Withers, James C., to General Technologies Corporation. Low density, high-strength boron on beryllium reinforcement filaments. 3,741,797, 6-26-73, Cl. 117-106.00r.

Chavee, Rene M. J., to Fabrique Nationale d'Armes de Guerre, Societe Anonyme. Device for shooting a projectile. 3,717,946, 2-27-73, Cl. 42-1.00f.

Chaveneaud, Roger M.; and Janoska, Georges, to Societe a Responsabilite Limitee dite: Societe Lamy d'Etudes et de Recherches. Step-by-step driving device. 3,717,232, 2-20-73, Cl. 192-142.00r.

Chaves, Manuel J., to Parking Company of America. Parking lot coin receptacle. 3,716,183, 2-13-73, Cl. 232-1.00r.

Chavet, Itzhak, to State of Israel, Atomic Energy Commission. Control mechanism for the fine positional adjustment of an object. 3,757,962, 9-11-73, Cl. 214-1.0cm.

Chavet, Itzhak, to State of Israel, Atomic Energy Commission. Ion-optical system for mass separation. 3,774,026, 11-20-73, Cl. 250-298.000.

Chay, Dong M.; and Yates, Paul C., to Du Pont de Nemours, E. I., and Company. Flame retardant dispersions. 3,766,065, 10-16-73, Cl. 252-8.100.

Chayamichi, Hiroshi: *See—*
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Chayamiti, Hiroshi: *See—*
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Cheadle, George D.: *See—*
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Cheale, Daniel, to Howard Harvestore Limited. Chain links. 3,757,595, 9-11-73, Cl. 74-245.00c.

Cheale, Leonard Frederick: *See—*
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Cheatham, Burton L., II: *See—*
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Checcaggi, Pier Francesco; and Scheggi, Annamaria, to Consiglio Nazionale Delle Ricerche. Dielectric frame beam waveguide. 3,733,114, 5-15-73, Cl. 350-96.0wg.

Checchetti, Claudio. Table soccer or football game structure. 3,724,851, 4-3-73, Cl. 273-85.00d.

Chechak, Jonas J.: *See—*
Eastman, Donald R.; Chechak, Jonas J.; and Merrill, Stewart H., 3,776,757.

Chechak, Jonas J., to Eastman Kodak Company. Liquid developers containing metal salts of acid dyes. 3,770,638, 11-6-73, Cl. 252-62.100.

Chechak, Jonas J., to Eastman Kodak Company. Process for preparing electrophotographic liquid developing compositions. 3,779,924, 12-18-73, Cl. 252-62.100.

Chechik, Ljudmila Efimovna: *See—*
Logvinenko, Dmitry Danilovich; Chugai, Alexei Dmitrievich; Tsantker, Karl Lazarevich; Chechik, Ljudmila Efimovna; Shelyakov, Oleg Parfirovich; Belonozhko, Alla Mikhailovna; Morozko, Ekaterina Alexandrovna; and Kuzmina, Ljudmila Nikolaevna, 3,774,885.

Check, Donald R.; Ader, Gary B.; and Pauls, Edward A., to Bass Sports, Inc. Method of fitting ski boots. 3,736,612, 6-5-73, Cl. 12-142.00p.

Check, John M.; and Rupert, Gary F., to Raycon Corporation. Multi-electrode electrical discharge machining apparatus. 3,729,609, 4-24-73, Cl. 219-69.00g.

Chedister, Conkling: *See—*
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Cheek, Edward E.; and Sabin, Raymond H., to McDowell-Wellman Engineering Company. Retractable railroad car clamp. 3,777,914, 12-11-73, Cl. 214-55.000.

Cheek, Forrest R.: *See—*
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Annis, Robert E.; and Cheek, Forrest R., 3,734,251.

Cheek, Forrest R., to General Motors Corporation. Constant speed differential fluid clutch. 3,752,280, 8-14-73, Cl. 192-85.0aa.

Cheek, Howard L.; and May, Howard V., to Western Electric Company, Incorporated. Continuity testing apparatus utilizing a plurality of paired resistors. 3,728,616, 4-17-73, Cl. 324-51.000.

Cheema, Zafarullah K.: *See—*
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Cheema, Zafarullah K.; Formaini, Robert L.; and Ulmer, Harry L., to Allied Chemical Corporation. Method for the preparation of 1,2-diaminopropane. 3,737,462, 6-5-73, Cl. 260-583.00p.

Cheers, Ronald M.; and Fisch, Johannes, to Euclid, Inc. Ride cylinder. 3,713,666, 1-30-73, Cl. 280-124.00r.

Cheeseman, James H., to Graphic Controls Corporation. One piece marker body with hermetically sealed removable cap. 3,781,122, 12-25-73, Cl. 401-202.000.

Cheetham, John Norman: *See—*
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Cheever, Leo H.: *See—*
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Chekry, Pavel Semenovich: *See—*
Avilov, Valery Andreevich; Khidekel, Mikhail Lvovich; Eremenko, Olga Nikolaevna; Efimov, Oleg Nikolaevich; Ovcharenko, Alina Grigorievna; and Chekry, Pavel Semenovich, 3,755,194.

Chelette, Francis M.; and Goodwin, Charles G. Apparatus for attaching to the outer of a plurality of tubular members and of cutting through, valving closed, and diverting material flow from all of the tubular members. 3,732,924, 5-15-73, Cl. 166-55.000.

Chelin, Charles R.: *See—*
Allegri, Theodore Henry; Chelin, Charles R.; Evans, Dafydo W.; and Thompson, Norman D., 3,750,814.
Thompson, Norman D.; and Chelin, Charles R., 3,752,346.
Thompson, Norman D.; Chelin, Charles R.; and Liljequist, Lawrence A., 3,773,201.

Chelminski, Stephen V., to Bolt Associates, Inc. Process and system for increasing load-bearing capacity of soil. 3,707,848, 1-2-73, Cl. 61-11.000.

Chelminski, Stephen V., to Bolt Associates, Inc. Automatically self-regulating variable-stroke, variable-rate and quiet-operating pile driver method and system. 3,714,789, 2-6-73, Cl. 61-53.500.

Chelminski, Stephen V., to Bolt Associates, Inc. Controllable force method and system of driving piles. 3,721,095, 3-20-73, Cl. 61-53.500.

Chelminski, Stephen V., to Bolt Associates, Inc. Powerful thruster method and apparatus suitable for driving a member such as an anchor or pile into the earth, and anchoring and pile apparatus. 3,750,609, 8-7-73, Cl. 114-206.00a.

Chelminski, Stephen V., to Bolt Associates, Inc. Confined-liquid seismic exploration methods and systems. 3,779,335, 12-18-73, Cl. 181-.5nc.

Cheltsov, Vasily Mikhailovich: *See—*





Brusakov, Jury Ivanovich; Livshits, Irma Solomonovna; Kiselev, Vasily Pavlovich; Cheltsov, Vasily Mikhailovich; Avdeev, Mikhail Pavlovich; Marin, Semen Panteleevich; Alivoivodich, Miro Khristoforovich; Kulikov, Alexei Kuzmich; Berezhnoi, Ivan Arkhipovich; olpin, Pavel Ilich; Chernyakhovsky, Leonid Vladimirovich; Eltsova, Zoya Vasilievna; Medvedeva, Lidia Nikolaevna; and Kolomitsky, Fedor Mifodievich, 3,775,092.

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Chem Systems, Inc.: *See—*
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Chem-E-Watt Corporation, mesne: *See—*
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Chem.-Nuclear Systems, Inc.: *See—*
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Chem-Therm Mfg. Co.: *See—*
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Chem-y, Fabriek Van Chemische Produkten N.V.: *See—*
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Chemagro Corporation: *See—*
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Aichenegg, Paul C.; and Bain, Larry M., 3,769,340.
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Epstein, Peter F.; Caffrey, Joseph R.; and Yu, Pyung Kyung, 3,748,343.
Newallis, Peter E.; Poje, Albert J.; and Epstein, Peter F., 3,725,030.
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Chemcell Limited: *See—*
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Chemcut Corporation: *See—*
Goffredo, Daniel L.; and Shakley, Conrad Dale, 3,776,800.
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Chen, Charles Y.; Dhaka, Vir A.; and Krolikowski, Walter F., to International Business Machines Corporation. Process for making a integrated circuit with a damping resistor in combination with a buried decoupling capacitor. 3,769,105, 10-30-73, Cl. 148-175000.
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Chen, Ho-Sou; Kwei, Ti Kang; and Wang, Tsuey Tang, to Bell Telephone Laboratories, Incorporated. Process for simultaneously shearing and quenching polymer films. 3,732,349, 5-8-73, Cl. 264-175.000.
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Chen, Nai Yuen; and Yan, Tsoung-Yuan, to Mobil Oil Corporation. Control of hydrocracking process for constant conversion. 3,718,577, 2-27-73, Cl. 208-108.000.
Chen, Nai Yuen, to Mobil Oil Corporation. Hydrocarbon conversion. 3,729,409, 4-24-73, Cl. 208-135.000.
Chen, Nai Yuen, to Mobil Oil Corporation. Selective sorption of less polar molecules with crystalline zeolites of high silica/alumina ratio. 3,732,326, 5-8-73, Cl. 260-676.0ms.
Chen, Nai Yuen; and Garwood, William E., to Mobil Oil Corporation. Lube oils by solvent dewaxing and hydrodewaxing with a ZMS-5 catalyst. 3,755,138, 8-28-73, Cl. 208-33.000.
Chen, Nai Yuen; and Lucki, Stanley J., to Mobil Oil Corporation. Selective catalysis. 3,758,602, 9-11-73, Cl. 260-676.00r.
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Chen, Ying-Ho; and Lunsford, Carl Dalton, to Robins, A. H., Company, Incorporated. 2-[p-Phenylbenzyl] oxazolines. 3,726,893, 4-10-73, Cl. 260-307.00f.
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Cheney, Thomas K.; Patterson, Albert D.; Rondina, Henry E.; and Watts, James A., to North Electric Company. Central processing system having preloader and data handling units external to the processor control unit. 3,727,192, 4-10-73, Cl. 340-172.500.
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Cheng, Sin-I, to Research Corporation. Device for sonic boom reduction and improving aircraft performance. 3,737,119, 6-5-73, Cl. 244-1.00n.
Cheng, Tai Chun; and Halasa, Adel F., to Firestone Tire & Rubber Company, The. Process for the polymerization of conjugated dienes. 3,718,638, 2-27-73, Cl. 260-94.20t.
Cheng, Tai Chun; and Halasa, Adel F., to Firestone Tire & Rubber Company, The. Process for the polymerization of conjugated dienes. 3,728,323, 4-17-73, Cl. 260-94.20t.
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Cheng, Tai Chun; and Halasa, Adel F., to Firestone Tire & Rubber Company, The. Process for polymerizing conjugated dienes. 3,775,392, 11-27-73, Cl. 260-94.20t.
Cheng, Wai Ming; Davies, James Francis; and Stuttard, Leonard Wallace, to Lever Brothers Company. Detergent compositions. 3,723,326, 3-27-73, Cl. 252-107.000.
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Chenut, Gabriel. Postal meter with letter weight checking device. 3,724,570, 4-3-73, Cl. 177-4.000.
Chepelev, Viktor Gavrilovich; Grinchenko, Nikolai Nikolaevich; and Goldshein, Jury Moiseevich Goldshein, to Spetsialnoe Proektno-Konstruktorskoi i Tekhnilogicheskoe Bjuro Po Elektrobureniju (SKTBE). Insulation tester. 3,714,455, 1-30-73, Cl. 307-112.000.
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Cherel, Guy Henry, to Saint-Gobain Techniques Nouvelles. Apparatus and process for the treatment of spent fuel. 3,722,338, 3-27-73, Cl. 83-278.000.
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Cherio, Vittoria; and Mignone, Giuseppe. Device for filling foodstuff into netted containers. 3,719,022, 3-6-73, Cl. 53-255.000.
Cherio, Vittoria; and Mignone, Giuseppe. Semi-automatic apparatus for filling foodstuff into tubular nettings. 3,726,059, 4-10-73, Cl. 53-64.000.
Cherk, Ester; and Wyckoff, Garry D. Toy animal figure. 3,748,779, 7-31-73, Cl. 46-115.000.
Cherkasov, Petr Alexeevich; Kuznetsov, Evgeny Mikhailovich; Averin, Vyacheslav Vasilievich; and Samarin, Alexandr Mikhailovich. Method for determining activity of oxygen in liquid and solids metals and alloys. 3,713,995, 1-30-73, Cl. 204-1.00t.
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Cherniak, Victor B. Saddle clip for hanging light fixtures. 3,749,346, 7-31-73, Cl. 248-302.000.
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Chernow, Fred, to Implama A.G. Screen for ion implantation. 3,736,425, 5-29-73, Cl. 250-49.50t.
Chernowitz, Maurice E. Sound card and sound apparatus for multichannel use. 3,767,208, 10-23-73, Cl. 274-4.00j.
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Chevillon, Jack Rene Paul; Gauje, Georges Maurice Celestin Alois; and Grammagnac, Jacques Leopold Emile, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Niobium-based oxidation resistant materials and process for their preparation. 3765,953, 10-16-73, Cl. 148-6.300.

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Chiang, Ta-kuan. Electrostatic cigarette filtering arrangement. 3,757,803, 9-11-73, Cl. 131-188.000.

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Chiba, Jiro; and Kanazaki, Tadaaki, to Tokyo Seimitsu Sokki Kabushiki Kaisha. Play back-machine control (position information storage and reproduction device). 3,736,580, 5-29-73, Cl. 340-174.10j.
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Chibata, Ichiro; Kisumi, Masahiko; Kato, Jyoji; and Sugiura, Masaki, to Tanabe Seiyaku Co., Ltd. Fermentative preparation of L-arginine. 3,734,829, 5-22-73, Cl. 195-29.000.
Chibata, Ichiro; Yamada, Shigeki; and Yamamoto, Masao, to Tanabe Seiyaku Co., Ltd. Racemization of optically active ammonium N-acetyl-α-aminophenylacetate. 3,737,454, 6-5-73, Cl. 260-518.00r.
Chibata, Ichiro; Yamada, Shigeki; and Yamamoto, Masao, to Tanabe Seiyaku Co., Ltd. Process of resolving DL-serine m-xylene-4-sulfonate. 3,742,041, 6-26-73, Cl. 260-501.120.
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Chiddix, Max Eugene; and Tracy, David James, to GAF Corporation. Phosphorus containing derivatives of τ-(3,5-dialkyl-4-hydroxyphenyl) alkanols. 3,763,287, 10-2-73, Cl. 260-941.000.
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Childs, Ronald Frederick George; and Mosse, Richard Wolfgang Emil, to Corrugated Products Limited. Pack for articles. 3,758,020, 9-11-73, Cl. 229-39.00b.
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Chimura, Kazuya; Ito, Kazuo; Takashima, Shunichi; Shimoshinbara, Yoshihiro; and Shindo, Mizuo, to Mitsubishi Rayon Company Limited. Process for preparing linear polyesters. 3,732,182, 5-8-73, Cl. 260-75.00r.
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Chin, Gilbert Yukyu; Grupen, William Brightman; and Tisone, Thomas Charles, to Bell Telephone Laboratories, Incorporated. Magnetic switching devices comprising Ni-Mo-Fe alloy. 3,761,904, 9-25-73, Cl. 340-174.0zb.
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Ching, Yau Chau, to Bell Telephone Laboratories, Incorporated. Differential pulse code communications system having dual quantization schemes. 3,781,686, 12-25-73, Cl. 325-38.00b.
Chinn, Leland J.; and Cusic, John W., to Searle, G. D., & Co. 6,7-Dihydro-17-hydroxy-3-oxo-3'H-cyclopropa(6,7)-17 α-pregna-4,6-diene-21-carboxylic acids and salts, and pharmaceutical preparations thereof. 3,755,381, 8-28-73, Cl. 260-397.100.
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Chiola, Vincent; Smith, James S.; and Vanderpool, Clarence D., to Sylvania Electric Products, Inc. Refractory metal phosphate and phosphide coatings for refractory metal leads. 3,721,852, 3-20-73, Cl. 174-50.640.

Chiola, Vincent; Smith, James S.; and Vanderpool, Clarence D. Electric incandescent lamps having refractory metal phosphate and phosphide coatings for refractory metal leads. 3,723,792, 3-27-73, Cl. 313-318.000.

Chiola, Vincent; Dodds, Phyllis R.; and Kim, Tai K., to GTE Sylvania Incorporated. Organo-molybdenum phosphorodithioates and method for producing same. 3,733,345, 5-15-73, Cl. 260-429.00k.

Chipman, Jack R.; and Morrow, Joseph E., to Magnavox Company, The. Synchronizing signal separation circuit. 3,743,774, 7-3-73, Cl. 178-7.30s.

Chipman, Jack R.; and McCombs, Donald, to Magnavox Company, The. Automatic beam current limiter. 3,778,668, 12-11-73, Cl. 315-30.000.

Chippendale, John, to Impact Industrial Holdings Limited. Cable splitter. 3,724,310, 4-3-73, Cl. 83-435.000.

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Chiquiar-Arias, Marcelo. Single dose disposable container and accessories. 3,777,949, 12-11-73, Cl. 222-541.000.

Chirash, William; and Zmoda, Barney Joseph, to Colgate-Palmolive Company. Cleaning composition. 3,709,825, 1-9-73, Cl. 252-158.000.

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Chiron, Bernard; and Puyhaubert, Jean, to Societe Lignes Telegraphiques et Telephoniques. Microwave integrated circuit. 3,745,486, 7-10-73, Cl. 333-30.000.

Chiron, Bernard; and Duffau, Louis, to Societe Lignes Telegraphiques et Telephoniques. Adjustable aperture antenna employing dielectric and ferrimagnetic material. 3,765,021, 10-9-73, Cl. 343-785.000.

Chiron, Bernard; and Duffau, Louis, to Societe Lignes Telegraphiques et Telephoniques. Antenna array with pattern compensation during scanning. 3,765,024, 10-9-73, Cl. 343-854.000.

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Chisholm, Douglas S., to Dow Chemical Company, The. Method of forming flocked articles. 3,765,922, 10-16-73, Cl. 117-16.000.

Chisholm, Douglas S., to Dow Chemical Company, The. Interfacial surface generator forming apparatus. 3,768,783, 10-30-73, Cl. 259-4.000.

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Chisholm, Raymond S., to PPG Industries, Inc. Precipitation of siliceous pigment. 3,709,980, 1-9-73, Cl. 423-339.000.

Chisholm, Raymond S., to Nora International Company, mesne. Novel electrode. 3,770,613, 11-6-73, Cl. 204-290.00r.

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Chittenden, Richard Marion; and Wilson, Earl David, to Abbott Laboratories. Irrigation solution administration system and reservoir therefor. 3,756,237, 9-4-73, Cl. 128-227.000.

Chittick, Donald E., 1/2 to Bales, William E. Slide projector specially adapted for self-teaching. 3,755,919, 9-4-73, Cl. 35-9.00a.

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Chiu, Ying-Chech, to Shell Oil Company. Stabilized nonionic polysaccharide thickened water. 3,766,983, 10-23-73, Cl. 166-274.000.

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Chivari, Ilie, to Fa. Volkan Kupplungs- u. Getriebau Bernhard Hackforth. Axial piston pump. 3,731,593, 5-8-73, Cl. 91-487.000.

Chivers, James R., to Scovill Manufacturing Company, mesne. Liquid level window for coffeemakers. 3,716,169, 2-13-73, Cl. 222-157.000.

Chivers, Thomas E., to General Mills, Inc. Process for making candy floss. 3,723,134, 3-27-73, Cl. 99-134.000.

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Yokoyama, Tohru; Kanda, Tetsuo; Oshio, Yudo; Hori, Yoshiro; and Yazawa, Kimihiko, 3,737,844.
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Chizhov, Leonid Vladimirovich; Lengauer, Dmitry Emelyanovich; and Danilin, Sergei Alexandrovich. Apparatus for injecting a sample into a gas chromatograph. 3,735,640, 5-29-73, Cl. 73-422.0gc.

Chizhov, Sergei Ilich: *See*—
Belkovsky, Viktor Alexandrovich; Grzhimalsky, Leopold Leopoldovich; Ilievsky, Irma Irmovich; Lotsmanov, Sergei Nikolaevich; Petrunin, Ivan Egorovich; Sukhov, Anatoly Vasilievich; Tikhonov, Boris Sergeevich; Levin, Boris Isaakovich; Moroz, Pavel Kirillovich Strekalov, Genrikh Nikolaevich; Chernov, Andrei Nikolaevich; Chizhov, Sergei Ilich; and Shevyakov, Nikolai Nikolaevich, 3,709,682.

Chladek, Otokar, to Elitex, Zavody textilniho strojirenstvi Generalni reditelstvi. Central lubricating dispenser. 3,754,684, 8-28-73, Cl. 222-135.000.

Chlanda, Frederick P.; Gregor, Harry P.; and Liu, Kang-Jen, to Allied Chemical Corporation. Electrodialytic removal of acid from aqueous effluent. 3,752,749, 8-14-73, Cl. 204-180.00p.

Chlipalski, Adam. Apparatus for handling liquid filled flexible pouches. 3,778,972, 12-18-73, Cl. 53-159.000.

Chlumecky, Nicholas, to Commercial Shearing & Stamping Company. Telescoping lining and support structure and method for lining tunnels and shafts. 3,768,267, 10-30-73, Cl. 61-45.000.

Chmielewski, Andrzej; Czerniak, Eligiusz; and Kibort, Tadeusz. Device for reading pendulum-cam scales beam position and for placing and removing weights. 3,720,275, 3-13-73, Cl. 177-3.000.

Cho, Alfred Yi, to Bell Telephone Laboratories, Incorporated. Germanium doped epitaxial films by the molecular beam method. 3,751,310, 8-7-73, Cl. 148-175.000.

Cho, Antonio. Internal-measuring instrument for bores and the like having self-centering means in addition to the movable probe. 3,766,655, 10-23-73, Cl. 33-178.00r.

Cho, Boong Y.; Pfeifer, Robert J.; and Utt, Orval L., to Industrial Nucleonics Corporation. Penetrating radiation gauge. 3,729,632, 4-24-73, Cl. 250-83.30d.

Cho, Nakwon, to United States of America, Atomic Energy Commission. Continuous flow centrifuge with means for reducing pressure drop. 3,730,422, 5-1-73, Cl. 233-16.000.

Cho, Yo-Sung; and Kelcourse, Francis Charles, to Bell Telephone Laboratories, Incorporated. Apparatus for equalizing a transmission system. 3,763,359, 10-2-73, Cl. 235-151.000.

Choate, James Robert, to CPI, Inc. Apparatus for single cavity injection molding of oil seals. 3,754,846, 8-28-73, Cl. 425-125.000.

Choate, James Robert, to CPI, Inc. High speed single cavity molding apparatus. 3,754,848, 8-28-73, Cl. 425-242.000.





Choate, Luther J.; and Click, Gaylon T., to Petro-Tex Chemical Corporation. Oriented polybutene-1 tubing. 3,721,269, 3-20-73, Cl. 138-119.000.

Choate, William C.: *See*—
Masten, Michael K.; and Choate, William C., 3,716,840.
Smith, Stanley L.; Choate, William C.; and Masten, Michael K., 3,715,730.

Choate, William C.; and Masten, Michael K., to Texas Instruments, Incorporated. Probability sort in a storage minimized optimum processor. 3,725,875, 4-3-73, Cl. 340-172.500.

Choay S.A.: *See*—
Crepin, Jean-Claude, 3,762,228.

Chocoladefabriken Lindt & Sprungli Aktiengesellschaft: *See*—
Kleinert, Jurg, 3,769,030.
Kleinert, Jurg, 3,769,039.

Chodil, Gerald J.; and Dejule, Michael C., to Zenith Radio Corporation. Integral memory image display or information storage system. 3,733,435, 5-15-73, Cl. 178-7.30d.

Chodnekar, Madhukar Subraya; Pfiffner, Albert; Rigassi, Norbert; Schwieter, Ulrich; and Suchy, Milos, to Hoffmann-La Roche Inc. Alkenylthiobenzoic acids. 3,712,913, 1-23-73, Cl. 260-470.000.

Chodnekar, Madhukar Subraya; Pfiffner, Albert; Rigassi, Norbert; Schwieter, Ulrich; and Suchy, Milos, to Hoffmann-La Roche Inc. Alkynyl esters of alkoxybenzoic acids. 3,718,686, 2-27-73, Cl. 260-473.00r.

Chodnekar, Madhukar Subraya; Pfiffner, Albert; Rigassi, Norbert; Schwieter, Ulrich; and Suchy, Milos, to Hoffmann-La Roche Inc. Phenyl alkenyl ethers. 3,769,320, 10-30-73, Cl. 260-473.00r.

Chodnekar, Madhukar Subraya; Pfiffner, Albert; Rigassi, Norbert; Schwieter, Ulrich; and Suchy, Milos, to Hoffmann-La Roche Inc. Propargyl ethers. 3,773,797, 11-20-73, Cl. 260-348.00r.

Chodnekar, Madhukar Subraya; Pfiffner, Albert; Rigassi, Norbert; Schwieter, Ulrich; and Suchy, Milos, to Hoffmann-La Roche Inc. Allyl ethers. 3,781,309, 12-25-73, Cl. 260-348.00r.

Chodorov, Rachel; and Korzen, Benni. Board game apparatus. 3,743,293, 7-3-73, Cl. 273-130.00r.

Chodorow, Marvin, to Leland Stanford Junior University, The Board of Trustees of the. Method of and apparatus for particle detection and identification. 3,774,717, 11-27-73, Cl. 181-.5np.

Choffat, Hubert, to Centre Electronique Horloger S.A. Temperature insensitive piezoelectric resonator mounting. 3,751,692, 8-7-73, Cl. 310-9.100.

Choi, Charles; and McGhay, Maynard H., to Motorola, Inc. Multifunction antenna coupler. 3,728,731, 4-17-73, Cl. 343-180.000.

Choi, Jei Y.: *See*—
Harrison, John D.; Choi, Jei Y.; and Marchant, Peter R., 3,753,700.

Choinski, Graydon J.: *See*—
Berman, George A.; and Choinski, Graydon J., 3,738,380.

Chollet, Pierre: *See*—
Gervals, Edouard; Chollet, Pierre; and Ranger, Robert, 3,748,188.

Chollet, Pierre; and Gervais, Edouard, to Noranda Metal Industries Limited. Method of preparing low density wrought zinc alloy with improved strength and low temperature ductility. 3,741,819, 6-26-73, Cl. 148-11.50r.

Chomerics, Inc.: *See*—
Seeger, Richard E., Jr.; and Lynn; William J., 3,721,778.
Seeger, Richard E., Jr.; and Coulter, John G., 3,773,998.
Seeger, Richard E., Jr.; and Coulter, John G., 3,780,237.

Chomet, Marc; and Ellison, Donald E., to Sanders Associates Inc. Television surveillance system. 3,781,468, 12-25-73, Cl. 178-6.800.

Chonan, Takayuki: *See*—
Kawano, Akira; Sakakibara, Kozo; Abe, Iwao; and Chonan, Takayuki, 3,725,472.

Chong, Victor Manuel, to Sun Research and Development Co. Use of thermal regenerator pair in sodium recovery process. 3,759,703, 9-18-73, Cl. 75-66.000.

Chong, Victor Manuel, to Sun Research and Development Co. Coal gasification process. 3,770,399, 11-6-73, Cl. 48-202.000.

Chonin, Ito J., to Spectra-Mat, Inc. Thermionic cathode. 3,760,218, 9-18-73, Cl. 313-346.00r.

Chono, Koji; and Matsuo, Toshiaki, to Nippon Zeon Co., Ltd. Catalyst and process for polymerizing epoxy using said catalyst. 3,770,664, 11-6-73, Cl. 260-2.00a.

Chono, Masazumi: *See*—
Nakajima, Hitoshi; Chono, Masazumi; Taguchi, Masayoshi; Sakurai, Tokio; and Matsuo, Noriak, 3,721,705.
Nakajima, Hitoshi; and Chono, Masazumi, 3,746,723.

Chono, Masazumi; Nakajima, Hitoshi; Taguchi, Masayoshi; and Matsuo, Noriaki, to Asahi Kasei Kogyo Kabushiki Kaisha. Method for producing methacrylic acid and its esters. 3,781,336, 12-25-73, Cl. 260-486.00d.

Chookazian, Mark, to EMA Bond Inc. Gasket for joining plastic tubes. 3,779,564, 12-18-73, Cl. 277-80.000.

Chopard, Pierre, to Omega Louis Brandt & Frere S.A. Protective casing for a wrist-watch. 3,740,944, 6-26-73, Cl. 58-105.000.

Chopin, Jean; and Eloy, Jacques, to Automobiles Peugeot. Post-combustion reactor for exhaust gases of an internal combustion engine. 3,722,221, 3-27-73, Cl. 60-282.000.

Chopra, Jagdish C., to TRW Inc. Variable duty-cycle and frequency oscillator circuit. 3,740,668, 6-19-73, Cl. 331-113.00r.

Chopra, Sohinder Nath: *See*—
Turmel, Hilaire Marcel; Lackie, Dorothy Ellen; and Chopra, Sohinder Nath, 3,751,777.

Chopra, Sohinder Nath; and Turmel, Hilaire Marcel, to Chemcell Limited. Process for producing crinkled plastic ribbon. 3,715,422, 2-6-73, Cl. 264-168.000.

Choquer, Jean: *See*—
Ancona, Cesar; and Choquer, Jean, 3,781,894.

Choquet, Michel F.; and Nussbaumer, Henri J., to International Business Machines Corporation. Memory controlled multiple phase shift modulator. 3,747,024, 7-17-73, Cl. 332-9.00r.

Choquet, Michel Francois: *See*—
Belloc, Jacques; Choquet, Michel Francois; and Pierre, Jean Marc, 3,766,480.

Chorak, Peter P.: *See*—
Long, Donald V.; Derby, Norwin Cedric; and Chorak, Peter P., 3,770,189.

Chore-Time Equipment, Inc.: *See*—
Kaiser, Steven A., 3,741,102.
Murto, Robert A., 3,776,191.

Chori Company, Ltd.: *See*—
Kawasaki, Kentaro; Ono, Takyuki; and Takizawa, Keizo, 3,729,918.

Chorney, Frederick R. Recovery of calcium mahogany sulfonate. 3,725,467, 4-3-73, Cl. 260-504.00a.

Chorvat, Robert J.; and Pappo, Raphael, to Searle, G. D., & Co. 4-Methylen-2-oxa-3-keto androstanes and 4-methyl-delta 4 derivatives thereof. 3,716,559, 2-13-73, Cl. 260-343.20s.

Chorvat, Robert J.; Pappo, Raphael; and Scaros, Mike G., to Searle, G. D., & Co. 2-Oxacholesterol and intermediates. 3,729,489, 4-24-73, Cl. 260-343.20s.

Chosh, Ranajit; Bishop, Nigel Douglas; and Peacock, Frederick Charles, to Imperial Chemical Industries Limited. Insecticidal compositions comprising 1,4-dithiacycloheptyliden-6-iminyl carbamates and metnod of using the same. 3,773,941, 11-20-73, Cl. 424-27.000.

Choshi, Yasuo: *See*—
Murai, Koichi; Akazome, Giichi; Choshi, Yasuo; Kobayashi, Toshiaki; and Tsuji, Atsuo, 3,721,682.

Chottiner, Jacob: *See*—
Philofsky, Harold M.; Ying, Sui-Chun; and Chottiner, Jacob, 3,718,830.

Choufoer, Johannes H.; Van Kerkvoort, Willem J.; Van der Meij, Pieter H.; and Schrueder, Thomas, to Shell Oil Company. Process for the preparation of a crude-oil composition with a depressed pour point. 3,776,247, 12-4-73, Cl. 137-13.000.

Chough, Euiwon, to Cogar Corporation. Process for etching metals employing ultrasonic vibration. 3,767,491, 10-23-73, Cl. 156-5.000.

Chouings, Leslie Cyril: *See*—
Osborne, Duncan William; and Chouings, Leslie Cyril, 3,773,367.

Chouings, Leslie Cyril, to Automotive Products Company Limited. Fluid pressure braking systems. 3,752,266, 8-14-73, Cl. 188-170.000.

Choules, Marcel Henry, to Russell Finex Limited. Vibratory apparatus. 3,727,470, 4-17-73, Cl. 74-87.000.

Choules, Marcel Henry, to Russell Finex Limited. Out-of-balance weight assemblies. 3,771,374, 11-13-73, Cl. 74-87.000.

Choulet, Richard Jay: *See*—
Saccomano, Joseph Michael; Ellis, John Douglas, Jr.; Choulet, Richard Jay; and Death, Frank Stuart, 3,754,894.

Choux, Antoine E.; and Gaudard, Pierre. Flower stand for holding pots in one of two alternative positions. 3,760,534, 9-25-73, Cl. 47-39.000.

Chovanec, John J.; and Hildebrant, Floyd J., to United States of America, Army. Electrostatic spark ignition sensitivity test apparatus and method. 3,760,262, 9-18-73, Cl. 324-32.000.

Chovanec, William; and Heck, Peter J., to Art Steel Company, Inc. File cabinet with pivoted sliding front door. 3,748,005, 7-24-73, Cl. 312-109.000.

Chovanec, William; and Heck, Peter J., to Art Steel Company, Inc. File locking mechanism. 3,774,985, 11-27-73, Cl. 312-217.000.

Chow, Allan Tit-Shing, to Du Pont de Nemours, E. I., and Company. Apparatus and method for detecting streaks in coated layers on a web. 3,754,146, 8-21-73, Cl. 250-219.0df.

Chow, Henry; Faris, William R.; Lynn, Howard F.; and Payne, Delmar V., to Bendix Corporation, The. Receiver device. 3,720,945, 3-13-73, Cl. 343-114.500.

Chow, Henry; Faris, William R.; Lynn, Howard F.; and Payne, Delmar V., to Bendix Corporation, The. Logarithimic receiver device which compensates for received signal strength receiver device. 3,720,946, 3-13-73, Cl. 343-119.000.

Chow, Joe G. Y., to United States of America, Atomic Energy Commission. High post-irradiation ductility process. 3,740,274, 6-19-73, Cl. 148-12.000.

Chow, Philip Y. Apparatus and methods for preparing skewered food products. 3,729,774, 5-1-73, Cl. 146-1.00r.

Chow, Philip Y., to Santa Fe International Corporation. Mooring and oil transfer apparatus. 3,778,854, 12-18-73, Cl. 9-8.00p.

Chow, Quon Sang, to Northern Electric Company, Limited. Digital guard-time circuit for use in a frame synchronization circuit. 3,729,586, 4-24-73, Cl. 178-69.50r.

Chow, Roberta C. L.: *See—*
Marvel, Carl S.; and Chow, Roberta C. L., 3,725,442.

Chow, Sen-Te, to United States of America, Army. Automatic bright source protection circuit and power supply circuit for an image intensifier. 3,739,178, 6-12-73, Cl. 250-213.00v.

Chow, Shin-Kien; and Tzou, Kent T. S., to Westinghouse Electric Corporation. Single stage bi-directional pump. 3,773,432, 11-20-73, Cl. 415-152.00a.

Chow, Shing Cheung. Small sized stroboscopic tube for photographic use. 3,727,089, 4-10-73, Cl. 313-178.000.

Chow, Silver H.: *See—*
Huber, Wolfgang; Chow, Silver H.; and Saifer, Mark G., 3,763,136.

Chow, Sui-Wu: *See—*
Matzner, Markus; Reichle, Walter T.; Chow, Sui-Wu; and McGrath, James E., 3,718,672.
Matzner, Markus; Reichle, Walter T.; Chow, Sui-Wu; and McGrath, James E., 3,755,266.
Matzner, Markus; Reichle, Walter T.; Chow, Sui-Wu; and McGrath, James E., 3,755,267.
Matzner, Markus; Reichle, Walter T.; Chow, Sui-Wu; and McGrath, James E., 3,759,876.

Chow, Sui-Wu; and Matzner, Markus, to Union Carbide Corporation. Alkali metal mercaptides as urethane-isocyanurate catalysts. 3,723,367, 3-27-73, Cl. 260-2.5ab.

Chow, Weichien: *See—*
Alessio, Sergio A.; and Chow, Weichien, 3,710,441.
Alessio, Sergio A.; Chow, Weichien; Kosem, Marion; and Valach, Charles F., 3,761,770.

Chow, Weichien, to Bunker-Ramo Corporation, The. Automated wiring system and method. 3,747,209, 7-24-73, Cl. 29-629.000.

Chowdhury, Priya Bandhu: *See—*
Mukherjee, Dilip Kumar; Chowdhury, Priya Bandhu; Sama, Jugal Kishore; Basu, Amarendra Nath; Basak, Nitya Goral; and Lahiri, Adinath, 3,775,286.

Chowning, Patrick J.: *See—*
Malmer, Michael M., Jr.; Perkins, Cornelius C.; Waldenmayer, Donald W.; Chowning, Patrick J.; and Gardner, Leonard R., 3,725,868.

Choy, Solomon K. Roll paper dispensers. 3,754,719, 8-28-73, Cl. 242-55.300.

Chramiec, Mark A.: *See—*
Walsh, George M.; and Chramiec, Mark A., 3,716,825.

Chretiennot, Michel Jean Jules, to Chrysler France. Assembling support. 3,765,666, 10-16-73, Cl. 269-37.000.

Chretin, Jean; and Thomasset, Andre. Process for tracing location marks on a canvas base. 3,755,022, 8-28-73, Cl. 156-1.000.

Chrisman, Ernest L., to Nordic Cloud Corporation. Steam generator. 3,721,802, 3-20-73, Cl. 219-273.000.

Chrisman, Willis L.; and Ring, Walter R., Sr., to Anaconda Wire and Cable Company. Wire corrugator. 3,718,023, 2-27-73, Cl. 72-196.000.

Chrisp, Billie R. Automatic chalkboard erasing apparatus. 3,731,335, 5-8-73, Cl. 15-97.00r.

Christ, Charles. Process and apparatus for fermentation. 3,753,731, 8-21-73, Cl. 99-103.000.

Christ, Karl, to Goetzewerke Friedrich Goetze A.G. Apparatus for measuring shaft sealing rings having an annular sealing lip. 3,708,885, 1-9-73, Cl. 33-174.00l.

Christ, Paul G.: *See—*
Demler, Walter R.; and Christ, Paul G., 3,755,291.

Christe, Karl O.: *See—*
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Christen, Andreas, to Knoll International, Inc. Panel and post assembly. 3,777,437, 12-11-73, Cl. 52-758.00d.

Christen, Jack P., to Outers Laboratories Inc. Archery bow with bow string silencer. 3,756,214, 9-4-73, Cl. 124-23.000.

Christen, Paul. Trench shoring, shuttering and sheeting system. 3,727,413, 4-17-73, Cl. 61-41.00a.

Christena, Ray C.; and Johnston, Earnest L., to Vulcan Materials Company. Production of polyesteramides from aziridine salts. 3,772,229, 11-13-73, Cl. 260-22.00r.

Christenberry, Thomas T., Jr. Instructional display device. 3,775,867, 12-4-73, Cl. 35-17.000.

Christensen, Albert V., to Northrop Corporation. Cross loop antenna. 3,721,989, 3-20-73, Cl. 343-701.000.

Christensen, Arthur C., to Scovill Manufacturing Company. Kitchen blender having self-aligning drive means. 3,713,628, 1-30-73, Cl. 259-108.000.

Christensen, Bernard E.: *See—*
Flagg, John M.; Bard, Wendell E.; Christensen, Bernard E.; Stevens, Roy W., Jr.; and Dunn, Edgar J., 3,726,494.

Christensen, Birte; Christensen, Borge; Hovad, Helge; and Hovad, Karl Erik. Mandrel for use in and a method of producing containers and a machine for employing the method. 3,741,838, 6-26-73, Cl. 156-173.000.

Christensen, Borge: *See—*
Christensen, Birte; Christensen, Borge; Hovad, Helge; and Hovad, Karl Erik, 3,741,838.

Christensen, Borge; and Hansen, Hans, said Christensen assor. to Ingeniorfirmaet Borge Christensen Kastanievalle and said Hansen assor. to Ingeniorfirmaet Hans Hansen. Automatic packing device for pallet stacks and the procedure peculiar hereto. 3,778,960, 2-18-73, Cl. 53-29.000.

Christensen, Borge Johannes Ravn; and Jacobsen, Preben Bob. Can with an extensible pouring spout with sealing plug. 3,776,434, 12-4-73, Cl. 222-525.000.

Christensen, Burton G.; Leanza, William J.; and Sarett, Lewis H., to Merck & Co., Inc. Phosphonic acid anti-fibrinolytic agents. 3,754,085, 8-21-73, Cl. 424-211.000.

Christensen, Burton G.; and Firestone, Raymond A. Process for preparing cephalosporin compounds. 3,775,410, 11-27-73, Cl. 260-243.00c.

Christensen, Burton G.; and Leanza, William J., to Merck & Co., Inc. Process for preparing cephalosporin compounds. 3,780,031, 12-18-73, Cl. 260-243.00c.

Christensen, Burton G.; and Firestone, Raymond A., to Merck & Co., Inc. Process for preparing substituted cephalosporins. 3,780,034, 12-18-73, Cl. 260-243.00c.

Christensen, Calvin J.: *See—*
Seiter, William A.; and Christensen, Calvin J., 3,739,226.
Seiter, William A.; and Christensen, Calvin J., 3,746,877.

Christensen, Dean E.: *See—*
Smith, Arthur A.; Christensen, Dean E.; Campbell, Billy H.; Strickland, Raymond I.; Lopez, Bennie F.; Eckstein, Herbert P.; and Litchfield, Hart S., 3,765,752.

Christensen Diamond Products Company: *See—*
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Bridwell, Harold C.; and Sounders, Norman R., 3,747,276.
Rowley, David S.; and Ward, Charles E., 3,709,308.
Wilder, Arthur G.; and Bridwell, Harold C., 3,757,878.
Wilder, Arthur G.; and Bridwell, Harold C., 3,757,879.

Christensen, Donald I.: *See—*
Buckley, Francis T.; Riek, Raymond F.; and Christensen, Donald I., 3,718,516.

Christensen, Donald W., to Young Radiator Company. Heat exchanger. 3,734,175, 5-22-73, Cl. 165-158.000.

Christensen, Earl, to Streater Industries, Inc. Adjustable shelf bracket. 3,729,161, 4-24-73, Cl. 248-242.000.

Christensen, Elmer, to Black Clawson Company, The. Vibratory screening with a peripheral support base. 3,756,407, 9-4-73, Cl. 209-332.000.

Christensen, Eric A.; and Schilling, Robert W., to Midland-Ross Corporation. Aircraft anti-icing apparatus. 3,749,336, 7-31-73, Cl. 244-134.00b.

Christensen, Frank G.; and Wulff, Rafael T., 1/3 to Lapin, Zeverly L. Steering system for snowmobiles and the like. 3,734,219, 5-22-73, Cl. 180-5.00r.

Christensen, Frank G.; and Wolff, Rafael I., 1/3 interest to Lapin, Zeverly L. Stability-preserving steering suspension for snowmobiles. 3,777,830, 12-11-73, Cl. 180-5.00r.

Christensen, Gary T. Rock tumbler. 3,765,131, 10-16-73, Cl. 51-164.000.

Christensen, George L., to Martin Marietta Aluminum, Inc. Cartridge flash hole inspection apparatus. 3,736,793, 6-5-73, Cl. 73-38.000.

Christensen, Henry Marinus. Method of preparing dextran and dextran compounds soluble in cold water. 3,709,875, 1-9-73, Cl. 260-209.00d.

Christensen, James: *See—*
Shortlidge, Donald L.; Christensen, James; and Foard, James H. Jr., 3,760,498.

Christensen, Jens Jude, 50% to Ruscoe, W. J., Company. Spreadable covering material. 3,776,876, 12-4-73, Cl. 260-29.70r.

Christensen, Kenneth M.; Bauman, Howard E.; Walker, Robert G.; and Davis, Bob K.; deceased (by Lindgren, D. Kenneth, Jr.; administrator), to Pillsbury Company, The. Apparatus for removing dust from an air stream. 3,754,378, 8-28-73, Cl. 55-91.000.

Christensen, Lawrence E.: *See—*
Adrian, Donald J.; and Christensen, Lawrence E., 3,711,856.

Christensen, Leland C., 1/2 to Christensen, Robert. Apparatus and method for producing a silk screen matrix. 3,762,636, 10-2-73, Cl. 234-2.000.

Christensen, Mark S., to McDonnell Douglas Corporation. Rivet squeezer. 3,747,194, 7-24-73, Cl. 29-243.540.

Christensen, Mark Victor, to Dohrmann Divisions, Envirotech Corporation. Gas generating and metering device and method. 3,760,773, 9-25-73, Cl. 122-4.00r.

Christensen, Neal T.: *See—*
Ahearn, Thomas P.; Capowski, Robert S.; Christensen, Neal T.; Gannon, Patrick M.; Lee, Arlin E.; and Liptay, John S., 3,781,808.





Christensen, Poul Sondergaard, to Bruun & Sorensen A/S. Floor structure. 3,720,027, 3-13-73, Cl. 52-309.000.

Christensen, Richard Hans; Combs, Earl Edward; and Petrone, Mario Albert. Process for preparation of a protected granule and dishwashing composition formed therewith. 3,741,904, 6-26-73, Cl. 252-99.000.

Christensen, Robert: *See—*
Christensen, Leland C., 3,762,636.

Christensen, Robert G. Turntable. 3,728,970, 4-24-73, Cl. 104-44.000.

Christensen, Robert I.: *See—*
Larimore, David B.; and Christensen, Robert I., 3,719,740.

Christensen, Robert I.; and Larimore, David B., to Chevron Research Company. Hydrogen purification. 3,718,734, 2-27-73, Cl. 423-228.000.

Christensen, Roland S.; and Heider, Stanley A. Commutator for D.C. machines. 3,735,170, 5-22-73, Cl. 310-219.000.

Christensen, Sheldon L. Livestock scale. 3,726,353, 4-10-73, Cl. 177-208.000.

Christensen, Thorkild, to Danfoss A/S. Valve arrangement for hydraulic steering system. 3,730,207, 5-1-73, Cl. 137-106.000.

Christensen, Vernon E. Ground hole forming machine. 3,710,876, 1-16-73, Cl. 173-43.000.

Christensen, Walter L., to Graco Metal Products, Inc. Swing operated music box. 3,779,124, 12-18-73, Cl. 84-94.00c.

Christenson, Per Tyke, to Kamyr Aktiebolag. Screening device in cellulose digesters. 3,711,367, 1-16-73, Cl. 162-251.000.

Christenson, Roger M.: *See—*
Lebras, Louis R.; Christenson, Roger M.; and Zwack, Robert R., 3,749,657.

Christenson, Roger M.; and Anderson, Carl C., to PPG Industries, Inc. Pressure-sensitive adhesive articles and method of making same. 3,725,115, 4-3-73, Cl. 117-93.310.

Christensson, Od W., to Christenssons Maskiner & Patenter Aktiebolag. Arrangement for filling and closing packages, comprising an outer package and an inner package loosely applied therein. 3,748,819, 7-31-73, Cl. 53-124.00b.

Christensson, Od W., to Christenssons, Maskiner & Patenter Aktiebolag. Re-closing arrangement for packages of cardboard. 3,758,022, 9-11-73, Cl. 229-44.00r.

Christensson, Od W., to Christenssons Maskiner & Patenter Aktiebolag. Packaging machine. 3,762,131, 10-2-73, Cl. 53-186.000.

Christensson, Od W., to Christenssons Maskiner & Patenter Aktiebolag. Apparatus for heat sealing a closure on a package comprising a die with sloping sides. 3,764,443, 10-9-73, Cl. 156-581.000.

Christensson, Od W., to Christenssons Maskiner & Patenter Aktiebolag. Foil for closing easily openable packages. 3,776,450, 12-4-73, Cl. 229-7.00r.

Christenssons Maskiner & Patenter Aktiebolag: *See—*
Christensson, Od W., 3,748,819.
Christensson, Od W., 3,758,022.
Christensson, Od W., 3,762,131.
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Christiaens, Bernard; and Martens, Guy, to Solvay & Cie. Process for the production of 1,1,1-trichloroethane. 3,748,243, 7-24-73, Cl. 204-163.00r.

Christian, Donald K.; and Minchey, Jerry M., to Piedmont Engineering and Machine Company, Inc. Tensionless variable feed system for a traveling strip. 3,721,376, 3-20-73, Cl. 226-42.000.

Christian, Donald K.; and Lomax, Dennis L., to Piedmont Engineering and Machine Company, Inc. Liquid treating apparatus for textile materials and method. 3,729,958, 5-1-73, Cl. 68-19.100.

Christian, Donald K.; and Stafford, Ronnie L., to Piedmont Engineering and Machine Company, Inc. Motor to shaft coupling to permit self-alignment therebetween. 3,740,970, 6-26-73, Cl. 64-31.000.

Christian, Donald K.; and Lovin, Joseph R., to Hunt, Rodney, Company, mesne. Tubular fabric inspection machine. 3,771,201, 11-13-73, Cl. 26-70.000.

Christian, Huni, to Mazereau, Michel Claude Jean. Closure device for plastic bags. 3,727,829, 4-17-73, Cl. 229-54.00r.

Christian, John B., to United States of America, Air Force. Grease composition. 3,725,273, 4-3-73, Cl. 252-13.000.

Christian, Joseph Robert; Goubau, Georg J. E.; and Mink, James W., to United States of America, Army. Self aligning beam waveguide having a series of lenses and means for maintaining said lenses in alignment. 3,781,546, 12-25-73, Cl. 250-201.00r.

Christian, Manfred, to Daimler-Benz Aktiengesellschaft. Cylinder head of an air-cooled internal combustion engine. 3,741,173, 6-26-73, Cl. 123-41.570.

Christian, Robert D.; and Steele, Michael F., to Celesco Industries, Inc., mesne. Foldable aircraft. 3,744,741, 7-10-73, Cl. 244-16.000.

Christian Roosing A/S: *See—*
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Christiania Spigerverk: *See—*
Kasin, Hans; and Thvedt, Krane, 3,724,587.

Christiano, Victor: *See—*
Van Raalte, John A.; and Christiano, Victor, 3,708,712.

Christiansen, Bendt Andreas, to Andersen, Hans Christian. Apparatus for closing the toe of a stocking. 3,738,294, 6-12-73, Cl. 112-121.150.

Christiansen, Christian Verner: *See—*
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Christiansen, Clyde R., to Applied Power Industries, Inc. Engine stand. 3,765,667, 10-16-73, Cl. 269-59.000.

Christiansen, Gerald E., to Young, Stephen A. Spout construction for diverter. 3,746,031, 7-17-73, Cl. 137-119.000.

Christiansen, Henning, to Lyon & Healy, Inc. Hard construction. 3,739,680, 6-19-73, Cl. 84-266.000.

Christiansen, Paal; and Spoelder, Johan. Epoxy bitumen system for road surfacing. 3,755,226, 8-28-73, Cl. 260-28.000.

Christiansen, Paul, to Warner & Swasey Company, The. Data verification for electronic knitting machine. 3,772,647, 11-13-73, Cl. 340-146.1ab.

Christiansen, Robert A.; and Balasubramaniam, Dhanikodi, to California Instruments Co. AC power supply having computer controlled frequency and phase and amplitude. 3,732,507, 5-8-73, Cl. 332-16.00r.

Christiansen, Tore, to Munters, Carl George. Device for ventilation systems in spaces. 3,714,884, 2-6-73, Cl. 98-40.00d.

Christiansen, Wilbert H.: *See—*
Arnaudin, Edwin H., Jr.; Christiansen, Wilbert H.; and Hazelett, Robert M., Jr., 3,746,575.

Christianson, Raymond A., to Under Sea Industries, Inc. Audio reserve alarm mechanism for self-contained breathing apparatus. 3,719,160, 3-6-73, Cl. 116-70.000.

Christianus, Jacobus Johannes: *See—*
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Christie, Eugene P. Plastic bag construction. 3,774,838, 11-27-73, Cl. 229-62.000.

Christie, George, Jr., to General Electric Company. Flame retardant composition. 3,734,877, 5-22-73, Cl. 260-37.0sb.

Christie, Gerald Anthony; and Bressington, Edwin Thomas, to Salient Engineering Limited. String lasting. 3,778,856, 12-18-73, Cl. 12-7.900.

Christie, Howard W.; and Byerley, Thomas J., to Butler Manufacturing Company. Heat-resistant phenolic foam compositions. 3,740,358, 6-19-73, Cl. 260-2.50f.

Christie, Sharon K., to Universal Oil Products Company. Deodorizing and cleaning garbage disposals. 3,775,334, 11-27-73, Cl. 252-171.000.

Christie, Sidney A.: *See—*
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Christie, Sidney A., to United States of America, Navy. Pressure regulator and compensator. 3,747,627, 7-24-73, Cl. 137-102.000.

Christin, Georges Etienne, to Etablissements Bertrand Faure. Slides especially for vehicle seats. 3,759,587, 9-18-73, Cl. 308-6.00r.

Christina, Paul J. Container carrying carts. 3,762,738, 10-2-73, Cl. 280-47.190.

Christine, William C.; and Watt, William E. R., to Inpaco. Dispensing system. 3,758,005, 9-11-73, Cl. 222-309.000.

Christison, Sommerville G.: *See—*
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Christman, Brian B., to Dixon, Joseph, Crucible Company, The. Refractory sanitary ware setter. 3,764,261, 10-9-73, Cl. 432-258.000.

Christman, Frank E.: *See—*
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Christman, Robert D.; Elliott, George E.; and Guelfi, Guglielmo, to Gulf Research & Development Company. Two-bed catalyst arrangement for hydrodesulfurization of crude oil. 3,730,879, 5-1-73, Cl. 208-210.000.

Christman, Stanley A., to Esso Production Research Company. Composition for drilling wells and method for preparing and using same. 3,728,259, 4-17-73, Cl. 252-8.50c.

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Christmann, John L., to Merrick Scale Mfg. Company. Mass measuring system applied to belt conveyors. 3,718,031, 2-27-73, Cl. 73-67.200.

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Christner, James Edward: *See—*
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Christoffel, Julius M., to Gayla Industries, Inc. Kite structure. 3,746,286, 7-17-73, Cl. 244-155.00a.

Christofferson, James, to High Voltage Power Corporation. Expansion joint for gas-insulated transmission line. 3,730,965, 5-1-73, Cl. 174-13.000.

Christofilos, Nicholas C., to United States of America, Atomic Energy Commission. High power density controlled fusion reactor. 3,708,391, 1-2-73, Cl. 176-4.000.

Christopher, Charles A.; Allen, Joseph C.; and Kolaian, Jack H., to Texaco Inc. Secondary oil recovery method. 3,759,326, 9-18-73, Cl. 166-275.000.

Christopher, Charles A.; Allen, Joseph C.; and Kolaian, Jack H., to Texaco Inc. Secondary recovery method. 3,780,808, 12-25-73, Cl. 166-275.000.

Christopher, Charles A., Jr.; Grimm, Henry J.; and Nute, Alton J., to Texaco Inc. Petroleum recovery process. 3,709,297, 1-9-73, Cl. 166-273.000.

Christopher, Harold A., to General Electric Company. Method for making sealed container for elemental sodium and method of forming. 3,740,206, 6-19-73, Cl. 65-36.000.

Christopher, Harold A.; Faires, Dorus E.; Fontanella, Ethel L.; and King, Randall N., to General Electric Company. Method of forming negative electrodes. 3,753,778, 8-21-73, Cl. 136-24.000.

Christopher, John, to Santa Fe International Corporation. Pipe welding apparatus and methods therefor. 3,770,927, 11-6-73, Cl. 219-8.500.

Christopher, William H., Jr.; Meyers, Charles O.; and Whipple, Jack C., Jr., to Process Technologists International; division of Trinity, Inc. Heater-treater. 3,708,960, 1-9-73, Cl. 55-169.000.

Christophers, John Roland: *See—*
Christophers, John Roland; and James, Derek (said James assor. to said), 3,759,528.

Christophers, John Roland; and James, Derek, said James assor. to said Christophers, John Roland. Apparatus for simulating the playing of golf strokes. 3,759,528, 9-18-73, Cl. 273-176.0fa.

Christophersen, Clarence E.: *See—*
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Christy, Harold Lindsay, to Motorola, Inc. Micromanipulator utilizing a constant velocity universal joint. 3,768,331, 10-30-73, Cl. 74-491.000.

Christy, Marcia E., to Merck & Co., Inc. Chemical compounds and processes for preparing same. 3,708,525, 1-2-73, Cl. 260-488.0cd.

Christy, Marcia E., to Merck & Co., Inc. Chemical compounds and methods of preparing the same. 3,711,518, 1-16-73, Cl. 260-340.500.

Christy, Marcia E., to Merck & Co., Inc. Chemical compounds and methods of preparing the same. 3,720,688, 3-13-73, Cl. 260-340.500.

Chrobak, Strickland Inc.: *See—*
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Chrysler Corporation: *See—*
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Bottum, Edward W.; and Kozinski, Richard C. (said Kozinski assor. to), 3,766,748.
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Chrzanowski, Thomas A.; and Grushkin, Bernard, to Xerox Corporation. Migration imaging employing pressure nip development. 3,741,758, 6-26-73, Cl. 96-1.00r.

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Chu, Bing C.; Fischer, David J.; and Kunz, Hans J., to Corning Glass Works. Continuous processing furnace and method of using the same. 3,711,073, 1-16-73, Cl. 263-3.000.

Chu, Chung Ying: *See—*
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Chu, Edward, to Du Pont de Nemours, E. I., and Company. Electrophoretic coating of aluminum and tin articles. 3,769,187, 10-30-73, Cl. 204-181.000.

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Chu, Ju Chin. Controllable solid propulsion system. 3,732,693, 5-15-73, Cl. 60-207.000.

Chu, Kwang Yup. Basketball game. 3,724,855, 4-3-73, Cl. 273-101.000.

Chu, Nan S., to Union Carbide Corporation. Cross-linked polyalkalene oxide. 3,734,876, 5-22-73, Cl. 260-33.60r.

Chu, Nan S.; and Jezl, James L., to Standard Oil Company (Indiana). Block copolymers of anionically polymerized and free radical polymerized monomers. 3,739,042, 6-12-73, Cl. 260-878.00b.

Chu, Nan Shieh; and Wartman, Lloyd Henry, to Union Carbide Corporation. Process for the preparation of interpolymers of poly(ethylene oxide). 3,763,277, 10-2-73, Cl. 260-874.000.

Chu, Pe Tsi; Corby, Bernard; James, Andre Ernest; Le Blanc, Robert; and Milewski, Andrzej Tadeusz, to International Business Machines Corporation. Process and device for identifying connections in a switching network. 3,761,638, 9-25-73, Cl. 179-18.0fg.

Chu, Pochen, to Mobil Oil Corporation. Crystalline zeolite ZSM-11. 3,709,979, 1-9-73, Cl. 423-328.000.

Chu, Pochen, to Mobil Oil Corporation. Treatment of organic cation-containing zeolites. 3,766,093, 10-16-73, Cl. 252-455.00z.

Chu, Richard C.: *See—*
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Chu, Ta-Shing, to Bell Telephone Laboratories, Incorporated. Apparatus for transforming nonorthogonal elliptically polarized waves into orthogonal linearly polarized waves. 3,728,643, 4-17-73, Cl. 333-21.00a.





Chu, Ta-Shing, to Bell Telephone Laboratories, Incorporated. Polarization transformation apparatus. 3,728,644, 4-17-73, Cl. 333-21.00a.

Chu, Tsu-Kai: *See—*
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Chu, Vincent H. K., to Bethlehem Steel Corporation. High porosity manganese oxide pellets. 3,715,764, 2-13-73, Cl. 423-49.000.

Chu, William M.; Lee, James M.; and Sonoda, George, to International Business Machines Corporation. Low power FET driver circuit. 3,769,528, 10-30-73, Cl. 307-270.000.

Chuan, Raymond L., to Susquehanna Corporation, The. Apparatus for sensing air-borne particulate matter. 3,715,911, 2-13-73, Cl. 73-28.000.

Chuang, Chin-Chih: *See—*
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Chudgar, Anil H., to Imperial-Eastman Corporation. Hose construction and method of forming the same. 3,773,089, 11-20-73, Cl. 138-132.000.

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Chujo, Kiyoshi; Tokuhara, Shinji; Tanaka, Kazunobu; and Watanabe, Shoji, to Diacel, Ltd. Process for preparing graft copolymer emulsions. 3,755,234, 8-28-73, Cl. 260-29.6wa.

Chulay, Steven J., to Beckman Instruments, Inc. Swinging bucket rotor assembly. 3,752,390, 8-14-73, Cl. 233-26.000.

Chumbres, Louis G.; and Rudy, George J., to International Business Machines Corporation. Landless plates-through hole photoresist making process. 3,772,101, 11-13-73, Cl. 156-11.000.

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Chupp, John P., to Monsanto Company. Herbicidal N-(1-cycloalken-1-yl)-amino-S-triazine compounds. 3,714,162, 1-30-73, Cl. 260-249.800.

Chupp, John P., to Monsanto Company. Preparation of 1,4-substituted-imidazolin-2-ones. 3,723,455, 3-27-73, Cl. 260-309.600.

Chupp, John P., to Monsanto Company. Production of alphachlorothioamide derivatives. 3,739,024, 6-12-73, Cl. 260-551.00s.

Chupp, John P., to Monsanto Company. Method for producing amino-3,4-dihydro-2H-1, 3,5-thiadiazine-2-ones. 3,741,964, 6-26-73, Cl. 260-243.00r.

Chupp, John P., to Monsanto Company. Phytotoxic use of N-(1-cycloalken-1-yl)ureas and thioureas. 3,761,241, 9-25-73, Cl. 71-120.000.

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Chupp, John P., to Monsanto Company. Insecticidal compounds and methods of combatting insects using phenyl-N-(1-alkenyl)-N-methylcarbamates. 3,764,695, 10-9-73, Cl. 424-300.000.

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Church, Ralph E., to General Electric Company. Dynamoelectric machine lubricant storage arrangement. 3,743,871, 7-3-73, Cl. 310-90.000.

Church, Richard A., to Carrier Corporation. Air distribution system. 3,744,556, 7-10-73, Cl. 165-57.000.

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Kaesemeyer, Carl W., 3,720,124.
Kaesemeyer, Carl W., 3,724,335.
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Kauffman, Harry D., 3,749,876.
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Ma, Carlton Y. W.; and Peter, John W., 3,721,512.
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Taylor, Ian K.; and Jones, Maurice R., 3,721,811.
Wise, Robert G., 3,715,646.
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Cincinnati Milacron-Heald Corporation: *See—*
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Robillard, Edward G.; and Uhtenwoldt, Herbert R., 3,760,539.
Uhtenwoldt, Herbert R.; and Deranian, Diran, 3,714,741.
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Uhtenwoldt, Herbert Rudolf; and Hatstat, Robert Gordon, 3,774,349.
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Cincinnati Milling Machine Co., The: *See—*
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Cincinnati Mine Machinery Co., The: *See—*
Krekeler, Claude B., 3,749,449.
Krekeler, Claude B., 3,767,266.
Krekeler, Claude B., 3,769,683.
Krekeler, Claude B., 3,778,112.

Cincinnati Time Recorder Company, Inc.: *See—*
Gieringer, Carl K.; Kleimeyer, Vernon T.; Schinner, Thomas J.; Singer, Paul A.; and Zimmer, Ernest B., 3,760,160.
Gieringer, Carl K.; Kleimeyer, Vernon T.; Schinner, Thomas J.; and Singer, Paul A., 3,775,593.

Cincinnati Time Recorder Company, Inc., The: *See—*
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Cincotta, John. Apparatus for removing oil from oil-contaminated water. 3,752,762, 8-14-73, Cl. 210-32.000.

Cinelli, Ermanno: *See—*
Paret, Giancarlo; and Cinelli, Ermanno, 3,720,605.
Paret, Giancarlo; and Cinelli, Ermanno, 3,721,620.

Cines, Martin R., to Phillips Petroleum Company. Terephthalic acid production. 3,746,754, 7-17-73, Cl. 260-524.00r.

Cini, Adrian V., to Acme-Hamilton Manufacturing Corporation. Adjustable die heads for extruders and the like. 3,743,456, 7-3-73, Cl. 425-112.000.

Cini, Adrian V., to Acme-Hamilton Manufacturing Corporation. Stock flow control means for extruders and the like. 3,743,457, 7-3-73, Cl. 425-113.000.

Cino, Peter M.: *See—*
Adey, John S., Jr.; Collins, John T.; and Cino, Peter M., 3,756,382.

Cinquegrani, Vincent J. Fuel injection apparatus in an internal combustion engine. 3,710,771, 1-16-73, Cl. 123-139.0aw.

Cintron, Rene: *See—*
Sosin, Frank H.; and Cintron, Rene, 3,714,643.

Ciofant, Pio Antonio. Ripper tooth attachment for a backhoe. 3,778,111, 12-11-73, Cl. 299-67.000.

Ciolfi, Quentin P., III. Flag holder. 3,722,841, 3-27-73, Cl. 248-43.000.

Ciolli, Donald A., to VLN Corporation. Engine starting system. 3,747,719, 7-24-73, Cl. 74-6.000.

Ciolli, Henry J., to General Motors Corporation. Automobile levelizer control unit. 3,727,941, 4-17-73, Cl. 280-124.00f.

Cioni, Paolo. Motorized landscaping machine carrying one or more landscaping appliances and capable of automatically circumventing obstacles. 3,750,376, 8-7-73, Cl. 56-10.400.

Ciotti, Antonio Pasquale, to Auto Anti-Pollution Devices of Canada Limited. High pressure valves. 3,709,255, 1-9-73, Cl. 137-614.190.

Cipolla, Henry E. Collapsible container. 3,746,203, 7-17-73, Cl. 220-6.000.

Cipriani, Domenico: *See—*
Balke, Roy Leonard; and Cipriani, Domenico, 3,735,169.

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Aigenson, Alexandr Sergeevich; Fryazinov, Vladimir Vasilievich; Malikov, Fatkulla Khairullovich; Sabadash, Julia Sergeevna,; Akimov, Vladimir Stefanovich; Dobrozrakova, Natalia Ivanovna; Berg, Genrikh Arturovich; Ezhov, Boris Mikhailovich; Vorms, Georgy Alonsovich; Kubicka, Rudolf; Yaroslav, Veprek; and Cir, Yaroslav, 3,714,025.

Ciraolo, Samuel. Pollution preventing exhaust device. 3,747,347, 7-24-73, Cl. 60-309.000.

Ciraud, Pierre Alfred Leon. Device for heating and cooling various products. 3,768,552, 10-30-73, Cl. 165-107.000.

Ciraudon, Raymond, to Rhone-Poulenc S.A. Thiazolidine derivatives. 3,759,938, 9-18-73, Cl. 260-300.700.

Circa Tran. Inc.: *See—*
Fottler, Stanley A., 3,717,742.

Circelli, Peter A., to American Technical Industries, Inc. Hinged plug-in branch attachment. 3,746,600, 7-17-73, Cl. 161-14.000.

Circle F Industries, Inc.: *See—*
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Circuit Equipment Corporation: *See—*
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Circuit-Stik, Inc.: *See—*
May, Donald L., 3,774,232.

Cirgenski, Adam, Jr.; and Stilles, Vernon C., to Stile-King Stairs, Inc. and Scholz Homes, Inc. Method of making curved staircase. 3,732,609, 5-15-73, Cl. 29-428.000.

Ciribelli, Giorgio. Equipment for milking. 3,752,122, 8-14-73, Cl. 119-14.040.

Cirino, John C., to Sales, Gregory, Co. Motion sensitive alarm system. 3,725,890, 4-3-73, Cl. 340-262.000.

Cirone, Joseph. Anchor for zipper handle. 3,754,306, 8-28-73, Cl. 24-205.14r.

Cirson, Harold Vivian: *See—*
Marks, Austin Cedric; and Cirson, Harold Vivian, 3,742,905.

Cirulis, Uldis: *See—*
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Cirulis, Uldis, to Nusonics, Inc. Acoustic flowmeter. 3,720,105, 3-13-73, Cl. 73-194.00a.

CIS Radiopharmaceuticals Inc.: *See—*
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Cisar, James R.: *See—*
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Ciskowski, Jerome C. Method for making shaded artwork. 3,726,702, 4-10-73, Cl. 117-37.00r.

Cisney, Merle E., to Crown Zellerbach Corporation. Phenolic thioethers and process for preparing same. 3,751,483, 8-7-73, Cl. 260-609.00f.

Cissell, W. M., Manufacturing Company: *See—*
Blevens, Bertram G., 3,726,451.
Blevens, Bertram G.; Wallace, Marshall E.; and Goodman, Walter P., 3,732,628.
Richterkessing, Frank H., 3,726,450.
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Cistone, David R., to Kerr Glass Manufacturing Corporation. Closure. 3,776,407, 12-4-73, Cl. 215-9.000.

C.I.T. Ralphs Limited: *See—*
Mawhy, Roger Frederick, 3,779,426.

C.I.T.-Compagnie Industrielle des Telecommunications: *See—*
Boyer, Marcel-Louis, 3,711,647.
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Citek, Francis J.: *See—*
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Cities Service Company: *See—*
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Barker, James E., 3,725,535.
Bendzick, Marvin F., 3,734,595.
Breza, Michael Joseph, 3,730,929.
Callan, John E., 3,758,001.
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Hare, Paul N., 3,730,663.
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Harris, Dale K.; and Soulier, Louis R., 3,710,559.
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Cities Service Oil Company: *See—*
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Aldrich, Charles A.; and Land, Karl M., 3,735,338.
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Brown, Larry P., 3,730,274.
Brown, Larry P., 3,744,565.
Brown, Larry P.; and Rhoades, Vaughan W., 3,779,421.
Byrd, Ottis G., 3,720,266.
Darby, Embree L., 3,737,189.
Grady, Guido O.; Swalley, Everett L.; and Swift, Sam C., 3,729,981.
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Hartman, David A., 3,775,319.
Kerschner, Paul M.; and Marcellis, Alphonso W., 3,761,434.
Kerschner, Paul M.; Badin, Elmer J.; and Cresti, Aldo, 3,779,724.
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Lockwood, William H., Jr.; and Hebert, Hugh P., 3,749,666.
Milsom, Daniel, 3,772,197.
Murphy, Bob G.; and Scott, J. O., 3,720,263.
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Cities Service Research & Development Company: *See—*
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Citizen Watch Co., Ltd.: *See—*
Barozzi, Gian Piero; and Horeschi, Giancarlo, 3,722,795.
Hiraga, Michio; and Yoshida, Makoto, 3,733,803.
Iinume, Yoshio, 3,777,472.
Iwasawa, Hiroshi, 3,709,324.
Kato, Yoshiaki; and Mabuchi, Hiroshi, 3,780,518.
Komiyama, Katsuhiko; and Iinuma, Yoshio, 3,762,153.
Koshi, Ryoichiro; Barozzi, Gian Piero; and Horeschi, Giancarlo, 3,741,470.
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Nikaido, Akira; Onda, Mitsuo; Nakajima, Fumio; Okano, Terutaka; Machida, Takayasu; Toida, Takashi; and Yanagawa, Yoshihiko, 3,731,125.
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Samura, Hiroyoshi; Nagashima, Mitsuyoshi; and Washimine, Osamu, 3,747,185.
Tanaka, Kazuo; Tsuzuki, Akira; and Matsumura, Tetsuo, 3,716,983.
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Citizen Watch Company, Limited: *See—*
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Citrex, S.A.: *See—*
Smeets, Alfred, 3,720,621.

Citrin, Paul Stuart, to Sieburg Industries Incorporated. Method and device for article working such as fracturing of semiconductor slices and separating semiconductor chips. 3,707,760, 1-2-73, Cl. 29-413.000.

Citrin, Paul Stuart, to Sieburg Industries, Incorporated. Indexing device for drafting instrument. 3,762,055, 10-2-73, Cl. 33-81.000.

Citrin, Yale; and Imperatore, Thomas, to Thermocycle, Inc. Elevator heat controlled safety circuit. 3,726,364, 4-10-73, Cl. 187-29.00r.

Citroen S.A. (Automobiles Citroen Berliet, Panhard): *See—*
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Citron, Bengt: *See—*
Lindstrom, Bengt; Citron, Bengt; Nelenius, Erik; Karlsson, Ingemar; and Rosby, Sven-Olof, 3,759,434.
Olbrant, Goran; Citron, Bengt; Rosby, Sven-Olof; and Sandblad, Krister, 3,775,806.

Citron, Joel D., to Du Pont de Nemours, E. I., and Company. Polymers having silicon containing end groups and a process for their preparation. 3,775,386, 11-27-73, Cl. 260-80.30e.

Citron, Joel D., to Du Pont de Nemours, E. I., and Company. Silicon substituted azonitiles. 3,778,430, 12-11-73, Cl. 260-192.000.

Citrus State of Florida, Department of: *See—*
Barron, Rodger W.; Fellers, Paul J.; and Huggart, Richard L., 3,725,083.

City National Bank of Detroit: *See—*
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City of Hope: *See—*
Rodbard, Simon; and Mount, Bruce E., 3,773,033.

City Tank Corporation: *See—*
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Ciuffini, Anthony J.; and Galen, Joseph J., to Xerox Corporation. Infrared sensitive image retention photoreceptor. 3,709,683, 1-9-73, Cl. 96-1.00r.

Ciuffini, Anthony J., to Xerox Corporation. Ambipolar photoreceptor and method. 3,712,810, 1-23-73, Cl. 96-1.500.

Ciuffini, Anthony J.; Galen, Joseph J.; and Relyea, Lloyd A., to Xerox Corporation. Evaporation crucible. 3,748,089, 7-24-73, Cl. 432-263.000.

Ciufu, Virgil: *See—*
Borcoman, Mircea; and Ciufu, Virgil, 3,720,493.

Ciuzio, Richard T.: *See—*
Kreizel, William J.; and Ciuzio, Richard T., 3,730,109.

Civardi, Frank P.; and Lattarulo, Charles J., to Inmont Corporation. Process for densifying a microporous elastomeric polyurethane sheet material. 3,763,301, 10-2-73, Cl. 264-321.000.

Civardi, Frank Peter: *See—*
Harrington, Gene Norman; and Civardi, Frank Peter, 3,776,790.
Loew, Frederic Christian; Stone, Edward; and Civardi, Frank Peter, 3,709,864.

Civardi, Frank Peter; and Kuenstler, Hans-George. Treating microporous material. 3,716,397, 2-13-73, Cl. 117-77.000.

Civardi, Frank Peter; and Kuenstler, Hans Georg, to Inmont Corporation. Surface treatment of microporous surface of sheet material and product produced. 3,764,363, 10-9-73, Cl. 117-10.000.

Civitarese, Joseph A. Conveyor suspension track and trolley system. 3,724,387, 4-3-73, Cl. 104-93.000.

Cizek, Arthur: *See—*
Rice, Herbert L.; Cizek, Arthur; and Thaemar, Marvin O., 3,756,257.

Claar, Ethamore F.: *See—*
Oaks, Seibert S.; and Claar, Ethamore F., 3,752,515.

Claasen, Antonius Bernardus. Herb spoon. 3,755,895, 9-4-73, Cl. 30-326.000.

Claassen, Peter J. M. W.: *See—*
Van der Loos, Josef L. M.; and Claassen, Peter J. M. W., 3,770,689.

Clabburn, Robin James Thomas, to Rachem Corporation. Heat recoverable articles. 3,721,749, 3-20-73, Cl. 174-88.00r.

Clachan, Margaret Loudon; and Pears, Gordon Edmund Alfred, to Imperial Chemical Industries Limited. Hydrophobic film coated with acid-modified butadiene copolymer. 3,775,160, 11-27-73, Cl. 117-76.00f.

Clad Metals Corporation: *See—*
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Clae, Eugene J., to Hahn & Clay. Method of manufacturing a pressure vessel assembly. 3,774,296, 11-27-73, Cl. 29-471.300.

Claes, Frans Henri: *See—*
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Florens, Raymond Leopold; Claes, Frans Henri; and Moisar, Erik, 3,709,689.

Claes, Karel. Injection moulding machines, particularly to the injection head thereof and to the injection moulds used therewith. 3,762,849, 10-2-73, Cl. 425-190.000.

Claesson, Carl Olof: *See—*
Troberg, Bengt Erik Mikael; and Claesson, Carl Olof, 3,754,532.

Claesson, Georg; and Battini, Renato, to RIV-SKF Officine di Villar Perosa S.p.A. Heat treatment apparatus. 3,727,896, 4-17-73, Cl. 266-4.00r.

Claflin, Hyle K.; and Belke, Jack T., to Westran Corporation. Double flanged support leg. 3,729,212, 4-24-73, Cl. 280-150.500.

Claflin, Hyle K.; and Belke, Jack T., to Westran Corporation. Trailer landing gear foot. 3,751,067, 8-7-73, Cl. 280-150.500.

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Claiborne, Jefferson L., to Dixie Yarns, Inc. Pressure relief system for dyeing apparatus. 3,751,946, 8-14-73, Cl. 68-12.00r.

Claiborne, Jefferson Lyle, to Dixie Yarns, Inc. Method and apparatus for determining the knitability of yarns. 3,757,536, 9-11-73, Cl. 66-1.00r.

Clair Mfg. Co., Inc.: *See—*
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Clair, Rene: *See—*
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Halasz, Alexander, 3,743,678.
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Walter, Henry J.; and Levine, Harvey, 3,721,250.
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Claisse, Jacques B.; Mitrani, Moni S.; and Berland, Jean-Rene, to Societe Anonyme de Telecommunications. Automatic phase adjustment system for the demodulation of single sideband transmitted coded rhythmic signals. 3,731,212, 5-1-73, Cl. 329-50.000.

Clampitt, Bert H.: *See—*
Gilbert, Ronald E.; Jamieson, Donald R.; and Clampitt, Bert H., 3,711,456.

Clampitt, Bert Howard; Henry, Raymond Myrl; and Jones, Joseph William, Jr., to Gulf Research & Development Company. Method of preparing stable copolymers of ethylene and at least one ethylenically unsaturated carboxylic acid and the product obtained thereb. 3,769,261, 10-30-73, Cl. 260-45.90r.

Clampitt, John Aaron: *See—*
Petrie, James Alexander; Gardiner, Terence Edward Gouvenot; and Clampitt, John Aaron, 3,709,637.

Clampitt, Richard L.: *See—*
Hessert, James E.; and Clampitt, Richard L., 3,749,172.

Clampitt, Richard L.; and Hessert, James E., to Phillips Petroleum Company. Aqueous gels and uses thereof. 3,727,687, 4-17-73, Cl. 166-274.000.

Clampitt, Richard L., to Phillips Petroleum Company. Hydraulic fracturing method. 3,727,688, 4-17-73, Cl. 166-283.000.

Clampitt, Richard L., to Phillips Petroleum Company. Hydraulic fracturing. 3,727,689, 4-17-73, Cl. 166-283.000.

Clampitt, Richard L.; and Curzon, James E., to Phillips Petroleum Company. Secondary recovery methods. 3,757,863, 9-11-73, Cl. 166-307.000.

Clanan, Wayne N. Combination wheel chair and commode chair. 3,769,638, 11-6-73, Cl. 4-134.000.

Clancey, James T.; Phinney, John A.; Regan, Thomas J.; and Wasp, Edward J., to Consolidation Coal Company. Fuel composition. 3,762,887, 10-2-73, Cl. 44-51.000.

Clancy, John J.; Rafferty, John W.; and Wells, Robert C., to Little, Arthur D., Inc. Method of making porous applicator structures. 3,755,517, 8-28-73, Cl. 264-41.000.

Clancy, Lawrence F.: *See—*
Bowen, Harry H.; Clancy, Lawrence F.; and Jorgensen, Stanley A., 3,773,128.

Clapham, Leslie, to United Kingdom Atomic Energy Authority. Nuclear reactor fuel elements. 3,775,249, 11-27-73, Cl. 176-78.000.

Clapham, Thomas J. Magnetic Clock. 3,775,963, 12-4-73, Cl. 58-23.00d.

Clapham, Thomas Miller, to Calgon Corporation. Bonded activated carbon air filter. 3,721,072, 3-20-73, Cl. 55-387.000.

Clapp, Charles C.: *See—*
Blickenderfer, Charles, Jr.; Erickson, Harold E.; and Clapp, Charles C., 3,762,366.

Clapp, James Wellington: *See—*
Lies, Thomas Andrew; and Clapp, James Wellington, 3,723,494.

Clapp, Kenneth Edward, to Atlas Chemical Industries, Inc. Granular to powdered activated carbon in polluted water purification process. 3,767,570, 10-23-73, Cl. 210-16.000.

Clapp, Malcolm: *See—*
Ford, Brian; and Clapp, Malcolm, 3,721,420.

Clapper, Genung Leland, to International Business Machines Corporation. Connected word recognition system. 3,770,892, 11-6-73, Cl. 179-1.0sb.

Clapper, Steven L., to Motorola, Inc. Resettable binary flip-flop of the semiconductor type. 3,753,009, 8-14-73, Cl. 307-279.000.

Claps, William A., to Coulter Electronics, Inc. Noise discriminating circuitry and method for electronic particle study apparatus. 3,781,674, 12-25-73, Cl. 324-71.0cp.

Clare, C. P., & Co.: *See—*
Hjermstad, Hans U.; and Kopp, Carl J., 3,730,005.

Clare-Pendar Co.: *See—*
Kerns, Frank F., Jr., 3,771,636.

Claren, Otto Bernd: *See—*
Suter, Hubert; Jahn, Juergen; Janka, Franz; Brunnmueller, Friedrich; and Claren, Otto Bernd, 3,734,951.

Claret, Rene; and Picard, Jean Francois, to Societe d'Applications Generales d'Electricite et de Mecanique SAGEM. Optical monitoring system. 3,778,167, 12-11-73, Cl. 356-167.000.

Claridge, Maurice Arthur; and Cowe, Peter Lyndon, to Laporte Industries, Limited. Treatment of oxide pigments. 3,767,455, 10-23-73, Cl. 117-65.200.

Clarion Co., Ltd.: *See—*
Kawaguchi, Suezi; Miura, Kozo; Esaki, Shigenobu; and Hirase, Takahiro, 3,771,159.

Clark & Vicario Corporation: *See—*
Kaiser, Robert George, 3,720,315.

Clark, Adrian Percy, to Plessey Telecommunications Research Limited. Electrical signalling systems using correlation detectors. 3,720,789, 3-13-73, Cl. 179-15.0bc.

Clark, Albert M.: *See—*
Johnston, Norris; and Latker, Mark, 3,777,887.

Clark, Alex L., Limited: *See—*
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Clark, Alexander Jay: *See—*
Barney, Trentis E.; and Clark, Alexander Jay, 3,708,175.

Clark, Alfred J., to Motorola, Inc. Automatic tuning apparatus for a radio receiver. 3,745,469, 7-10-73, Cl. 325-471.000.

Clark, Allan B.; and Reed, David A., to Harris-Intertype Corporation. Label reject mechanism. 3,772,123, 11-13-73, Cl. 156-357.000.

Clark, Anthony Philip, to B & K Machinery International, Limited. Differential drive for tension rollers. 3,764,050, 10-9-73, Cl. 226-25.000.

Clark, Arthur C., to Holiday Vehicle Specialties, Inc. Vehicular steps. 3,743,320, 7-3-73, Cl. 280-166.000.

Clark, Arthur Wellesley Stewart: *See—*
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Clark Automation, Inc.: *See—*
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Clark, Burton P.: *See—*
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Tassie, Douglas P.; and Clark, Burton P., 3,722,356.

Clark, Carl C. Retro-rocket braking system for land vehicles. 3,719,256, 3-6-73, Cl. 188-2.00r.

Clark, Cecil M. Meat tenderizing machine. 3,727,267, 4-17-73, Cl. 17-25.000.

Clark, Charles T., Jr., to Polar Corporation. Coded radiation reflective lock. 3,769,514, 10-30-73, Cl. 250-341.000.

Clark, Charles T., Jr., to Polar Corporation. Electro-optical lock and method. 3,769,515, 10-30-73, Cl. 250-341.000.

Clark, Charles William, to Borden, Inc. Cap tester. 3,724,655, 4-3-73, Cl. 209-73.000.

Clark, Charles William. Automatic coin-operated photographic apparatus utilizing self-developing film units. 3,744,389, 7-10-73, Cl. 95-14.000.

Clark, Charles William. Automatic coin-operated photographic apparatus utilizing self-developing film units. 3,744,390, 7-10-73, Cl. 95-14.000.

Clark, Chesley: *See—*
Rentz, Albert Ward; Clark, Chesley; Diebold, James P.; and Eldridge, Judson B., 3,765,334.

Clark, Chester G.: *See—*
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Minbiole, Louis J., Jr.; Clark, Chester G.; and Neumann, John W., 3,751,297.
Neumann, John W.; Clark, Chester G.; and Minbiole, Louis J., Jr., 3,748,177.

Clark, Chester G., to Oxy Metal Finishing Corporation. Work carrier lift and transfer mechanism. 3,770,150, 11-6-73, Cl. 214-89.000.

Clark, Claud W. Hygenic appliance. 3,759,254, 9-18-73, Cl. 128-79.000.

Clark, Daivd A. Container with reclosable pull-out pouring spout. 3,743,164, 7-3-73, Cl. 229-17.00r.

Clark, David P., to Exact Weight Scale Company, Inc., The. Weighing and delivery apparatus with initial volumetric dose and dribble feed. 3,720,286, 3-13-73, Cl. 177-81.000.

Clark, David William Harold; and Threlfall, Terence Leslie, to May & Baker, Limited. Pigments. 3,767,443, 10-23-73, Cl. 106-291.000.

Clark, Donald B., to National Cash Register Company, The. Process for film-coating articles. 3,775,172, 11-27-73, Cl. 117-155.0ua.

Clark, Donald E.: *See—*
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Clark, Douglas Copeland: *See—*
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Clark, Earl D., to Ohio Art Company, The. Tracing device. 3,760,505, 9-25-73, Cl. 33-18.00r.

Clark, Earl E.: *See—*
Driscoll, James R.; Clark, Earl E.; and Haas, Thomas J., 3,767,340.

Clark, Earl R. Screen for a terrarium. 3,753,314, 8-21-73, Cl. 47-34.110.

Clark, Edward L. Apparatus for making welts. 3,712,842, 1-23-73, Cl. 156-464.000.

Clark, Edward L., to Research Corporation. Article of furniture and method of forming same. 3,754,585, 8-28-73, Cl. 144-314.00b.

Clark, Edward Watson. Textile fibre combing machines. 3,718,944, 3-673, Cl. 19-123.000.
Clark, Edward Watson, to Woolcombers Limited; a/t/a Westbrook Lanolin Company. Production of iodophors of chlorinated alkoxylated wool grease. 3,770,784, 11-6-73, Cl. 260-408.000.
Clark, Edwin E.; and Florig, Albert J., said Clark assor to Bulk Liner Corporation. Convertible hopper. 3,756,469, 9-4-73, Cl. 222-105.000.
Clark, Emmett T. Tobacco curing. 3,773,054, 11-20-73, Cl. 131-133.00a.
Clark Equipment Company: *See*—
Barda, Rudolph C.; and Ward, William H., 3,754,673.
Bauer, James J., 3,732,996.
Bishop, Arlo G., 3,709,252.
Burch, Arthur R.; and Bates, Charles E., 3,746,189.
Conrad, Marcus L., 3,724,585.
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Dean, Harold F., 3,730,288.
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Clark Equipment Company, mesne: *See*—
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Clark, Ernest E., to Phillips Petroleum Company. Underwater drilling and production vessel. 3,709,307, 1-9-73, Cl. 175-8.000.
Clark, Eugene F.; deceased (by Clark, Ursa W.; heir), to Fieldcrest Mills, Inc. Woven pile fabrics. 3,716,078, 2-13-73, Cl. 139-399.000.
Clark, Eugene F.; deceased (by Clark, Ursa W.; heir), to Fieldcrest Mills, Inc. Method and apparatus for weaving pile fabrics. 3,741,254, 6-26-73, Cl. 139-2.000.
Clark, Eugene V.: *See*—
Commanday, Maurice R.; Clark, Eugene V.; and Baladjanian, Gregor, 3,711,909.
Clark, Eugene V.; Martin, William J.; Plambeck, Peter J.; and Commanday, Maurice R., to Chromalloy American Corporation. Diffusion coating of jet engine components and like structures. 3,779,719, 12-18-73, Cl. 29-197.000.
Clark, Francis C.: *See*—
Picciano, Eugene A.; Clark, Francis C.; and Neggers, Frank J., 3,730,374.
Clark, Frank E., to Container Corporation of America. Multi-wall container. 3,734,392, 5-22-73, Cl. 229-34.000.
Clark, Frank S., to Monsanto Company. Polyphenyl thioether lubricating compositions. 3,714,043, 1-30-73, Cl. 252-46.700.
Clark, Frank S., to Monsanto Company. Polyphenyl thioether lubricating compositions. 3,718,590, 2-27-73, Cl. 252-46.700.
Clark, Frank S., to Monsanto Company. Polyphenyl thioether lubricating compositions. 3,720,614, 3-13-73, Cl. 252-46.700.
Clark, Frank S., to Monsanto Company. Polyphenyl thioeter lubricating compositions. 3,748,269, 7-24-73, Cl. 252-46.600.
Clark, Frank S.; and Bannister, Loren W., to Monsanto Company. Compositions comprising boron compounds and polyphenyl thioethers. 3,751,367, 8-7-73, Cl. 252-78.000.
Clark, Frank S.; and Bannister, Loren W., to Monsanto Company. Compositions comprising boron compounds and polyphenyl thioethers. 3,751,368, 8-7-73, Cl. 252-78.000.
Clark, Frank S.; and Bannister, Loren W., to Monsanto Company. Compositions comprising boron compounds and polyphenyl thioethers. 3,755,175, 8-28-73, Cl. 252-78.000.
Clark, Frank S.; and Bannister, Loren W., to Monsanto Company. Compositions comprising boron compounds and polyphenyl thioethers. 3,755,178, 8-28-73, Cl. 252-78.000.
Clark, Frank S.; and Fink, Walter, to Monsanto Company. Low pour point fluids and blends containing same. 3,767,691, 10-23-73, Cl. 260-448.20n.
Clark, Frank S., to Monsanto Company. Phenoxyphenylphosphinic acids and improved polyphenyl thioether lubricating compositions. 3,778,472, 12-11-73, Cl. 260-502.40r.
Clark, Frederick G., to Eastman Machine Company. Knife sharpening mechanism. 3,775,913, 12-4-73, Cl. 51-246.000.
Clark, Gaylord J. Method of making a brush structure. 3,765,726, 10-16-73, Cl. 300-21.000.
Clark, George B., to Aqua-Chem, Inc. Reverse osmosis membrane module and apparatus using the same. 3,708,069, 1-2-73, Cl. 210-181.000.
Clark, George B., to Aqua-Chem, Inc. Reverse osmosis separation apparatus. 3,716,143, 2-13-73, Cl. 210-321.000.
Clark, George B., to Aqua-Chem, Inc. Membrane module. 3,737,043, 6-5-73, Cl. 210-321.000.
Clark, George M.: *See*—
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Clark, Gordon J., to Textron, Inc. Apparatus for bonding bearing liners. 3,779,828, 12-18-73, Cl. 156-358.000.
Clark, Hal J.: *See*—
Wells, Victor S.; and Clark, Hal J., 3,709,330.
Clark, Harlan C., to United States of America, Army, mesne. Ammunition link. 3,710,680, 1-16-73, Cl. 89-35.00a.
Clark, Harold A., to Dow Corning Corporation. Phenoxyphenyl silanes. 3,770,790, 11-6-73, Cl. 260-448.20b.
Clark, Harold C. Oil well slip handle. 3,740,802, 6-26-73, Cl. 24-263.0ha.
Clark, Harold C. Oil well slip handle with rotatable components. 3,751,773, 8-14-73, Cl. 24-263.0ha.
Clark, Harry C. Tooth for backhoe bucket. 3,724,899, 4-3-73, Cl. 299-26.000.
Clark, Herbert D., to Universal Oil Products, Company. Protecting metal during acid contact. 3,778,377, 12-11-73, Cl. 252-82.000.
Clark, Howard G. Apparatus and method for measuring blood characteristics. 3,766,774, 10-23-73, Cl. 73-64.100.
Clark, Hubert M.: *See*—
Drutchas, Gilbert H.; Clark, Hubert M.; and Melendy, Harold A., 3,730,653.
Clark, Hubert M.; and Drutchas, Gilbert H., to TRW Inc. Power steering pump. 3,728,046, 4-17-73, Cl. 417-79.000.
Clark, Hubert M.; and Berman, George A., to TRW Inc. Pump housing for use with top mounted or remote mounted reservoirs. 3,738,784, 6-12-73, Cl. 418-270.000.
Clark, J. L., Manufacturing Co.: *See*—
Foster, John A., 3,731,832.
Foster, John A., 3,737,129.
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Laing, Robert B.; and Solowiejko, George, 3,773,227.
Clark, Jack D.: *See*—
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Clark, James; McMenim, Michael Edward; and Rose, Francis Leslie, to Imperial Chemical Industries, Limited. Process for amino-s-triazolo-[4,3-a] pyrozines. 3,749,719, 7-31-73, Cl. 260-250.00r.
Clark, James A., to Clark Mobilizer, Inc. Therapeutic vibrating machine. 3,752,154, 8-14-73, Cl. 128-33.000.
Clark, James Arthur. Illuminable question and answer board. 3,766,665, 10-23-73, Cl. 35-9.00b.
Clark, James M., to International Telephone and Telegraph Corporation. Frame synchronization system for a digital communication system. 3,735,045, 5-22-73, Cl. 178-69.50r.
Clark, James M.; and Haussmann, Robert H., to International Telephone and Telegraph Corporation. Asynchronous time division multiplexer and demultiplexer. 3,742,145, 6-26-73, Cl. 179-15.0ba.
Clark, James M., to International Telephone and Telegraph Corporation. Frame synchronization system. 3,754,102, 8-21-73, Cl. 179-15.0bs.
Clark, James W.: *See*—
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Clark, James Webster. Birdhouse sparrow trap. 3,778,922, 12-18-73, Cl. 43-61.000.
Clark, James William: *See*—
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Clark, Jared W.; and Reetenwald, Charles E., to Union Carbide Corporation. Azeotropic composition. 3,737,388, 6-5-73, Cl. 252-171.000.
Clark, Jared W.; and Reetenwald, Charles E., to Union Carbide Corporation. Azeotropic composition. 3,737,389, 6-5-73, Cl. 252-171.000.



Clark, Jared W.; and Rectenwald, Charles E., to Union Carbide Corporation. Azeotropic composition. 3,737,390, 6-5-73, Cl. 252-171.000.
Clark, Jared W. Method of making $NH_4$-$NO_3$-$H_2O$-FO composition. 3,764,421, 10-9-73, Cl. 149-46.000.
Clark, Jerald R., to Farmers Investment Company. Weed cutter. 3,750,377, 8-7-73, Cl. 56-10.400.
Clark, Jim W. Automobile tape cartridge dispensing case. 3,752,551, 8-14-73, Cl. 312-245.000.
Clark, John A., Jr., to Patterson-Kelley Co. Inc., The. Water heating system. 3,730,261, 5-1-73, Cl. 165-39.000.
Clark, John B. Direct reading aberration-free compensator with adjustable sensitivity for use in white light interferometry. 3,723,009, 3-27-73, Cl. 356-107.000.
Clark, John C.: *See*—
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Clark, John E., to Ritt Laboratories, Inc. Secrecy communication system. 3,731,197, 5-1-73, Cl. 325-32.000.
Clark, John M., Jr.: *See*—
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Clark, John Patrick: *See*—
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Clark, John R. Tire traction device. 3,736,970, 6-5-73, Cl. 152-226.000.
Clark, John R.; and Bluestein, Claire, to Witco Chemical Corporation. Sulfone-ester compounds as plasticizers for polyvinyl fluoride resins. 3,779,975, 12-18-73, Cl. 260-30.8pr.
Clark, Joseph E.: *See*—
White, Sheldon S.; Ty, Henry; Ornstein, Jacob L.; Dudovicz, Wesley V.; Dubuc, Rene A.; and Clark, Joseph E., 3,755,881.
Clark, Joseph N.: *See*—
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Clark, Joseph N.; Crossan, Irvin D.; and Toporcer, Louis H., to Dow Corning Corporation. Amidosilicon low modulus room temperature vulcanizable silicone elastomer. 3,766,127, 10-16-73, Cl. 260-37.0sb.
Clark, Keith Jasper, to Imperial Chemical Industries Limited. Polyolefin compositions comprising polymerized 4-methyl-pentene-1. 3,755,500, 8-28-73, Cl. 260-878.00r.
Clark, Kenneth G.; Cook, Thomas J.; De Pass, Ernest T.; and Manfredonia, Abraham, to Union Camp Corporation. Honeycomb making machine. 3,713,954, 1-30-73, Cl. 156-548.000.
Clark, Kenneth G.; De Pass, Ernest T.; Manfredonia, Abraham J.; and Reiter, Eugene A., to Union Camp Corporation. Holder for large box blanks. 3,776,109, 12-4-73, Cl. 93-49.00r.
Clark, Kenneth M., to Deutsch Company Electronic Components Division, The. Electrical connector. 3,727,172, 4-10-73, Cl. 339-59.00m.
Clark, Loris D., to Koehring Company. Solid state safety control for fuel burning apparatus. 3,741,709, 6-26-73, Cl. 431-79.000.
Clark, Lowell E., to Motorola, Inc. Insulated gate field-effect transistor input protection circuit. 3,746,946, 7-17-73, Cl. 317-235.000.
Clark, Lowell E., to Motorola, Inc. Transistor with improved breakdown mode. 3,758,831, 9-11-73, Cl. 317-235.00r.
Clark, Margie Irene. Bedside rail cover. 3,742,530, 7-3-73, Cl. 5-331.000.
Clark, Marion A. Variable speed lever action bicycle drive. 3,759,543, 9-18-73, Cl. 280-236.000.
Clark, Marvin A. Solderless electrical outlet assembly for service cord. 3,710,305, 1-9-73, Cl. 339-97.00r.
Clark, Marvin A. Service cord fitting and connector. 3,750,089, 7-31-73, Cl. 339-97.00r.
Clark, Marvin A. Modular element for a solderless expandable terminal strip. 3,771,104, 11-6-73, Cl. 339-31.00r.
Clark, Merle Myron, to Babcock & Wilcox Company, The. Fuel burner. 3,711,239, 1-16-73, Cl. 431-188.000.
Clark, Michale Gordon; and Bhatty, Saleem Sabir, to Union Carbide Canada Limited. Water proof electrical cable. 3,733,427, 5-15-73, Cl. 174-23.00c.
Clark Mobilizer, Inc.: *See*—
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Clark, Nigel George: *See*—
Baker, Maurice William; Crowley, Jennifer; Watkins, Thomas Iswel; and Clark, Nigel George, 3,732,238.
Clark, Paul H., Jr., to Postelle Rod Service, Inc. Method and apparatus for modifying sucker rod. 3,774,292, 11-27-73, Cl. 29-426.000.
Clark, Paul P., to Sturgis Molded Products Company. Mold design incorporating a collet. 3,774,874, 11-27-73, Cl. 249-59.000.
Clark, Peter I.: *See*—
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Clark, Peter Stanley: *See*—
Nangarrow, John; Jones, Paul Victor; and Clark, Peter Stanley, 3,749,628.
Clark, Peter Stanley; and Hobbins, David William, to Foseco Trading A.G. Fibre containing compositions. 3,752,721, 8-14-73, Cl. 156-148.000.
Clark, Peter Stanley, to Foseco International, Limited. Titanium oxides in electroslag processes. 3,771,997, 11-13-73, Cl. 75-10.00r.
Clark, Raymond; and Knutson, Dale A., to Applied Power Industries, Inc. Steering system. 3,722,367, 3-27-73, Cl. 91-367.000.
Clark, Reginald Thomas, to Alfa-Laval AB. Method and apparatus for making cheese. 3,716,376, 2-13-73, Cl. 99-115.000.
Clark, Reuben B., IV, to Fox Products Company. Animal operated watering device. 3,756,199, 9-4-73, Cl. 119-72.500.
Clark, Richard J., to Rex Chainbelt Inc. Solenoid operated valve. 3,717,179, 2-20-73, Cl. 137-625.650.
Clark, Robert A.; and Helgeson, Peter L., to Raytheon Company. Portable oven. 3,724,440, 4-3-73, Cl. 126-9.00r.
Clark, Robert John, to RCA Corporation. Multiple terminal display system. 3,774,158, 11-20-73, Cl. 340-172.500.
Clark, Robert L.: *See*—
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Clark, Robert L.; and Pessolano, Arsenio A., to Merck & Co., Inc. Imidazolium quaternary salts and methods of preparing the same. 3,755,325, 8-28-73, Cl. 260-256.40n.
Clark, Robert M., to I-T-E Imperial Corporation. Dielectric shield for plug-in contacts. 3,713,075, 1-23-73, Cl. 339-64.00r.
Clark, Robert O. Thermal motor and generator. 3,754,151, 8-21-73, Cl. 290-1.000.
Clark, Robert O. Valve responsive to air blast pressure or the like. 3,762,304, 10-2-73, Cl. 98-119.000.
Clark, Robert P.; and Freifeld, Milton, to GAF Corporation. Thickened acid compositions and methods for making same. 3,781,203, 12-25-73, Cl. 252-8.55c.
Clark, Robert S. Method for the production of structural bodies. 3,777,001, 12-4-73, Cl. 264-337.000.
Clark, Rodger A.: *See*—
Economy, James; and Clark, Rodger A., 3,714,111.
Economy, James; and Clark, Rodger A., 3,723,588.
Clark, Ronald John. Drying apparatus. 3,739,487, 6-19-73, Cl. 34-77.000.
Clark, Ruel R.: *See*—
De Hart, Guy K.; De Hart, Louis K.; and Clark, Ruel R., 3,770,093.
Clark, Russell C. Load anchoring device. 3,730,552, 5-1-73, Cl. 280-179.00r.
Clark, Samuel A., Jr., to United States of America, Army. Protective metal cap for plastic fuze radomes. 3,780,661, 12-25-73, Cl. 102-70.20p.
Clark, Samuel S.: *See*—
Morris, William A.; and Clark, Samuel S., 3,752,181.
Clark, Thomas E., to GTE Automatic Electric Laboratories, Incorporated. Monostable multivibrator with a long time constant and an auxiliary transistor for ensuring turn-on of the transistor conducting in the stable state. 3,742,258, 6-26-73, Cl. 307-273.00.
Clark, Thomas F., to Allis-Chalmers Corporation. Ground-test switch. 3,778,574, 12-11-73, Cl. 200-148.00b.
Clark, Ursa W.: *See*—
Clark, Eugene F., 3,716,078.
Clark, Eugene F., 3,741,254.
Clark, Walter W.: *See*—
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Clark, Wilbur R., to Landis Tool Company, mesne. Diameter brake and locking device for a rotatable shaft. 3,756,354, 9-4-73, Cl. 188-77.00r.
Clark, Willard, to Maul Bros., Inc. Lehr heating section. 3,741,554, 6-26-73, Cl. 432-146.000.
Clark, Willard; and Campbell, Charles, to Maul Bros., Inc. Method and apparatus for heat treating glassware. 3,778,245, 12-11-73, Cl. 65-119.000.
Clark, William. Escape device. 3,739,875, 6-19-53, Cl. 182-6.000.
Clark, William A., IV; Salmond, Kent A.; and Stafford, Thomas S., to International Business Machines Corporation. Input/output control. 3,725,864, 4-3-73, Cl. 340-172.500.
Clark, William B., to General Motors Corporation. Transmission shift control. 3,728,915, 4-24-73, Cl. 74-868.000.
Clark, William C.: *See*—
Houston, William L., Jr.; and Clark, William C., 3,775,506.
Clark, William E.: *See*—
Rifkin, Ernest; and Clark, William E., 3,727,835.
Clark, William H.; Greenlee, Thomas W.; and Toporcer, Louis H., to Dow Corning Corporation. Room temperature vulcanizable silicone elastomers containing metal hydrocarbonoxides. 3,719,634, 3-6-73, Cl. 260-46.50g.
Clark, William H.; Greenlee, Thomas W.; and Toporcer, Louis H., to Dow Corning Corporation. Metal hydrocarbonoxides in room temperature vulcanizable silicone elastomers. 3,719,635, 3-6-73, Cl. 260-46.50g.
Clark, William H.; and Hays, William R., to Dow Corning Corporation. Process of coating metal substrates with silicone elastomer. 3,772,066, 11-13-73, Cl. 117-132.0bs.

Clark, William J. Sway bar for vehicles. 3,765,702, 10-16-73, Cl. 280-446.00b.
Clark, William P.: *See—*
Charlton, Donald A.; and Clark, William P., 3,753,162.
Clark, William T. Method and means of presenting a planetarium display. 3,707,786, 1-2-73, Cl. 35-42.500.
Clark, Winifred. Hinge frame. 3,763,918, 10-9-73, Cl. 160-371.000.
Clark-Aiken Company: *See—*
Benbenek, Waldyn J.; Grosso, Frank A.; and Wellspeak, James G., 3,761,074.
Clark-Reliance Corporation, The: *See—*
Goellner, Allan R., 3,720,223.
Clarke, Allan M.: *See—*
Boetller, Albert J.; Clarke, Allan M.; and Wheatley, Roger W., 3,749,648.
Clarke and Smith Manufacturing Company: *See—*
Rayner, Wilfred H. G., 3,716,241.
Clarke, Anthony J.: *See—*
Fishbein, John; Bell, Raymond W. H.; and Clarke, Anthony J., 3,738,947.
Clarke, Arthur F., Jr. Multi-speed digital to synchro converters. 3,763,414, 10-2-73, Cl. 318-605.000.
Clarke, Brian James; Hildebrand, Robert Peter; Lance, David George; and White, Alexander William, to Carton and United Breweries Limited. Isomerised hop extract. 3,765,903, 10-16-73, Cl. 426-349.000.
Clarke Chapman-John Thompson Limited: *See—*
Fischer, Herbert, 3,770,136.
Clarke, Charles M.: *See—*
Rams, Michael J.; Rosenthal, Arnold J.; and Clarke, Charles M., 3,775,520.
Clarke, Clarence C.: *See—*
Brightman, Ben W.; and Clarke, Clarence C., 3,727,419.
Clarke, David W.: *See—*
Burnie, Robert T.; Clarke, David W.; and Hamilton, Wilson S., 3,766,123.
Clarke, Edwin E.: *See—*
Clarke, Edwin E.; and Florig, Albert J. (said Florig, Albert J. assor. to said), 3,731,828.
Clarke, Edwin E.; and Florig, Albert J., said Florig, Albert J. assor. to said Clarke, Edwin E. Bulk material handling system. 3,731,828, 5-8-73, Cl. 214-305.000.
Clarke, Edwin E.; and Florig, Albert J., said Clark, assor. to Bulk Liner Corporation. Bulk material handling system. 3,752,344, 8-14-73, Cl. 214-508.000.
Clarke, Ellis Whiteside. Means for controlling fluid flow. 3,779,507, 12-18-73, Cl. 251-9.000.
Clarke, Eric C.; and Lindsay, Iain Hardy, to Profile Identification (Proprietary) Limited. Indexing of plane shapes. 3,769,709, 11-6-73, Cl. 33-1.0bb.
Clarke, Eric Fifield Stuart; Cosier, James Edwin Henry; Kolanowski, Jan; Halls, Peter Seaton; and Laidlaw, Alexander Duncan Lindley, to Post Office, The. Apparatus for the laying or recovery of cables. 3,715,068, 2-6-73, Cl. 226-108.000.
Clarke, Gail H., Jr.; and Barnowski, Henry G., Jr., to Olin Corporation. Composition and method for stripping polyvinyl butyral primed coatings. 3,762,953, 10-2-73, Cl. 134-38.000.
Clarke, Ganton Webster: *See—*
Mac Kelvie, John Stewart; and Clarke, Ganton Webster, 3,758,845.
Clarke, Geoffrey, to Square D Company. Oscillator proximity detector with removable interchangeable sensing heads. 3,719,898, 3-6-73, Cl. 331-65.000.
Clarke, Henry C. N. Laparoscopy instruments and method for suturing and ligation. 3,763,860, 10-9-73, Cl. 128-334.000.
Clarke, James A., to Fairchild Industries, Inc. Aircraft canopy separation system. 3,721,407, 3-20-73, Cl. 244-121.000.
Clarke, James A., to Dow Chemical Company, The. Oxazolidinone modified epoxy novolac resin. 3,767,624, 10-23-73, Cl. 260-59.000.
Clarke, James F.; and Deprez, Thomas A., to Gleason Works, The. Apparatus for grinding toothed faced members. 3,731,433, 5-8-73, Cl. 51-34.00k.
Clarke, James F.; and Deprez, Thomas A. Apparatus for grinding toothed face members. 3,776,213, 12-4-73, Cl. 125-11.00c.
Clarke, James R.; and Obermeyer, Ernest J., to Ford Motor Company. Engine anti-diesel control. 3,744,470, 7-10-73, Cl. 123-198.0db.
Clarke, Jesse E., to Autoquip Corporation. Ambulatory elevator with folding platform. 3,749,201, 7-31-73, Cl. 187-9.000.
Clarke, John Colin: *See—*
Davies, John Moseley; and Clarke, John Colin, 3,774,392.
Clarke, John Lawton: *See—*
Allard, Robert; and Clarke, John Lawton, 3,721,981.
Allard, Robert; Bulman, Peter Joseph; Clarke, John Lawton; Prior, John Roger; and Sampson, Donald Frederick, 3,772,693.
Clarke, John W., to Lilly, Eli, and Company. Display container. 3,768,638, 10-30-73, Cl. 206-45.340.
Clarke, Noel. Method and apparatus for measuring the clumping of platelets in whole blood. 3,777,172, 12-4-73, Cl. 250-575.000.
Clarke, Peter J. Sputtering apparatus. 3,711,398, 1-16-73, Cl. 204-298.000.
Clarke, Philip. Harvesting container particularly for use in picking fruit. 3,757,985, 9-11-73, Cl. 220-29.000.
Clarke, Ray Allen; Kissa, Erik; and Stryker, Harvey I., to Du Pont de Nemours, E. I., and Company. Anionic dispersion of a salt of a cationic dye and a selected arylsulfonate. 3,765,835, 10-16-73, Cl. 8-41.00a.
Clarke, Raymond: *See—*
Johnston, Richard; and Clarke, Raymond, 3,758,273.
Clarke, Reginald L.: *See—*
Fahey, Denis; and Clarke, Reginald L., 3,724,146.
Clarke, Robert L.: *See—*
Shaw, Philip E.; Daum, Sol J.; and Clarke, Robert L., 3,755,361.
Clarke, Robert William: *See—*
Bysouth, Peter Thomas; and Clarke, Robert William, 3,732,229.
Clarke, Roderick Hope, to Decca Limited. Sealed housings for electronic or electrical equipment. 3,714,406, 1-30-73, Cl. 240-1.0el.
Clarke, Terence James Leonard: *See—*
Quarmby, Robert Charles; Clarke, Terence James Leonard; and Wright, Barry Charles Thomas, 3,766,359.
Clarkin, Edward J.; and Conlee, George D., to Nooter Corporation. Corner construction for reinforcing rib on tank made from thin sheet metal. 3,780,903, 12-25-73, Cl. 220-71.000.
Clarkson, Charles Heyd: *See—*
Cilderman, Janis; and Clarkson, Charles Heyd, 3,739,881.
Clarkson, Frederick C., Jr., to General Motors Corporation. Automatic setting motion-sensing control device. 3,734,460, 5-22-73, Cl. 251-321.000.
Clarkson Industries, Inc.: *See—*
Hoag, Don H., 3,768,657.
Lee, Wilfred J., 3,756,738.
Scott, Winfield H., Jr., 3,726,794.
Clarkson, W. J., Limited: *See—*
Bennison, Michael Newstead, 3,726,241.
Bennison, Michael Newstead, 3,754,520.
Dodsworth, Alfred Manston Heeley, 3,721,202.
Dodsworth, Alfred Manston Heeley, 3,749,038.
Clarostat Mfg. Co., Inc.: *See—*
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Clarricoats, Peter J. B., to Andrew Corporation. Low-loss waveguide transmission. 3,772,619, 11-13-73, Cl. 333-95.00r.
Clary Corporation: *See—*
Frydenberg, Donald V.; and Cain, Troy D., 3,716,179.
Frydenberg, Donald V., 3,730,236.
Frydenberg, Donald V., 3,757,422.
Clary, James Barney, to Bell Telephone Laboratories, Incorporated. FFT process and apparatus having equal delay at each stage or iteration. 3,746,848, 7-17-73, Cl. 235-156.000.
Clary, John G.; and Wirtz, Larry K., to Addmaster Corporation. Keyboard switch assembly with wire conductor matrix contact array. 3,723,673, 3-27-73, Cl. 200-1.00r.
Clary, John G., to Addmaster Corporation. Multi-color ribbon and mechanism. 3,754,504, 8-28-73, Cl. 101-336.000.
Clash, David Guernsey; and Kozak, Theodore Frederick, to Union Carbide Corporation. Method and apparatus for piercing thin sheet material. 3,762,255, 10-2-73, Cl. 83-309.000.
Clason, Jan C., to N.V. Fabriek Van Electriche Apparaten Voorheen F. Hazemiejer & Co. Method of applying a field control device to an insulated conductor of a cable and an apparatus for carrying out the method. 3,778,888, 12-18-73, Cl. 29-592.000.
Clasper, Thomas; Hutton, Wilfred H.; Kessinger, Orville E., Jr.; Randour, Victor; and Simpson, Fred E., to Caterpillar Tractor Company. Track idler wheel. 3,771,843, 11-13-73, Cl. 305-21.000.
Classe, Anthony V.; and Mehn, Robert P., to Maryland Plastics Incorporated. Animal cage. 3,752,123, 8-14-73, Cl. 119-17.000.
Classen, Franz; and Parrot, Jean-Marc, to Erste Deutsche Floatglas GmbH & Co. OHG. Float glass apparatus with means for inserting wire. 3,721,543, 3-20-73, Cl. 65-146.000.
Classen, Gunter, to Mannesmann-Meer Aktiengesellschaft. Injection molding machine. 3,716,323, 2-13-73, Cl. 425-450.000.
Clatterbuck, Carroll H.: *See—*
Fisher, Aaron; and Clatterbuck, Carroll H., 3,744,128.
Claude: *See—*
Divoix, Jacques Climeut; and Taxil, Marc V., 3,740,605.
Claude, Gueremy; Robert, Labey; and Roger, Thevenot, to Societe Generale de Recherches d'Applications Scientifiques "Sogeras". Pharmaceutical compositions comprising quinuclidinol derivatives. 3,714,357, 1-30-73, Cl. 424-267.000.
Claude, Henault, to Regie Nationale des Usines Renault and Automobiles Peugeot. Depollution gases. 3,733,829, 5-22-73, Cl. 60-289.000.
Claunch, Maxine, to Claunch, Ralph B. Hair protector. 3,750,681, 8-7-73, Cl. 132-49.000.
Claunch, Ralph B.: *See—*
Claunch, Maxine, 3,750,681.
Claus, George. Method and apparatus for continuous monitoring of dissolved organics. 3,751,167, 8-7-73, Cl. 356-51.000.





Claus, Hartmut, to Sachsenwerk Licht- und Kraft-Aktiengesellschaft. Electric switch material based on a blend of three epoxy components. 3,737,403, 6-5-73, Cl. 260-37.0ep.
Claus, Joseph V.; Landau, Michael B.; and Vartanian, George, to United States of America, Navy. Fuel cell system for underwater vehicle. 3,748,180, 7-24-73, Cl. 136-86.00b.
Claus-Christian, Corarg, to Braun Aktiengesellschaft. Flame adjusting device for gas lighters. 3,766,946, 10-23-73, Cl. 138-44.000.
Clausen, Claus; and Jensen, Frederick K., to Elektro-Ion, Inc. Nozzle for electrostatic powder spraying apparatus. 3,767,116, 10-23-73, Cl. 239-15.000.
Clausen, Erik; and Clausen, Johannes. Rear projection screen. 3,751,135, 8-7-73, Cl. 350-117.000.
Clausen, Erik; and Clausen, Johannes. Rear projection screen and method of making same. 3,779,630, 12-18-73, Cl. 350-117.000.
Clausen, Howard Fred: *See—*
Zaun, Richard David; and Clausen, Howard Fred, 3,750,211.
Clausen, Johannes: *See—*
Clausen, Erik; and Clausen, Johannes, 3,751,135.
Clausen, Erik; and Clausen, Johannes, 3,779,630.
Clausing, Challiss I.; and Pokorny, Frank J., to I-T-E Imperial Corporation. Shock-proof arc chute for high voltage circuit breaker with metallic arc plates having off-set lines of openings. 3,728,503, 4-17-73, Cl. 200-144.00r.
Clauson-Kaas, Niels: *See—*
Denss, Rolf; Clauson-Kaas, Niels; and Ostermayer, Franz, 3,729,559.
Denss, Rolf; Clauson-Kaas, Niels; and Ostermayer, Franz, 3,767,802.
Petersen, John Valdemar Brammer; and Clauson-Kaas, Niels, 3,711,490.
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Clauss, Charles E.: *See—*
Stamets, Melvin W.; and Clauss, Charles E., 3,712,516.
Clauss, Julius A., Jr.; Conley, Jack S.; and Lemon, Robert W., to Borg-Warner Corporation. Transmission. 3,724,626, 4-3-73, Cl. 192-109.00f.
Clauss, Richard J.: *See—*
Klein, Roy W.; Tremmel, Robert A.; and Clauss, Richard J., 3,719,568.
Clauss, Wolfgang: *See—*
Todt, Hans-Gunther; Clauss, Wolfgang; and Dahms, Wolfgang, 3,743,584.
Clauss, Wolfgang; and Todt, Hans-Gunther, to Schering AG. Acid galvanic copper bath. 3,767,539, 10-23-73, Cl. 204-52.00r.
Clausse, Georges Jean Louis, to Hoover Company, The. Liquid heating units, control means for such units and vessels incorporating heating units. 3,725,643, 4-3-73, Cl. 219-441.000.
Claussen, Uwe; Boehmke, Gunther; and Von Bonin, Wulf, to Bayer Aktiengesellschaft. Stable aqueous dispersions of optical brightening agents. 3,767,587, 10-23-73, Cl. 252-301.20w.
Claustre, Roger: *See—*
Azum, Jacques; and Claustre, Roger, 3,746,844.
Clavera, Juan Cusco, to Segura Viudas, S.A. Device for the display of bottles. 3,733,041, 5-15-73, Cl. 248-154.000.
Claveric, Claude, to Thomson-CSF. Variable-gain low-noise amplifier. 3,761,830, 9-25-73, Cl. 330-29.000.
Clavin, Alvin, to Hughes Aircraft Company. Circular symmetric beam forming apparatus. 3,778,838, 12-11-73, Cl. 343-727.000.
Clavin, Edward A.; and Wheeler, Lionel H., to CRC-Crose International, Inc. Pipe bending die. 3,780,591, 12-25-73, Cl. 72-465.000.
Clavin, Lawrence A.; Eaton, Charles M.; Hansman, Leo F.; and Duncan, Lenard J., to Vorta Systems, Inc. Omni-directional antenna mounted in circular radome. 3,754,269, 8-21-73, Cl. 343-742.000.
Claxton, Gerald L., to Up-Right, Inc. Fruit-harvesting machine and conveyor therefor. 3,777,463, 12-11-73, Cl. 56-330.000.
Claxton, Lindsay Graham, to Mindrill Limited. Drilling apparatus with mast filling about upper point axis fixed against horizontal translation. 3,757,874, 9-11-73, Cl. 173-43.000.
Claxton, William E.; and Holden, Harold C., to Firestone Tire & Rubber Company, The. Resistance setting apparatus. 3,763,354, 10-2-73, Cl. 235-61.11a.
Clay, Burton Ross; and Gore, Douglas Alan, to United States of America, Navy. Holographic readout system employing predispersion diffraction grating. 3,754,808, 8-28-73, Cl. 350-3.500.
Clay, Byron Jan: *See—*
Durr, Larry L.; and Clay, Byron Jan, 3,765,840.
Clay, Gilbert N. Flange leveling device. 3,762,068, 10-2-73, Cl. 33-180.00r.
Clay, Howard W., to Sterling Radiator Company, Inc. Automatic assembling and welding machine. 3,723,702, 3-27-73, Cl. 219-124.000.
Clay, Joe D.; and Keever, Joseph M., to Westinghouse Electric Corporation. Induction meter having power-factor-adjuster. 3,710,245, 1-9-73, Cl. 324-138.000.
Clay, John Armstrong, to Turnbull Marine Design Company Limited. Tail-shaft bearing assembly. 3,718,378, 2-27-73, Cl. 308-36.100.
Clay, John P.; and Lintvedt, Vernon L., to General Dynamics Corporation. Insulation material. 3,723,231, 3-27-73, Cl. 161-53.000.
Clay, Robert A. Trash compactor apparatus. 3,763,773, 10-9-73, Cl. 100-229.00a.
Clay, Robert B.: *See—*
Cook, Melvin A.; Clay, Robert B.; and Udy, Lex L., 3,713,917.
Clay, Robert E. Method of preparing architectural and engineering drawings. 3,728,190, 4-17-73, Cl. 156-235.000.
Claycomb, Jackson R., to Schlumberger Technology Corporation. Data-signaling apparatus for well drilling tools. 3,711,825, 1-16-73, Cl. 340-18.0ld.
Claycomb, Jackson R., to Schlumberger Technology Corporation. Data-signaling apparatus for well drilling tool. 3,713,089, 1-23-73, Cl. 340-18.0ld.
Claydon, Gyongyver: *See—*
Ryley, Derek Vernon; and Claydon, Gyongyver, 3,710,018.
Claymer, Frederick H., Jr.: *See—*
Willis, Grant N., 3,763,341.
Claypool, Harry W.: *See—*
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De Coene, Frans J.; and Vanstellant, Marc G., 3,747,311.
Strubbe, Gilbert J., 3,722,193.
Clayton & Lambert Manufacturing Company: *See—*
Lambert, Charles F., Jr., 3,755,917.
Clayton, Anthony Robert King; and Barber, Anthony Clifford, to Imperial Metal Industries (Kynoch) Limited. Superconductors. 3,715,243, 2-6-73, Cl. 148-11.50r.
Clayton Corporation: *See—*
Hug, Richard C., 3,722,760.
Clayton, David W.: *See—*
Liebergott, Norman; Clayton, David W.; and deMontigny, Raimbault M. A. T., 3,740,311.
Clayton, Dennis Albert; and Foster, George William, to Legg (Industries) Limited. Battery charging apparatus. 3,761,795, 9-25-73, Cl. 320-20.000.
Clayton Dewandre Company, Limited: *See—*
Page, Wilbur Mills; and Coupland, Ralph, 3,739,802.
Page, Wilbur Mills; and Riley, Charles Thomas, 3,774,507.
Poon, Siu Yun; Quicke, Kenneth George; and Stratford, David James, 3,762,467.
Shilton, Brian Roger; and Byron, Donald John, 3,729,931.
Clayton, Eric Arthur, to Hudswell Yates Developments Limited. Mole plow depth adjustment apparatus. 3,724,108, 4-3-73, Cl. 37-193.000.
Clayton, Hadwen A., to Phillips Petroleum Company. Method and apparatus for measuring and controlling the volume of liquid in a vessel. 3,754,560, 8-28-73, Cl. 137-2.000.
Clayton, Harry B. Book-index notcher. 3,728,926, 4-24-73, Cl. 83-467.000.
Clayton, Keith P.: *See—*
Kaywood, Roy H.; Kaywood, Roy G.; and Clayton, Keith P., 3,724,151.
Clayton Manufacturing Company: *See—*
Armstrong, Charles H., 3,766,405.
Mattox, George W., 3,773,065.
Clayton, Ralph S. Doorless passbox for X-ray cassettes and the like. 3,776,110, 12-4-73, Cl. 95-1.000.
Clayton, Robert W., to Scans Associates, Inc. Fluid pressure regulator. 3,762,436, 10-2-73, Cl. 137-505.355.
Clayton, William J., to Mobil Oil Corporation. Permeable thermoplastic film product and method. 3,718,059, 2-27-73, Cl. 83-2.000.
Clayton, William J.; Smith, Clair C.; and Dewey, Earl K., to Mobil Oil Corporation. Modified steel rule die. 3,741,452, 6-26-73, Cl. 225-103.000.
Clayton, William J., to Mobil Oil Corporation. Method for the production of fog-resistant thermoformed structures. 3,741,803, 6-26-73, Cl. 161-247.000.
Claywell, James R. Tool chest. 3,771,848, 11-13-73, Cl. 312-350.000.
Clean Air Fuels, Inc.: *See—*
Carter, James D.; and Carter, Elga M., 3,756,792.
Cleanamation, Inc.: *See—*
Forse, Harry D.; and Butz, Carl C., 3,720,330.
Clear Pack Company: *See—*
Barnhart, Charles Calvin, 3,709,647.
Clearman, Jack F.; Ohlsson, Leonard W.; and Mackin, Michael H., to Whirlpool Corporation. Method of making ice in a combined auger and press. 3,708,992, 1-9-73, Cl. 62-71.000.
Cleary, James M. Instrument for measuring maximum expiratory flow rate. 3,720,202, 3-13-73, Cl. 128-2.080.
Cleary, James W., to Phillips Petroleum Company. Separation of diamine isomers. 3,767,707, 10-23-73, Cl. 260-563.00r.
Cleary, Mark W., to Clemco-Clementina Ltd. Safety control handle for air actuated equipment. 3,740,018, 6-19-73, Cl. 251-94.000.
Cleary, Robert A.; and Mort, Paul R., Jr. Opposed disc type ball projecting device. 3,766,901, 10-23-73, Cl. 124-1.000.
Cleary, Robert T.: *See—*
Pesz, Robert G.; and Cleary, Robert T., 3,748,401.

Cleary, Thomas R., to Burroughs Corporation. Apparatus for varying the flow rate of gas into a vacuum system. 3,712,322, 1-23-73, Cl. 137-81.500.

Cleary, W. A., Corporation: *See—*
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Cleason, C. Roy, to World-Wide Paper Reclamation, Inc., mesne. Composition for reclaiming pulp from waste papers. 3,767,524, 10-23-73, Cl. 162-8.000.

Cleats Mfg. Inc.: *See—*
De Lord, Ernest P., 3,754,782.

Cleave, George W.: *See—*
Bruce, George D.; Davidge, Ronald V.; Fowler, Raymond L.; Hobgood, George W., Jr.; Locklar, Henry C., Jr.; and Cleave, George W., 3,720,465.

Cleaver, John Stephen; Guilford, Peter; Kimpton, Frederick James; Page, Thomas John; and Steinberg, Norman Richard, to British Insulated Callender's Cables Limited. Kit of parts for use in jointing electric cables. 3,718,273, 2-27-73, Cl. 228-15.000.

Clecak, Nicholas J.; and Cox, Robert J., to International Business Machines Corporation. Novel azide compounds. 3,749,713, 7-31-73, Cl. 260-240.00r.

Clech, Albert; Marchand, Georges; and Pasquiou, Jean-Yves, to Commissariat a l'Energie Atomique. Mixing device for powdered materials. 3,749,370, 7-31-73, Cl. 259-10.000.

Cleemann, Jorgen Olav, to Smidth, F. L., & Co. Grinding raw materials in the manufacture of cement. 3,712,549, 1-23-73, Cl. 241-19.000.

Cleereman, Kenneth J.: *See—*
Ayres, Ralph E.; Cleereman, Kenneth J.; and Schrenk, Walter J., 3,739,052.
Schrenk, Walter J.; Cleereman, Kenneth J.; Chisholm, Douglas S.; and Alfrey, Turner, Jr., 3,716,612.
Schrenk, Walter J.; Cleereman, Kenneth J.; Chisholm, Douglas S.; and Alfrey, Turner, Jr., 3,737,263.
Schrenk, Walter J.; Chisholm, Douglas S.; Cleereman, Kenneth J.; and Alfrey, Turner, Jr., 3,759,647.

Cleevely, Bruce T., to Wheeling Stamping Company. Mold assembly for producing threaded articles with unscrewing means integral with the assembly. 3,719,446, 3-6-73, Cl. 425-249.000.

Cleff, Herbert, to Dorma-Baubeschlag GmbH & Co., KG. Mounting system. 3,745,607, 7-17-73, Cl. 16-158.000.

Clegg, Michael Ward: *See—*
Corbett, William George; and Clegg, Michael Ward, 3,721,298.

Clegg, Robert Stanley, to British Aluminum Company, Limited, The. Semi-continuous casting method utilizing a thermoinsulating sheet material. 3,726,332, 4-10-73, Cl. 164-82.000.

Clegg, Samuel E. Apparatus for rooted plant excavating. 3,717,944, 2-27-73, Cl. 37-2.00r.

Clegg, Trevor Edwin: *See—*
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Cleij, Jan: *See—*
Bijleveld, Eduard; and Cleij, Jan, 3,727,379.

Cleland, Hugh M.: *See—*
Dahlin, Robert K.; Arnold, Harold J.; Cleland, Hugh M.; Lyon, Robert B.; and Polkinghorn, Robert W., 3,743,948.

Cleland, Keith B.: *See—*
Cleland, Keith B.; and Straub, Roy H. (said Straub assor. to said), 3,756,290.

Cleland, Keith B.; and Straub, Roy H., said Straub assor. to said Cleland, Keith B. Volumetric filler system for flexible resilient bottles. 3,756,290, 9-4-73, Cl. 141-5.000.

Cleland, Luther A., Jr.; and Harmon, Albert D., to Maremont Corporation. Device and method for detecting and withdrawing a predetermined length of yarn. 3,728,550, 4-17-73, Cl. 250-219.00s.

Cleland, William Pettigrew, to British Steel Corporation. Magnetic sorting and piling bank. 3,727,758, 4-17-73, Cl. 209-74.000.

Clelford, Anthony Peter: *See—*
Bennett, Roger; and Clelford, Anthony Peter, 3,729,659.

Clelland, David Watson, to United Kingdom Atomic Energy Authority. Tanks for liquids containing fissionable material. 3,768,782, 10-30-73, Cl. 259-4.000.

Clelland, John J., 20% to Degus, Carric J. Skeleton frame and cover supported therefrom. 3,741,224, 6-26-73, Cl. 135-1.00r.

Clem, Robert B.: *See—*
Bomar, Steve H., Jr.; Clem, Robert B.; and Buckelew, Richard L., 3,751,366.

Clemco-Clementina Ltd.: *See—*
Cleary, Mark W., 3,740,018.

Clemence, Elliott I., Jr., to Interstate Oil Transport Company. Apparatus for articulated towboat barge combination. 3,756,183, 9-4-73, Cl. 114-235.00r.

Clemence, Francois; and Le Martret, Odile, to Roussel-UCLAF. B-(Theophylline ethyl) monosulfite. 3,714,163, 1-30-73, Cl. 260-253.000.

Clemence, Francois; and Le Martret, Odile, to Roussel-UCLAF. Certain benzimidazoles used as anti-inflammatory agents. 3,778,504, 12-11-73, Cl. 424-263.000.

Clemens, Anton Hubert, to Miles Laboratories, Inc. Apparatus for measuring reflected light. 3,709,612, 1-9-73, Cl. 356-178.000.

Clemens, Anton Hubert, to Miles Laboratories, Inc. Specific gravity apparatus. 3,713,327, 1-30-73, Cl. 73-32.000.

Clemens, Anton Hubert; and Hurtle, Richard LaVerne, to Miles Laboratories, Inc. Measuring and indicating apparatus. 3,720,837, 3-13-73, Cl. 250-206.000.

Clemens, David H.: *See—*
Glavis, Frank J.; and Clemens, David H., 3,753,898.
Hamann, Herman C.; and Clemens, David H., 3,728,318.

Clemens, David H.; and Kunin, Robert, to Rohm & Haas Company. Removal of sulfur troxide and acid mist from gaseous streams. 3,780,500, 12-25-73, Cl. 55-73.000.

Clemens, Philip M. Resilient pad for use on footwear. 3,733,721, 5-22-73, Cl. 36-32.00r.

Clemens, Robert W., to Wesco Industries Corporation. Filament feeding and storage device. 3,759,455, 9-18-73, Cl. 242-47.120.

Clement, Carl J.: *See—*
Horine, David A.; and Clement, Carl J., 3,714,723.

Clement, Clement. Articulated and steerable snow sled. 3,737,172, 6-5-73, Cl. 280-22.000.

Clement, Clyde H.: *See—*
Clement, Clyde H.; and Larson, Leland B., 3,737,835.

Clement, Clyde H.; and Larson, Leland B., 50% to Clement, Clyde H. and 50% to Larson, Leland B. Self-ejecting line plug. 3,737,835, 6-5-73, Cl. 339-45.00r.

Clement, Didier Henri. Desoldering device and method. 3,746,239, 7-17-73, Cl. 228-19.000.

Clement, Frank John; and Richardson, Barton Leigh; to Bell Telephone Laboratories, Incorporated. Coordinate detection system. 3,764,813, 10-9-73, Cl. 250-221.000.

Clement, Klaus: *See—*
Gesell, Reinhard; Dinse, Wolfgang; Clement, Klaus; and Peters, Manfred, 3,744,362.

Clement, Ralph C., to I-T-E Imperial Corporation. Voidable cover interlock. 3,735,064, 5-22-73, Cl. 200-50.00a.

Clement, Richard H. Heavy duty wheel and wheel center. 3,767,267, 10-23-73, Cl. 301-6.0cs.

Clementi, Anacleto, to Snam Progetti, S.p.A. Process for recovering polymers from organic solutions. 3,772,262, 11-13-73, Cl. 260-94.700.

Clements, Frank H., to Amoco Production Company. Core drilling with air containing polymer in oil. 3,718,195, 2-27-73, Cl. 175-58.000.

Clements, Herbert Arthur: *See—*
Heybourne, Robert Howard; and Clements, Herbert Arthur, 3,715,019.
Sinclair, Harold; and Clements, Herbert Arthur, 3,733,095.

Clements, John W. Electrical connector. 3,736,549, 5-29-73, Cl. 339-75.0mp.

Clements, Michael John. Removal of gases from containers. 3,757,865, 9-11-73, Cl. 169-2.00r.

Clements, Patricia C.: *See—*
De Brunner, Ralph E.; and Clements, Patricia C., 3,713,882.

Clements, Paul Bernard, to Words on Wheels Limited. Tape recorders providing replay without stopping or rewinding. 3,718,775, 2-27-73, Cl. 179-100.20t.

Clements, Ralph E., to Barber-Colman Company. Capacitor fired thyristor. 3,739,198, 6-12-73, Cl. 307-252.00b.

Clements, Richard F., to Environmental Control Products, Inc. Batch ram feeding apparatus. 3,708,078, 1-2-73, Cl. 214-23.000.

Clements, William C.; and Bootz, William, to Armco Steel Corporation. Energy absorbing device for the connections of a segmented drive core. 3,714,787, 2-6-73, Cl. 61-53.700.

Clements, William Lamar: *See—*
Thompson, Larry O.; Gilbert, William J.; Thompson, Louis R.; Martin, James W., Jr.; and Clements, William Lamar, 3,713,554.

Clementson, John Joseph; and Johnson, Peter Graham, to Imperial Chemical Industries Limited. Halogenated hydrocarbon compositions and uses thereof. 3,730,904, 5-1-73, Cl. 252-171.000.

Clemetson, Warren Jay; and Kurokawa, Kaneyuki, to Bell Telephone Laboratories, Incorporated. Exclusive or circuit. 3,714,460, 1-30-73, Cl. 307-216.000.

Clemett, Edwin F., Jr.: *See—*
Tucker, Thomas M.; and Clemett, Edwin F., Jr., 3,723,683.

Clemett, Edwin F., Jr., to McCord Corporation. Ash tray assembly. 3,737,207, 6-5-73, Cl. 312-246.000.

Clemett, Edwin F., Jr., to McCord Corporation. Snap action ignition contact assembly. 3,757,061, 9-4-73, Cl. 200-19.00a.

Clemmer, Michael G. Auxiliary tip for the rear end of a ski runner of a snowmobile. 3,720,421, 3-13-73, Cl. 280-28.000.

Clemons, Cecil I.: *See—*
Thorson, Sheldon E.; Clemons, Cecil I.; and Viola, Vito, 3,760,722.

Clemont, Warren J.: *See—*
Herzig, Robert W.; Clemont, Warren J.; and Zauds, Juris, 3,755,728.

Clendenen, Harold K.: *See—*
Bhatia, Vijay H.; and Clendenen, Harold K., 3,774,466.





Clendenen, Roland L., to Shell Oil Company. Alumina-transition metal oxide ceramic products of enhanced ductility. 3,776,744, 12-4-73, Cl. 106-73.400.

Clendenen, Ronald L.: *See—*
Schlaudt, Charles M.; Clendenen, Ronald L.; and Olson, Eugene E., 3,766,642.

Clendenen, Ronald L., to Shell Oil Company. Rehydration and pressure-sintering of hot-pressed alumina structures. 3,772,416, 11-13-73, Cl. 264-332.000.

Cleobury, Donald Jack; and Wilson, Bernard; deceased (by Wilson, Margaret Winifred; administratrix), to General Electric Company Limited, The. Degradation detection in a PCM system. 3,777,268, 12-4-73, Cl. 325-38.00r.

Cler, Paul L. Corn detasseling head. 3,769,782, 11-6-73, Cl. 56-51.000.

Clerbois, Lucien: *See—*
Degueldre, Louis; Gobillon, Yves; Clerbois, Lucien; and Bourgeois, Louis, 3,736,269.
Degueldre, Louis; Gobillon, Yves; Clerbois, Lucien; and Bourgeois, Louis, 3,736,270.
Degueldre, Louis; Clerbois, Lucien; and Bourgeois, Louis, 3,773,915.

Clerc, Henri: *See—*
Floessel, Dieter; and Clerc, Henri, 3,728,507.

Clerc, Henri; and Floessel, Dieter, to Aktiengesellschaft Brown, Boveri & Cie. Compressed gas circuit breaker having coupled variable-volume high and low pressure chambers for expediting gas pressure recovery in the high pressure chamber. 3,740,509, 6-1973, Cl. 200-148.00b.

Clermont, Louis-Philippe: *See—*
Bender, Frederick; Clermont, Louis-Philippe; and Powden, Alan Warren, 3,715,268.

Clermont Vinas, Maria Teresa. Device for the wet treatment of packed and similar textile materials. 3,727,436, 4-17-73, Cl. 68-189.000.

Cless, Gerhard, to Teletype Corporation. Plural lineal movement system and process. 3,771,035, 11-6-73, Cl. 318-135.000.

Clete Brewer Tool Company: *See—*
Santistevan, Joe A., 3,744,230.

Cleusix, Willy, to OMEGA Louis Brandt & Frere S.A. Calendar watch with isolated hour hand changing means combined with synchronization gearing. 3,710,567, 1-16-73, Cl. 58-58.000.

Cleveland Chair Company, Inc.: *See—*
Rogers, Alter C., Jr.; and Snitzer, Morton, 3,767,257.

Cleveland Flux Company: *See—*
Dvorak, Joseph E.; and Wallace, John F., 3,721,547.

Cleveland, Hardware & Forging Company: *See—*
Koehler, William F., 3,714,842.

Cleveland Machine Controls Inc., mesne: *See—*
Reiner, Robert Leopold, 3,748,553.

Cleveland Technical Center, Inc.: *See—*
King, Joseph W., 3,731,087.

Cleveland, Thomas H.; and Bailey, John V., to Baychem Corporation. Stabilized polycarbonates. 3,733,296, 5-15-73, Cl. 260-45.70p.

Clevenger, James T.; and Stohler, John L., to Sperry Rand Corporation. Bucket level indicator. 3,710,968, 1-16-73, Cl. 214-761.000.

Clevenger, Loyd H.: *See—*
Sloan, Benjamin Johnston, Jr.; Martin, Billy M.; Clevenger, Loyd H.; and Dunn, Roger S., 3,768,150.

Clevepak Corporation: *See—*
Hurst, Robert H., 3,712,065.
Martin, Robert A., 3,750,603.
Stump, Paul W., 3,734,393.

Cleverley, Sidney B. Portable loom. 3,724,041, 4-3-73, Cl. 28-15.000.

Clevite Corporation: *See—*
Wight, George W., Jr., 3,752,462.

Clewett, Raymond W. Vacuum carpet comb for shag rugs. 3,766,596, 10-23-73, Cl. 15-397.000.

Cleybergh, John, to Dick, A. B., Company. Clean fluid washing system for duplicating machines and the like. 3,771,450, 11-13-73, Cl. 101-425.000.

Click, Gaylon T.: *See—*
Choate, Luther J.; and Click, Gaylon T., 3,721,269.

Click, Michael K.; and Timmons, Jerry L., to Carborundum Company, The. Tube guide for filtering apparatus. 3,768,655, 10-30-73, Cl. 210-236.000.

Cliff, Thomas Charles, to United Gas Industries Limited. Thermal actuators. 3,721,421, 3-20-73, Cl. 251-11.000.

Clifford, Gilbert F.: *See—*
Anstin, Wayne D.; Byrne, Joseph E.; Clifford, Gilbert F.; Henkel, Robert W.; Odell, Arthur W.; Quaglia, Lawrence T.; and Smith, Donald F., 3,757,941.
Byrne, Joseph E.; Clifford, Gilbert F.; Smith, Donald F.; and Odell, Arthur W., 3,741,053.
Way, Robert W.; Clifford, Gilbert F.; Kenkel, Robert W.; Odell, Arthur W.; and Smith, Donald F., 3,738,487.

Clifford, Gloria L.; and Clifford, Richard P. Ski binding tester adapted for testing heel bindings. 3,739,631, 6-19-73, Cl. 72-133.00a.

Clifford, James D.: *See—*
Nicholas, Robert D.; and Clifford, James D., 3,737,317.

Clifford, Joseph: *See—*
Tyler, Hugh J.; and Clifford, Joseph, 3,744,955.

Clifford, Joseph, to Robertshaw Controls Company. Thermal operator for ignition proving system. 3,759,654, 9-18-73, Cl. 431-66.000.

Clifford, Norman John, to British Steel Corporation. Self-anchorable pipe joint. 3,712,648, 1-23-73, Cl. 285-321.000.

Clifford, Paul R.; and Haytayan, Harry M. Impact tools. 3,711,008, 1-16-73, Cl. 227-147.000.

Clifford, Richard P.: *See—*
Clifford, Gloria L.; and Clifford, Richard P., 3,739,631.

Clifford, Richard P., to TRW Inc. Electrostatic control method and apparatus. 3,734,172, 5-22-73, Cl. 165-96.000.

Clifford, Richard P.; and Moses, James A., to TRW Inc. Electrostatically actuated device. 3,772,537, 11-13-73, Cl. 310-6.000.

Clifford, Richard P., to TRW Inc. Gradient cone thermal radiation sensor. 3,781,561, 12-25-73, Cl. 250-352.000.

Clifford, Stanley; and Hiscox, Leonard Ramsay, to Girling Limited. Means for controlling acceleration of a wheel. 3,757,166, 9-4-73, Cl. 317-5.000.

Clifton, Edward A.: *See—*
Phillips, Alfred R.; Haley, John S.; and Clifton, Edward A., 3,726,321.

Clifton, John R.: *See—*
Abel, Carroll; Clifton, John R.; and Lueking, James R., 3,712,232.

Clijsen, Cornelis Wilhelmus Adrianus, to U.S. Philips Corporation. Coupling for shafts. 3,728,871, 4-24-73, Cl. 64-27.00r.

Climate Conditioning Corporation: *See—*
McKay, Edwin C., 3,755,524.

Climate Control Systems, Inc., mesne: *See—*
Maksy, Edward W., 3,771,321.

Climax Chemical Company: *See—*
Cannon, Curtis W., 3,717,440.

Climpson, Margaret: *See—*
Beazley, Kenneth Michael; and Climpson, Margaret, 3,763,046.

Clinage, Ronald E., to Gorber, A. L., Company. Container with axial interlocking means. 3,750,934, 8-7-73, Cl. 229-39.00b.

Clinard, Ralph H., Jr.: *See—*
Flournoy, Norman E.; and Clinard, Ralph H., Jr., 3,744,298.

Clinch, John Michael: *See—*
Karuhn, Richard F.; Davies, Reg.; and Clinch, John Michael, 3,739,258.

Cline, Alvis E., to Midland-Ross of Canada Limited. System for broke removal. 3,770,579, 11-6-73, Cl. 162-264.000.

Cline, Carl F.: *See—*
Wilkins, Mark L.; Holt, Albert C.; Cline, Carl F.; and Froeschner, Kenneth E., 3,743,569.

Cline, Carl F.; and Wilkins, Mark L., to United States of America, Army. Preparation of beryllium boride armor by direct casting. 3,743,006, 7-3-73, Cl. 164-128.000.

Cline, Charles D.: *See—*
Linderman, Roger C.; and Cline, Charles D., 3,712,789.
Teumac, Fred N.; and Cline, Charles D., 3,753,941.

Cline, Edward T., to Du Pont de Nemours E. I., and Company. Chemiluminescent composition containing surfactant. 3,714,054, 1-30-73, Cl. 252-188.300.

Cline, Edward T., to Du Pont de Nemours, E. I., and Company. Light source comprising peraminoethylene on porous particulate supports. 3,753,919, 8-21-73, Cl. 252-188.300.

Cline, George A. Data conversion and recording apparatus. 3,740,721, 6-19-73, Cl. 340-172.500.

Cline, Gina L.: *See—*
Ludwig, Milton, 3,733,834.

Cline, Lawrence R.: *See—*
Caldwell, Samuel I.; and Cline, Lawrence R., 3,739,652.
Caldwell, Samuel I.; and Cline, Lawrence R., 3,768,276.

Cline, Richard F.; and Wilton, Donald P., to United States of America, Health, Education and Welfare. Binary amino ovicidal composition. 3,719,763, 3-6-73, Cl. 424-325.000.

Clinger, Bordean Wardell; and Parthum, Robert F. Balloon signalling apparatus. 3,727,229, 4-10-73, Cl. 343-706.000.

Clingman, William H., to Precision Machine Products, Inc. Methods of and means for determining the calorific value of combustible gases. 3,777,562, 12-11-73, Cl. 73-190.00r.

Clinical Sciences, Inc.: *See—*
Markovits, Arthur L.; and Wolfson, Stanley W., 3,736,042.

Clinitex, Inc.: *See—*
De Guillebon, Henri F., 3,780,979.

Clinton, Henry H. Electrical relay. 3,711,800, 1-16-73, Cl. 335-192.000.

Clinton, Henry H. Apparatus for the resistance per unit length of a resistive conductor. 3,777,259, 12-4-73, Cl. 324-62.000.

Clinton, Margaret A.; and Wells, Martin G. H., to Jones & Laughlin Steel Corporation. Corrosion resistant tinplate. 3,779,798, 12-18-73, Cl. 117-131.000.

Clinton, Russell M.; Condron, James A.; and Mator, Richard T., to Gulf Research & Development Company. Vapor-over-liquid temperature analyzer. 3,735,634, 5-29-73, Cl. 73-64.200.

Clinton, Russell M.; and Puzniak, Thomas J., to Gulf Research & Development Company. Octane analyzer. 3,738,810, 6-12-73, Cl. 23-230.0pc.

Clinton Watch Company: *See—*
Wein, Irving L., 3,729,922.
Wein, Irving L., 3,760,585.

Clinton, William D., to Signet Controls, Inc. Turbine meter having improved accuracy. 3,757,578, 9-11-73, Cl. 73-231.00r.

Clinton, William P.: *See—*
Parliment, Thomas H.; Epstein, Martin F.; Clinton, William P.; Scarpellino, Richard; and Soukup, Robert J., 3,767,425.

Clinton, William P.; Kaplan, Joel R.; and Capasso, Philip J., to General Foods Corporation. Reducing bitterness perception of coffee beverages and products. 3,753,726, 8-21-73, Cl. 99-65.000.

Clipp, Louis L.: *See—*
Hall, James M.; and Clipp, Louis L., 3,708,121.
Hall, James M.; and Clipp, Louis L., 3,712,543.
Hall, James M.; and Clipp, Louis L., 3,722,819.
Hall, James M.; and Clipp, Louis L., 3,746,256.

Clippard Instrument Laboratory, Inc.: *See—*
Clippard, William L., III, 3,766,935.

Clippard, William L., III, to Clippard Instrument Laboratory, Inc. Valve with modular manifold body. 3,766,935, 10-23-73, Cl. 137-269.000.

Clishim, Thomas A.; Duerr, Francis R.; and Olympia, Frederick D., to Corhart Refractories Company. Electric melting furnace and process of using it. 3,752,895, 8-14-73, Cl. 13-10.000.

Clites, Philip G.; and Beall, Robert A., to United States of America, Interior. Induction melting of metals in cold, self-lined crucibles. 3,775,091, 11-27-73, Cl. 75-65.000.

Clitheroe, Jay B.; and Lacy, Forrest H., Jr., to Anlin Company of New Jersey, The. Method for processing copper values. 3,728,430, 4-17-73, Cl. 423-26.000.

Clock, Gerald E.; and Brown, Charles N., to Dow Chemical Company, The. Interlayer and laminated product. 3,762,988, 10-2-73, Cl. 161-183.000.

Clody, Donald E.; Beer, Bernard; Vogel, John; and Horovitz, Zula P., to Squibb, E. R., & Sons, Inc. Anti-anxiety composition and method of use. 3,740,433, 6-19-73, Cl. 424-253.000.

Cloete, Frankis Louis Dirk; and Streat, Michael, to National Research Development Corporation. Pulsed countercurrent liquid-solids contacting apparatus. 3,738,814, 6-12-73, Cl. 23-270.000.

Cloke, Robert L.: *See—*
Hollstein, Carl P., Jr.; and Cloke, Robert L., 3,761,905.

Clonts, Kenyon E., to Merichem Company. Gas-liquid mass transfer process. 3,754,377, 8-28-73, Cl. 55-73.000.

Clonts, Kenyon E., to Merichem Company. Liquid-liquid mass transfer process and apparatus. 3,758,404, 9-11-73, Cl. 208-263.000.

Clontz, Raeford W.: *See—*
Jernigan, William Allen; Mims, Herman D.; and Clontz, Raeford W., 3,751,981.

Clopay Corporation: *See—*
Dunne, Edmund F., 3,744,624.
Gossling, Robert C., 3,760,664.
Gossling, Robert C., 3,763,916.

Clorox Company, The: *See—*
Foley, Lary L., 3,778,849.

Close, David E.: *See—*
Donlon, Richard H.; Close, David E.; and Loomis, Peter B., 3,710,724.

Close, Ernest Frederick, to Magnavox Company, The. Electronic search tuning system. 3,714,580, 1-30-73, Cl. 325-470.000.

Close, Ernest Frederick, to Magnavox Company, The. Digital tuning indicator. 3,753,119, 8-14-73, Cl. 325-455.000.

Close, James Garth. Parking brake for a cart or the like. 3,763,966, 10-9-73, Cl. 188-5.000.

Close, James Garth. Wheel retarder. 3,771,628, 11-13-73, Cl. 188-189.000.

Close, James Garth. Attachment for perforated boards. 3,778,955, 12-18-73, Cl. 52-758.00d.

Close, Robert Howard. Rope tightener and slack remover. 3,711,901, 1-23-73, Cl. 24-71.300.

Closse, Annemarie; and Thiele, Hans Hermann, to Sandoz, Ltd. Antibiotic SL 3440. 3,764,671, 10-9-73, Cl. 424-122.000.

Closson, Addison W., Jr. Shoe stiffener. 3,708,332, 1-2-73, Cl. 117-122.00h.

Clostermann, Friedrich; and Richter, Hans-Joachim, to Trilux-Lenze KG. Lamp comprising an elongated light source, particularly a rod-shaped fluorescent lamp, and shade of transparent material. 3,716,710, 2-13-73, Cl. 240-106.00r.

Clostermann, Friedrich, to Trilux-Lenze KG. Cover plate for a lamp. 3,764,800, 10-9-73, Cl. 240-106.00r.

Clot, Jean: *See—*
Falvert, Daniel; Raciazek, Andre; Authie, Gerard; Clot, Jean, and Giraud, Alain, 3,717,757.

Cloud, Charles E., to Cloud Machine Corporation. Individual sprinkle-packet with ribbed break-open neck. 3,741,384, 6-26-73, Cl. 206-56.0aa.

Cloud, Charles E., to Cloud Machine Corporation. Cutting apparatus. 3,757,620, 9-11-73, Cl. 83-88.000.

Cloud, James E., to Special Machinery, Inc. Carrier for a heavy load including a boom. 3,768,670, 10-30-73, Cl. 214-75.00h.

Cloud Machine Corporation: *See—*
Cloud, Charles E., 3,741,384.
Cloud, Charles E., 3,757,620.

Clough, Douglas W., to Poly-Optics, Inc. Optical fiber display. 3,749,901, 7-31-73, Cl. 240-2.000.

Clough, Leonard G.: *See—*
United States of America, National Aeronautics and Space Administration, 3,745,410.

Clough, Robert F.: *See—*
Corey, Lawrence G.; Opalenik, John J.; and Clough, Robert F., 3,721,879.

Clough, Roy L., Jr., to Xodar Corporation. Aquatic toy. 3,713,250, 1-30-73, Cl. 46-92.000.

Clough, Thomas J., to Atlantic Richfield Company. Process for preparing a phosphorylated alpha-olefin polymer. 3,733,363, 5-15-73, Cl. 260-606.50p.

Clougherty, Edward V.; Kaufman, Lawrence; and Kalish, David, to Man-Labs, Incorporated. Refractory diboride materials. 3,775,137, 11-27-73, Cl. 106-44.000.

Clougherty, Edward V.; and Kalish, David. Refractory diboride materials. 3,775,138, 11-27-73, Cl. 106-44.000.

Clouser, Leon C., Jr., to Seeburg Corporation of Delaware, The. Cabinet assembly for coin operated phonograph. 3,729,240, 4-24-73, Cl. 312-8.000.

Clouston, John L. Two-part automotive tire chain. 3,762,456, 10-2-73, Cl. 151-213.00a.

Clouth Gummiwerke AG: *See—*
Gilles, Martin; and Thiel, Anton, 3,776,094.
Gilles, Martin; and Thiel, Anton, 3,776,571.
Lachmann, Hans-Peter, 3,779,536.
Spaar, Gerd, 3,724,645.

Cloutier, Alfred J. Device for use in turning operations on pipe ends and in boring holes in the slides thereof. 3,711,214, 1-16-73, Cl. 408-92.000.

Clovis, James S.; and Sullivan, Francis R., to Rohm & Haas Company. Thermally stable polyphosphonates as flame retardants. 3,755,270, 8-28-73, Cl. 260-80.00p.

Clow Corporation: *See—*
Clow, Kent S., Jr.; and Crookham, Carter C., 3,744,753.
Crookham, Carter C.; and Billings, Robert C., 3,774,880.
Williams, Hubert L., 3,726,505.

Clow, Hugh, to EMI Limited. Magnetic recording media. 3,775,179, 11-27-73, Cl. 117-240.000.

Clow, Kent S., Jr.; and Crookham, Carter C., to Clow Corporation. Seat adjustment for butterfly valve. 3,744,753, 7-10-73, Cl. 251-307.000.

Clowers, Earl R.; and Azelkas, Walter G., to Singer Company, The. Vacuum cleaner with nozzle height adjusting mechanism. 3,713,185, 1-30-73, Cl. 15-354.000.

Clowes, Ernest J.: *See—*
Blake, George H.; and Clowes, Ernest J., 3,740,997.

Clowes, Garth A.; and Nagaoka, Masamitsu, to Entex Industries, Inc. Inductively coupled metal detector arrangement. 3,742,341, 6-26-73, Cl. 324-3.000.

Cloyd, Harold S.: *See—*
Campbell, Robert H.; and Cloyd, Harold S., 3,750,598.

Cloyd, Harold S., to Nosco Plastics, Incorporated. Pail. 3,759,415, 9-18-73, Cl. 220-60.000.

Cloyd, Harold S., to Nosco Plastics, Incorporated. Telescopingly coupled syringe and vial. 3,766,919, 10-23-73, Cl. 128-220.000.

Clucker, Richard V.; and Kennedy, Roland R., to Harsco Corporation. Control system for refuse handling apparatus. 3,760,962, 9-25-73, Cl. 214-83.300.

Clucker, Richard V. Control system for refuse handling apparatus. 3,771,674, 11-13-73, Cl. 214-83.300.

Cluett, David G. Anchor. 3,759,212, 9-18-73, Cl. 114-208.000.

Cluett, Peabody & Co., Inc.: *See—*
McFalls, Richard J., 3,710,741.

Cluett, Peabody & Co., Inc., mesne: *See—*
Briley, George C.; Shepherd, James J.; and Lyons, Thomas A., 3,721,097.

Cluff, Edward F., to Du Pont de Nemours, E. I., and Company. Novel catalyst system for the preparation of sulfur-curable terpolyers. 3,746,694, 7-17-73, Cl. 260-80.780.

Clute, Angelo: *See—*
Hazzard, Robert D.; Trotter, Peter H.; Schlein, Kai Frederik; and Clute, Angelo, 3,748,011.

Clutter, Barry F.: *See—*
Drummond, Glenn R.; and Clutter, Barry F., 3,760,754.

Clyde Corporation: *See—*
Ginther, Gary D., 3,713,527.

Clymans, Augustien Maria, to U.S. Philips Corporation. Dosing apparatus. 3,715,058, 2-6-73, Cl. 222-148.000.

Clymer, Gary C.: *See—*
Sawmiller, Niles E.; Clymer, Gary C.; and Clymer, Larry R., 3,734,518.

Clymer, Larry R.: *See—*
Sawmiller, Niles E.; Clymer, Gary C.; and Clymer, Larry R., 3,734,518.





Clyne, Robert W. Idler member and method of roughening a portion of the exterior surface thereof. 3,719,978, 3-13-73, Cl. 29-121.00r.

Clynes, Manfred. System for producing personalized sentograms. 3,755,922, 9-4-73, Cl. 35-22.00r.

C.M.H., Inc.: *See—*
Nell, William C., 3,763,617.

CMI Corporation: *See—*
Allen, Thomas E., 3,774,401.
Barton, Robert M., 3,775,018.
Brock, James Donald, 3,749,082.
Rosenbaum, Glenn P., 3,759,573.
Smith, Don W., 3,779,662.
Swisher, George W., Jr.; Smith, Don W.; and Spivey, Gordon L., 3,735,818.
Swisher, George W., Jr.; and Hale, Autho, 3,778,912.

CMX Systems, Inc.: *See—*
Scaggs, Lee Edward, 3,769,611.
Strobele, Caljon H.; Adams, James C., Jr.; Anderson, Wilfred King; Bargen, David W.; Eppstein, Anthony D.; Fletcher, Martin Wallace; Pearson, Willard C.; Taylor, Kenneth I.; and Youngstrom, Jerry R., 3,748,381.

Co-Data Corporation: *See—*
Eichen, Howard R.; and Paulsen, Robert H., 3,720,948.

Coach and Car Equipment Corporation: *See—*
Harder, Arthur J., Jr., 3,747,178.

Coachmen Industries, Inc.: *See—*
Ferguson, Robert E., 3,749,439.

Coad, Brian C.; and Palmer, Raymond B., to Airco, Inc. Method and apparatus for purifying metal. 3,764,297, 10-9-73, Cl. 75-10.000.

Coady, David R.: *See—*
Peterson, Russell I., Jr.; and Coady, David R., 3,743,155.

Coakley, James L., to Abex Corporation. Variable bypass for fluid power transfer systems. 3,723,025, 3-27-73, Cl. 417-299.000.

Coakley, James L., to Abex Corporation. Reversible fluid power transfer apparatus. 3,728,860, 4-24-73, Cl. 60-405.000.

Coal Industry (Patents) Limited: *See—*
Agnew, James Malcolm; French, Albert Graham; and Tate, David Arthur, 3,747,982.
Armstrong, Michael Pearson, 3,779,381.
Battocock, Whalley Vowe, 3,716,003.
Curcic, Simo, 3,778,747.
French, Albert Graham, 3,753,597.
French, Albert Graham; Keast, David Edward; and Oven, Terence, 3,767,265.
Hartley, Dennis, 3,719,394.
Hartley, Dennis; Alford, Derek; and Plumpton, Norman Albert, 3,771,830.
Hughes, David Emrys; and Davies, Donald, 3,721,378.

Coal Tar Research Association, The: *See—*
Sharp, John Alan; Dean, Raymond Ernest; and Fielding, Michael, 3,737,466.

Coale, Sidney C. Vehicle traction track. 3,708,117, 1-2-73, Cl. 238-14.000.

Coalite and Chemical Products Limited: *See—*
Milnes, Malcolm Howard, 3,772,394.
Payne, Kenneth Richard; and Milnes, Malcolm Howard, 3,726,929.

Coast, Geoffrey; Prince, Kenneth; Spruce, Brian; and Morgan, Vernon, to United Kingdom Atomic Energy Authority. Nuclear reactor power plant. 3,713,972, 1-30-73, Cl. 176-60.000.

Coast Marine & Industrial Supply Inc.: *See—*
Haglund, Bernard F.; and Salvarezza, Robert N., 3,753,416.

Coastal Dynamics Corporation: *See—*
Baker, Myron Lewis; and Myers, Lewis William, 3,752,974.

Coates, Alfred E.: *See—*
Vegh, Bertalan J.; and Coates, Alfred E., 3,779,891.

Coates Brothers & Company Limited: *See—*
Hudson, Alan George; and O'Hara, Kevin John, 3,766,144.

Coates, Clarence A., Jr.: *See—*
Fisher, John G.; and Coates, Clarence A., Jr., 3,758,466.
Fisher, John G.; and Coates, Clarence A., Jr., 3,770,719.
Weaver, Max A.; Straley, James M.; and Coates, Clarence A., Jr., 3,716,327.

Coates, Clarence A., Jr.; and Weaver, Max A., to Eastman Kodak Company. Benzothiazolyl-azo-indole compounds. 3,759,895, 9-18-73, Cl. 260-158.000.

Coates, Frank D., to Coates Manufacturing Co. Snowplow wing. 3,720,010, 3-13-73, Cl. 37-42.00r.

Coates, Harry D. Educational game. 3,715,810, 2-13-73, Cl. 35-35.00r.

Coates, John Robert, to Molins Limited. Packet forming. 3,776,105, 12-4-73, Cl. 93-12.00r.

Coates, John S.; and Reilly, Victor J., to Du Pont de Nemours, E. I., and Company. Conversion of butanediol to tetrahydrofuran in the presence of tall oil. 3,726,905, 4-10-73, Cl. 260-346.10r.

Coates Manufacturing Co.: *See—*
Coates, Frank D., 3,720,010.

Coates, Ronald Bell, to Imperial Chemical Industries Limited. Process for melt spinning. 3,752,874, 8-14-73, Cl. 264-176.00f.

Coates, Ronald Bell, to Imperial Chemical Industries Limited. Filter seal. 3,768,661, 10-30-73, Cl. 210-449.000.

Coates, Vincent J.; and Welter, Leonard M., to American Optical Corporation. Field emission electron gun. 3,766,427, 10-16-73, Cl. 315-31.00r.

Coates, Vincent J.; and Welter, Leonard M., to American Optical Corporation. Field emission scanning microscope display. 3,767,926, 10-23-73, Cl. 250-310.000.

Coates, William M.: *See—*
Corrigan, John R.; and Coates, William M., 3,734,917.

Coatney, Richard L., to Kaiser Aluminum & Chemical Corporation. Periclase refractory grain. 3,754,951, 8-28-73, Cl. 106-58.000.

Coats & Clark, Inc.: *See—*
Dobrjanskyj, Lew; Einhorn, Ruediger; Flagg, Frank D.; and Chasen, Lee Richard, 3,758,920.
Hannes, Karl, 3,742,555.

Coats Company, Inc., The: *See—*
Strang, Elmer J.; and Scott, Ray A., 3,736,975.

Coats, Edwin: *See—*
Russ, Malcolm J.; and Coats, Edwin, 3,755,016.

Coats, George F., to Hurricane International. Decorative fireplace appliance assembly. 3,747,585, 7-24-73, Cl. 126-92.00r.

Coats, Jesse C. Moving shadow light indexing means. 3,707,999, 1-2-73, Cl. 83-438.000.

Coats, John H.: *See—*
Argoudelis, Alexander D.; and Coats, John H., 3,726,766.

Coats, Robert Reid; Greenway, John Michael; and Glen, William, to Imperial Chemical Industries Limited. Heat treatment of yarns. 3,718,953, 3-6-73, Cl. 28-72.100.

Coats, Robert Reid; and Greenway, John Michael, to Imperial Chemical Industries Limited. Method of stringing a thread through a hole. 3,741,050, 6-26-73, Cl. 83-22.000.

Coats, Robert Reid; and Greenway, John Michael, to Imperial Chemical Industries Limited. Apparatus for drawing filaments. 3,766,614, 10-23-73, Cl. 28-71.300.

Coba, Yozo: *See—*
Toyoda, Takashi; Miyabe, Yoshio; and Coba, Yozo, 3,741,841.

Cobarg, Christian; Fenner, Erich; Guntersdorfer, Max; Heywang, Walter; Otto, Franz; Schofer, Rudolf; and Thomann, Helmut, 1/2 to Braun Aktiengesellschaft and Siemens Aktiengesellschaft. Piezoelectric motor. 3,748,503, 7-24-73, Cl. 310-8.600.

Cobarg, Christian; Fenner, Erich; Guntersdorfer, Max; Heywang, Walter; Otto, Franz; Schofer, Rudolf; and Thomann, Helmut, to Braun Aktiengesellschaft. Dry shaver construction. 3,750,279, 8-7-73, Cl. 30-43.900.

Cobarg, Claus Christian; and Napierski, Reinhard, to Braun Aktiengesellschaft. Flashlight. 3,774,023, 11-20-73, Cl. 240-10.60r.

Cobarg, Claus-Christian, to Braun Aktiengesellschaft. Pocket lighter actuated by a part of the housing thereof. 3,744,958, 7-10-73, Cl. 431-150.000.

Cobb, Bernie J., to United States of America, Army. Paraballoon. 3,744,744, 7-10-73, Cl. 244-32.000.

Cobb, Carolus. Process for growing crystals using an ozone enriched hydrogen-oxygen flame. 3,778,234, 12-11-73, Cl. 252-301.40r.

Cobb, Delwin E.; and Sullivan, Robert J., to Caterpillar Tractor Company. Mechanically actuated water cannon. 3,729,137, 4-24-73, Cl. 239-101.000.

Cobb, Delwin E.; Kepner, Carl L.; Roberts, Wayne E.; and Woody, Albert L., to Caterpillar Tractor Company. Apparatus for fracture of material in situ with stored inertial energy. 3,770,322, 11-6-73, Cl. 299-37.000.

Cobb, Harold Ralph William; and Brown, Eric, to United Kingdom Atomic Energy Authority. Treatment of metals. 3,732,126, 5-8-73, Cl. 148-11.50r.

Cobb, Jack M. Method and apparatus for storing cutting implements. 3,759,594, 9-18-73, Cl. 312-31.000.

Cobb, James Campbell. Containers. 3,727,803, 4-17-73, Cl. 222-215.000.

Cobb, James Edward: *See—*
West, Dexter F.; and West, Joseph W., 3,713,378.

Cobb, Louis R. Cassette tape holder. 3,765,738, 10-16-73, Cl. 312-11.000.

Cobb, Mack R.: *See—*
Lind, Archie L.; and Cobb, Mack R., 3,780,551.

Cobb, Malcolm Carnie; and White, Trevor Raymond. Fluid transfer. 3,744,256, 7-10-73, Cl. 61-13.000.

Cobb, Raymond L., to Phillips Petroleum Company. Amino-substituted mercapto compounds and their preparation by the reaction of aminothiosulfuric acids and aziridines. 3,737,446, 6-5-73, Cl. 260-453.00r.

Cobb, Raymond L., to Phillips Petroleum Company. Polyaromatic production. 3,767,723, 10-23-73, Cl. 260-670.000.

Cobb, Richard D. Dust flap for trailers and trucks. 3,737,176, 6-5-73, Cl. 280-154.50r.

Cobb, Richard E.; and Lanigan, Richard W., to American Hospital Supply Corporation. Disposable flatware container. 3,768,691, 10-30-73, Cl. 220-40.00r.

Cobb, William R.: *See—*
Moreland, William C., II; Cobb, William R.; and Tyke, Charles R., 3,711,672.

Cobble, James T., to B & J Machinery Company, Inc. Knife block for a tufting machine. 3,757,709, 9-11-73, Cl. 112-79.00r.

Cobbledick, David S.; and Norman, Arthur J., to General Tire & Rubber Company, The. Urethane foam catalyst system. 3,714,077, 1-30-73, Cl. 260-2.5be.

Cobbledick, David S., to General Tire & Rubber Company, The. Preparation of vinyl-coated polyurethane foams. 3,729,370, 4-24-73, Cl. 161-160.000.

Cobbs, Walter H., Jr.; Dunn, Donald; and Soukup, Victor G., to Cincinnati Milacron Inc. Impact-resistant rigid polyurethane foam compositions and process of manufacture. 3,728,288, 4-17-73, Cl. 260-2.5bd.

Cobey, Herbert T. Compost and refuse shredding and shifting apparatus. 3,733,033, 5-15-73, Cl. 241-30.000.

Coblentz, Bernard S.; and White, Vincent F., to Foster Grant Co., Inc. Fixture for supporting rotary display racks. 3,739,920, 6-19-73, Cl. 211-123.000.

Coblentz, Robert C. Harvesting system using tree frame. 3,729,906, 5-1-73, Cl. 56-1.000.

Coburn, Herbert D.: *See—*
Kelly, Gilbert H.; and Coburn, Herbert D., 3,715,007.

Coburn Manufacturing Company, Inc.: *See—*
Stith, Joe D., 3,732,647.

Coburn, Ronald L.; and Roth, Oyvind, to International Business Machines Corporation. Digital tachometer with symmetrical output. 3,723,748, 3-27-73, Cl. 250-233.000.

Coby, Arnold, to Lee, Raymond, Organization, Inc., The. Chance operated peg element projecting device. 3,709,500, 1-9-73, Cl. 273-138.00a.

Coca-Cola Company, The: *See—*
Iacobucci, Guillermo Arturo; Myers, Dirck Van Buren; and Okubo, Kazuyoshi, 3,736,147.
Sedam, Jason K., 3,744,764.

Coccagna, Edmund G., to Mohawk Data Sciences Corporation. Seven or nine channel readout with adjustable threshold. 3,735,372, 5-22-73, Cl. 340-174.10h.

Coccagna, Edmund G., to Mohawk Data Sciences Corporation. Demodulating circuit employing phase shifting techniques. 3,739,288, 6-12-73, Cl. 329-104.000.

Coccia, Rudolph A., to Westinghouse Air Brake Company. Electropneumatic brake system. 3,734,571, 5-22-73, Cl. 303-20.000.

Coccia, Rudolph A., to Westinghouse Air Brake Company. System for blending regenerative and dynamic and friction braking. 3,774,095, 11-20-73, Cl. 318-371.000.

Coch, Lester, to Waldes Kohinoor, Inc. Process for thermally transforming metal parts. 3,756,871, 9-4-73, Cl. 148-153.000.

Coch, Lester, to Waldes Kohinoor, Inc. System for wet impact plating. 3,776,186, 12-4-73, Cl. 118-603.000.

Cochardt, Alexander R.: *See—*
Cochardt, Philip A.; Cochardt, Alexander R.; and Cochardt, Alexander W., 3,755,515.
Cochardt, Philip A.; Cochardt, Alexander R.; and Cochardt, Alexander W., 3,764,539.

Cochardt, Alexander W.: *See—*
Cochardt, Philip A.; Cochardt, Alexander R.; and Cochardt, Alexander W., 3,755,515.
Cochardt, Philip A.; Cochardt, Alexander R.; and Cochardt, Alexander W., 3,764,539.

Cochardt, Philip A.; Cochardt, Alexander R.; and Cochardt, Alexander W., to Community Building Association of Washington, Indiana, Inc., mesne. Utilizing a magnetic field to restrain a ferrite slurry during pressure filtration and particle orientation. 3,75,515, 8-28-73, Cl. 264-24.000.

Cochardt, Philip A.; Cochardt, Alexander R.; and Cochardt, Alexander W., to Community Building Association of Washington, Indiana, Inc. Flexible ferrite permanent magnet and methods for its manufacture. 3,764,539, 10-9-73, Cl. 252-62.540.

Cochin, J. D., Manufacturing Company: *See—*
Feudale, Victor John, 3,774,724.

Cochon, Rene P., to International Business Machines Corporation. Manipulation apparatus. 3,769,794, 11-6-73, Cl. 60-594.000.

Cochran, Alastair J.; Jepson, John W.; Woolley, Edward R.; and Lynch, Francis Des., to Acushnet Company. Correlated set of clubs with indicator line. 3,722,887, 3-27-73, Cl. 273-77.00a.

Cochran, Andrew A.; and Starliter, Aaron G., to United States of America, Interior. Production of rutile and iron from ilmenite. 3,767,378, 10-23-73, Cl. 75-1.000.

Cochran, Charles C. Reversible cycle ice maker. 3,759,048, 9-18-73, Cl. 62-73.000.

Cochran, David L.: *See—*
Mainhardt, Robert; Cochran, David L.; Deleray, Arthur L.; Fritzler, Gary L.; and Mawhinney, Robert C., 3,720,167.

Cochran, David L.; and Salter, Steven J., to MB Associates. Rocket launcher. 3,717,068, 2-20-73, Cl. 89-1.806.

Cochran, David S.; and Osborne, Thomas E., to Hewlett-Packard Company. Portable electronic calculator. 3,781,820, 12-25-73, Cl. 340-172.500.

Cochran, Michael D., to Tektronix, Inc., mesne. Calculator with a number processing system. 3,760,370, 9-18-73, Cl. 340-172.500.

Cochran, Michael J., to Tektronix, Inc., mesne. Calculator with hierarchy control system. 3,720,820, 3-13-73, Cl. 235-156.000.

Cochran, Paul E.: *See—*
Action, Floyd; Cochran, Paul E.; and Moore, William G., 3,781,622.

Cochran, Raymond J., to Fairfield Plastics Incorporated. Dispenser with turn cap. 3,718,239, 2-27-73, Cl. 222-548.000.

Cochran, Stanley R., to Du Pont de Nemours, E. I., and Company. False-twist texturing yarn with torque jet. 3,747,318, 7-24-73, Cl. 57-157.0ts.

Cochran, Todd Dresser, to Eastman Kodak Company. Camera apparatus for controlling diaphragm and shutter speed. 3,748,974, 7-31-73, Cl. 95-10.0ce.

Cochran, Troy L.: *See—*
Tobin, Carlton D., Jr.; Moline, Sheldon W.; Walder, Robert J.; Kirkpatrick, Melvin D.; Cochran, Troy L.; and Watwood, Robert P., 3,772,849.

Cochran, Troy Lee; and Kirkpatrick, Melvin D., to Union Carbide Corporation, mesne. Apparatus for making seed tape. 3,762,127, 10-2-73, Cl. 53-177.000.

Cochran Western Corporation: *See—*
Carder, Victor H.; and Notman, Robert J., 3,712,495.
Duerksen, Arnold, 3,722,921.
McCort, John I.; Notman, Robert J.; and Carder, Victor H., 3,717,365.

Cochran, William H., II. Antistatic tufted product. 3,713,960, 1-30-73, Cl. 161-66.000.

Cochran, William H., II. Textile product and process for making same. 3,728,204, 4-17-73, Cl. 161-66.000.

Cochrane, Chappelle C.: *See—*
Michalski, Raymond J.; and Cochrane, Chappelle C., 3,772,207.

Cochrane, Peter Ronald, to EMI Limited. Improvements relating to release mechanism for buoys. 3,729,755, 5-1-73, Cl. 9-8.00r.

Cockburn, Thomas: *See—*
Nagel, Raymond; Wharton, Norman; and Cockburn, Thomas, 3,763,814.

Cocke, John; Mommens, Jacques H.; and Raviv, Josef, to International Business Machines Corporation. Processing of compacted data. 3,717,851, 2-20-73, Cl. 340-172.500.

Cockerill, Robert E. Can accumulator and divider. 3,773,216, 11-20-73, Cl. 221-68.000.

Cockerill-Ougree-Providence et Esperance-Longdoz en abrege "-Cockerill": *See—*
Streel, Dominique Thomas Francois, 3,730,783.
Streel, Dominique Thomas Francois, 3,779,802.

Cocks, Franklin H.: *See—*
Entine, Gerald; Cocks, Franklin H.; and Mitchell, Carl Rice, 3,721,938.

Cockshott, Charles Peter: *See—*
Williams, Malcolm; and Cockshott, Charles Peter, 3,781,580.

Coco, Spencer G., to LCM Corporation. Structural means and a process for the manufacture thereof. 3,768,530, 10-30-73, Cl. 144-318.000.

Cocquebert, Andre Ernest. Separator guillotine. 3,726,164, 4-10-73, Cl. 83-1.000.

Coda, Nello: *See—*
Dieteman, Francis E.; and Coda, Nello, 3,731,368.

Coddington, Carl D.: *See—*
Lewis, Charles A.; Homza, John; Volkmer, Eldon A.; Kalaf, George P.; Coddington, Carl D.; and Zablocki, Charles J., 3,721,190.

Coddington, David M.; Marsh, William D.; and Cohen, Harvey, to Esso Research and Engineering Company. Anti-flat device. 3,724,521, 4-3-73, Cl. 152-340.000.

Coddington, David M.; and Marsh, William D., to Esso Research and Engineering Company. Halogenated butyl tubeless tire innerliner. 3,769,122, 10-30-73, Cl. 156-115.000.

Code Designs Limited: *See—*
Lovatt, Alan Felix, 3,728,818.

Coded Signatures, Inc.: *See—*
Mayer, George L., Jr.; and Dobbins, David L., 3,781,109.

Codet, Georgis; Dawans, Francois; de Charentenay, Francois-Xavier; and Teyssie, Philippe, to Institut Francais du Petrole, des Carburants et Lubrifiants. Organic compounds of the transition metals. 3,739,003, 6-12-73, Cl. 260-439.00r.

Codex Corporation: *See—*
Forney, George D., Jr., 3,723,911.

Codina, Jorge G., to Gravimetrics Incorporated. Magnetometer employing magnetically suspended body. 3,721,984, 3-20-73, Cl. 324-43.00r.

Codina, Jorge G., to Comard Controls, Inc. Code converter. 3,727,082, 4-10-73, Cl. 307-265.000.

Codina, Jorge G. Gyroscopic reference system. 3,736,033, 5-29-73, Cl. 308-10.000.

Codina, Jorge G., to Comard Controls, Inc. Encoder-decoder system. 3,748,388, 7-24-73, Cl. 179-5.00r.

Codlin, James B., to Allis-Chalmers Manufacturing Company. Ripper plow with combustion chamber in tip to effect fracturing of soil. 3,713,496, 1-30-73, Cl. 172-699.000.

Codman & Shurtleff, Inc.: *See—*
Reimels, Harry G., 3,713,533.
Reimels, Harry G., 3,764,427.

Codman, F. L. & J. C., Company: *See—*





Hall, Elisha Winthrop; and Sheehan, Walter A., 3,773,480.

Codner, Stephen J., Jr. Method and apparatus for control of valve operation. 3,730,150, 5-1-73, Cl. 123-90.180.

Codrino, Giuseppe. Diffuser with one or more attachment members for light guiding cables and provided with a light attenuating device. 3,751,655, 8-7-73, Cl. 240-8.160.

Codrino, Giuseppe. Metal cable terminal for light guiding cable. 3,758,189, 9-11-73, Cl. 350-96.00b.

Codrino, Giuseppe. Pushbutton switch, provided with a lighted ideogram. 3,766,349, 10-16-73, Cl. 200-167.00a.

Coe, Charles David, to Land Pyrometers Limited. Lances for taking samples of molten metal. 3,709,040, 1-9-73, Cl. 73-354.000.

Coe Laboratories: *See—*
Molnar, Eugene J., 3,715,331.

Coe, Robert L. Weekly cycle timing mechanism with shaft securing means for predetermined adjustable programming cam assembly. 3,775,574, 11-27-73, Cl. 200-38.0ba.

Coe, Roger: *See—*
Scott, Walter T., 3,779,227.

Coe, William A. Adaptor device for trailer dolly wheels and pads. 3,709,534, 1-9-73, Cl. 287-119.000.

Coelho, Daniel. Adjustable picture frame. 3,774,331, 11-27-73, Cl. 40-152.100.

Coen Company, Inc.: *See—*
Binasik, Chester S.; Hudson, Daniel H.; and Voorheis, Temple S., 3,765,345.
Vosper, Ralph R., 3,739,989.
Vosper, Ralph R.; Kirchner, Harry W., Jr.; and Hull, Guilford C., 3,752,405.

Coenders, Johannes Wilhelmus: *See—*
Verhoeckx, Nicholaas Alphonsus Maria; Van Der Hoff, Herman; Vos, Cornelius Henricus Johannes; and Coenders, Johannes Wilhelmus, 3,757,044.

Coenen, Renier Gertruda Hubertus: *See—*
Maan, Cornelis; Collaris, Maria Antonius Alphonsus Andreas; and Coenen, Renier Gertruda Hubertus, 3,770,601.

Coeppert, Erwin. Speed control device. 3,722,322, 3-27-73, Cl. 74-675.000.

Coes, Loring, Jr., to Norton Company. Grinding control system. 3,714,715, 2-6-73, Cl. 33-174.00r.

Coes, Loring, Jr., to Norton Company. Apparatus with selectively rigid and flexible support cable. 3,740,901, 6-26-73, Cl. 51-166.0ts.

Coester, Jean Yves: *See—*
Vautier, Philippe Jean; and Coester, Jean Yves, 3,711,786.

Coetzee, Rudolf Gerhardus. Water cisterns. 3,777,316, 12-11-73, Cl. 4-34.000.

Cofer, Daniel B.: *See—*
Lenaeus, George E.; Cofer, Daniel B.; and Murphy, John H., 3,774,669.

Cofer, Daniel B., to Southwire Company. Hot-formed copper-base product. 3,716,423, 2-13-73, Cl. 148-32.000.

Cofer, Daniel B.; Mitchell, Francis Marion; Ward, George C.; and Kozak, Milan, to Southwire Company. Continuous rolled rod direct cooling method and apparatus. 3,766,763, 10-23-73, Cl. 72-13.000.

Coffee, Irvin B. Planter apparatus. 3,742,877, 7-3-73, Cl. 111-6.000.

Coffee, Ralph E., to Olin Mathieson Chemical Corporation. Method of treating spherical powder grains. 3,714,306, 1-30-73, Cl. 264-3.00d.

Coffee, Robert L. Method and apparatus for storing gases and fueling internal combustion engines. 3,713,273, 1-30-73, Cl. 55-75.000.

Coffey, Charles A.; and Catena, Michael J., to Harris Paint Company. Method for decorating surfaces. 3,725,119, 4-3-73, Cl. 117-104.00r.

Coffey, Charles A.; and Catena, Michael J., to Harris Paint Company. Method for decorating surfaces. 3,764,067, 10-9-73, Cl. 239-1.000.

Coffey, Charles R.: *See—*
Crotty, Homer L.; Coffey, Charles R.; and Tesdahl, Thomas C., 3,741,805.

Coffey, Charles S.; Gornstein, Robert J.; and Shultz, William M., to Boeing Company, The. Continuous flow hydrofoil configuration. 3,745,959, 7-17-73, Cl. 114-66.50h.

Coffey, Peter E., to Environment/One Corporation. Method and apparatus for mercury concentration measurement. 3,711,248, 1-16-73, Cl. 23-230.00r.

Coffey, William F., to Westinghouse Electric Corporation. Snap-on terminal assembly for meter sockets. 3,731,253, 5-1-73, Cl. 339-217.00s.

Coffey, William F.; Coley, Kenneth R.; and McLaughlin, Emmett J., to Westinghouse Electric Corporation. Dielectric housing for electrical conductors in a meter housing. 3,746,936, 7-17-73, Cl. 317-120.000.

Coffield, Thomas H.; and Keblys, Kestutis A., to Ethyl Corporation. Method of winning copper, nickel, and other metals. 3,775,099, 11-27-73, Cl. 75-119.000.

Coffield, Thomas Hunter, to Ethyl Corporation. Cobalt recovery. 3,728,104, 4-17-73, Cl. 75-101.0be.

Coffin, Lamar D.: *See—*
Cusanelli, Dominic C.; Coffin, Lamar D.; and Rajcevic, Harold P., 3,743,501.

Coffin, Robert E.; and Piacente, Anthony N., to Congoleum Industries, Inc. Apparatus for finishing resinous surface coverings. 3,737,274, 6-5-73, Cl. 425-364.000.

Coffin, Stewart T. Assembly puzzle. 3,721,448, 3-20-73, Cl. 273-160.000.

Coffman, Alfred M., to Goodrich, B. F., Company, The. Interpolymers of acrylates, unsaturated acids and hydroxylated amides as pressure-sensitive adhesives. 3,738,971, 6-12-73, Cl. 260-80.730.

Coffman, Benjamin F.; and Coffman, Muriel F. Teaching aid. 3,762,071, 10-2-73, Cl. 35-35.00f.

Coffman, Clifford Clyde. Luggage carrier and camper sleeper. 3,712,523, 1-23-73, Cl. 224-42.10c.

Coffman, Gordon E. Rolling ball game apparatus. 3,711,094, 1-16-73, Cl. 273-86.000.

Coffman, John R., to Lewbill Industries, Inc. Combination heating and humidifying system. 3,776,214, 12-4-73, Cl. 126-113.000.

Coffman, Muriel F.: *See—*
Coffman, Benjamin F.; and Coffman, Muriel F., 3,762,071.

Coffman, Oscar D.: *See—*
Coffman, Oscar D.; and Reichner, Thomas W. (said Reichner assor. to said), 3,752,200.

Coffman, Oscar D.; and Reichner, Thomas W., said Reichner assor. to said Coffman, Oscar D. Powered hand tool. 3,752,200, 8-14-73, Cl. 144-1.00c.

Coffman, Paul M., to Shell Oil Company. Apparatus for manufacture of void-free and warp-free slab stock. 3,733,159, 5-15-73, Cl. 425-186.000.

Coffman, Robert B. Tape breaker (case 1). 3,728,772, 4-24-73, Cl. 29-239.000.

Coffman, Rudleigh G. Coaxial connector with an integral breakoff terminating resistor. 3,768,063, 10-23-73, Cl. 339-31.00r.

Coffre, Philippe: *See—*
Darmon, Jacques; and Coffre, Philippe, 3,719,816.

Coffy, Rene Louis: *See—*
Bourquardez, Gaston; and Coffy, Rene Louis, 3,765,267.
Violleau, Andre; Coffy, Rene Louis; and Bancal, Bernard Robert Laurent Marie, 3,718,521.

Cofield, William W., to Transcontinental Gas Pipe Line Corporation. Production of synthetic pipeline gas. 3,728,093, 4-17-73, Cl. 48-190.000.

Cofoid, Robert D.: *See—*
Preiser, Ralph H.; Goodwin, Clarence J.; and Cofoid, Robert D., 3,709,039.

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Coglianese, Fred A.; and Sullivan, James J., to Millmaster Onyx Corporation. Laminated roof construction and method of making same. 3,726,754, 4-10-73, Cl. 161-161.000.
Cogliano, Joseph A., to Grace, W. R., & Co. Method for the preparation of transparent heat shrinkable thermoplastic polymeric film from foamed thermoplastic polymeric material. 3,755,520, 8-28-73, Cl. 264-53.000.
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Cognacq, Jean-Claude: *See—*
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Cohen, Barry G. Illumination assembly. 3,743,825, 7-3-73, Cl. 240-2.0ma.
Cohen, Burton E., to General Instrument Corporation. MOS voltage regulator. 3,757,200, 9-4-73, Cl. 323-8.000.
Cohen, Charles I., to Owens-Corning Fiberglas Corporation. Apparatus for leaching glass films. 3,734,802, 5-22-73, Cl. 156-345.000.
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Cohen, Joseph David; Brookes, Neil Roger; Stark, Herbert Carl; Hirschkron, Robert; and Lawson, Gerald William, to General Electric Company. Area control insert for maintaining air flow uniformity around the combustor of a gas turbine engine. 3,750,397, 8-773, Cl. 60-39.360.
Cohen, Jules Barry, to Medical Laboratory Automation, Inc. Pipettes. 3,732,735, 5-15-73, Cl. 73-425.600.
Cohen, Kenneth W., to Bailey Meter Company. Fluidic integrated logic circuit module. 3,731,700, 5-8-73, Cl. 137-833.000.
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Cohen, Lael I.; Elko, William F.; and Cohen, Gerald. Teaching aid and educational toy. 3,726,027, 4-10-73, Cl. 35-72.000.
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Cohen, Leonard H.; Zweidler, Alfred; Hafner, William F.; and Ellis, Robert J., to Institute for Cancer Research, The. Isolation and fractionation of organs of small animals. 3,750,964, 8-7-73, Cl. 241-29.000.
Cohen, Leonard S.; and Coulter, Lawrence J., to United Aircraft Corporation. Jet penetration control. 3,752,172, 8-14-73, Cl. 137-12.000.
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Cohen, Melvin Irwin: *See—*
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Cohen, Melvin L., to St. Joseph's Hospital and Medical Center. Slide rule guide to intravenous therapy. 3,747,847, 7-24-73, Cl. 235-85.000.
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Cohen, Peter J.; and Ackerman, Philip W., to Databit Incorporated. Time division multiplexing for telex signals. 3,749,841, 7-31-73, Cl. 179-15.0ba.
Cohen, Peter J.; and Ackerman, Philip W., to Databit Incorporated. Bit regeneration for time division multiplexers. 3,752,933, 8-14-73, Cl. 179-15.0ba.
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Cohen, Rene A., to Agence Nationale de Valorisation de la Recherche (ANVAR). Analytical centrifuges having a photoelectric detection. 3,712,742, 1-23-73, Cl. 356-197.000.
Cohen, Richard L.; and Taylor, Robert G., to Bendix Corporation, The. Multi-speed potentiometer servo. 3,749,997, 7-31-73, Cl. 318-592.000.



Cohen, Richard Lewis, to Bell Telephone Laboratories, Incorporated. Thickness measurements using the Mossbauer effect. 3,716,715, 2-13-73, Cl. 250-83.30d.
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Cohen, Ronald, to United States of America, Air Force. Power system for underwater vehicle. 3,720,179, 3-13-73, Cl. 114-16.00g.
Cohen, Ronald S.; and Dawley, James M., to Behavioral Controls, Inc. Programmed information transmittal apparatus. 3,763,575, 10-9-73, Cl. 35-9.00a.
Cohen, Samuel W. Baseball game. 3,764,139, 10-9-73, Cl. 273-88.000.
Cohen, Seymour. Extrusions for carrying ceiling tiles and window curtains, shades, and the like. 3,708,927, 1-9-73, Cl. 52-39.000.
Cohen, Sheppard; Gutta, John J.; and Richardson, Donald A., to GTE Sylvania Incorporated. Sodium vapor lamp having improved starting means. 3,721,845, 3-20-73, Cl. 313-15.000.
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Cohen, Sidney; and Schlesinger, Morton, to Mill-Master Onyx Corporation. Method and composition for providing antistatic and anti-soilant properties in hydrophobic fibers. 3,753,772, 8-21-73, Cl. 117-139.50f.
Cohen, Sidney M., to Fuller Company. Method and apparatus for treating materials. 3,765,826, 10-16-73, Cl. 432-58.000.
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Cohen, Vivian; and Slocombe, Sidney Charles, to Fuchs Electrical Industries (Proprietary) Limited. Core balance earth leakage protective systems. 3,742,306, 6-26-73, Cl. 317-18.00d.
Cohen-Alloro, Richard; and Cuvililier, Roger. Apparatus for the granulometric separation of granular, pulverulent materials. 3,712,476, 1-23-73, Cl. 210-387.000.
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Mefferd, Wayne S.; and Gates, Wendall C., 3,736,402.
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Cohin, Noal; and Saucy, Gabriel, to Hoffmann-La Roche Inc. Aminospirothiazines and processes therefor. 3,763,155, 10-2-73, Cl. 260-243.00r.
Cohl, Matthew E. Method of orthodontia. 3,745,653, 7-17-73, Cl. 32-14.00a.
Cohn, Charles C., to Cohn, Samuel L. and Cohn, Charles C.; copartners trading and d/b/a Colonial Alloys Company. Sealing methods and compositions for aluminum oxide coatings. 3,767,474, 10-23-73, Cl. 148-6.100.
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Cohn, H. Marvin. Reinforced strap holder. 3,733,631, 5-22-73, Cl. 9-340.000.
Cohn, Harold J.; and Weems, Clyde. Roller mounted nailing machine. 3,743,158, 7-3-73, Cl. 227-8.000.
Cohn, Mark J. Film package. 3,751,253, 8-7-73, Cl. 96-67.000.
Cohn, Nathan, to Leeds & Northrup Company. Control of power system for optimum economy. 3,740,572, 6-19-73, Cl. 307-57.000.
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Cohn, Seymour B., to United States of America, Army. 3,760,304, 9-18-73, Cl. 333-73.00r.
Cohn, Seymour E., to United States of America, Army. 3,760,302, 9-18-73, Cl. 333-73.00r.
Coho, Owen C., to General Electric Company. Thrust control for linear motors. 3,719,869, 3-6-73, Cl. 318-135.000.
Coho, Owen C., to General Electric Company. Reaction rail pretension method. 3,733,669, 5-22-73, Cl. 29-155.000.
Coia, Pasco A., to General Signal Corporation. Telemetric receiver. 3,747,083, 7-17-73, Cl. 340-206.000.
Coil, Frederick J. Chain accessory device. 3,712,588, 1-23-73, Cl. 254-78.000.
Coil, Frederick J. Motorcycle towing device. 3,740,074, 6-19-73, Cl. 280-402.000.
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Colab Laboratories, Inc.: *See—*
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Colardelle, Joel Serge; Lerouge, Claude Paul Henri; and Regbuer, Marc Andre, to International Standard Electric Corporation. Current-limited gyrator. 3,778,734, 12-11-73, Cl. 333-80.00t.
Colas, Francois, to Cegedur GP. Load-carrying pallet. 3,726,236, 4-10-73, Cl. 108-51.000.
Colas, Jean D.; Leblan, Robert; and Schiesser, Henry, to International Business Machines Corporation. Distributive immediate ringing circuits for a telephone system. 3,767,857, 10-23-73, Cl. 179-18.0hb.
Colato, Albert E., to Plastics, Inc. Divided plate cover and plate. 3,708,086, 1-2-73, Cl. 220-20.000.
Colbath, Dan L. Roll-forming machine. 3,748,884, 7-31-73, Cl. 72-238.000.
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Colburn, John P. Piano instruction device. 3,719,118, 3-6-73, Cl. 84-478.000.
Colburn, Lyle W., to Dow Chemical Company, The. Bonding metal laminae with thermoplastic film. 3,721,597, 3-20-73, Cl. 156-309.000.
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Colburn, Steven C.; McPherson, Charles Q.; and Miller, Roger A., to General Dynamics Corporation. Composite magnetic mirror and method of forming same. 3,770,335, 11-6-73, Cl. 350-1.000.
Colburn, Walter E.; Trowern, Howard M., Jr.; and Kerfoot, Franklin W., Jr., to Parke, Davis & Company. System for remote control of package-dispensing station. 3,780,907, 12-25-73, Cl. 221-2.000.
Colby, Charles E. One-way motion detection switch. 3,735,298, 5-22-73, Cl. 335-206.000.
Colby, Daniel E.; Rogers, Philip E.; and Sliwinski, Frederick J., to McCord Corporation, mesne. Slush molding process. 3,728,429, 4-17-73, Cl. 264-302.000.
Colby, Harold S.: *See—*
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Colby, Kenneth G.; and Riggs, Robert F., to Sperry Rand Corporation. Display system to generate symbols formed of conic sections. 3,716,749, 2-13-73, Cl. 315-23.000.
Colchagoff, Robert D., to Owens-Illinois, Inc. Method and apparatus for blending molten glass. 3,723,084, 3-27-73, Cl. 65-136.000.
Colchagoff, Robert D., to Owens-Illinois, Inc. Apparatus for guiding gobs of molten glass. 3,770,409, 11-6-73, Cl. 65-225.000.
Colchester, John Edward, and Carey, John Gerard, to Imperial Chemical Industries Limited. Manufacture of bipyridylium salts. 3,714,174, 1-30-73, Cl. 260-295.0am.
Colchester, John Edward, to Imperial Chemical Industries Limited. Production of bipyridylium salts and related compounds. 3,716,546, 2-13-73, Cl. 260-295.0am.
Colchester, John Edward; and Entwisle, John Hubert, to Imperial Chemical Industries Limited. 4,4'-(Bis n,n' carbamyl methyl) dihydro-bipyridyls. 3,717,646, 2-20-73, Cl. 260-295.0am.

Colchester, John Edward; and Blundell, Thomas, to Imperial Chemical Industries Limited. Manufacture of bipyridylium salts. 3,723,444, 327-73, Cl. 260-295.0am.

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Cole, Byron M. Cathode ray tube deflection system. 3,714,497, 1-30-73, Cl. 315-19.000.

Cole, Clinton W., to Halliburton Company. Hydraulically powered pump having a precompression function. 3,765,449, 10-16-73, Cl. 137-596.120.

Cole, Clyde C. Weapon loader. 3,709,380, 1-9-73, Cl. 214-1.00d.

Cole, Clyde C. Handling beam for heavy elongate objects. 3,762,756, 10-2-73, Cl. 294-81.00r.

Cole, Clyde C. Beam arrangement for handling heavy elongate objects by power machinery. 3,781,054, 12-25-73, Cl. 294-81.00r.

Cole, Colin Francis; and Powell, Stanley, to British Titan Limited. Treatment of titanium dioxides. 3,723,149, 3-27-73, Cl. 106-300.000.

Cole, David B.; and Dean, Joseph E., to Modulex, Inc. Door casing assembly. 3,774,345, 11-27-73, Cl. 49-504.000.

Cole, Edmund A., 1/2 to Peters, Ernest C. Check-out counter. 3,707,826, 1-2-73, Cl. 53-384.000.

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Cole, Edward L.; and Hess, Howard V., to Texaco Inc. Continuous process for recovering waxes from oily sludges. 3,711,400, 1-16-73, Cl. 210-21.000.

Cole, Edward L.; and Hess, Howard V., to Texaco Inc. Process for treating septic biological wastes in arctic climates. 3,740,332, 6-19-73, Cl. 210-63.000.

Cole, Edward L.; Hess, Howard V.; and Franz, William F., to Texaco Inc. Regeneration of decoked alkaline sulfite pulp liquor. 3,761,349, 9-25-73, Cl. 162-36.000.

Cole, Edward L.; and Hess, Howard V., to Texaco Inc. Process for treating water-soluble organic wastes. 3,772,181, 11-13-73, Cl. 210-63.000.

Cole, Edward N., to General Motors Corporation. Engine exhaust reactor and method of making. 3,724,218, 4-3-73, Cl. 60-282.000.

Cole, Edward N., to General Motors Corporation. Stratified charge rotary combustion engine. 3,780,707, 12-25-73, Cl. 123-8.130.

Cole, Frank J.: *See—*
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Roblin, John M.; Cole, Frank J.; and Bourne, James G., 3,725,045.

Cole, Fred H. Tripod-supported electric disconnect switch for high-voltage electric power systems. 3,745,274, 7-10-73, Cl. 200-48.0cb.

Cole, Fred H., to Cole Instrument Corporation. Programmer. 3,747,432, 7-24-73, Cl. 74-568.00r.

Cole, Gail R. Clamping device. 3,712,606, 1-23-73, Cl. 269-92.000.

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Cole, George S.; Ritzenthaler, Richard L.; and Arnold, Don C. Diaphragm valves for liquids. 3,738,389, 6-12-73, Cl. 137-636.100.

Cole, George S.; and Ritzenthaler, Richard L., 50% to Cole, George S., 39% to Hartley, Cavour, 5% to Fryberger, H. B., Jr., 2% to Hartley, Alfred, 2% to Ellison, Donald G.; as receiver for Baker, John O., 1% to Hartley, Guilford and 1% to Ellison, Donald G Proportioning valve. 3,774,643, 11-27-73, Cl. 137-636.400.

Cole, Gerald S.; and Bolling, Gustaf F. Method of casting. 3,741,279, 6-26-73, Cl. 164-114.000.

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Cole, Harold F., to Dexter Corporation. The. Thermosetting resins color stabilized with dialkyl thiodipropionates. 3,773,723, 11-20-73, Cl. 260-45.85s.

Cole, Hayward C.; deceased (by Cole, L'Vina; executrix). Collapsible cargo container. 3,709,396, 1-9-73, Cl. 220-1.500.

Cole, Herbert Charles, to United Kingdom Atomic Energy Authority. Hall current accelerator adapted for injection of ions into plasma confinement system. 3,719,554, 3-6-73, Cl. 176-3.000.

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Cole, Jean R., to Weber Marking Systems, Inc. Rotary label printing machine adjustable rotor cam for separating the printing couple. 3,714,893, 2-6-73, Cl. 101-228.990.

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Cole, Joseph E., to Scovill Manufacturing Company. Popcorn popper having automatic buttering means. 3,722,399, 3-27-73, Cl. 99-323.800.

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Cole, Larry E.; and Zabsky, John M. Self-stabilizing pressure compensated injector. 3,748,852, 7-31-73, Cl. 60-39.650.

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Cole, Martin; and Rolinson, George Newbolt, to Beecham Group Limited. Antibiotic complex MM4462 and process preparing same. 3,737,523, 6-5-73, Cl. 424-122.000.

Cole, Nancy C.; Gunkel, Ronald W.; and Houck, Clarence W., to United States of America, Atomic Energy Commission. Brazing filler metal for molybdenum. 3,778,254, 12-11-73, Cl. 75-123.00r.

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Cole, Ned S. Muscle exercising device. 3,726,273, 4-10-73, Cl. 128-2.00s.

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Cole, Quintin Perry, to General Electric Company. Commutator having commutating segments adhesively bonded in shear to a base member. 3,751,700, 8-7-73, Cl. 310-235.000.

Cole, Raymond C., to International Playtex Corporation. Breast cup construction. 3,780,741, 12-25-73, Cl. 128-516.000.

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Coleman, Fred J., Jr.; and Weischedel, Richard C., to General Electric Company. Direction finder. 3,774,216, 11-20-73, Cl. 343-119.000.

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Coleman, H. Paris, to United States of America, Navy. Linear of planar retrodirective antenna system. 3,754,258, 8-21-73, Cl. 343-100.0td.

Coleman, Harold L.; Malson, Harold A.; Du Four, Howard R.; and Olt, Richard G., to Monsanto Research Corporation. Concentric cylinder assembly for producing pulsed neutrons. 3,751,668, 8-7-73, Cl. 250-502.000.

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Wegener, Otto; Louis, Heinrich; Oberkobusch, Rudolf; and Collin, Gerd, 3,761,387.
Collin, Heinrich. Device for plasticizing and homogenizing viscous masses. 3,778,036, 12-11-73, Cl. 259-185.000.
Collin, Herbert S. Clothes hanger and clamps therefor. 3,710,993, 1-16-73, Cl. 223-9.000.
Collin, R., Consulting AB: *See—*
Kolhi, Martti Ilmari, 3,758,258.
Colline, Raymond M.: *See—*
Haller, Willis D.; and Colline, Raymond M., 3,725,126.
Collineau, Claude Jean, to Coulter Electronics, Inc. Pulse count correction method and apparatus. 3,737,633, 6-5-73, Cl. 235-92.0pl.
Collinge, Robert Alan, to Smith, F., & Company (Whitworth) Limited. Textile treatment apparatus. 3,757,548, 9-11-73, Cl. 68-205.00r.
Collings, Peter R.: *See—*
Beyer, Rolf H.; Collings, Peter R.; and Laponsky, Alfred B., 3,748,523.
Collings, Peter R., to Westinghouse Electric Corporation. Electron imaging device utilizing a fiber optic input window. 3,712,986, 1-23-73, Cl. 250-227.000.
Collings, Robert F.: *See—*
Ruben, Murray A.; and Collings, Robert F., 3,760,409.
Collingwood, George H.: *See—*
Schuettler, Ralph W.; Turner, Garland L.; and Collingwood, George H., 3,760,579.
Collingwood, George H.; Winckhofer, Robert C.; and Weedon, Gene C., to Allied Chemical Corporation. Filter and method of manufacture. 3,731,815, 5-8-73, Cl. 210-496.000.
Collingwood, George Howard: *See—*
Turner, Garland Linwood; Schuettler, Ralph William; and Collingwood, George Howard, 3,737,505.
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Collins, Albert E., Jr. Method of making a drapery swag. 3,733,227, 5-15-73, Cl. 156-196.000.
Collins, Albert V., to Mooney Chemicals, Inc. Stabilized polyvalent metal soap composition. 3,762,890, 10-2-73, Cl. 44-66.000.
Collins and Aikman Corporation: *See—*
Bauer, Jackson, 3,723,217.
Collins, Arthur A., to Collins Radio Company. Expandable computer processor and communication system. 3,755,789, 8-28-73, Cl. 340-172.500.
Collins, Byron R.; Sules, Juris; and McVey, Charles I., to General Electric Company. High intensity lamp containing internal shorting fuse. 3,767,965, 10-23-73, Cl. 315-75.000.
Collins, David J.: *See—*
Hostynek, Juraj J.; and Collins, David J., 3,710,939.
Kapsambelis, Christos B.; and Collins, David J., 3,743,819.
Collins, Dean E., to Root-Lowell Manufacturing Co. Seal means for a compressed gas spraying device. 3,709,409, 1-9-73, Cl. 222-402.000.
Collins, Dean R.; and Carter, David L., to Texas Instruments, Incorporated. Charge coupled optical scanner. 3,771,149, 11-6-73, Cl. 340-173.0lt.
Collins, Dean Robert; and McMahon, William Raymond, to Texas Instruments, Incorporated. Method of fabricating a semiconductor device. 3,756,924, 9-4-73, Cl. 204-15.000.
Collins, Delmas E., to Jones-Zylon, Inc. Dry closet urinal. 3,727,244, 4-17-73, Cl. 4-110.000.
Collins, Donald Louis William; and Gillett, Brian Arthur, to Alcan Research and Development Limited. Filtration of molten metal. 3,729,097, 4-24-73, Cl. 210-69.000.
Collins, Edward, IV: *See—*
Bauman, Weldon W.; and Collins, Edward, IV, 3,781,691.
Collins, Emmit L., Jr. Snowmobile hoist. 3,747,778, 7-24-73, Cl. 214-1.00a.
Collins, Eugene P.; and Denner, Carl W. Cantilevered support system for structures. 3,747,289, 7-24-73, Cl. 52-73.000.
Collins, George E.: *See—*
Hayes, John R.; and Collins, George E., 3,742,775.
Collins, George Thomas, to British Industrial Plastics Limited. Control system for automatic machines. 3,748,412, 7-24-73, Cl. 200-46.000.
Collins, George Thomas. Printed circuit card test unit. 3,760,261, 9-18-73, Cl. 324-73.00r.
Collins, Harold T.: *See—*
Barnes, Estil N.; and Collins, Harold T., 3,717,695.
Collins, Harry F., Jr.: *See—*
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Collins, Henry F. Induction furnace with thermocouple assembly. 3,715,441, 2-6-73, Cl. 13-26.000.
Collins, Howard William, to International Rectifier Corporation. Solid state relay circuit with optical isolation and zero-cross firing. 3,723,769, 3-27-73, Cl. 307-252.0ua.
Collins, Jack T., to Automation Industries, Inc. Ultrasonic inspection device. 3,780,570, 12-25-73, Cl. 73-67.50r.
Collins, James E.: *See—*
Collins, Mary M.; and Collins, James E., 3,762,573.
Collins, James Edward: *See—*
Bell, Robert Graham; Collins, James Edward; and Griffiths, Gwylfa George, 3,741,262.
Collins, James R., to General Electric Company. Turn on/turn off circuit for the direct current operation of gaseous discharge lamps. 3,767,970, 10-23-73, Cl. 315-241.00r.
Collins, James T., to National Cash Register Company, The. Communications bridge for impedance matching of a plurality of lines. 3,754,196, 8-21-73, Cl. 333-8.000.
Collins, Jerry H., to Esso Research and Engineering Company. Use of 4-chloro-3,5-dinitrobenzenesulfonamide as a fungicide. 3,781,441, 12-25-73, Cl. 424-321.000.
Collins, John D., to Raytheon Company. Time compression signal processor. 3,774,201, 11-20-73, Cl. 343-5.0dp.
Collins, John Frederick, to United States Borax & Chemical Corporation. Organic fluids of the borate-glycol type. 3,738,941, 6-12-73, Cl. 252-389.000.
Collins, John J.; and Reber, Raymond A., to Union Carbide Corporation. Hydrocarbon separation using a selective adsorption process with purge gas conservation. 3,770,621, 11-6-73, Cl. 208-310.000.
Collins, John Joseph: *See—*
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Collins, John Joseph, to Union Carbide Corporation. Bulk separation of carbon dioxide from natural gas. 3,751,878, 8-14-73, Cl. 55-58.000.
Collins, John L., to Minnesota Mining and Manufacturing Company. Photocopier exposure control. 3,775,009, 11-27-73, Cl. 355-83.000.
Collins, John T.: *See—*
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Collins, Joseph C.: *See—*
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Collins, Joseph C., to Sterling Drug, Inc. 3,3-Dichloro-2-oxopolymethylenimines. 3,708,473, 1-2-73, Cl. 260-239.30r.
Collins, Joseph C.; and Rosi, David, to Sterling Drug Inc. 1-[Di-(lower-alkyl) aminoalkylamino] -9-oxothioxanthenes. 3,745,172, 7-10-73, Cl. 260-328.000.
Collins, Joseph C.; and Rosi, David, to Sterling Drug Inc. Preparation of 1-aminoalkylamino-9-oxothioxanthene-4-carboxaldehydes. 3,764,612, 10-9-73, Cl. 260-328.000.
Collins, Larry C.: *See—*
Ulm, Ralph E.; Phillips, Claude F.; Sullivan, Michael J.; Collins, Larry C.; and Parrent, William Russell, 3,775,024.
Collins, Leland F.; Quinn, Robert C.; and Wilhelmsen, Paul G., to Shell Oil Company. Preparation of sulfur slurries for pipeline transportation. 3,759,836, 9-18-73, Cl. 252-309.000.
Collins, Mary M.; and Collins, James E. Boot rack. 3,762,573, 10-2-73, Cl. 211-34.000.
Collins, Michael John: *See—*
Goetchfus, Ronald O.; and Collins, Michael John, 3,777,127.
Collins, Neal H.: *See—*
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Collins, Neil E.; and Halt, Ira E., to General Electric Company. Ohmic contact for group III-V p-type semiconductors. 3,769,694, 11-6-73, Cl. 29-589.000.
Collins, Paul R. Fish hook remover. 3,721,034, 3-20-73, Cl. 43-53.500.
Collins, Paul W.; and Pappo, Raphael, to Searle, G. D., & Co. 2-(Hydroxy-1-alkynyl)-5-oxocyclopent-1-eneheptanoic/octanoic acids and derivatives thereof. 3,770,776, 11-6-73, Cl. 260-345.700.
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Bruene, Warren B., 3,735,289.
Bruene, Warren B., 3,761,625.
Collins, Arthur A., 3,755,789.
Escoffier, Raymond P., 3,781,692.
Frazier, Melvin A., 3,775,707.
Frerking, Marvin E., 3,713,033.
Fuller, Ray C.; Phillips, Gary D.; and Simone, Richard B., 3,728,681.
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Robinson, Eugene A.; and Shipley, Roy E., 3,733,525.
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Runyan, Wesley G.; and Staley, Lewis E., 3,723,871.
Sather, Dalaine C., 3,723,842.
Sather, Delaine C., 3,723,886.
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Sather, Delaine C., 3,757,261.
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Scannell, Jack W., 3,730,799.
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Stover, Harris A., 3,714,375.
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Strathaman, Lyle R., 3,775,760.
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Temes, Gabor C., 3,725,828.
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Collins, Raymond W.: *See—*
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Collins, Richard: *See—*
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Collins, Richard; and Denise, Donald, to Marotta Scientific Controls, Inc. Quick closing valve actuator. 3,778,027, 12-11-73, Cl. 251-297.000.

Collins, Richard A.; and Martin, John F., to USM Corporation. Shoe inseaming machine with upper pre-tensioning means. 3,775,795, 12-4-73, Cl. 12-13.200.

Collins, Richard D.: *See—*
Marion, Thomas E.; and Collins, Richard D., 3,779,191.

Collins, Richard E.: *See—*
Moore, Thomas W.; Dimeo, Frank N.; and Collins, Richard E., 3,762,420.

Collins, Richard Howard; and Galli, Richard Joseph, to Du Pont de Nemours, E. I., and Company. Method of and apparatus for threading a web of plastic film onto a windup roll and winding it thereon. 3,756,527, 9-4-73, Cl. 242-56.200.

Collins, Robert F.: *See—*
Patience, Donald; and Collins, Robert F., 3,707,964.

Collins, Robert F., to Kendall Company, The, mesne. Lithotomy drape. 3,750,663, 8-7-73, Cl. 128-132.00d.

Collins, Robert F., to Kendall Company, The. Fenestrated surgical drape. 3,750,664, 8-7-73, Cl. 128-132.00d.

Collins, Robert F., to Kendall Company, The, mesne. Surgical drape. 3,769,971, 11-6-73, Cl. 128-132.00d.

Collins, Robert F., to Kendall Company, The. Folded surgical drape. 3,777,749, 12-11-73, Cl. 128-132.00d.

Collins, Robert H., to United States of America, Army. Testing tool for determining the boresight retention of weapons brackets and night vision sights. 3,764,219, 10-9-73, Cl. 356-138.000.

Collins, Robert J., to Upjohn Company, The. Animal feed and process. 3,755,577, 8-28-73, Cl. 424-244.000.

Collins, Robert J., to Upjohn Company, The. Animal feed for obtaining increased production in animals. 3,780,179, 12-18-73, Cl. 424-248.000.

Collins, Robin Ashley, to International Standard Electric Corporation. Aerial field monitoring. 3,718,931, 2-27-73, Cl. 343-703.000.

Collins, Robin Ashley, to International Standard Electric Corporation. Aerial field simulation. 3,732,569, 5-8-73, Cl. 343-100.0ap.

Collins, Russell William, to Bell Telephone Laboratories, Incorporated. Combined voice frequency transmission and DC signaling circuit. 3,731,234, 5-1-73, Cl. 333-1.000.

Collins, Stephen: *See—*
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Collins, Terence John, to Tiltman Langley Limited. Turnstile or like mechanisms. 3,754,481, 8-28-73, Cl. 74-527.000.

Collins, Terence John, to Tiltman Langley Limited. Coin-rejecting device. 3,768,618, 10-30-73, Cl. 194-102.000.

Collins, William. Roller assembly. 3,724,629, 4-3-73, Cl. 193-35.00r.

Collins, William J. Device for sampling molten metal. 3,753,372, 8-21-73, Cl. 73-354.000.

Collins, William Joseph: *See—*
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Collinson, Eric S.; deceased (by Collinson, Eva M.: executrix); and Howald, Werner E., to General Electric Company. Combustor and fuel injector. 3,720,058, 3-13-73, Cl. 60-39.74r.

Collinson, Eva M.: *See—*
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Collinson, John D.: *See—*
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Collis, Michael Edward Richard, to Vosper Thornycroft Limited. Cloth impregnating machine. 3,724,419, 4-3-73, Cl. 118-119.000.

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Collison, Roland B. Liquid supplement livestock feeder. 3,734,060, 5-22-73, Cl. 119-51.00r.

Colliver, Harold Edward Sydney; Boby, Gerald Eric; and Farmer, Dennis Dewhurst, to Plessey Company Limited, The. Transfer pumps. 3,743,438, 7-3-73, Cl. 415-204.000.

Collo, Jean-Paul: *See—*
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Collom, Cletus J., to Weltronic Company. Tens and units timer for a welding system. 3,723,772, 3-27-73, Cl. 307-293.000.

Collon, Albert Adelin Mathieu Auguste, to Vickers-Vandergeeten Societe Anonyme. Bottling machines. 3,741,435, 6-26-73, Cl. 220-93.000.

Colloton, Marcus J., to Simplicity Manufacturing Company, Inc. Cooling arrangement. 3,727,712, 4-17-73, Cl. 180-66.00r.

Colloton, Marcus J., to Simplicity Manufacturing Company, Inc. Clutch. 3,762,233, 10-2-73, Cl. 74-242.14r.

Collura, Lawrence: *See—*
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Collura, Lawrence, to Dreyfus, Edward and Collura, Lawrence. Dynamically calibrated oil content meter. 3,710,111, 1-9-73, Cl. 250-83.3uv.

Collura, Peter C.; and Desmond, John D., to Container Corporation of America. Sift-proof dispensing carton. 3,735,914, 5-29-73, Cl. 229-17.00r.

Colman, Albert J.; Zandberg, Paul I.; and Taylor, Harles F. Method and means for making dental impressions. 3,722,097, 3-27-73, Cl. 32-17.000.

Colman, John M.: *See—*
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Colman, Richard; and Mangelsdorf, David H., to United States of America, Army, mesne. Cold weather face mask. 3,768,100, 10-30-73, Cl. 2-9.000.

Colman, Robert, to General Alarm Corporation. Automatic telephone alarm system responsive to answering of the called telephone. 3,761,632, 9-25-73, Cl. 179-5.00p.

Colman, William H., Jr., to Lenco, Inc. Sheet metal crimping attachment for impact gun. 3,777,687, 12-11-73, Cl. 113-54.000.

Colmey, John C.: *See—*
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Colobert, Louis Eugene Marie: *See—*
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Colodney, Daniel; and Cordon, Martin, to Colgate-Palmolive Company. Fluoride containing transparent dentifrice. 3,711,604, 1-16-73, Cl. 424-52.000.

Colom, Lucas A.; and Levine, Harold A., to International Business Machines Corporation. Novel etchant for etching thin metal films. 3,773,670, 11-20-73, Cl. 252-79.500.

Colomb, Henry Octave, Jr.; and Trecker, David John, to Union Carbide Corporation. Radiation-convertible norbornene polymers. 3,715,342, 2-6-73, Cl. 260-80.810.

Colombini, Ariano: *See—*
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Colombini, John: *See—*
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Colombini, Serafino. Automatic feeder, applicable to collar plasticizing machines and related functional method. 3,730,513, 5-1-73, Cl. 271-9.000.

Colombo, Gianni; and Ippolito, Giovanni, to AGES S.p.A.-Azienda Generale Elettronica Servomeccanismi. Read only memory device with capacitive coupling of information. 3,740,729, 6-19-73, Cl. 340-173.0ca.



Colombo, Gregory R.; and Waldo, Russell W., to Ideal Security Hardware Corporation. Door latch mechanism. 3,746,381, 7-17-73, Cl. 292-216.000.

Colombo, Gregory R., to Ideal Security Hardware Corporation. Cross bolt deadlock. 3,760,619, 9-25-73, Cl. 70-104.000.

Colombo, Gregory R.; and Waldo, Russell W., to Ideal Security Hardware Corporation. Chain door lock. 3,763,673, 10-9-73, Cl. 70-93.000.

Colombo, Sergio; Carugati, Vitaliano; Ferramola, Gianni; and Ferrari, Sergio, to Raytheon Company. Radiographic display system. 3,735,132, 5-22-73, Cl. 250-71.550.

Colombo, Sergio; Carugati, Vitaliano; Ferramola, Gianni; and Ferrari, Sergio, to Raytheon Company. Radiographic display system with cassette lock. 3,781,557, 12-25-73, Cl. 250-326.000.

Colombot, Pierre. Variable speed endless conveyor. 3,709,150, 1-9-73, Cl. 104-25.000.

Colome-Riera, Juan: *See—*
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Colonial Sugar Refining Company, Limited, The: *See—*
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Colorado Instruments, Inc.: *See—*
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Colorado Leisure Products, Inc.: *See—*
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Colorapid Limited: *See—*
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Colorcon Incorporated: *See—*
Signorino, Charles A., 3,738,952.
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Coloroll Limited: *See—*
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Colosimo, Louis E. Mobile air cleaning apparatus for pollution removal. 3,738,088, 6-12-73, Cl. 55-104.000.

Colovas, Denny D.; Logan, John S.; and Skruch, Richard R., to Ford Motor Company. Vehicle switching device. 3,712,238, 1-23-73, Cl. 104-130.000.

Colovas, Denny D.; Logan, John S.; and Skruch, Richard R., to Ford Motor Company. Steering mechanism. 3,712,239, 1-23-73, Cl. 104-130.000.

Colovas, Denny D.; Logan, John S.; and Skruch, Richard R., to Ford Motor Company. Passenger compartment. 3,730,583, 5-1-73, Cl. 296-64.000.

Colovas, Denny D.; Logan, John S.; and Skruch, Richard R., to Ford Motor Company. Guided vehicle power supply system. 3,733,446, 5-15-73, Cl. 191-49.000.

Colovas, Denny D.; Logan, John S.; and Skruch, Richard R., to Ford Motor Company. Vehicle suspension. 3,768,829, 10-30-73, Cl. 280-124.00r.

Colpack, Michael J.: *See—*
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Colpitts, David A.; and Vigneault, Ronald R., to United States of America, Navy. Explosive destruct device. 3,726,215, 4-10-73, Cl. 102-24.00r.

Colsen, F. Thomas: *See—*
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Colsen, Frank Thomas; Kaufman, Peter; and Townsend, Robert L., to Educated Vehicle Systems, Inc. Auto alarm system. 3,710,317, 1-9-73, Cl. 340-64.000.

Colson, George P., to Engineering Field Services. Means for eliminating roll of tunneling shield. 3,763,657, 10-9-73, Cl. 61-85.000.

Colston, John Matthew: *See—*
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Colston, John Matthew; and Machin, James Robert, to Elliott Brothers (London) Limited. Graphic display system. 3,725,723, 4-3-73, Cl. 315-22.000.

Colt Industries, Operating Corporation: *See—*
Baker, Richard L., 3,733,729.
Baker, Richard L., 3,733,730.
Baker, Richard L., 3,747,251.
Bell, Oliver A., Jr., 3,746,826.
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Curtis, George F.; and Tatro, Henry J., Jr., 3,756,119.
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Colt, James G.: *See—*
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Colt, James G., to Carpetech Corporation. Carpet and upholstery cleaning with fluid pumping safety feature. 3,774,261, 11-27-73, Cl. 15-321.000.

Colterjohn, Walter L.; and Karkow, Waldemar B., Jr. Panoramic aerial camera. 3,739,699, 6-19-73, Cl. 95-12.500.

Coltman, John W., to Westinghouse Electric Corporation. System for viewing detected objects. 3,739,324, 6-12-73, Cl. 340-3.00c.

Colton, Lewis Henry. Method of and apparatus for imparting twist to yarns. 3,759,024, 9-18-73, Cl. 57-34.0hs.

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Condux International, Inc.: *See—*
Elder, Clarence H.; and Jugle, Leonard L., 3,764,151.
Condux-Werke-Herbert A. Merges K.G.: *See—*
Wittke, Paul, 3,770,215.
Cone, C. W.: *See—*
Glass, Ercell L., 3,732,053.
Cone, Douglas P.: *See—*
Glass, Ercell L., 3,732,053.
Cone, J. L., Jr.: *See—*
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Cone, Peter F.: *See—*
Murray, Richard D.; Cone, Peter F.; Chertok, Allan B.; and Shaler, David, 3,757,352.
Cone, Richard E.: *See—*
Shooter, Kenneth L.; Cone, Richard E.; and Bajtosh, Steve E., 3,744,614.
Cone, Richard E., II: *See—*
Ellies, Alan David; and Cone, Richard E., II, 3,748,778.
Cone, William H. Electrical generating device for use with engine clutch mechanism. 3,778,651, 12-11-73, Cl. 310-74.000.
Cone-Blanchard Machine Company, mesne: *See—*
Brown, Roger W.; and Ranney, Hinkley H., 3,774,501.
Conerly, Howard Jeffery, to International Telephone and Telegraph Corporation. Cama/lama transverter. 3,770,893, 11-6-73, Cl. 179-7.0mm.
Conery, William J.; and Kaessen, Donald A., to Hydr-O-Matic Pump Company. Diaphragm controlled air relief valve. 3,730,215, 5-1-73, Cl. 137-494.000.
Conery, William J.; and Kaessen, Donald A., to Hydr-O-Matic Pump Company. Air relief valve assembly. 3,732,889, 5-15-73, Cl. 137-498.000.
Conetta, Aldo: *See—*
Stookey, Lawrence L.; Conetta, Aldo; and Zehnder, Hans, 3,746,511.
Confer, Dale E.; Creed, John W., Jr.; and Elliott, Harold V., to General Motors Corporation. Electrically coupled steering column. 3,763,455, 10-2-73, Cl. 339-3.00s.
Confer, James O.; and McTaggart, George D., to Corning Glass Works. Ceramic article and method of making it. 3,715,220, 2-6-73, Cl. 106-39.0dv.
Confer, Raymond C.; and Talmon, Floyd H., to Air-Lock Plastics, Inc. Blow molded article of thermoplastic material having a threaded insert therein. 3,742,995, 7-3-73, Cl. 150-.500.
Confer, Robert E. Carton and method of making. 3,750,538, 8-7-73, Cl. 93-94.00r.
Conflow Limited: *See—*
Perry, Dennis Alfred; and Walford, John Ernest, 3,743,354.
Congdon, George L.: *See—*
Burkhalter, Robert; and Congdon, George L., 3,715,587.
Conger, Marvin T.; and Evans, Theodore A., to Goodyear Tire & Rubber Company, The. Polyurethane form reticulated by fire-polishing method. 3,718,613, 2-27-73, Cl. 260-2.5bd.
Conger, Robert L., to United States of America, Navy. Missile guidance system. 3,729,150, 4-24-73, Cl. 244-3.130.
Congleton, Wayne, to Dalco Packaging Corporation. Carton with hinge latch closure. 3,767,110, 10-23-73, Cl. 229-45.000.
Congoleum Industries, Inc.: *See—*
Coffin, Robert E.; and Piacente, Anthony N., 3,737,274.
Morton, John Fraser; Schlaffer, James C.; Eitzel, Robert J.; and Fowler, Joseph A., 3,745,040.
Winters, Donald C., 3,725,196.
Congro, Peter Leo. Dual inhaler. 3,724,459, 4-3-73, Cl. 128-200.000.
Conibear, Frank. Frame for animal trap. 3,760,531, 9-25-73, Cl. 43-90.000.
Conibear, Frank. Trigger mechanism for animal trap. 3,762,094, 10-2-73, Cl. 43-92.000.
Conical Containers Company (Proprietary) Limited: *See—*
Van Manen, Jacob Teunis Teunissen, 3,777,454.
Conix, Andre Jan: *See—*
Verhille, Karel; and Conix, Andre Jan, 3,725,061.
Conklin, Alvin R. Combination shower and toiletry dispenser. 3,713,585, 1-30-73, Cl. 239-307.000.
Conklin, George L.: *See—*
Bell, Stanley C.; and Conklin, George L., 3,761,476.
McCaully, Ronald J.; Bell, Stanley C.; and Conklin, George L., 3,725,389.
Conklin, George W.: *See—*
McClure, James D.; and Conklin, George W., 3,719,699.
McClure, James D.; and Conklin, George W., 3,776,935.
Conklin, James T.; and Rogers, James B., to Penetryn Systems Inc. Method and apparatus for testing for leaks in pipes. 3,750,711, 8-7-73, Cl. 138-97.000.
Conklin, John R., to De Laval Separator Company, The. Basket centrifuge with self-triggering sludge discharge. 3,718,278, 2-27-73, Cl. 233-19.00a.
Conklin, Keith J.: *See—*
Jennings, Norman L.; and Conklin, Keith J., 3,726,036.
Conklin, Paul W., to Addressograph-Multigraph Corporation. Branding apparatus and method. 3,759,172, 9-18-73, Cl. 101-7.000.
Conklin, Robert M., to Brunswick Corporation. Golf game. 3,712,624, 1-23-73, Cl. 273-176.0fa.
Conklin, Robert M.; Anderson, Robert I.; Gautraud, Michael G.; and Shimanski, William H., to Brunswick Corporation. Method of making scenes for a golf game. 3,729,315, 4-24-73, Cl. 96-27.00r.
Conklin, Robert M., to Brunswick Corporation. Golf game. 3,769,894, 11-6-73, Cl. 95-85.000.
Conklin, Thomas H.: *See—*
Liebert, Richard B.; and Conklin, Thomas H., 3,723,278.
Conkling, Donald R.: *See—*
Louthan, Jean H.; Helm, Arlow D.; Wynne, Ralph A.; McElroy, Arthur H.; Roush, Gale S.; and Conkling, Donald R., 3,743,566.
Conkling, William Collins, to Pennwalt Corporation. Automatic changeover valve for chlorine gas system. 3,779,268, 12-18-73, Cl. 137-113.000.
Conlan, William A., Jr.: *See—*
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Conlee, George D.: *See—*
Clarkin, Edward J.; and Conlee, George D., 3,780,903.
Conlee, George D. Motorized overhead door opener. 3,736,483, 5-29-73, Cl. 318-469.000.
Conlee, George D., to Slifer Manufacturing Company, Incorporated. Multiple fluid pump. 3,771,912, 11-13-73, Cl. 417-397.000.
Conlee, George D. Method of forming a worm shaft. 3,774,295, 11-27-73, Cl. 29-456.000.
Conley, Charles F. Method and apparatus for protecting livestock. 3,747,897, 7-24-73, Cl. 256-10.000.
Conley, Dwain Dennis; and Lemkin, Jack Lewis, to General Mills Fun Group, Inc. Toy molding device. 3,741,706, 6-26-73, Cl. 425-406.000.
Conley, Edward F.: *See—*
Lew, Sandy Y.; and Conley, Edward F., 3,769,240.
Conley, Grant W., to Sanders Associates, Inc. Character display system. 3,772,676, 11-13-73, Cl. 340-324.00a.
Conley, Jack S.: *See—*
Clauss, Julius A., Jr.; Conley, Jack S.; and Lemon, Robert W., 3,724,626.
Conley, James Robert, to Coleman Company, Inc., The. Adaptor coupling for fluid flow conduits. 3,749,356, 7-31-73, Cl. 251-148.000.
Conley, James W.: *See—*
Smith, John H.; Conley, James W.; and Dworak, Stanley E., 3,768,014.
Conley, John E. Automatic feeder. 3,776,194, 12-4-73, Cl. 119-52.00b.
Conley, Joseph W., to Hercules Incorporated. Benzidine yellow type pigment. 3,719,658, 3-6-73, Cl. 260-176.000.
Conley, Kurt H.: *See—*
Young, James L.; and Conley, Kurt H., 3,755,870.
Conley, Thomas F.; and Muck, George A., to Dean Foods Company. Sterilized packaging system. 3,744,209, 7-10-73, Cl. 53-22.00r.
Conley, Thomas F.; and Gylland, Ernest F., Jr., to Westinghouse Electric Corporation. Variable capacity multiple compressor refrigeration system. 3,775,995, 12-4-73, Cl. 62-196.000.
Conn, Alvie P. Gas instrument liquid separator. 3,778,977, 12-18-73, Cl. 55-219.000.
Conn, Bernice G.: *See—*
Cohen, Harvey K., 3,720,318.



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Southard, James S., 3,740,449.
Southard, James S., 3,764,722.
Conn, James F.: *See—*
Kichline, Thomas P.; and Conn, James F., 3,781,334.
Conn, John B.: *See—*
Hinkley, David F.; and Conn, John B., 3,732,292.
Conn, John B.; and Bollinger, Frederick W., to Merck & Co., Inc. Preparation of 5-fluoro-2-methyl-1-(p-methyl-sulfinylbenzylidene)-3-indenyl acetic acid. 3,759,987, 9-18-73, Cl. 260-515-a.
Conn, Richard W., 15% to Zimmerman, Michael C. Digital computer having a plurality of serial storage devices for central memory. 3,733,588, 5-15-73, Cl. 340-172.500.
Connaught Laboratories, Limited, mesne: *See—*
Fenje, Paul, 3,769,415.
Connecticut Bank and Trust Company, The: *See—*
Atkins, Henry M., 3,726,032.
Connele, Eugene W.: *See—*
Elkins, William; and Connele, Eugene W., 3,743,368.
Connell, John M.: *See—*
Barratt, Robert O.; and Connell, John M., 3,710,556.
Connell, Joseph A.; Baranyi, Anthony J.; and Laylander, Paul V., to Systems Capital Corporation. Cryogenic storage tank improvements. 3,707,850, 1-2-73, Cl. 62-45.000.
Connell, Raymond C. Dolly-type tandem axle suspension. 3,726,541, 4-10-73, Cl. 280-106.50r.
Connell, Raymond S. Polarity separation multiplex. 3,711,651, 1-16-73, Cl. 179-15.0bt.
Connell, Richard A.: *See—*
Jones, Frederick L.; and Connell, Richard A., 3,754,906.
Connelly, Eugene B., to United States Steel Corporation. Inside flash bead trimmer apparatus for welded metal pipe having alternately remotely positionable flash bead cutters. 3,759,140, 9-18-73, Cl. 90-24.00b.
Connelly, Joseph: *See—*
Zinser, Frederick M., Jr.; and Connelly, Joseph, 3,775,548.
Connelly, Joseph J.: *See—*
Adams, Cecil E.; Connelly, Joseph J.; and Krehlik, Joseph F., 3,768,378.
Connelly, Richard L. Ventilated stackable animal cages. 3,749,061, 7-31-73, Cl. 119-19.000.
Connelly, Robert. Floating boat fender. 3,765,366, 10-16-73, Cl. 114-219.000.
Connelly, T. J., Construction Company: *See—*
Caillouet, Louis A., Jr., 3,750,123.
Connelly, William; Sydenham, Leonard; and Szilagyi, John, to Canadian Industries Limited. Acrylic coating compositions. 3,758,428, 9-11-73, Cl. 260-17.00r.
Connely, Ralph R., Jr. Mobile theater-type classroom. 3,758,995, 9-18-73, Cl. 52-8.000.
Conner, Algie J., to Universal Oil Products Company. Process for the production of gasoline and low molecular weight hydrocarbons. 3,761,391, 9-25-73, Cl. 208-76.000.
Conner, Charles J., to United States of America, Agriculture. Activated single bath pearl gray chrome green mineral dyeing and compositing therefor. 3,768,965, 10-30-73, Cl. 8-17.000.
Conner, Charles J., to United States of America, Agriculture. Bright pink, lavender and blue mineral dyeing single bath process for cellulosics. 3,779,702, 12-18-73, Cl. 8-52.000.
Conner, Donald E.: *See—*
Zak, Henry; and Conner, Donald E., 3,766,267.
Conner, Elmer W. Anti-jacknifing device for tractor-trailer trucks. 3,722,918, 3-27-73, Cl. 280-432.000.
Conner, Jack S., to Northrop Corporation. Nutplate installation device. 3,711,006, 1-16-73, Cl. 227-61.000.
Conner, James M.: *See—*
Bjork, Albion P.; and Conner, James M., 3,726,198.
Bjork, Albion P.; and Conner, James M., 3,748,987.
Bjork, Albion P.; and Conner, James M., 3,762,292.
Salvador, Henry J.; and Conner, James M., 3,751,145.
Conner, James M.; and Salvador, Henry J., to Polaroid Corporation. Photographic apparatus for motion picture projection. 3,736,051, 5-29-73, Cl. 352-72.000.
Conner, James Mervyn: *See—*
Meysenburg, Raymond Richard; Recker, Robert James; Wetrich, Peter Donald; Kelly, Charles Whippel; Hertzog, William Frederick; and Conner, James Mervyn, 3,774,475.
Conner, Jesse R.: *See—*
Reen, Orville W.; and Conner, Jesse R., 3,748,105.
Conner, John P.: *See—*
Grunert, Kurt A.; Conner, John P.; and Dauer, John J., Jr., 3,735,295.
Conner, Rex C.; and Ferstandig, Louis L., to Halocarbon Products Corporation. Prime mover system utilizing bis (trifluoromethyl) benzene as working fluid. 3,707,843, 1-2-73, Cl. 60-36.000.
Conner, Rex C.; and Ferstandig, Louis L., to Halocarbon Products Corporation. Prime mover system utilizing trifluoroethanol as working fluid. 3,722,211, 3-27-73, Cl. 60-36.000.
Conner, Robert J., to Phillips Petroleum Company. Neckforming plug with embedded diamond particles. 3,737,273, 6-5-73, Cl. 425-326.000.
Conner, William B. Keyboard actuated lighting instrument. 3,777,134, 12-4-73, Cl. 240-10.00r.
Conner, William R., Jr., to Kellwood Company. Punch-tape-controlled sewing apparatus. 3,771,477, 11-13-73, Cl. 112-121.120.
Conner, William V.; and Proctor, Stephen G., to United States of America, Atomic Energy Commission. Americium recovery from reduction residues. 3,781,404, 12-25-73, Cl. 423-11.000.
Conners, John A.; Liepelt, Donald W.; and Baulieu, William H., to Jenkins Bros. Butterfly valve. 3,727,883, 4-17-73, Cl. 251-306.000.
Connet, Bennet H.: *See—*
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Connick, Francis Glenn: *See—*
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Connick, Francis Glenn, to Swift & Company. Pickle manufacturing. 3,717,479, 2-20-73, Cl. 99-222.000.
Connick, Francis Glenn, to Swift & Company. Container attachment. 3,746,158, 7-17-73, Cl. 206-47.00r.
Connier, Joel: *See—*
Blanchard, Bruno; Hilleret, Noel; Connier, Joel; and Quoirin, Jean-Baptiste, 3,757,116.
Connolly, Denis, to Sund-Borg Machines Corporation. Mold clamp. 3,768,952, 10-30-73, Cl. 425-450.000.
Connolly, Edward A., to Fraser Sweatman, Inc. Protective cap. 3,722,533, 3-27-73, Cl. 137-382.000.
Connolly, Gerardine L. Candle holder. 3,726,632, 4-10-73, Cl. 431-126.000.
Connor, Dale C.; and McDonough, Robert P., to Harris-Intertype Corporation. Fast recovery low distortion limiter circuit. 3,770,984, 11-6-73, Cl. 307-237.000.
Connor, Daniel S.; and Krummel, Harry Karl, to Procter & Gamble Company, The. Detergent composition containing a homogeneously polyfunctionally-substituted aromatic acid sequestering agent. 3,758,420, 9-11-73, Cl. 252-550.000.
Connor, David T.: *See—*
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Connor, Denis John; Limb, John Ormond; Pease, Roger Fabian Wedgwood; and Scholes, William George, to Bell Telephone Laboratories, Incorporated. Apparatus for detecting the moving areas in a video signal. 3,716,667, 2-13-73, Cl. 178-6.000.
Connor, Denis John; Lims, John Ormond; and Walsh, Kenneth Allen, to Bell Telephone Laboratories, Incorporated. Conditional replenishment video encoder with low-frequency compensation. 3,752,913, 8-14-73, Cl. 178-6.000.
Connor, Denis John, to Bell Telephone Laboratories, Incorporated. Video encoder utilizing columns of samples encoded by prediction and interpolation. 3,769,451, 10-30-73, Cl. 178-6.000.
Connor, Desmond John, to Mauri Brothers & Thomson Limited. Casein or the like drying machines. 3,733,714, 5-22-73, Cl. 34-173.000.
Connors, Edward F.: *See—*
Zebley, Donald D., 3,757,950.
Connors, John J., to Westinghouse Electric Corporation. Coarse-fine analog positioning system. 3,760,249, 9-18-73, Cl. 318-592.000.
Conoflow Corporation: *See—*
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Metz, Thomas R., 3,729,996.
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Conover, C. E., & Co., Inc.: *See—*
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Conover, Lloyd H.; and Woodward, Robert B., to Pfizer, Inc. 3,4,10-Trioxo octahydroanthracene-2-aminoacetic acids and derivatives thereof. 3,772,363, 11-13-73, Cl. 260-351.000.
Conover, William J. Method of and housing apparatus for farrowing and finishing of farm animals. 3,726,254, 4-10-73, Cl. 119-16.000.
Conrac Corporation: *See—*
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Feuer, Robert; and Ball, Donald A., 3,762,223.
Lagasse, Eugene F.; and Geissler, Francis X., 3,771,242.
Conrad, E. Henry. Article display frames and their assembly with display articles. 3,711,978, 1-23-73, Cl. 40-152.000.
Conrad, George: *See—*
Genzer, Jerome; and Conrad, George, 3,725,413.
Conrad, Herbert M.; and Ashe, Hilary, to Conrad Laboratories, Inc. Method for detection of opium derivatives in urine. 3,761,227, 9-25-73, Cl. 23-230.00b.
Conrad Industries, Inc.: *See—*
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Conrad, Joseph D., Sr.; and Roberts, Bruce W., to Westinghouse Electric Corporation. Dual strength blade of 17-4Ph stainless steel. 3,730,785, 5-1-73, Cl. 148-142.000.
Conrad Kern AG: *See—*
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Conrad, Marcus L., to Clark Equipment Company. Fluid steering system. 3,724,585, 4-3-73, Cl. 180-79.20c.



Conrad, Marcus L., to Clark Equipment Company. Control system for a vehicle engine. 3,749,269, 7-31-73, Cl. 214-762.000.
Conrad Precision Industries: *See—*
Pregel, Alexander; and Goldman, William A., 3,780,462.
Conrad, Rene; and Hohmann, John, to Dynaloc Corporation. Centerline tracking rollers for closed loop systems. 3,713,348, 1-30-73, Cl. 74-240.000.
Conrad, Rene; and Hohmann, John, to Dynaloc Corporation. Self centering pulley system for thin film material. 3,772,931, 11-20-73, Cl. 74-240.000.
Conrad, Richard R., to I-T-E Imperial Corporation. Self-powered relay target circuit. 3,735,215, 5-22-73, Cl. 317-335.00c.
Conrad, Robert F. Thermoplastic yarn plasticizing device and method of plasticizing thermoplastic yarn. 3,742,695, 7-3-73, Cl. 57-157.0ts.
Conrad Schmitt Studios, Inc.: *See—*
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Conrad, Sherman E., to Delavan Manufacturing Company. Swirl air nozzle. 3,747,851, 7-24-73, Cl. 239-8.000.
Conrad, Ulrich, to Daimler-Benz Aktiengesellschaft. Internal combustion engine with intermediate pipe inserted in passage between cylinder head and crankcase. 3,765,385, 10-16-73, Cl. 123-41.840.
Conrad, Winthrop B., to Teleflex, Inc. Method for manufacturing a gear wheel. 3,772,936, 11-20-73, Cl. 74-434.000.
Conradt, James C., to L & J Speciality Corporation. Lighted stair rail. 3,740,541, 6-19-73, Cl. 240-2.00w.
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Conroux, Jean-Jacques; Jonville, Christian Pierre; Zurcher, Erwin Alair; Pilet, Daniel Henri Philippe; and Guignard, Claude Henri, to Societe Pour la Recherche et le Developpement Technologiques ("Soret"). Apparatus for the circular knitting of hook and oop fastener elements. 3,765,193, 10-16-73, Cl. 66-9.00r.
Conroy, Gary D., to Anchor Hocking Corporation. Apparatus for measuring the thickness of a metal oxide coating on a glass article. 3,773,420, 11-20-73, Cl. 356-51.000.
Conroy, Kevin, to Esso Research and Engineering Company. Thermoplastic pipe coupling. 3,754,781, 8-28-73, Cl. 285-322.000.
Conroy, Natalie Elaine: *See—*
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Conroy, Robert; Hirsch, Burton; and Redel, Ray, to Meyer, Fred, of California. Simulated fireplace assembly. 3,742,189, 6-26-73, Cl. 219-367.000.
Conroy, Thomas Francis; and Ringwall, Carl Gustave, to General Electric Company. Fabrication process for porous metal bearings. 3,763,534, 10-9-73, Cl. 29-148.40b.
Conru, Harold Ward, to Textron, Inc., mesne. Plastic impregnated fabric journal bearing. 3,734,585, 5-22-73, Cl. 308-238.000.
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Conseiller, Yvon G. M.; and Fontaine, Gerrard J., to Rhone-Poulenc S.A. Process for the nitrosylation of organic compounds. 3,721,669, 3-20-73, Cl. 260-248.500.
Conserva, Mario: *See—*
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Console, Edward E.; deceased (by Console, Edward T.; executor), to Watsonville Canning & Frozen Food Co. Cauliflower coring and floreting apparatus. 3,754,470, 8-28-73, Cl. 99-538.000.
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Consoli, Claudio, to Carle & Montanari S.p.A. Ball mill for the refining of cocoa, chocolate, paints, lacquers, enamels and the like. 3,709,442, 1-9-73, Cl. 241-65.000.
Consoli, Claudio C. Roller or ball mill for the refining of cocoa and chocolate and the grinding of paints, enamels and the like. 3,764,079, 10-9-73, Cl. 241-110.000.
Consoli, Terenzio; and Nagau, Shigeo, to Commissariat a l'Energie Atomique. Chamber for the high-frequency heating of a conducting medium. 3,774,001, 11-20-73, Cl. 219-10.650.
Consolidated Airborne Systems, Inc.: *See—*
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Riccio, Katherine Delia, 3,743,170.
Consolidated Metco, Inc.: *See—*
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Consolidated Natural Gas Service Co., Inc.: *See—*
Huebler, Jack; Massey, Lester G.; and Tarman, Paul B., 3,773,680.
Consolidated Olive Growers: *See—*
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Consolidated Packaging Corporation: *See—*
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Consolidated Paper (Bahamas) Limited: *See—*
Stringer, Peter Jack Eldon Crawford; Knight, Richard Langhiam Castle; and Wayne, Donald Gordon, 3,718,037.
Consolidated Papers, Inc.: *See—*
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Kahoun, John B., 3,733,057.
Niilo-Rama, Jaakko E.; and Whitley, Donald L., 3,745,065.
Schliesman, Leonard J., 3,759,744.
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Yavorsky, Paul M.; and Gorin, Everett, 3,718,691.
Consolloy, James W., to ESB Incorporated. Multicell battery having membrane sealed between cover and container. 3,713,895, 1-30-73, Cl. 136-114.000.



Consonni, Pietro: *See—*
Omodei-Sale, Amedeo; and Consonni, Pietro, 3,769,282.
Consyne Corporation: *See—*
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Constable, Charles F.: *See—*
Pagdin, William G.; and Constable, Charles F., 3,749,004.
Constable, Geoffrey E. P.; and Lloyd, Dennis Arthur, to Smiths Industries Limited. Access-control equipment and item-dispensing systems including such equipment. 3,743,134, 7-3-73, Cl. 221-2.000.
Constable, Geoffrey Ernest Patrick; and Holter, Godfrey George, to Smiths Industries Limited. Electronic combination lock. 3,710,136, 1-9-73, Cl. 307-109.000.
Constable, Geoffrey Ernest Patrick, to Smiths Industries, Limited. Access-control equipment and item dispensing systems including such equipment. 3,750,828, 8-7-73, Cl. 221-2.000.
Constable, Philip James, to Drayton Controls Limited. Multiple switch control assembly with multiple pushbutton interlock latch bar and safety switch. 3,739,110, 6-12-73, Cl. 200-5.00r.
Constable, Ronald Jack Walker, to Hirst Microwave Industries, Limited. Method and apparatus for cooking. 3,716,687, 2-13-73, Cl. 219-10.550.
Constant, Paul C., Jr.; Hodge, Walter; Barker, Frank; and Keller, Edward S., to Fedderson, Don, Productions, Inc. Dynamic advertising display system. 3,735,513, 5-29-73, Cl. 40-32.000.
Constantin Film GmbH: *See—*
Greger, Georg, 3,751,144.
Constantin, Jean-Pierre; Duquesne, Jean-Claude; and Pontier, Michel, to Commissariat a l'Energie Atomique. Anticavitation device. 3,712,341, 1-23-73, Cl. 138-44.000.
Constantin Rauch: *See—*
Weigle, Dieter, 3,727,522.
Constantine, Neil V., to International Bakerage; a division of International Consolidated, Inc. Container. 3,759,416, 9-18-73, Cl. 220-97.00f.
Constantinescu, Dorin; Cruceanu, Sever; Spataru, Eugen; and Mereanu, Nicolae, to Institutul de Proiectari si Cercetari Pentru Utilaj Petrolier-IPCUP. Sealed bearing with hydrostatic pressure balancing for core barrels. 3,735,826, 5-29-73, Cl. 175-228.000.
Constantinescu, Dorin; Cruceanu, Sever; Spataru, Eugen; and Mereanu, Nicolae, to Institutul de Proiectari si Cercetari Pentru Utilaj Petrolier-IPCUP. Double tube core barrel which is lowered through drill pipe. 3,741,323, 6-26-73, Cl. 175-246.000.
Constantinescu, Petre; Popescu, Mihail; and Dumitrescu, Constantin, to Institutal de Proiectari al Industriei Usoare Ipiu. Prefabricated girder channel for ventilation heating or air conditioning of the industrial halls. 3,748,801, 7-31-73, Cl. 52-173.000.
Constantini, Michel: *See—*
Brunie, Jean-Claude; Constantini, Michel; Crenne, Noel; and Jouffret, Michel, 3,751,480.
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Helwig, Frederick Charles, 3,730,074.
McGeary, Frank L.; and Zampetti, Patrick L., 3,779,660.
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Construction Technology, Inc.: *See—*
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Constructions Mecaniques F. Laroche & Fils: *See—*
Morel, Andre, 3,780,399.
Constructions Mills-K: *See—*
Bussienne, Christian Edmond, 3,721,326.
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Constructors Pacific Company: *See—*
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Wildman, Alexander J., 3,748,740.
Wildman, Alexander J., 3,780,437.
Conta, Renato; and Mariani, Giuseppe, to Olivetti, Ing. C., & C., S.p.A. Machine for checking and correcting elements of hybrid integrated circuits by memorizing data. 3,723,694, 3-27-73, Cl. 219-69.00v.
Conta, Robert L., to Gleason Works, The. Process for heating and sintering ferrous powder metal compacts. 3,779,747, 12-18-73, Cl. 75-200.000.
Contacts Incorporated: *See—*
Gwyn, Childress B., Jr., 3,737,999.
Container Corporation of America: *See—*
Austin, John J., Jr.; and Desmond, John D., 3,746,156.
Austin, Timothy K., 3,721,029.
Botterman, David L.; and Lewis, Philip W., 3,730,419.
Carpenter, John L., 3,722,668.
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Clark, Frank E., 3,734,392.
Collura, Peter C.; and Desmond, John D., 3,735,914.
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Helms, Charles Robert, 3,751,872.
Howlett, Robert J.; and Miller, Ronald H., 3,738,604.
Mortenson, Wallis, 3,744,703.
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Pilz, William M., III, 3,730,416.
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Starr, Anthony J.; Shindel, Gustave A.; and Keith, Harry G., Jr., 3,778,215.
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Nayar, Harbhajan S., 3,765,866.
Conti, Donald: *See—*
Morris, David; and Conti, Donald, 3,754,182.
Conti, Donald J.; and Reilly, Thomas L. Under-voltage protection device. 3,718,839, 2-27-73, Cl. 317-31.000.
Conti, Francesco Ettore. Installation for recovering electric power, combined with an alumina manufacturing installation. 3,723,073, 3-27-73, Cl. 23-293.000.
Conti, Gianni, to Billi, G., & C. S.p.A. Needle raising cams for circular knitting machines. 3,726,110, 4-10-73, Cl. 66-40.000.
Conti, Joseph A.: *See—*
Parups, Eriks; and Conti, Joseph A., 3,770,263.
Conti, Michele: *See—*
Carignani, Milvio; Conti, Michele; Berte, Dufour; Rossi, Geremia; Pasero, Edoardo; and Zmolnig, Hermann, 3,770,415.
Conti, Paolo, to Billi, G., & C., S.p.A. Yarn clamping and cutting attachment for circular knitting machines. 3,777,513, 12-11-73, Cl. 66-140.00r.
Conti, Robert F.; and Follett, Don S., to Follett Corporation. Ice storage and water carbonating system. 3,721,369, 3-20-73, Cl. 222-67.000.
Conti, Robert F.; Dunham, James D.; and Cosnell, Michael P., to Follett Corporation. Ice diverter valve and control system therefor. 3,771,560, 11-13-73, Cl. 137-609.000.
Conti, Ronald J.; and Berry, Steven R., to General Dynamics Corporation. Apparatus for refocusing reflected energy at a target focal point. 3,757,078, 9-4-73, Cl. 219-121.001.
Conti, Walter; and Corsini, Pasquale, to Snam Progetti S.p.A. Process for the production of composite fibers, apparatus suitable to realize the same and fibers obtained thereby. 3,778,873, 12-18-73, Cl. 28-72.300.
Continental Can Company, Inc.: *See—*
Armstrong, Thaddeus J.; and Ohlhaver, Jon, 3,767,892.
Aschberger, Anton A., 3,708,845.
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Bozek, John S., 3,750,817.
Brockett, Halford E.; and Melberg, Robert C., 3,749,272.
Campbell, Robert H.; and Cloyd, Harold S., 3,750,598.
Cartwright, William J., 3,733,680.
Chiappe, Wayne T., 3,716,468.
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Erlandson, Paul M., 3,712,022.



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Frankenberg, Henry E., 3,736,846.
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Galitz, Raymond F., 3,760,928.
Ganz, Robert H., 3,766,704.
Hansson, Ants, 3,733,880.
Hawkins, Jerry D.; and Keinanen, Henry J., 3,731,835.
Hekal, Ihab M; and Payne, Richard A., 3,765,561.
Hilgenbrink, John T., 3,763,807.
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King, Paul H.; and Skrzecz, Edward L., 3,747,392.
Knipe, Leonard E., 3,750,862.
Knipe, Leonard E.; and Furra, Carl D., 3,755,726.
Lecinski, Frank H., 3,730,370.
Mahajan, Gautman K.; Wright, Norbert L.; and Schnell, Albert C., 3,773,140.
Manizza, Guelfo A., 3,734,391.
Miller, Donald E., 3,730,016.
Moller, Jens L., 3,746,202.
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Naggert, Dietrich K., 3,717,971.
Pasternack, George, 3,712,871.
Rarey, Kenneth W., 3,746,540.
Rarey, Kenneth W.; and Kennedy, John B., Jr., 3,765,654.
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Ruekberg, Herbert S., 3,733,158.
Ruekberg, Herbert S., 3,773,888.
Schneider, Julius L., 3,767,607.
Simoudis, John C., 3,755,887.
Stanley, Thomas R.; and Mascia, Carmen T., 3,759,427.
Stock, Michael J.; and Kotal, John R., 3,708,679.
Stone, James N., 3,719,654.
Szatkowski, Richard R., 3,744,951.
Tamm, Richard F., 3,781,207.
Tatham, James P., 3,708,687.
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Turner, Howard M.; Adomaitis, Domas; and Boik, Elmer J., 3,753,641.
Vercillo, Peter A., 3,720,342.
Vermes, Roy E.; Nebeling, Robert L.; and Knecht, John E., 3,727,495.
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Latham, Burton F., Jr., 3,755,543.
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Matthews, Roy S.; and Willis, Billy E., 3,741,165.
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Jacoby, Hans-Dieter, 3,731,538.
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Heller, Karl Heinz; and Fischer, Hans Joachim, 3,738,429.
Rach, Heinz-Dieter; and Grollich, Ekkehard, 3,738,408.
Rach, Heinz-Dieter; and Grollich, Ekkehard, 3,754,588.
Continental Homes, Incorporated: *See—*
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Continental Industries, Inc.: *See—*
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Riggs, Jerry W.; and Stiner, Roy E., 3,756,632.
Continental Machines, Inc.: *See—*
Robinson, La Roy E.; and Peltz, Leslie J., 3,721,139.
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Barrere, Clem A., Jr., 3,733,775.
Bishop, Clyde E., 3,770,782.
Blubaugh, Robert L.; Ruckle, Robert A.; and Watts, Hubert J., 3,755,905.
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Boyer, London D., 3,769,167.
Bush, Roy L.; and Beattie, Harold R., 3,757,387.
Campbell, David W.; and Matthews, Robert R., 3,770,056.
Cease, Vincent J.; and Thomas, Samuel C., Jr., 3,772,198.
Crumb, Robert E., 3,765,722.
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Durr, Albert M., Jr.; and Meador, William R., 3,725,280.
Eustace, Gerard F., 3,773,093.
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Fair, Delbert W.; and Miller, J. H., Jr., 3,745,885.
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Gant, Preston L.; Motes, Bill G.; and Brundage, Robert S., 3,746,861.
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Gordy, Travis L., 3,746,561.
Goupillaud, Pierre L., 3,774,146.
Gratz, Ronald L., 3,722,223.
Gregory, Mercer Duane, 3,779,908.
Groves, William L., Jr., 3,773,110.
Hasz, John W., 3,712,027.
Hill, William L., 3,718,366.
Hunt, Mack W.; and Rogers, Lynn C., 3,746,698.
Hunt, Mack W.; and Sias, Roy C., 3,764,533.
Hunt, Mack W., 3,773,813.
Hwang, Philip T. R.; and Pusey, Walter C., III., 3,740,641.
Jacocks, Claud L., 3,719,601.
Johnson, Wade M.; and Ruckle, Robert A., 3,749,420.
Kennedy, Carl D.; and Lundeen, Allan J., 3,736,352.
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Kerfoot, Oliver C.; Krehbiel, Delmar D.; and Feighner, George C., 3,775,325.
Kleinpeter, Joseph A., 3,718,581.
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Leach, Bruce E., 3,773,691.
Maxson, Orwin, G., 3,722,591.
McClaflin, Gifford G.; and Royer, Dennis J., 3,730,275.
McGuire, Stephen E.; and Kennedy, Carl D., 3,732,324.
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Motz, Kaye L.; and Friend, John, 3,712,923.
Radd, Frederick T., 3,746,396.
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Rogers, Lynn C.; and Hunt, Mack W., 3,718,589.
Rogers, Lynn C., 3,746,643.
Rogers, Lynn C.; and Hunt, Mack W., 3,755,170.
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Snyder, Charles F.; and Casad, Burton M., 3,728,844.
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Starks, Charles M., 3,725,458.
Thakker, Mahendra T., 3,723,291.
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Continental-Wirt Electronics Corporation: *See—*
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Cook, Charles E. Fertilizer dispenser. 3,726,304, 4-10-73, Cl. 137-

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Contois, Lawrence E.; and Merrill, Stewart H., to Eastman Kodak Company. Photoconductive elements containing complexes of Lewis acids and formaldehyde resins. 3,740,218, 6-19-73, Cl. 96-1.500.
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Cremisio, Richard S.; and Brabec, Charles J., 3,766,808.
Contract Cleaning Co., Pty. Limited: *See—*
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Lohse, Hans-Heinrich, 3,781,139.
Contratto, James, to U.S. Industries, Inc. Recessed lighting fixture. 3,721,817, 3-20-73, Cl. 240-73.0ba.
Contratto, James, to U.S. Industries, Inc. Automatically operable end connector for a power distribution system. 3,731,255, 5-1-73, Cl. 339-21.00r.
Contratto, James, to U.S. Industries, Inc. Adapter for three conductor electrical power distribution track. 3,737,834, 6-5-73, Cl. 339-2.10r.
Contratto, James; and Green, Frederic L., to U.S. Industries, Inc. Globe support. 3,740,547, 6-19-73, Cl. 240-144.000.
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Contreras, Manuel H.; and Land Bros. Inc. Apparatus for performing intermittent operations on a web. 3,708,372, 1-2-73, Cl. 156-351.000.
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Control Products Corporation: *See—*
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Control Sciences, Inc.: *See—*
Staas, Philip C., Jr., 3,745,531.
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Baudelet de Livois, Guy M., 3,723,047.
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Controlled Environment Systems, Inc.: *See—*
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Cartier, Roger J., 3,717,043.
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Kahale, Abed G.; Yatsushiro, Kenji; and Wielgus, Thaddeus S., 3,720,936.
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Controls Research Corporation: *See—*
Sharf, Keith A., 3,773,996.
Convain, Michel; and Mcresse, Pascal, to Societe Anonyme Pronal. Closing device for a pneumatic system. 3,732,888, 5-15-73, Cl. 137-489.000.
Converse, Helena M. Simple shoring to form ditches-canals-pillars and posts. 3,750,410, 8-7-73, Cl. 61-41.00a.
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Franck, Max E.; and Heisler, Harry F., 3,762,832.
Conversion Chemical Corporation: *See—*
Beckwith, Merton M.; and Hsu, Grace F., 3,769,182.
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Burt, Harold S.; and Carvalho, Vasco O., 3,776,396.
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Conway, Joseph D. Jet-vibrator-vacuum system and method. 3,711,891, 1-23-73, Cl. 15-321.000.
Conway, Joseph E.; and Keilbaugh, William A., to Crane Co. Continuous ion exchange. 3,775,310, 11-27-73, Cl. 210-33.000.
Conway, Peter J., to Grayron Industries Limited. Concrete plank production. 3,728,064, 4-17-73, Cl. 425-376.000.
Conway, Richard F.: *See—*
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Conway, Tim D.; and Paddock, Paul F., to Sunkist Growers, Inc. Method and means for automatically detecting and sorting produce according to internal damage. 3,768,645, 10-30-73, Cl. 209-111.500.
Conwed Corporation: *See—*
Akerson, David W.; and Miller, Duer L., 3,758,357.
Gaffney, Bernard J.; and Gaffney, Robert Lee, 3,714,310.
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Worner, Howard Knox; and Siddons, Ronald, 3,752,663.
Cooble, James T., to B & J Machinery Company, Inc. Yarn tension control for a tufting machine. 3,762,346, 10-2-73, Cl. 112-79.00r.
Coogan, Joseph E., III: *See—*
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Cook, Albert W.; and Dernovshek, Joseph F., to Goodyear Tire & Rubber Company, The. Graphite and/or carbon disk removable wear faces. 3,712,427, 1-23-73, Cl. 188-251.00a.
Cook, Brian Alfred, to Imperial Chemical Industries, Limited. Concentration process. 3,738,925, 6-12-73, Cl. 204-180.00p.
Cook, Calvin S.: *See—*
Lohr, Raymond J.; and Cook, Calvin S., 3,718,344.
Cook, Charles A.; and Campbell, David H., to Ethyl Corporation. Seal for plastic sheeting. 3,716,434, 2-13-73, Cl. 156-157.000.
Cook, Charles Calvin; and Haynsworth, Erwin Mathew, to American Cyanamid Company. Process for producing land-fills. 3,718,003, 2-27-73, Cl. 61-35.000.
Cook, Charles Calvin; and Haynsworth, Erwin Mathew. Process for producing land-fill compositions. 3,761,239, 9-25-73, Cl. 71-33.000.
Cook, Charles Calvin; and Haynsworth, Erwin Mathew, to American Cyanamid Company. Process of removing water from slimes. 3,763,041, 10-2-73, Cl. 210-42.000.



Cook, Charles E. Fertilizer dispenser. 3,726,304, 4-10-73, Cl. 137-268.000.
Cook, Charles E., to Sperry Rand Corporation. Spread spectrum, linear FM communications system. 3,766,477, 10-16-73, Cl. 325-30.000.
Cook, Charles E., to Sperry Rand Corporation. Correlation system with recirculating reference signal for increasing total correlation delay. 3,774,019, 11-20-73, Cl. 235-181.000.
Cook, Charles F., to Phillips Petroleum Company. Low temperature polymerization of cyclicpolycnes. 3,714,138, 1-30-73, Cl. 260-93.100.
Cook, Charles H.; and Bergquist, Dwight H., to Henningsen Foods, Inc. Sanitary chain. 3,748,919, 7-31-73, Cl. 74-249.000.
Cook, Charles W., to Ball Corporation. Method and apparatus for transporting glassware. 3,710,937, 1-16-73, Cl. 209-74.00r.
Cook, Charles Wayne, to Fiber Industries, Inc. Method and apparatus for cutting and removing elongated material. 3,733,945, 5-22-73, Cl. 83-24.000.
Cook, Darwen J.: *See—*
Balogh, Edward, Jr.; and Cook, Darwen J., 3,735,355.
Cook, David Langham, to Square D Company. Pneumatic timer attachment for an electromagnetic relay. 3,775,710, 11-27-73, Cl. 335-61.000.
Cook, Donald L.; and Hansen, Douglas R. Toy figure with mechanism for flowing air. 3,721,039, 3-20-73, Cl. 46-116.000.
Cook, Edward H., Jr.: *See—*
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Grotheer, Morris P.; and Cook, Edward H., Jr., 3,755,103.
Cook, Elton S.; and Tanaka, Kinji, to Stanley Drug Products, Inc. Method and compositions for inducing resistance to bacterial infections. 3,728,444, 4-17-73, Cl. 424-3.500.
Cook, Elton S.; Tanaka, Kinji; and Fujii, Akira, to Stanley Drug Products, Inc. Methods and compositions for inducing resistance to bacterial infections using certain lysine derivatives. 3,740,438, 6-19-73, Cl. 424-319.000.
Cook, Elton S.; and Nutini, Leo G., to Stanley Drug Products, Inc. Method for controlling the toxicity of drug products. 3,767,792, 10-23-73, Cl. 424-95.000.
Cook, Galen B. Forced expirometer. 3,774,595, 11-27-73, Cl. 128-208.000.
Cook, Galen B. Compliable cavity speculum. 3,774,596, 11-27-73, Cl. 128-5.000.
Cook, Galen B. Surgical hemostatic light. 3,774,614, 11-27-73, Cl. 128-325.000.
Cook, Gary L., to Solid State Products, Inc. Impact resistant fluorescent lantern. 3,767,904, 10-23-73, Cl. 240-11.20r.
Cook, George W.; and Stilwell, Robert G. Digital magnetic tape recording system using symmetrical differential pulse width modulation with a triangular reference signal. 3,740,491, 6-19-73, Cl. 179-100.20r.
Cook, Gerald H.: *See—*
Baker, Philip G.; Cook, Gerald H.; and Downey, Rogers B., 3,776,425.
Cook, Gerald H.; and Downey, Rogers B., to Polaroid Corporation. Motion picture film pressure plate assembly. 3,737,218, 6-5-73, Cl. 352-78.00r.
Cook, Gerald H.; and Thomas, Paul W., to Polaroid Corporation. Photographic system employing film protuberances for controlling the application of film processing fluid. 3,742,836, 7-3-73, Cl. 95-89.00r.
Cook, Gerald H., to Polaroid Corporation. Photographic cassette containing film strip programmed for manual and automatic operation and film processor therefor. 3,768,894, 10-30-73, Cl. 352-130.000.
Cook, Gordon Henry; and Merigold, Peter Arnold, to Rank Organisation Limited, The. Optical objectives of variable equivalent focal length. 3,736,048, 5-29-73, Cl. 350-186.000.
Cook, Harold D.; and Davis, Owen F., to Teletype Corporation. Stepping motor drive circuit. 3,736,487, 5-29-73, Cl. 318-696.000.
Cook, Harold D., to Teletype Corporation. Circuit testing by comparison with a standard circuit. 3,740,645, 6-19-73, Cl. 324-73.00r.
Cook, Harold E.; and Lanier, Harold H., to Batson-Cook Company. Stop motion device with selective indicator. 3,725,911, 4-3-73, Cl. 340-415.000.
Cook, Harvey A., to TRW Inc. Low emission internal combustion engine and method of improving combustion. 3,709,201, 1-9-73, Cl. 123-64.000.
Cook, Henry D., to K&M Enterprises, Incorporated. Assembly for washing building windows. 3,750,686, 8-7-73, Cl. 134-95.000.
Cook, Henry F.; and Sutherland, James F., to Westinghouse Electric Corporation. Process control apparatus and method. 3,769,552, 10-30-73, Cl. 317-112.000.
Cook, Henry S.; and Schwartz, Robert L., to National Southwide Aluminum Company. Coupling device for molten metal carrier. 3,744,819, 7-10-73, Cl. 280-477.000.
Cook, Henry S.; and Schwartz, Robert E., to National-Southwire Aluminum Company. Crucible bail locking device. 3,749,388, 7-31-73, Cl. 266-39.000.
Cook, Henry S.; and Smith, Sam L. Anode transport frame locking device. 3,749,661, 7-31-73, Cl. 204-286.000.
Cook, Inc.: *See—*
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Cook, James E.: *See—*
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Cook, James M., III; and Dow, Eugene, to Oakland Plastics Corporation. Pallett, 3,768,423, 10-30-73, Cl. 108-51.000.
Cook, James W.: *See—*
Michel, Donald E.; Fairbairn, Le Roy W.; and Cook, James W., 3,715,706.
Cook, Jay E. Ball throwing and receiving system. 3,713,658, 1-30-73, Cl. 273-26.00d.
Cook, Jay E. Table tennis practice and game equipment. 3,761,085, 9-25-73, Cl. 273-30.000.
Cook, John C.; and Wilt, M. Duane, to Teledyne Industries, Inc. Periodic event detector system. 3,717,864, 2-20-73, Cl. 340-261.000.
Cook, John Daniel: *See—*
Godfrey, Leonard Robert; and Cook, John Daniel, 3,735,510.
Cook, John Hayward, to English Numbering Machines Limited. Electrical impulse counter with shockproofing mechanism. 3,761,015, 9-25-73, Cl. 235-91.00a.
Cook, John Hayward, to English Numbering Machines Limited. Counting device. 3,774,841, 11-27-73, Cl. 235-1.00c.
Cook, John Michael William, to U.S. Philips Corporation. Automatic frequency control system. 3,761,835, 9-25-73, Cl. 331-1.00a.
Cook, John R., to Engineered Foam Plastics, Inc. Shipping container. 3,750,871, 8-7-73, Cl. 206-46.0fc.
Cook, John S.: *See—*
Staats, William A.; Bosley, Denis V.; Cook, John S.; and Yamasaki, Toshio, 3,712,615.
Staats, William A.; Bosley, Denis V.; Cook, John S.; and Yamasaki, Toshio, 3,777,394.
Yamasaki, Toshio; Cook, John S.; and Staats, William A., 3,712,540.
Cook, John S., to Mattel, Inc. Grooved track for toy vehicles. 3,707,804, 1-2-73, Cl. 46-202.000.
Cook, John S.; and Bosley, Denis V., to Mattel, Inc. Toy vehicle track system. 3,729,134, 4-24-73, Cl. 238-10.00c.
Cook, John W.: *See—*
Peterson, Robert S.; and Cook, John W., 3,740,983.
Cook, Kenneth Edwin. Hydrofoil watercraft steering and stabilizing mechanism. 3,765,356, 10-16-73, Cl. 114-66.50h.
Cook, Kenneth George; and Wheldon, Robert Joseph, to M-O Valve Company Limited, The. Electric discharge devices. 3,758,803, 9-11-73, Cl. 313-174.000.
Cook, Kenneth J., to Beaumont, William, Hospital. Defibrillator and method and apparatus for calibrating, testing, monitoring and/or controlling a defibrillator or the like. 3,747,605, 7-24-73, Cl. 128-419.00d.
Cook, Lawrence E., to Dynamics Corporation of America. Wave soldering electrical connections. 3,765,591, 10-16-73, Cl. 228-36.000.
Cook, Lucine H., Sr. Organ tone control. 3,727,510, 4-17-73, Cl. 84-453.000.
Cook, Martin Christopher: *See—*
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Cook, Melvin A.; Udy, Lex L.; and Funk, Albert G., to Intermountain Research & Engineering Co., Inc. Dense explosive slurry compositions of high energy containing a gum mixture. 3,728,173, 4-17-73, Cl. 149-21.000.
Cook, Melvin Alonzo; and Bailey, Donald T., to Ireco Chemicals. Stiff aqueous explosive composition containing gilsonite. 3,713,914, 1-30-73, Cl. 149-2.000.
Cook, Miles H.: *See—*
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Cook, Neville P.: *See—*
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Hart, Milburn L.; and Meinert, Kerwin E., 3,720,377.
Cook, Ralph H. Potential-current transformer device. 3,729,650, 4-24-73, Cl. 317-14.00r.
Cook, Richard Erwin; Fitzhugh, Donald Lewis; and Luckey, George Wilson, to Du Pont de Nemours, E. I., and Company. Method of making a tube of plastic film. 3,769,397, 10-30-73, Cl. 264-209.000.
Cook, Robert G., Sr.: *See—*
Waizmann, George H.; and Cook, Robert G., Sr., 3,752,028.



Cook, Robert L. Means for supporting tools. 3,721,348, 3-20-73, Cl. 211-60.00t.



Cooke, Harry F., to Texas Instruments, Incorporated. Microwave

Cook, Robert L. Means for supporting tools. 3,721,348, 3-20-73, Cl. 211-60.00t.
Cook, Robert L. Display and dispensing bin. 3,744,866, 7-10-73, Cl. 312-42.000.
Cook, Robert M.; and Goldman, Charles B., to ACF Industries, Incorporated. Railway car center bearing. 3,709,151, 1-9-73, Cl. 105-199.00c.
Cook, Ronald R., to Lakin, Charles E., mesne. Apparatus and method for heating flowable material. 3,771,947, 11-13-73, Cl. 432-95.000.
Cook, Rufus Lee; and Folds, Donald L., to United States of America, Navy. Transducer. 3,718,898, 2-27-73, Cl. 340-10.000.
Cook, Russell John; Kuehl, Donald Roy; and Mueller, David Charles, to American Can Company. Package and display system therefor. 3,730,738, 5-1-73, Cl. 99-174.000.
Cook, Shirl E.: *See—*
Williams, Kenneth C.; and Cook, Shirl E., 3,775,454.
Cook, Shirl E.; and Sistrunk, Thomas O., to Ethyl Corporation. Thermal stabilization of tetramethyllead. 3,745,184, 7-10-73, Cl. 260-437.00s.
Cook, Shirl E.; and Sistrunk, Thomas O., to Ethyl Corporation. Thermal stabilization of tetramethyllead. 3,745,185, 7-10-73, Cl. 260-437.00s.
Cook, Shirl E.; and Henderson, Samuel R., to Ethyl Corporation. Treatment of waste brines. 3,769,208, 10-30-73, Cl. 210-57.000.
Cook, Sidney D.; and Watkins, Louie W., Jr., to Data Packaging Corporation. Flotation assembly. 3,729,756, 5-1-73, Cl. 9-8.00r.
Cook, Thomas J.: *See—*
Clark, Kenneth G.; Cook, Thomas J.; De Pass, Ernest T.; and Manfredonia, Abraham, 3,713,954.
Cook, Toby M.; and Tucker, Gerald L., to Mississippi Chemical Corporation. Ammonium nitrate neutralizer. 3,758,277, 9-11-73, Cl. 23-285.000.
Cook, Walter F. Display holder. 3,757,442, 9-11-73, Cl. 40-128.000.
Cook, Wendell A.: *See—*
Weintraub, Arthur; Cook, Wendell A.; Gatwood, Robert K.; and De Brosse, Kenneth L., 3,735,344.
Cook, William A.; and Lerwick, Everett R., to Cook, Inc. Endarterectomy apparatus. 3,730,185, 5-1-73, Cl. 128-303.000.
Cook, William H.: *See—*
Hostettler, Fritz; Cook, William H.; and Lombardi, Frank G., 3,775,354.
Cook, William H., to BASF Wyandotte Corporation. Low concentration stannous carboxylate catalysis of polyesterification. 3,716,523, 2-13-73, Cl. 260-75.00m.
Cook, William K.; and Turley, Barry J., to General Electric Company. Commutator air deflector. 3,731,121, 5-1-73, Cl. 310-227.000.
Cook, William R. Transistorized ignition system. 3,765,391, 10-16-73, Cl. 123-148.00e.
Cooke, Albert Edward, to Triplite Limited. Method and means for circular knitting. 3,722,231, 3-27-73, Cl. 66-132.000.
Cooke, Alf, Limited: *See—*
Haddock, George, 3,735,674.
Cooke, Ann V., to Grove Company, The. Pants. 3,750,193, 8-7-73, Cl. 2-237.000.
Cooke, Anson R.: *See—*
Weston, Warren E.; and Cooke, Anson R., 3,778,248.
Cooke, Anson R.; Jacobs, Richard L.; and Compton, Ell Dee, to Sherwin-Williams, The, mesne. Certain 3-substituted-pyrido (3,2-d) pyrimidine 2,4-(1H, 3H) diones. 3,752,816, 8-14-73, Cl. 260-256.40f.
Cooke, Brian Frederick, to Nuclear Power Group Limited, The. Devices for sensing the relative location of two bodies. 3,719,072, 3-6-73, Cl. 73-37.500.
Cooke, Claude E., Jr.: *See—*
Pierce, Aaron E.; Burns, William A., Jr.; Cooke, Claude E., Jr.; Hillestad, Jerry G.; and Spillette, Arthur G., 3,745,822.
Cooke, David A., to United States of America, Navy. Torpedo homing system. 3,722,446, 3-27-73, Cl. 114-23.000.
Cooke, David W.: *See—*
Buckman, William Gordon; Sutherland, David C.; and Cooke, David W., 3,728,543.
Cooke Engineering Company, The: *See—*
Gross, Ronald E., 3,776,699.
Leverich, Charles T., 3,714,385.
Cooke, Geoffrey Cyril; and Gamble, John Anthony, to W & T Avery Limited. Load indicating apparatus with hysteresis correction. 3,709,310, 1-9-73, Cl. 177-168.000.
Cooke, George A.; and Houlihan, William J., to Sandoz-Wander, Inc. 1-Substituted-5,6-dihydro-7H-pyrido(2,3,1-ij) quinazolin-3 (3H)-ones and their preparation. 3,709,887, 1-9-73, Cl. 260-251.00a.
Cooke, George A.; and Houlihan, William J., to Sandoz-Wander, Inc. 1,4-Disubstituted-methylenedioxy-2-(1H)-quinazolinones and quinazolinthiones. 3,748,331, 7-24-73, Cl. 260-251.0qb.
Cooke, George A.; and Houlihan, William J., to Sandoz-Wander, Inc. Intermediates for preparing quinazolinones. 3,748,342, 7-24-73, Cl. 260-332.30p.
Cooke, Gerhart M., to Aeroquip Corporation. Flow measurement and control. 3,724,503, 4-3-73, Cl. 138-45.000.
Cooke, Harry F., to Texas Instruments, Incorporated. Microwave semiconductor device. 3,753,056, 8-14-73, Cl. 317-234.00r.
Cooke, Herbert E.: *See—*
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Cooke, John R. Surgical wound clip applier with disposable clip magazine. 3,777,355, 12-11-73, Cl. 29-243.560.
Cooke, Maurice Dudley: *See—*
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Cooke, Richard C., Jr.: *See—*
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Cooke, William Ernest; Cote, Jacques Francois; Innes, Robert Arthur; Spooner, Roy Cowieson; and Kellermann, Walter Maria Eduard, to Alcan Research and Development Limited. Continuous electrolytic treatment for cleaning and conditioning aluminum surfaces. 3718,547, 2-27-73, Cl. 204-28.000.
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Cooksey, John A.; and Fazio, James Anthony, to Singer Company, The. Degaussing circuit. 3,733,524, 5-15-73, Cl. 317-157.500.
Cooksley, Ralph D., to Tagh, Inc. Gas fired fluid heating apparatus. 3,759,230, 9-18-73, Cl. 122-156.000.
Cookson Sheet Metal Developments Limited: *See—*
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Cookson, William, to Cookson Sheet Metal Developments Limited. Fixing devices for roofing and siding sheets. 3,724,154, 4-3-73, Cl. 52-480.000.
Cool, Arthur R. Water current directing apparatus. 3,724,221, 4-3-73, Cl. 61-4.000.
Cool Industry (Patents) Limited: *See—*
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Cooley, Austin C., to Eastman Kodak Company. Electrolytic method for recovering metal from solution. 3,728,235, 4-17-73, Cl. 204-109.000.
Cooley, Austin C. High current density electrolytic cell. 3,728,244, 4-17-73, Cl. 204-269.000.
Cooley, Denton A.; Liotta, Domingo S.; and Kahn, Paul, to Cutler Laboratories, Inc. Bicuspid fascia lata valve. 3,739,402, 6-19-73, Cl. 3-1.000.
Cooley, Denton A., to Sherwood Medical Industries Inc. Aspirator needle. 3,776,239, 12-4-73, Cl. 128-347.000.
Cooley, Jerry A. Method and means for joining sheet members. 3,763,513, 10-9-73, Cl. 11-1.00a.
Cooley, Robert H. Pallet-load straightener device. 3,743,112, 7-3-73, Cl. 214-6.00s.
Coombes, James Eric. Tool. 3,757,376, 9-11-73, Cl. 15-202.000.
Coombs, Robert V.; and Galantay, Eugene E., to Sandoz-Wander, Inc. 17α-Hydroxy and acyloxy substituted-9α-methyl-19-norprogesterones. 3,711,521, 1-16-73, Cl. 260-397.300.
Coombs, Robert V.; and Galantay, Eugene E., to Sandoz-Wander, Inc. 9 Alpha-methyl steroids. 3,717,663, 2-20-73, Cl. 260-397.500.
Coombs, Robert V., to Sandoz-Wander, Inc. 11β-methyl-17α-propadienyl steroids. 3,723,483, 3-27-73, Cl. 260-397.450.
Coombs, Robert V., to Sandoz-Wander, Inc. 15-Methyl-substituted steroids. 3,766,224, 10-16-73, Cl. 260-397.400.
Coombs, Robert V., to Sandoz-Wander, Inc. 9 Alpha, 11-dimethyl-substituted steroids. 3,778,434, 12-11-73, Cl. 260-239.55c.
Coombs, William Charles: *See—*
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Coombs, William Charles. Powered winches. 3,752,442, 8-14-73, Cl. 254-185.00r.
Coon, Arthur Delbert; Sheehan, Gerard Martin; and Dupree, Paul Montgomery, to American Cyanamid Company. Purification of titanium sulfate solutions. 3,761,298, 9-25-73, Cl. 106-300.000.
Coon, Clifford L.: *See—*
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Coon, Clifford L.; McDonald, Gerald J.; and Hill, Marion E., to Stanford Research Institute. Preparation of dinitrotoluene. 3,708,546, 1-2-73, Cl. 260-645.000.
Coon, Clifford L.; Hill, Marion E.; and Ross, Donald L., to United States of America, Navy. Difluoroamino compounds. 3,714,254, 1-30-73, Cl. 260-564.00r.
Coon, Clifford L.; Hill, Marion E.; and Ross, Donald L., to United States of America, Navy, mesne. 4,4-Bis (difluoramino)-1,7-difluoro-1,1,7,7-tetranitroheptane. 3,714,260, 1-30-73, Cl. 260-583.0nh.
Coon, Clifford L.; and Hill, Marion E., to Stanford Research Institute. Nitration with nitric acid and trifluoromethanesulfonic acid. 3,714,272, 1-30-73, Cl. 260-645.000.
Coon, Clifford L.; Hill, Marion E.; and Ross, Donald L., to United States of America, Navy, mesne. Difluoroamino compounds. 3,732,288, 5-8-73, Cl. 260-486.00h.
Coon, Clifford L.; Hill, Marion E.; and Ross, Donald L., to United States of America, Navy, mesne. 2,2-Bis(difluoramino)-5-fluoro-5,5-dinitrol-1-pentanol. 3,759,998, 9-18-73, Cl. 260-584.00r.
Coon, Donald F., Jr., to Peabody Barnes Inc. Centrifugal self-priming pump. 3,776,659, 12-4-73, Cl. 415-200.000.
Coon, James A.: *See—*



Coon, James A.; and Throbald, Elwin (said Theobald assor. to said), 3,710,467.
Coon, James A.; and Throbald, Elwin, said Theobald assor. to said Coon, James A. Adjustable file holding device. 3,710,467, 1-16-73, Cl. 29-80.000.
Coon, James G. Harvester for headed vegetables. 3,731,477, 5-8-73, Cl. 56-327.00r.
Coon, Lewis B., Jr.: *See—*
Behr, Michael I.; Coon, Lewis B., Jr.; and Bickel, Charles E., 3,719,934.
Coon, Lucille: *See—*
Leebrick, John R., 3,711,524.
Coon, Warren P., to Varian Associates. Magnetic shielding and X-ray image intensifier tube using same. 3,764,841, 10-9-73, Cl. 313-153.000.
Coone, Malcolm G. Method and apparatus for an aggregate pump. 3,749,521, 7-31-73, Cl. 417-53.000.
Cooney, Peter D.: *See—*
Zaremba, John P., Jr.; Cooney, Peter D.; Hadden, Craig W.; and Shupp, David E., 3,727,638.
Coonradt, Harry L.; and Snyder, Paul W., Jr., to Mobil Oil Corporation. Hydrocracking process. 3,720,601, 3-13-73, Cl. 208-111.000.
Coons, Everett A.; Poggiali, Lewis D.; and Jacalone, Richard P., to Olinkraft, Inc. Bathtub container. 3,757,935, 9-11-73, Cl. 206-46.00h.
Coons, Glen T. Convertible trailer, porch and camper. 3,708,198, 1-2-73, Cl. 296-23.00r.
Coons, William F.; Negus, George T.; and Tegra, Patrick A., to Eastman Kodak Company. Slide transparency spreading device. 3,753,515, 8-21-73, Cl. 221-191.000.
Coons, William R., Jr.; Colvert, James H.; and Nelson, Gerald V., to Texaco Inc. Effluent cooling in a hydrocracking and hydrodesulfurizing process. 3,716,476, 2-13-73, Cl. 208-97.000.
Coontz, John G. Bulldozer attachment for tractors. 3,749,180, 7-31-73, Cl. 172-801.000.
Coontz, John G. Bulldozer means with a pivotable blade. 3,773,116, 11-20-73, Cl. 172-804.000.
Coop, Vernon W., to Sugden, Bazil H. Method and apparatus for joining sheet metal, and sheet metal joints. 3,728,881, 4-24-73, Cl. 72-52.000.
Cooper, Abraham: *See—*
Bernstein, Irwin B.; and Cooper, Abraham, 3,776,824.
Cooper, Abraham J. Dental impression accessory and method. 3,742,605, 7-3-73, Cl. 32-17.000.
Cooper, Albert S., Jr.: *See—*
Calamari, Timothy A., Jr.; Schreiber, Sidney P.; Cooper, Albert S., Jr.; and Reeves, Wilson A., 3,724,243.
Calamari, Timothy A., Jr.; Reeves, Wilson A.; Schrieber, Sidney P.; and Cooper, Albert S., Jr., 3,767,359.
Cooper, Brian Frederick, to English Electric Valve Company Limited. Magnetrons. 3,727,097, 4-10-73, Cl. 315-39.550.
Cooper, Brian Sydney; Cronk, John Edward; and Hobbs, Derek John, to Johnson, Matthey & Co., Limited. Method and apparatus for making spectrometric measurements of a constituent of a test sample. 3,729,259, 4-24-73, Cl. 356-82.000.
Cooper, Bryan E.: *See—*
Owen, William J.; and Cooper, Bryan E., 3,723,402.
Cooper, Bryan Ewart: *See—*
Chandra, Grish; Owen, William John; Lloyd, Norman Cecil; and Cooper, Bryan Ewart, 3,714,118.
Chandra, Grish; Owen, William John; Lloyd, Norman Cecil; and Cooper, Bryan Ewart, 3,758,541.
Cooper, Charles Frank: *See—*
Dorril, David Trevor; and Cooper, Charles Frank, 3,719,553.
Cooper, Charles R.: *See—*
Aldrich, Billy R.; Cooper, Charles R.; and Rasquin, John R., 3,720,208.
Cooper, Charles W.: *See—*
Epstein, Michael M.; and Cooper, Charles W., 3,737,355.
Cooper, Cleveland N.: *See—*
Pandjiris, Anthony K.; and Cooper, Cleveland N., 3,750,844.
Cooper, David O. Electronic photoflash unit. 3,751,714, 8-7-73, Cl. 315-241.00p.
Cooper, Dexter P., Jr.: *See—*
Lancor, Joseph H., Jr.; and Cooper, Dexter P., Jr., 3,724,343.
Cooper, Dexter P., Jr., to Bell & Howell Company. Image display from continuously moving image carrier. 3,718,389, 2-27-73, Cl. 352-109.000.
Cooper, Douglas J.: *See—*
Thompson, C. Ames; and Cooper, Douglas J., 3,713,539.
Cooper, Edward: *See—*
Wolfer, Allan J.; and Cooper, Edward, 3,729,708.
Wolfer, Allan J.; and Cooper, Edward, 3,737,853.
Cooper, Edward N. K.: *See—*
Frost, William B.; and Cooper, Edward N. K., 3,751,836.
Cooper, Erwin E.; and Kennedy, Howard V., to Texas Instruments, Incorporated. Optical scanner and real time image conversion system. 3,715,497, 2-6-73, Cl. 178-6.800.
Cooper, Erwin E.; and Kennedy, Howard V., to Texas Instruments, Incorporated. Variable field of view scanning system. 3,781,559, 12-25-73, Cl. 250-334.000.
Cooper, Eugene A.: *See—*
Howes, Peter A.; and Cooper, Eugene A., 3,734,426.
Cooper, Frederick David, to S.D.C. Products (Electronics) Limited. Plug and socket connectors and sockets therefor. 3,750,085, 7-31-73, Cl. 339-75.00m.
Cooper, Fredric M., to Northrop Carolina, Inc., mesne. Solid propellant controlled rocket motors. 3,712,058, 1-23-73, Cl. 60-207.000.
Cooper, Gary M.; Gilbert, Bruce; and Estes, James M., to General Dynamics Corporation. Tube joint coupling device. 3,744,825, 7-10-73, Cl. 285-407.000.
Cooper, George P., to North American Rockwell Corporation. Radar modulator. 3,737,679, 6-5-73, Cl. 307-252.00j.
Cooper, George P.; and Moore, Thomas H., to North American Rockwell Corporation. Magnetic deflection system for depressed-center sector scan display. 3,778,669, 12-11-73, Cl. 315-23.000.
Cooper, Glenn D.; and Bennett, James G., to General Electric Company. Process for the preparation of poly-phenylent ethers with activated copper-amine catalysts. 3,733,299, 5-15-73, Cl. 260-47.0et.
Cooper, Glenn D., to General Electric Company. Copolymers of polyphenylene ethers. 3,733,307, 5-15-73, Cl. 260-61.000.
Cooper, Glenn D., to General Electric Company. Process for the preparation of polyphenylene ethers and compositions containing the same. 3,749,693, 7-31-73, Cl. 260-47.0et.
Cooper, Glenn D., to General Electric Company. Process for the preparation of poly(dihalophenylene) ethers. 3,767,619, 10-23-73, Cl. 260-47.0et.
Cooper, Guy F., to United States of America, Navy. Controlled acceleration ejector piston. 3,747,474, 7-24-73, Cl. 91-422.000.
Cooper, Hal B. H. Electrolytic process for the production of alkali metal borohydrides. 3,734,842, 5-22-73, Cl. 204-86.000.
Cooper, Hamil W.: *See—*
Talkington, Carl M.; and Cooper, Hamil W., 3,739,364.
Cooper, Herbert W. Pyrolysis process. 3,711,568, 1-16-73, Cl. 260-683.00r.
Cooper, Herbert Warren, to Westinghouse Electric Corporation. Electronically modulated tacan antenna. 3,747,102, 7-17-73, Cl. 343-106.00r.
Cooper, Herbert Wayne. Tube fins of outwardly-organized materials. 3,731,738, 5-8-73, Cl. 165-180.000.
Cooper Industries, Inc.: *See—*
Simmons, Roger Cleary; Boyd, Horace Edward; and Kuchling, Peter Mathis, 3,758,938.
Weller, Carl E.; and Brassaw, Alden J., 3,744,921.
Cooper, Irving B., Jr., to Notifier Company, mesne. Method for manufacturing a control article. 3,727,305, 4-17-73, Cl. 29-625.000.
Cooper, James Joseph, Jr., to International Telephone and Telegraph Corporation. Electrical connector. 3,710,307, 1-9-73, Cl. 339-116.00c.
Cooper, James Joseph, Jr., to International Telephone and Telegraph Corporation. Insulating cover for electrical connectors. 3,737,559, 6-5-73, Cl. 174-138.00f.
Cooper, James Joseph, Jr., to International Telephone and Telegraph Corporation. Current limiter system. 3,750,075, 7-31-73, Cl. 337-158.000.
Cooper, James R. Reversible safety ground plug. 3,733,576, 5-15-73, Cl. 339-14.00p.
Cooper, Jerry W.: *See—*
Haley, John S.; and Cooper, Jerry W., 3,722,961.
Cooper, Jerry W.; Williams, Leland E.; Haley, John S.; and Ensley, Rufus N., to Dayco Corporation. Endless track. 3,721,477, 3-20-73, Cl. 305-38.000.
Cooper, Jerry W., to Dayco Corporation. Drive sprocket. 3,722,962, 3-27-73, Cl. 305-35.0eb.
Cooper, John; Stubbert, George; and Shepperd, William. Retractable and ventilated battery holder with special switching system. 3,748,185, 7-24-73, Cl. 136-173.000.
Cooper, John, to Matramatic Company Limited. Method and apparatus for buttoning upholstery. 3,778,853, 12-18-73, Cl. 5-356.000.
Cooper, John A.: *See—*
Wogman, Ned A.; Perkins, Richard W.; Rieck, Henry G.; and Cooper, John A., 3,723,727.
Cooper, Joseph: *See—*
Kruger, James B.; and Cooper, Joseph, 3,751,776.
Cooper, Joseph; and Corbett, William J., to Chemed Corporation, mesne. Paint removing method. 3,743,542, 7-3-73, Cl. 134-31.000.
Cooper, Joseph, to Scovill Manufacturing Company. Dispenser for paper clips and the like. 3,750,868, 8-7-73, Cl. 206-1.00r.
Cooper, Joseph, to Scovill Manufacturing Company. Adjustable weaving loom. 3,769,667, 11-6-73, Cl. 28-15.000.
Cooper, Julius: *See—*
Benkoe, Erwin; and Cooper, Julius, 3,769,743.
Cooper, Julius; and Moe, Walter, to Ideal Toy Corporation. Box with preformed nail receiving apertures. 3,713,656, 1-30-73, Cl. 273-135.00r.



Cooper, Julius, to Ideal Toy Corporation. Competitive vehicle. Coors Container Company, [illegible]

Cooper, Julius, to Ideal Toy Corporation. Competitive vehicle demolition game. 3,734,500, 5-22-73, Cl. 273-85.00r.
Cooper, Julius, to Ideal Toy Corporation. Portable shuffleboard game. 3,762,711, 10-2-73, Cl. 273-126.00r.
Cooper, Kenneth C.: *See—*
Neudecker, Joseph W.; and Cooper, Kenneth C., 3,724,215.
Cooper Laboratories (Cooper), mesne: *See—*
Greenfield, Walter; and Berg, Raymond, 3,720,341.
Cooper Laboratories, Inc.: *See—*
Hyman, Richard L., 3,754,295.
Cooper, Laurence C.; and Maxfield, E. Blair. Cutting table for rock. 3,738,349, 6-12-73, Cl. 125-13.00r.
Cooper, Lawrence E.: *See—*
Grenier, Aime J.; Suter, Richard E.; and Cooper, Lawrence E., 3,740,650.
Cooper, Leah H. Lunch boxes and similar devices adapted to accommodate graphic data. 3,777,418, 12-11-73, Cl. 35-62.000.
Cooper Manufacturing Company, Inc.: *See—*
Peterson, Clifford D., 3,736,729.
Cooper, McDougall & Robertson Limited: *See—*
Brown, Norman C.; and Poll, Gerald S., 3,708,487.
Franklee, Ronald Harvey David, 3,747,805.
Lee, Ronald Harvey David Frank, 3,759,425.
Cooper, Milton. Point-of-purchase display. 3,765,112, 10-16-73, Cl. 40-126.00a.
Cooper, Norman F.; Dozois, James H.; and Wanlass, Bert R., to General Motors Corporation. Closure operator. 3,716,945, 2-20-73, Cl. 49-139.000.
Cooper, Paul, to TRW Inc. High flow pump impeller for low net positive suction head and method of designing same. 3,737,249, 6-5-73, Cl. 416-179.000.
Cooper, Peter, Corporation: *See—*
Blake, Francis R., 3,758,928.
Cooper, Peter J., to Plessey Company Limited, The. Sealed lamp units. 3,757,104, 9-4-73, Cl. 240-7.500.
Cooper Range Company: *See—*
Finlay, Walter L.; Fisher, Henry J.; and Hay, Donald A., 3,778,318.
Cooper, Ray E.: *See—*
Lockerd, Robert M.; Smith, Mark W.; Cooper, Ray E.; and Goode, George E., 3,750,175.
Cooper, Richard Roy: *See—*
Whiteley, Kenneth Stephenson; and Cooper, Richard Roy, 3,732,198.
Cooper, Richard W.: *See—*
Price, William J.; Cooper, Richard W.; and Gates, Robert A., 3,726,360.
Cooper, Robert B., Jr., 1/2 to Sossen, Edwin J. Etched inductance bandpass filter. 3,718,874, 2-27-73, Cl. 333-73.00s.
Cooper, Robert P., to American Hospital Supply Corporation. Incentive spirometer. 3,754,546, 8-28-73, Cl. 128-2.080.
Cooper, Robert T.; and Soule, Harrison O., to Dresser Industries, Inc. Drill rod handling apparatus for raise drills. 3,762,578, 10-2-73, Cl. 214-1.00p.
Cooper Roller Bearings Company Limited: *See—*
Cawthorn, Trevor Lewis, 3,776,559.
Cooper, Ronald J.: *See—*
Bell, Noel J.; Cooper, Ronald J.; Nagle, Frederick P.; Newlin, Frank A., III; and Stadler, William M., 3,754,217.
Cooper, Roy David: *See—*
Gale, Frederick Henry; and Cooper, Roy David, 3,780,332.
Cooper, Russell B.: *See—*
Gorgei, Donald J.; Weisz, Daniel I.; and Cooper, Russell B., 3,767,031.
Cooper, Stuart B.; and Grandmaison, John P., to Honeywell Information Systems, Inc. Communication line multiplexing apparatus having a main memory and an input-output memory. 3,766,531, 10-16-73, Cl. 340-172.500.
Cooper, Thomas A.: *See—*
Morris, Herbert C.; Cooper, Thomas A.; Cummins, Billy H.; and Sweeney, Donald E., Jr., 3,775,298.
Youngblood, Douglas J.; Cooper, Thomas A.; and Colvert, James H., 3,767,564.
Cooper, Thomas R.: *See—*
Edwards, Richard R.; Hopkins, Walker L.; Chvatal, Leland A.; and Cooper, Thomas R., 3,733,474.
Cooper, William: *See—*
Whiteside, Roger B.; and Cooper, William, 3,729,040.
Cooper, William W., IV, to Abcor, Inc. Cross flow capillary dialyzer. 3,728,256, 4-17-73, Cl. 210-22.000.
Cooperative Industriale Romagnola: *See—*
Bassi, Ezio; and Riitano, Francesco (said Bassi assor. to), 3,747,216.
Coopman, Frans, to N.V. Bekaert S.A. Apparatus and method for winding wire on coils. 3,735,938, 5-29-73, Cl. 242-83.000.
Coordes, John E., to United States of America, Army. Land vehicle. 3,780,819, 12-25-73, Cl. 180-14.00a.
Coors, Adolph, Company: *See—*
Werth, Elmer D.; Sipe, Nelson E.; and Carlson, Clarence J., 3,759,373.
Werth, Elmer D., 3,759,378.
Coors Container Company: *See—*
Maytag, John Hardy, 3,759,142.
Coors Container Company, mesne: *See—*
Werth, Elmer D.; Sipe, Nelson E.; and Pearce, Ronald A., 3,741,432.
Coors Porcelain Company: *See—*
Bachman, James L.; and Martin, Robert M., 3,736,167.
Beninga, Duane H.; and Gibbons, Hugh P., 3,767,518.
Perigo, Leon A.; and Jordan, John A., 3,747,291.
Sellers, David J.; and Roy, Donald W., 3,768,990.
Cootes, Harold Edwin, to AMP Incorporated. Tool for crimping joint fasteners or the like. 3,732,720, 5-15-73, Cl. 72-410.000.
Cootes, Harold Edwin, to AMP Incorporated. Tool for securing contacts to flat multi-conductor of cable. 3,774,284, 11-27-73, Cl. 29-203.00c.
Coover, Harry W., Jr.; and McIntire, John M., to Eastman Kodak Company. Cyanoacrylate adhesive compositions. 3,728,375, 4-17-73, Cl. 260-465.400.
Coover, Harry W., Jr.; and Fassett, David W., to Eastman Kodak Company. Surgical method. 3,759,264, 9-18-73, Cl. 128-334.00r.
Cope, Edward G., to Texas Instruments, Incorporated. Automated crystal pulling system. 3,761,692, 9-25-73, Cl. 235-151.100.
Cope, F. Troy; and Burrell, James V., to Electric Furnace Company, The. Method and apparatus for heating an elongated metal workpiece. 3,712,596, 1-23-73, Cl. 263-6.00r.
Cope, Geoffrey Wilton, to Dresser Industries, Inc. Coupler positioning device. 3,710,951, 1-16-73, Cl. 213-15.000.
Cope, Geoffrey Wilton, to Dresser Industries, Inc. Elastomeric snubbing side bearing. 3,712,691, 1-23-73, Cl. 308-138.000.
Cope, Geoffrey Wilton; and Smith, Loren William, to Dresser Industries, Inc. Double ended spring shock absorber. 3,731,914, 5-8-73, Cl. 267-65.00r.
Cope, Geoffrey Wilton, to Dresser Industries, Inc. Coupling valve actuator for automatic pneumatic coupling system. 3,743,110, 7-3-73, Cl. 213-76.000.
Cope, Geoffrey Wilton, to Dresser Industries, Inc. Cushion underframe. 3,749,255, 7-31-73, Cl. 213-8.000.
Cope, Geoffrey Wilton, to Dresser Industries, Inc. Housed draft gear. 3,759,400, 9-18-73, Cl. 213-22.000.
Cope, James R.; and Smith, Paul F., to International Business Machines Corporation. Magnetic tape unit having a pneumatic reel hub. 3,708,136, 1-2-73, Cl. 242-68.300.
Cope, John M., to Sturdevant Manufacturing Corporation. Pivoting deflector combination. 3,726,069, 4-10-73, Cl. 56-202.000.
Cope, Oswald James; and Chaikin, Saul W., to Xidex Corporation. Fluorocarbon surfactants for vesicular films. 3,779,768, 12-18-73, Cl. 96-75.000.
Cope, Oswald James; and Chaikin, Saul W., to Xidex Corporation. Silicone surfactants for vesicular films. 3,779,774, 12-18-73, Cl. 96-87.00r.
Cope, Paul E.; and Miles, Joe G., to Procter & Gamble Company, The. In-package sterilization. 3,716,961, 2-20-73, Cl. 53-21.0fc.
Cope, Richard P., Jr., to Stauffer Chemical Company. Brightener composition for acid copper electroplating baths. 3,715,289, 2-6-73, Cl. 204-52.00r.
Cope, Richard P., Jr., to Stauffer Chemical Company. Novel process for electrodepositing zinc. 3,755,097, 8-28-73, Cl. 204-55.00y.
Cope, Stanley Temple: *See—*
Rhodes, Paul Cephas; and Cope, Stanley Temple, 3,745,771.
Cope, Troy, to Electric Furnace Company, The. Heat exchange method and apparatus. 3,732,916, 5-15-73, Cl. 165-1.000.
Copeland, Ben H. Competition bridge cards. 3,731,936, 5-8-73, Cl. 273-149.00p.
Copeland, Doris E. Head stand exerciser. 3,752,153, 8-14-73, Cl. 128-24.00r.
Copeland, Ernest. Metal foil reflector holder for cooking grills. 3,712,285, 1-23-73, Cl. 126-9.00r.
Copeland, Henry A. Polishing composition. 3,767,431, 10-23-73, Cl. 106-8.000.
Copeland, John Alexander, III: *See—*
Bobeck, Andrew Henry; Copeland, John Alexander, III; and Wolfe, Raymond, 3,778,788.
Copeland, John Alexander, III, to Bell Telephone Laboratories, Incorporated. Write circuit using enhanced propagation pulses for lateral displacement coding of patterns of single-wall magnetic domains. 3,711,840, 1-16-73, Cl. 340-174.0tf.
Copeland, John Alexander, III, to Bell Telephone Laboratories, Incorporated. Method and apparatus for selectively accessing a serial string of enhanced propagation pulse write circuits. 3,745,542, 7-10-73, Cl. 340-174.0tf.
Copeland, John Alexander, III, to Bell Telephone Laboratories, Incorporated. Conductor-pattern apparatus for controllably inverting the sequence of a serial pattern of single-wall magnetic domains. 3,774,182, 11-20-73, Cl. 340-174.0va.
Copeland, John R.; and Reid, James F., to Great Atlantic & Pacific Tea Company, Inc. Data transmission system. 3,739,346, 6-12-73, Cl. 340-172.500.
Copeland, Kenneth D.: *See—*
Smith, Leland E.; Johnson, Jack B.; Burks, Kenneth N.; and Copeland, Kenneth D., 3,711,837.



Copeland, Marihelen M. Combined bed frame with storage compartment. 3,745,596, 7-17-73, Cl. 5-308.000.
Copeland, Ralph L., to Lee, Raymond, Organization, Inc., The. Insect removal method. 3,746,577, 7-17-73, Cl. 134-4.000.
Copeland, Robert L.; Gamble, Bobby G.; Chase, Vance A.; and Beeler, David R., said Copeland assor. to Brunswick Corporation. Dielectric wall. 3,713,961, 1-30-73, Cl. 161-93.000.
Copeland, Robert L.; Moorefield, Samuel A.; Beeler, David R.; and Chase, Vance A., said Copeland and said Moorefield assors. to said Brunswick Corporation. Method of making a polyimide and laminated product made therefrom. 3,764,449, 10-9-73, Cl. 161-88.00.
Copeland, William M.: *See—*
Ponczek, George M.; Cousins, Otto J.; and Copeland, William M., 3,765,085.
Copeland, William M.; and Chambers, Worthy L., to Sunbeam Corporation. Motor driven appliance. 3,738,616, 6-12-73, Cl. 259-108.000.
Copenhagen, Donald M.: *See—*
Smith, Donald Arthur; and Copenhagen, Donald M., 3,743,627.
Copes, Joseph P.: *See—*
Randall, David I.; and Copes, Joseph P., 3,781,359.
Copes-Vulcan, Incorporated: *See—*
Reed, James N., 3,750,230.
Copier, Harald; and Tonsbeek, Christiaan Herman Theodoor, to Lever Brothers Company. Flavoring with certain 2-acyl-2-thiazolines. 3,778,518, 12-11-73, Cl. 426-175.000.
Copithorne, Alton R., to Boston Machine Works Company. Folding apparatus. 3,753,831, 8-21-73, Cl. 156-479.000.
Copland, George V., to Halliburton Company. Method and apparatus for electronically monitoring a field of view. 3,743,768, 7-3-73, Cl. 178-6.800.
Copland, George V.; and Gass, Edward W., to Halliburton Company. Oil field production automation method and apparatus. 3,760,362, 9-18-73, Cl. 340-172.500.
Copley Press, Inc.: *See—*
Shimmin, Lawrence E., 3,716,178.
Wheaton, Robert E., 3,742,903.
Copley, Russell Dean: *See—*
Hubbard, Arthur Lowell; Copley, Russell Dean; and Gannon, Thomas Heral, 3,765,526.
Copley, Russell Dean; and Schlueter, Francis Edward, to Deere & Company. Crop harvester. 3,716,976, 2-20-73, Cl. 56-106.000.
Copley, Stephen M.; Giamei, Anthony F.; Hornbecker, Merton F.; and Kear, Bernard H., to United Aircraft Corporation. Process of making shell molds. 3,739,835, 6-19-73, Cl. 164-35.000.
Copley, Stephen M.; and Giamei, Anthony F., to United Aircraft Corporation. Mold apparatus for casting with downward unidirectional solidification. 3,752,221, 8-14-73, Cl. 164-338.000.
Coplin, Jess Lee, to Lennox Industries Inc. Plenum construction. 3,757,665, 9-11-73, Cl. 98-40.00r.
Copolymer Rubber & Chemical Corporation: *See—*
Bond, William C., Jr.; and Wahlborg, Harold J., 3,764,589.
Gerlicher, Robert A., 3,767,605.
Prescott, Elsworth; and Copus, Edward F., 3,775,933.
Stone, John M., 3,730,928.
Copp, Donald G., to Indian Head, Inc., mesne. Electrical junction and switch boxes. 3,773,968, 11-20-73, Cl. 174-53.000.
Coppa, Paul L.; Marchesani, John J.; and Orsatti, Louis G., to Mohawk Data Sciences Corporation. Reel control for a tape transport system. 3,773,275, 11-20-73, Cl. 243-184.000.
Coppens, Matheus J. M.; and Steen, Heinrich J., to Koninklijke Emballage Industrie Van Leer N.V. Seam connection and method for manufacturing the seam. 3,736,893, 6-5-73, Cl. 113-120.00y.
Coppens, Matheus Johannes Martinus, to Koninklijke Emballage Industrie Van Leer N.V. Device for filling a container of the disposal type with a gas. 3,766,705, 10-23-73, Cl. 53-88.000.
Coppens, Mattheus Johannes Martinus, to Inland Steel Company. Leak tightness testing method and apparatus. 3,729,983, 5-1-73, Cl. 73-40.700.
Copper Range Company: *See—*
Boyd, James; Garfield, Lawrence A.; Hanninen, Clifford; and Maki, Eugen, 3,759,575.
Cech, Robert E., 3,775,097.
McKie, Robert T., 3,775,094.
Sheinhartz, Irving; Finlay, Walter L.; and Hay, Donald A., 3,741,788.
Copper Refineries Pty., Limited: *See—*
Perry, Ian James; Watson, Bruce Dunstan; Lagerche, John Geoffrey; Denman, George Alan; Irvine, Norman William; Goding, Thomas Joseph; and Moffett, Graham Douglas, 3,763,915.
Copperhead Steel Company: *See—*
Zeiters, Donald L., 3,763,695.
Coppertech Inc.: *See—*
Jacob, George, 3,733,213.
Coppi, Bruno; and Montgomery, Donald B., to United States of America, Atomic Energy Commission. Device for plasma confinement and heating by high currents and non-classical plasma transport properties. 3,778,343, 12-11-73, Cl. 176-3.000.
Copping, Bruce G., to Automatic Sprinkler Corporation of America. Beverage flow distributor means for bottle filling devices. 3,757,835, 9-11-73, Cl. 141-286.000.
Copping, Christopher; and Uri, Norbert, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in her Britannic Majesty's Government of The, mesne. Reduction of oxidative degradation and the catalysis of peroxide decompositon. 3,723,384, 3-27-73, Cl. 260-45.75n.
Coppock, Charles L.: *See—*
Kelley, Donald W.; White, James F., Jr.; Winslow, Ronald B.; and Coppock, Charles L., 3,776,877.
Coppock, Richard A.: *See—*
Ziemelis, Ojars J.; Coppock, Richard A.; Sonnenberg, Hartmut; and Mengers, Paul E., 3,774,124.
Copstead, Terrance R., to Electronic Data Controls Corporation. Sealing and charging containers with gas. 3,754,369, 8-28-73, Cl. 53-22.00r.
Copus, Edward F.: *See—*
Prescott, Elsworth; and Copus, Edward F., 3,775,933.
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Rothacker, Francis N.; and Bujese, David P., 3,778,690.
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Aasen, Torulf F.; Kiernan, Philip; and Mogil, Bernard, 3,731,611.
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Hallier, Bernard Lucien D.; and Coquet, Jean Louis, 3,731,036.
Cor-Box, Inc.: *See—*
Naylor, Richard H., 3,726,470.
Cor-Sen Plastic, Ltd.: *See—*
Corty, Richard L., Sr.; and Iversen, Edward P., 3,768,698.
Coradi, G., A.G.: *See—*
Blattner, Karl; and Picard, Roland, 3,721,164.
Coran, Aubert Y.: *See—*
Boustany, Kamel; and Coran, Aubert Y., 3,725,361.
Coran, Aubert Y.; and Swaney, Larry R., to Monsanto Company. Producing ordered composites by application of magnetic forces. 3,767,505, 10-23-73, Cl. 156-276.000.
Coran, Aubert Yaucher: *See—*
Boustany, Kamel; and Coran, Aubert Yaucher, 3,709,845.
Coran, Aubert Yaucher; and Kerwood, Joseph Edward, to Monsanto Company. Thioamides. 3,752,824, 8-14-73, Cl. 260-326.00s.
Coran, Aubert Yaucher; and Kerwood, Joseph Edward, to Monsanto Company. Poly(thioamides). 3,775,428, 11-27-73, Cl. 260-326.00s.
Corazzini, Pasquale: *See—*
Winkler, Julius G.; and Corazzini, Pasquale, 3,757,436.
Corbani, John F., to Sloan Technology Corporation. Display system. 3,748,636, 7-24-73, Cl. 340-3.00r.
Corbell, Paul I.; Giovanelli, Alfred; and Korta, Lawrence B., to Johnson Service Company. Waveguide antenna structure for intrusion detection apparatus. 3,747,109, 7-17-73, Cl. 343-702.000.
Corbellini, Margherita; and Balducci, Agostino, to Snam Progetti S.p.A. Novel diamidodialanes and process for the preparation thereof. 3,781,318, 12-25-73, Cl. 260-448.00r.
Corbett, John M.; and Schenk, Joseph G., to Belts, Bolts, Cups Corporation. Bolt for attaching elevator buckets to belts, and method of making same. 3,712,357, 1-23-73, Cl. 151-41.730.
Corbett, John M.; and Fookes, James L., to Dow Chemical Company, The. Foam scrap recovery and apparatus. 3,752,631, 8-14-73, Cl. 425-324.000.
Corbett, John M.; Bussey, Marlin G.; and Killingbeck, Graydon Wayne, to Dow Chemical Company, The. Styrene polymer foam and the preparation thereof. 3,770,668, 11-6-73, Cl. 260-2.50e.
Corbett, Joseph H.: *See—*
Burlis, Norbert W.; and Corbett, Joseph H., 3,724,985.
Burlis, Norbert W.; and Corbett, Joseph H., 3,752,617.
Corbett, Michael J.: *See—*
Osborne, Fred H.; Tuttle, Robert S.; and Corbett, Michael J., 3,734,512.
Corbett, Richard A.: *See—*
Austgen, Kenneth J.; Corbett, Richard A.; and Schuller, James J., 3,710,730.
Corbett, Robert Lee, Jr. Load support diffuser and method of manufacture. 3,716,223, 2-13-73, Cl. 432-260.000.
Corbett, Thomas J. Grass-catching and bagging apparatus for rotary lawn-mowers. 3,722,192, 3-27-73, Cl. 56-202.000.
Corbett, William George; and Clegg, Michael Ward. Permafrost oil-production method. 3,721,298, 3-20-73, Cl. 166-302.000.
Corbett, William J.: *See—*
Cooper, Joseph; and Corbett, William J., 3,743,542.
Corbige, Orin K.: *See—*
Blaetz, Philip H.; and Corbige, Orin K., 3,719,138.
Corbin, John Alphonso S.: *See—*
Schumann, Joseph M.; Stayboldt, Paul J.; and Corbin, John Alphonso S., 3,726,276.

Corbin, John Alphonso S.; Schumann, Joseph M.; Watson, D. E.; and Stayboldt, Paul J., to Trionics, Inc. Catheterization assembly. 3,774,591, 11-27-73, Cl. 128-2.00f.

Corble, John C.: *See—*
Reed, Robert D.; Zink, John Smith; Schwartz, Robert E.; Glomm, Horst; Corble, John C.; and Koons, Harold F., 3,779,689.

Corby, Bernard: *See—*
Chu, Pe Tsi; Corby, Bernard; James, Andre Ernest; Le Blanc, Robert; and Milewski, Andrzej Tadeusz, 3,761,638.

Corcelle, Francois; Angely, Jean; and Delort, Jean-Pierre. Device for tracing seams for welding by electron bombardment. 3,743,776, 7-3-73, Cl. 219-121.0eb.

Corchia de Harak, Inc.: *See—*
De Harak, Rudolph, 3,771,247.

Corchran, Charles E., to Variety Products Inc. Double curvature plywood sheet for back rest. 3,720,441, 3-13-73, Cl. 297-284.000.

Corco, Inc.: *See—*
Croley, Thomas E., 3,712,530.
Schieser, Warren J.; and Vickers, Stanley E., 3,777,913.

Corcoran, Edward J. Safety closure. 3,730,371, 5-1-73, Cl. 215-9.000.

Corcoran, John D.: *See—*
Montgomery, Rex; Bateson, George F.; Corcoran, John D.; and Krbechek, Le Roy O., 3,740,388.

Corcoran, John W., to Ampex Corporation. Electro-mechanical deflector for light beams. 3,735,258, 5-22-73, Cl. 324-97.000.

Corcoran, John W., to Ampex Corporation. Optical tracking apparatus for read-out of high-density recording. 3,739,154, 6-12-73, Cl. 235-61.11e.

Corcoran, R. S., Co.: *See—*
Pardieck, William J., 3,771,926.

Cordell, Edward Geoffrey, to Normalair-Garrett (Holdings) Limited. Electronic programmer unit for burner control. 3,715,180, 2-6-73, Cl. 431-25.000.

Cordelle, Claude: *See—*
Maringer, Robert; and Cordelle, Claude, 3,724,979.
Maringer, Robert; and Cordelle, Claude, 3,781,157.

Corderman, Sidney A., to McIntosh Laboratory, Inc. Equalization system. 3,721,861, 3-20-73, Cl. 317-16.000.

Corderoy, Henry Morgan, to ACI Operations Pty. Limited. Apparatus for packing bottles, jars or like into cases. 3,780,492, 12-25-73, Cl. 53-247.000.

Cordes, Charles P. Metal drum stick. 3,722,350, 3-27-73, Cl. 84-422.000.

Cordes, Linus F.: *See—*
Engeler, William E.; and Cordes, Linus F., 3,714,520.

Cordes, Linus F., to General Electric Company. Method of making resistor thin films by reactive sputtering from a composite source. 3,763,026, 10-2-73, Cl. 204-192.000.

Cordeurop Establishment Vaduz: *See—*
Stroh, Bernhard, 3,729,921.

Cordi, Vincent A.; and Nickel, Ted Y., to International Business Machines Corporation. Implementation of the least recently used (LRU) algorithm using magnetic bubble domains. 3,737,881, 6-5-73, Cl. 340-174.0tf.

Cordiano, Ettore, to Fiat Societa per Azioni. Hydraulic brake system for vehicles. 3,712,684, 1-23-73, Cl. 303-22.00a.

Cordiano, Sebastiano M.; and Halpin, Paul, to American Cyanamid Company. Apparatus for remote marking of articles of manufacture. 3,730,133, 5-1-73, Cl. 118-2.000.

Cordier, James R.: *See—*
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Williamson, Donald E., 3,749,101.

Cordle, Paul E.: *See—*
Davis, Edward J.; Cordle, Paul E.; McCubbin, Melvin J.; Lockwood, Donald W.; and Higuera, Richard L., 3,717,098.

Cordner, Michael A.; and Grimm, Duane H., to Sundstrand Corporation. Hydromechanical transmission. 3,722,324, 3-27-73, Cl. 74-687.000.

Cordo, Francis Vincent, to General Electric Company. Method of assembly and bonding. 3,710,435, 1-16-73, Cl. 29-470.500.

Cordon, Martin: *See—*
Colodney, Daniel; and Cordon, Martin, 3,711,604.

Cordon, Martin; and Pintenich, Brian J., to Colgate-Palmolive Company. Dental cream containing abrasive agglomerates. 3,767,791, 10-23-73, Cl. 424-49.000.

Cords, Ernest, to Hughes Aircraft Company. Modular airborne launcher. 3,750,530, 8-7-73, Cl. 89-1.807.

Cords, Ernest, to Hughes Aircraft Company. Modular airborne launcher. 3,766,828, 10-23-73, Cl. 89-1.800.

Cords, Ernest, to Hughes Aircraft Company. Modular airborne launcher. 3,766,829, 10-23-73, Cl. 89-1.815.

Core Laboratories, Inc.: *See—*
Jenkins, Ralph E., 3,771,353.

Corelli, Conrad: *See—*
Corelli, John M., 3,770,951.

Corelli, John M.; deceased (by Corelli, Ronald; and Corelli, Conrad; executors). Christmas tree lights. 3,770,951, 11-6-73, Cl. 240-10.00t.

Corelli, Olga V.: *See—*
Corelli, Robert; and Corelli, Olga V., 3,767,246.

Corelli, Robert; and Corelli, Olga V. Sanitary disposal apparatus. 3,767,246, 10-23-73, Cl. 294-19.00r.

Corelli, Ronald: *See—*
Corelli, John M., 3,770,951.

Coren, Harry. Material disposal assembly. 3,724,713, 4-3-73, Cl. 220-71.000.

Corey, Albert E.; Donermeyer, Donald D.; Fantl, Joel; and Williams, Charles R., to Monsanto Company. Process for the preparation of a poly(vinyl acetate-dialkyl maleaee-acrylic acid) textile sizes. 3,716,547, 2-13-73, Cl. 260-29.6ta.

Corey, Albert E.; Donermeyer, Donald D.; Fantl, Joel; and Williams, Charles R., to Monsanto Company. Poly(vinyl acetate-dialkyl maleate acrylic acid) textile sizes. 3,723,381, 3-27-73, Cl. 260-33.8ua.

Corey, Albert E.; and Donermeyer, Donald D., to Monsanto Company. Acid-modified poly(vinyl acetate-vinyl propionate) textile sizes. 3,759,858, 9-18-73, Cl. 260-29.6ta.

Corey, Albert E.; Donermeyer, Donald D.; Fantl, Joel; and Williams, Charles R., to Monsanto Company. Process for the preparation of a poly(vinyl acetate-dialkyl maleate-acrylic acid) latex. 3,770,679, 11-6-73, Cl. 260-29.6ta.

Corey, Joseph T., to Permelip Products Corporation. Fastener device. 3,741,385, 6-26-73, Cl. 206-56.0ab.

Corey, Lawrence G.; Opalenik, John J.; and Clough, Robert F., to Arrow-Hart, Inc. Power control for portable electric tool. 3,721,879, 3-20-73, Cl. 318-345.000.

Corey, Robert H.: *See—*
Bixler, Donald; and Corey, Robert H., 3,715,889.

Corey, Robert W. Monorail switching device. 3,777,668, 12-11-73, Cl. 104-105.000.

Corhart Refractories Company: *See—*
Clishlm, Thomas A.; Duerr, Francis R.; and Olympia, Frederick D., 3,752,895.
Nelson, Michael A.; Patrick, Robert F.; and Wehrenberg, Thomas M., 3,726,699.
Nelson, Michael A.; Patrick, Robert F.; and Wehrenberg, Thomas M., 3,751,273.

Corialo, Samuel D.: *See—*
Schaeffer, Robert A.; White, William T.; and Corialo, Samuel D., 3,775,008.

Corini, Louis J., to Melbro Corporation. Temperature controlled mobile cart. 3,733,836, 5-22-73, Cl. 62-3.000.

Corini, Louis J., to Melbro Corporation. Revolving display capsule. 3,769,805, 11-6-73, Cl. 62-3.000.

Corinthios, Michael J. G. High speed signal processor for vector transformation. 3,754,128, 8-21-73, Cl. 235-156.000.

Cork, Gordon H.; and Tenniswood, David M., to Gemco Electric Company. Rolling conductor support. 3,716,986, 2-20-73, Cl. 59-78.100.

Cork, Gordon H.; and Tenniswood, David M., to Gemco Electric Company. Selector switch mechanism with adjustable radial cam insert members having circumferential overlap flange. 3,743,799, 7-3-73, Cl. 200-6.00b.

Corker, Alfred Eric, to Cox, Arthur H., & Co., Limited. Pharmaceutical compositions providing potassium chloride in aqueous solution. 3,708,574, 1-2-73, Cl. 424-44.000.

Corkland, Alvin: *See—*
Mills, Arnold, 3,742,208.

Corkle, David P.; and Hagey, Lee P., to Electro-Voice, Inc. Ambipolar microphone unit. 3,733,441, 5-15-73, Cl. 179-81.00b.

Corl, Edwin A.; and Daghir, Khalil S., to International Business Machines Corporation. Method and apparatus for detecting moisture. 3,726,592, 4-10-73, Cl. 356-36.000.

Corl, James A.: *See—*
Scofield, Donald H.; and Corl, James A., 3,733,696.

Corl, John E.: *See—*
Hofelt, Clarence, Jr.; and Corl, John E., 3,724,137.

Corlet, Gabriel, to Application des Gaz. Device for connecting a dispensing coupler to a container for fluid under pressure. 3,777,789, 12-11-73, Cl. 141-329.000.

Corlett, David Fleming: *See—*
Terry, John Brian; and Corlett, David Fleming, 3,730,994.

Corley, Dewey A.: *See—*
Franck, Raymond J.; and Corley, Dewey A., 3,744,263.

Corley, William P.; and Glass, James D., to Anderson Electric Corporation. Tiltable corona ring assembly. 3,775,553, 11-27-73, Cl. 174-144.000.

Corli, Duncan S.; and Ventre, Charles M., to Polaroid Corporation. Photographic copy system. 3,754,825, 8-28-73, Cl. 355-70.000.

Corliss, Robert F.: *See—*
Corliss, Robert F.; and Wilkinson, Frank (said Wilkinson assor to said), 3,720,232.

Corliss, Robert F.; and Wilkinson, Frank, said Wilkinson assor to said Corliss, Robert F. Fluid pressure responsive valve controller. 3,720,232, 3-13-73, Cl. 137-624.014.

Corlite Corporation: *See—*





Boyle, George E., 3,711,697.
Fredericks, Carl K., 3,756,904.

Corll, James A. Child-safe aerosol spray container. 3,712,515, 1-23-73, Cl. 222-182.000.

Cormak, Anthony F.: *See—*
Gray, John H.; Schneider, Alfred; Cormak, Anthony F.; and Ayers, Arnold L., 3,770,612.

Corman, Edward M.: *See—*
Balzer, Claude P.; Corman, Edward M.; and Reiff, Almer A., 3,750,359.
Balzer, Claude P.; Reiff, Almer A.; and Corman, Edward M., 3,759,000.

Corman, James; Walmet, Gunnar E.; Urbaetis, Stanely P.; and Dimond, Herbert M., to General Electric Company. Circuit breaker with heat pipe cooling means. 3,769,551, 10-30-73, Cl. 317-100.000.

Corman, James C.: *See—*
Staub, Fred W.; Corman, James C.; and Walmet, Gunnar E., 3,710,295.

Corman, James C.; and Walmet, Gunnar E., to General Electric Company. Heat transfer device. 3,746,081, 7-17-73, Cl. 165-32.000.

Cormany, Joseph L., Jr.: *See—*
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Bhakuni, Roop S.; and Cormany, Joseph L., Jr., 3,755,165.
Bhankuni, Roop S.; and Cormany, Joseph L., Jr., 3,748,291.
Bhikuni, Roop S.; and Cormany, Joseph L., Jr., 3,714,772.

Cormican, Robert E.: *See—*
Van Benthuysen, John D.; Budd, Wilbert N.; and Cormican, Robert E., 3,747,043.

Cormier, Louis A. Stair tread. 3,726,327, 4-10-73, Cl. 144-144.500.

Cormier, William F., to United States of America, Navy. Torpedo presetting system. 3,772,581, 11-13-73, Cl. 318-685.000.

Cormode, Henry Daniel Alexander: *See—*
McGowan, John; Kirby, Charles Raymond; and Cormode, Henry Daniel Alexander, 3,711,254.

Corn, Prentice R.: *See—*
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Cornacchio, Americo: *See—*
Barberio, Louis; and Cornacchio, Americo, 3,732,718.

Cornacchio, Nancy A.: *See—*
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Corneilson, Floyd S., Jr.; and Turner, Robert L. Safety belt control apparatus. 3,756,339, 9-4-73, Cl. 180-82.00c.

Cornelia, Donald E. Tool holding device. 3,758,125, 9-11-73, Cl. 279-103.000.

Cornelius Company, The: *See—*
Estrem, Malcolm J., 3,713,522.
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Swick, George E., Jr.; and Danielson, Ellsworth H., 3,766,863.

Cornelius, Dieter; Von Brachel, Hanswilli; and Bender, Heinz, to Cassella Farbwerke Mainkur Aktiengesellschaft. 2-Cyano-4-nitro-6-methylsulfonyl-1-[4'-diethylamino -2'-acetylamino-phenylazo]-benzene. 3,772,267, 11-13-73, Cl. 260-207.100.

Cornelius, Edward B.; and Koester, David W., to Air Products and Chemicals, Inc. Chromia-alumina catalyst. 3,778,388, 12-11-73, Cl. 252-465.000.

Cornelius, Edward C., to Eastman Kodak Company. Apparatus using reflected polarized light to inspect a moving web. 3,734,624, 5-22-73, Cl. 356-118.000.

Cornelius, Frank L., to General Electric Company. Blood gas sensor amplifier and testing system. 3,710,778, 1-16-73, Cl. 128-2.00b.

Cornelius, Gail, to Wade, R. M., & Co. Water motor with partial circle pattern. 3,729,141, 4-24-73, Cl. 239-212.000.

Cornelius, Gail; and Wade, R. M., & Co. Mayday safety shutoff system responsive to errant towers of an automatic irrigation system. 3,750,696, 8-7-73, Cl. 137-344.000.

Cornelius, George W. Rotary-radial action washing machine. 3,740,975, 6-26-73, Cl. 68-18.00f.

Cornelius, Kenneth T., to United States of America, Navy. Pressure actuated release device. 3,736,014, 5-29-73, Cl. 292-256.500.

Cornelius, Thomas Edward, III: *See—*
Boothe, Jerry Emile; and Cornelius, Thomas Edward, III, 3,709,815.
Boothe, Jerry Emile; Sharpe, Andrew Jackson, Jr.; Walker, Jerry Lee; and Cornelius, Thomas Edward, III, 3,752,761.

Cornelius, Victor Wayland. Indicating device. 3,708,898, 1-9-73, Cl. 40-70.000.

Cornelius, William J., to Keyes Fibre Company. Fruit container. 3,778,516, 12-11-73, Cl. 426-119.000.

Corneliusen, Philip R. Antislip attachments for snow footgear. 3,760,513, 9-25-73, Cl. 36-2.5ab.

Cornell Aeronautical Laboratory, Inc.: *See—*
Adams, Donald E.; and Vassallo, Franklin A., 3,720,103.
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Daiber, John W.; and Thompson, Herbert M., 3,756,344.
Gnau, Donald V.; and Pierstorff, Buckley C., 3,726,997.
Reinnagel, Richard E., 3,714,564.
Stiller, Paul F., 3,739,407.
Vassallo, Franklin A., 3,768,191.

Cornell, Clark; Himler, Gary J.; and Ahlstrom, John F., to Legal-print. Tape recording editing system. 3,735,348, 5-22-73, Cl. 340-146.10r.

Cornell, Cyrus J. Multiple saw lumber trimmer. 3,722,343, 3-27-73, Cl. 83-422.000.

Cornell, Dudley E., III. Teaching system. 3,765,106, 10-16-73, Cl. 35-35.00c.

Cornell, John A.: *See—*
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Cornell Manufacturing Company: *See—*
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Cornell Research Foundation, Inc.: *See—*
Steinkraus, Keith H., 3,721,569.

Cornell, Richard D., to Johnson Products, Inc. Tappet push rod seat and meter means. 3,717,134, 2-20-73, Cl. 123-90.350.

Cornell, Richard Henry, to General Electric Company. Metering valve for regulating the flow of contaminated fluids. 3,765,447, 10-16-73, Cl. 137-538.000.

Cornell, Robert W., to United Aircraft Corporation. Torsional elastomer snubber. 3,730,015, 5-1-73, Cl. 74-424.80r.

Cornell University: *See—*
Sagan, Carl Edward; and Khare, Bishun N., 3,756,934.

Cornella, Emanuel; and Cornella, Thomas E. Building construction of spaced panels with weather seals. 3,759,002, 9-18-73, Cl. 52-270.000.

Cornella, Thomas E.: *See—*
Cornella, Emanuel; and Cornella, Thomas E., 3,759,002.

Cornelsen, David J., to Armco Steel Corporation. Plunger packing wash system. 3,749,529, 7-31-73, Cl. 417-437.000.

Cornett, Earl J.; and Cornett, Gene E. Safety device for firearms. 3,710,490, 1-16-73, Cl. 42-1.00n.

Cornett, Gene E.: *See—*
Cornett, Earl J.; and Cornett, Gene E., 3,710,490.

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Corning Glass Works: *See—*
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Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,124, 3-27-73, Cl. 29-81.000.
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Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,126, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,127, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,128, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,129, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,130, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,131, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,132, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,133, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,134, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,135, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,136, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,137, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,138, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,139, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,140, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,141, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,142, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,143, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,144, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,145, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,146, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,147, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,148, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,149, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,150, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,151, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,152, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,153, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,154, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,155, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,156, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,157, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,158, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,159, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,160, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,161, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,162, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,163, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,164, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,165, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,166, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,167, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,168, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,169, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,170, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,171, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,172, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,173, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,174, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,175, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,176, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,177, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,178, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,179, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,180, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,181, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,182, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,183, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,184, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,185, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,186, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor blade. 3,722,187, 3-27-73, Cl. 29-81.000.
Cotter, Thomas J.; and Cotter, Donald J., to Cotter & Company. Razor bl

Cosp, Enrique A. Toy and delayed release propelling mechanism therefor. 3,713,514, 1-30-73, Cl. 185-37.000.
Cospen, Jean; and Baumann, Bernard, to CEBAL GP. Tear tab for easy opening metal cans. 3,744,669, 7-10-73, Cl. 220-54.000.
Cosper, Dale L. Steam bath cabinet. 3,707,732, 1-2-73, Cl. 4-164.000.
Cosper, Dale L., to Research Corporation. Belt massage machine. 3,707,962, 1-2-73, Cl. 128-63.000.
Cosper, John A., to Cosper Manufacturing Company, Inc. Shower floor drain. 3,745,594, 7-17-73, Cl. 4-292.000.
Cosper Manufacturing Company, Inc.: *See—*
Cosper, John A., 3,745,594.
Coss, Ronald G., to Standard Pneumatic Motor Company. Wire wrapping tool. 3,717,183, 2-20-73, Cl. 140-124.000.
Coss, Ronald G., to Micro Motors, Inc. Mechanical scarifier. 3,756,242, 9-4-73, Cl. 128-333.000.
Cossaboom, Leon H. Electrically heated arm or leg sleeve. 3,748,436, 7-24-73, Cl. 219-211.000.
Cossar, Bernard C.: *See—*
Janssen, Donald E.; Reynolds, Delbert D.; and Cossar, Bernard C., 3,718,464.
Cosserat, David Cockburn: *See—*
Cotton, John Michael; Williams, James Jeffrey Llewelyn; and Cosserat, David Cockburn, 3,771,146.
Cosserat, David Cockburn; Cotton, John Michael; O'Halloran, Michael; and Trapnell, Frederick Mackay, to Plessey Handel und Investments A.G. Program interrupt facilities in data processing systems. 3,757,307, 9-4-73, Cl. 340-172.500.
Cosson, Harold E., to Ametek, Inc. Installation of curb boxes. 3,746,034, 7-17-73, Cl. 137-364.000.
Cossor, A. C., Limited: *See—*
Allen, Alaric, 3,710,382.
Cost, Thomas L.: *See—*
Anderson, Stanley E.; Thompson, Bernard L.; Thies, Charles E.; and Cost, Thomas L., 3,745,199.
Costa, Edward; Lantz, Robert; and Seals, William O., to United States of America, Army. Low energy propellant producing essentially non-reactive gaseous exhaust products. 3,764,416, 10-9-73, Cl. 149-18.000.
Costa, Gianmario: *See—*
Angeleri, Emanuele; Bonatti, Mario; Costa, Gianmario; and Boretti, Isidoro, 3,708,625.
Costa, Lorenzo Federico: *See—*
Grum, Frank; Przybylowicz, Edwin Paul; Costa, Lorenzo Federico; and Miller, Raymond Sumner, 3,758,412.
Costa, Peter F.: *See—*
Brandt, Edison R.; and Costa, Peter F., 3,747,489.
Costa, Peter F.; and Coughlan, Edward H., to Polaroid Corporation. Folding camera. 3,722,389, 3-27-73, Cl. 95-39.000.
Costa, Ralph E.; and Trevillian, Walter W., to Hubbert, B. H., & Sons, Inc. Processing kettle. 3,739,710, 6-19-73, Cl. 99-348.000.
Costa, Robert B.; Wichman, William J.; and Morgan, Norman D., to Rain Bird Sprinkler Mfg., Corporation. Sprinkler head mounting means. 3,764,073, 10-9-73, Cl. 239-230.000.
Costales, Manuel; and Hakki, Moustafa I. Rotating ring drive for spinning machine. 3,738,094, 6-12-73, Cl. 57-75.000.
Costanio, James J.; and Hrdlicka, Eugene R., to GTE Automatic Electric Laboratories, Incorporated. Lamp holder assembly. 3,777,137, 12-4-73, Cl. 240-52.00r.
Costantini, Michel: *See—*
Brunie, Jean-Claude; Costantini, Michel; Crenne, Noel; and Jouffret, Michel, 3,719,706.
Brunie, Jean-Claude; Costantini, Michel; Crenne, Noel; and Jouffret, Michel, 3,726,916.
Brunie, Jean-Claude; Costantini, Michel; Crenne, Noel; and Jouffret, Michel, 3,726,917.
Brunie, Jean-Claude; Costantini, Michel; Crenne, Noel; and Jouffret, Michel, 3,772,375.
Costantini, Siro J.; and Stockton, Thomas R., to Ford Motor Company. High speed overrunning clutch. 3,750,782, 8-7-73, Cl. 192-45.000.
Costantino, Nicholas: *See—*
Bryan, George D., Jr.; and Costantino, Nicholas, 3,712,023.
Costantinou, Charles A. Rotary engine. 3,773,022, 11-20-73, Cl. 123-8.430.
Costanza, Carl C.; Weber, Walter W.; Betlejewski, Frank W.; and Frystak, Richard, to Bell & Howell Company. Slide transport device. 3,773,413, 11-20-73, Cl. 353-112.000.
Costanzo, James Joseph, to GTE Automatic Electric Laboratories, Incorporated. Jack strip gage. 3,768,089, 10-23-73, Cl. 340-282.00r.
Costanzo, Samuel P. Adjustable bearing lock and lubrication seal for can seamer. 3,742,883, 7-3-73, Cl. 113-24.000.
Costanzo, Samuel P., to Gulf & Western Industrial Products Company. Method for necking-in can bodies. 3,754,424, 8-28-73, Cl. 72-105.000.
Costard, Herbert, to Edler & Krische. File card, or the like. 3,745,681, 7-17-73, Cl. 40-36.000.
Costarella, Nino F.; and Giuffre, Anthony A., to Nino's Inc. Air purification systems. 3,731,462, 5-8-73, Cl. 55-228.000.
Costarella, Nino F. Ringless piston. 3,745,890, 7-17-73, Cl. 92-192.000.
Coste, Philippe: *See—*
Caron, Michel; Coquet, Claude; Coste, Philippe; and Rey, Marcel, 3,729,395.
Costedoat, George Gilbert: *See—*
Charrier, Paul Jean Raymond; and Costedoat, George Gilbert, 3,728,513.
Costello, Bernard J., to Argus Engineering Company, Inc. Method and apparatus for heat-bonding in a local area using combined heating techniques. 3,717,743, 2-20-73, Cl. 219-85.000.
Costello, Bernard J., to Argus Engineering Company, Inc. Infra-red heating apparatus. 3,718,800, 2-27-73, Cl. 219-85.000.
Costello, Bernard J., to Argus Engineering Company, Inc. Method and apparatus for heat bonding in a local area using combines heating techniques. 3,742,181, 6-26-73, Cl. 219-85.000.
Costello, Bernard J., to Argus Engineering Company, Inc. Apparatus for fusing and sealing platings and the like. 3,744,557, 7-10-73, Cl. 165-64.000.
Costello, Bernard J., to Argus Engineering Company, Inc. Apparatus and method for uniform illumination of a surface. 3,763,348, 10-2-73, Cl. 219-347.000.
Costello, Charles Albert, to General Electric Company. Salient pole rotor construction with removable pole tips. 3,728,566, 4-17-73, Cl. 310-194.000.
Costello, Christopher H.: *See—*
De Salva, Salvatore Joseph; and Costello, Christopher H., 3,775,538.
Costello, Hal F., to Coswell Products, Inc. Vaporizer device. 3,748,438, 7-24-73, Cl. 219-271.000.
Costello, Richard L.: *See—*
Into, Henry A.; and Costello, Richard L., 3,771,415.
Costello, Thomas V.: *See—*
Biren, Steven; and Costello, Thomas V., 3,714,620.
Costelloe, Patrick, to British Steel Corporation. Method for passivating a zinc surface. 3,775,193, 11-27-73, Cl. 148-6.200.
Coster Tecnologie Speciali S.p.A.: *See—*
Ruscitti, Tomaso, 3,738,542.
Costerousse, Germain: *See—*
Martel, Jacques; and Costerousse, Germain, 3,753,995.
Costes, Didier, to Commissariat a l'Energie Atomique. Reactor vessel supporting device. 3,769,161, 10-30-73, Cl. 176-87.000.
Costich, Dale W. Process for making pigmented art objects. 3,772,421, 11-13-73, Cl. 264-74.000.
Costley, Vivian G.; and Wolf, Sylvan, to United States of America. Navy. Drill mine. 3,709,148, 1-9-73, Cl. 102-10.000.
Coston, Ronald Frances: *See—*
Rooke, Sydney William; and Coston, Ronald Frances, 3,717,270.
Costruba, Peter, to Angeles Metal Trim Co. Support structure for shelving. 3,714,748, 2-6-73, Cl. 52-36.000.
Costruzioni Meccaniche Industriali Genovesi C.M.I., S.p.A.: *See—*
Valdenazzi, Luigi Giovanni, 3,717,333.
Coswell Products, Inc.: *See—*
Costello, Hal F., 3,748,438.
Cote, Gilles Yvon; and Bombardier, Jacques, to Bombardier Limited. Endless track tension release mechanism. 3,733,107, 5-15-73, Cl. 305-10.000.
Cote, Jacques Francois: *See—*
Cooke, William Ernest; Cote, Jacques Francois; Innes, Robert Arthur; Spooner, Roy Cowieson; and Kellermann, Walter Maria Eduard, 3,718,547.
Cote, James D., to General Motors Corporation. Hydraulic engine governor. 3,777,729, 12-11-73, Cl. 123-140.0fg.
Cote, Lucien. Snow plow. 3,772,803, 11-20-73, Cl. 37-42.0vl.
Cote, Paul T., to General Electric Company. Photoflash lamp array having flash-actuated switches. 3,728,068, 4-17-73, Cl. 431-95.000.
Cote, Paul T., to General Electric Company. Arc gap circuits for flashing high-voltage photoflash lamps. 3,742,298, 6-26-73, Cl. 315-323.000.
Cote, Philip J. Disposable, vacuum cleaner bag. 3,755,993, 9-4-73, Cl. 55-370.000.
Cote, Raymond A., to Rexham Corporation, mesne. Display carton. 3,717,243, 2-20-73, Cl. 206-45.140.
Cote, Raymond A., to Rexham Corporation, mesne. Support and display carton for parabolic lamp. 3,734,397, 5-22-73, Cl. 229-39.00b.
Cote, Raymond A., to Rexham Corporation, mesne. Shadow box carton. 3,750,870, 8-7-73, Cl. 206-45.140.
Cote, Raymond A., to Riegel Paper Corporation. Display carton. 3,770,116, 11-6-73, Cl. 206-45.140.
Cote, Yvon: *See—*
Beauregard, Rejean; and Cote, Yvon, 3,742,205.
Cotey, John, to Medspecs, Inc. Speculum latching mechanism. 3,736,919, 6-5-73, Cl. 128-17.000.
Cotey, John, to Medspecs, Inc. Digital amniotome. 3,749,099, 7-31-73, Cl. 128-361.000.
Cotherm S.A.: *See—*
Snipeliski, Jacques, 3,742,417.



Cothran, Samuel Bynum; and Kirk, James Rodney, to Du Pont de Nemours, E. I., and Company. Container and method for packaging material sensitive to contaminants. 3,710,539, 1-16-73, Cl. 53-27.000.
Cotner, Calvin Buchanan; and Standing, Arthur Frederick, to Communications Satellite Corporation. Adjustable microstrip substrate holder. 3,775,644, 11-27-73, Cl. 317-101.0cc.
Cott, Georges Emanuel, to Reliure Industrielle S.T.D. Binding for perforated leaves made up of a single plastic piece. 3,728,036, 4-17-73, Cl. 402-31.000.
Cotta, Gilbert Alexander: *See—*
Langley, Lawrence W.; and Cotta, Gilbert Alexander, 3,731,524.
Cotta Ramusino, Francesco: *See—*
Galbarini, Maso; and Cotta Ramusino, Francesco, 3,748,965.
Cottam, Spencer: *See—*
Davis, Stevens S.; and Cottam, Spencer, 3,770,131.
Cottbell, Harold E. Hydraulic transmission. 3,751,922, 8-14-73, Cl. 60-349.000.
Cottell, Eric C. Combustion method and apparatus burning an intimate emulsion of fuel and water. 3,749,318, 7-31-73, Cl. 239-102.000.
Cottell, Eric C., to Resources Research & Development Corporation. Apparatus for producing a fuel-air mixture by sonic energy. 3,756,575, 9-4-73, Cl. 261-1.000.
Cottell, Eric Charles. Apparatus for carrying out ultrasonic agitation of liquid dispersions. 3,715,104, 2-6-73, Cl. 259-1.00r.
Cotter, Ashby M., 50% to Harper, Roy. Inclination indicator. 3,707,772, 1-2-73, Cl. 33-373.000.
Cotter, Douglas A., to Corning Glass Works. Storage cathode ray tube electron beam position indicator. 3,715,619, 2-6-73, Cl. 315-10.000.
Cotter, George H.; and Hanes, William C., to Union Carbide Corporation. Short-circuit inert gas consumable electrode process using additions of 10-14% nitrogen. 3,770,932, 11-6-73, Cl. 219-74.000.
Cotter, John Lawrence: *See—*
Rothenbuhler, Howard E.; Melder, Robert C.; and Cotter, John Lawrence, 3,776,047.
Cotter, John Thomas: *See—*
Sprecher, Nathan; and Cotter, John Thomas, 3,758,604.
Cotter, William L., 50% to Welland Investment Trust, Kenney, William F. and Reiss, Martin H. Coordinate digitizer system. 3,732,369, 5-8-73, Cl. 178-18.000.
Cottin, Jean Claude, to Produmatic. Hydrostatic end pressure balancing device for machine tools. 3,732,757, 5-15-73, Cl. 82-2.000.
Cottin, Jean Claude, to Produmatic Chateauneuf. Detent positioning device. 3,774,470, 11-27-73, Cl. 74-527.000.
Cottingham, Edgar R., to General Motors Corporation. Vehicle clutch and brake. 3,770,085, 11-6-73, Cl. 192-13.00r.
Cottis, Steve G.: *See—*
Economy, James; Cottis, Steve G.; and Nowak, Bernard E., 3,772,250.
Nowak, Bernard E.; Economy, James; and Cottis, Steve G., 3,773,858.
Cottis, Steve G.; Nowak, Bernard E.; and Economy, James, to Carborundum Company, The. Polyester coated wire. 3,779,808, 12-18-73, Cl. 117-232.000.
Cottle, Herbert. Fish lure. 3,757,451, 9-11-73, Cl. 43-42.100.
Cottle, John E.: *See—*
Buchanan, Ben B.; and Cottle, John E., 3,773,752.
Cottle, John E., to Phillips Petroleum Company. Process for polymerizing 1-3-butadiene monomer. 3,725,377, 4-3-73, Cl. 260-94.20r.
Cottle, John E., to Phillips Petroleum Company. Separation and recovery of perhalogenated fluorocarbons. 3,737,470, 6-5-73, Cl. 260-653.000.
Cottman, Kirkwood S., to Goodyear Tire & Rubber Company, The. Process for improving the color characteristics of antioxidants. 3,746,654, 7-17-73, Cl. 252-400.00a.
Cottom, Truman W., to Mabry, Ray W. Contact lens edge finishing machine. 3,722,143, 3-27-73, Cl. 51-5.000.
Cotton, Curran D., to Maytag Company, The. Dryer control. 3,710,138, 1-9-73, Cl. 307-118.000.
Cotton, Herbert John Thomas, to Lucas, Joseph, (Industries) Limited. Wiring connection to a brush assembly in a dynamo electric machine. 3,760,211, 9-18-73, Cl. 310-242.000.
Cotton, Incorporated: *See—*
Hollies, Norman R. S.; and Chafitz, Steven R., 3,709,657.
Lewis, Harold Loyd, 3,778,509.
Lord, John Garvin, 3,778,913.
Swidler, Ronald; Sanderson, William A.; Gamarra, Jose P.; and Mueller, William A., 3,744,970.
Wilkes, Lambert H.; and Jones, Joseph K., 3,749,003.
Cotton, John F., to Westinghouse Electric Corporation. Distribution transformer. 3,717,832, 2-20-73, Cl. 336-67.000.
Cotton, John Michael: *See—*
Cosserat, David Cockburn; Cotton, John Michael; O'Halloran, Michael; and Trapnell, Frederick Mackay, 3,757,307.
Cotton, John Michael; Williams, James Jeffrey Llewelyn; and Cosserat, David Cockburn, to Plessey Handel und Investments A.G. Data processing system interrupt arrangements. 3,771,146, 11-6-73, Cl. 340-172.500.
Cotton, Joseph Bernard: *See—*
Hines, John Grahame; and Cotton, Joseph Bernard, 3,730,856.
Cotton, Joseph Bernard; Hayfeeld, Peter Charles Steel; and Scholes, Ian Robert, to Imperial Metal Industries (Kynoch) Limited. Method of making an electrode. 3,773,555, 11-20-73, Cl. 117-217.000.
Cotton, Louis S.: *See—*
Adams, Don L.; and Cotton, Louis S., 3,724,786.
Cotton Producers Institute: *See—*
Liggett, Robert W., 3,709,716.
Cotton, Ronald K.; and Rae, Barney O., to Cutler-Hammer, Inc. Motor control system. 3,723,841, 3-27-73, Cl. 318-574.000.
Cottrell, Arnold George; Bradford, Nevin Dornan; and Lovett, Terence Oliver, to Imperial Chemical Industries Limited. Solid fire-extinguishing compositions. 3,776,843, 12-4-73, Cl. 252-7.000.
Cottrell, George B., to North American Rockwell Corporation. Resolver position control system. 3,710,223, 1-9-73, Cl. 318-661.000.
Cottrell, Herbert. Apparatus for extracting fluid from pulp. 3,754,660, 8-28-73, Cl. 210-374.000.
Cottrell, Lyle F., to Butler-Manufacturing Company. Method and means for facilitating the flow of granular materials. 3,713,564, 1-30-73, Cl. 222-1.000.
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Couasnard, Claude, to Thomson-CSF. Heating devices for carrying out high frequency heating by dielectric losses. 3,745,292, 7-10-73, Cl. 219-10.550.
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Couch, Robert O.; and Spalding, Donald K., to Ric-Wil, Incorporated. Conduit system. 3,747,961, 7-24-73, Cl. 285-133.00r.
Couch, Robert P.; Rossbach, Dennis R.; Vopalensky, Robert A.; and Fowler, Robert T., to United States of America. Air Force. Apparatus for indicating the impending failure of a jet engine. 3,775,763, 11-27-73, Cl. 340-236.000.
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Couchman, James C.; and Applebay, George W., to United States of America, Atomic Energy Commission. Air sampling device. 3,710,557, 1-16-73, Cl. 55-270.000.
Couchoud, Paul; and Rochina, Vincent, to Societe Rhodiaceta. Process for producing elastic filaments and bristles. 3,781,400, 12-25-73, Cl. 264-210.00f.
Coucoulas, Alexander: *See—*
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Coughlin, Barring, Jr.: *See—*
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Coughlin, Bernard Joseph, to U.S. Philips Corporation. Method of diffusing an impurity into a semiconductor body. 3,755,017, 8-28-73, Cl. 148-189.000.
Coughlin, Donald W. Combination shut-off check and pressure surge relief valve. 3,721,264, 3-20-73, Cl. 137-596.200.
Coughlin, Donald W. Strainer shut-off valve with manual back-flush. 3,779,388, 12-18-73, Cl. 210-390.000.
Coughlin, Joseph F.; and Ruszkay, Richard J., to Du Pont de Nemours, E. I., and Company. Process for controlling molecular weight of alpha-olefin polymers. 3,758,446, 9-11-73, Cl. 260-80.780.
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Coughlin, Robert W. Process and device for purifying air. 3,710,548, 1-16-73, Cl. 55-73.000.
Coughlin, Robert W.; and Siegel, Richard D., to Research Corporation. Radiation crosslinked, swelled semipermeable membranes. 3,720,321, 3-13-73, Cl. 210-500.000.

Coughran, Samuel J., Jr., to Lome Industries, Incorporated. Tree harvesting apparatus. 3,735,788, 5-29-73, Cl. 144-309.0ac.
Coughtrie, Thomas Robb. Cutting devices. 3,738,002, 6-12-73, Cl. 30-251.000.
Couillaud, Jean-Pierre; and Louise, Jean, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Purification of combustion products before discharge into the atmosphere. 3,733,393, 5-15-73, Cl. 423-215.000.
Couix, Albert, to Societe Anonyme Trigano-Vacances. Folding caravan. 3,753,590, 8-21-73, Cl. 296-23.00r.
Couland, Roger. Apparatus for tapering flexible tubes. 3,715,901, 2-13-73, Cl. 72-58.000.
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Coulson, Dale M. Solvent extraction apparatus. 3,709,665, 1-9-73, Cl. 23-269.000.
Coulson, Dale Robert, to Du Pont de Nemours, E. I., and Company. Bis (2,3-dimethylenebutyl)-cyanomethane compounds and their preparation. 3,723,500, 3-27-73, Cl. 260-465.80r.
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Coulson, Dale Robert, to Du Pont de Nemours, E. I., and Company. Exo-3-methyltricyclo(4.2.1.0,2,5)nona-3,7-dienes and their preparation from allene and a bicyclo (2.2.1)hepta-2,5-diene. 3,760,016, 9-18-73, Cl. 260-666.0py.
Coulson, Gordon Raymond. Mineral dressing centrifuge. 3,730,423, 5-1-73, Cl. 233-38.000.
Coult, John H. Friction-driven rotary cleaning apparatus having plural operating modes. 3,755,845, 9-4-73, Cl. 15-79.000.
Coulter, Albert W., Jr.; Gibson, Daniel L.; and Nimerick, Kenneth H., to Dow Chemical Company, The. Galactomannan gum based composition for sealing permeable formations. 3,743,613, 7-3-73, Cl. 260-17.4st.
Coulter, Albert W., Jr.; Gibson, Daniel L.; and Nimerick, Kenneth H., to Dow Chemical Company, The. Method of temporarily sealing a permeable formation. 3,763,934, 10-9-73, Cl. 166-294.000.
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Coulter, Earl E.; Hemker, Fritz L.; and Kazmierski, Elias A., to Babcock & Wilcox Company, The. Pulverized fuel delivery system for a blast furnace. 3,720,351, 3-13-73, Cl. 222-1.000.
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Coulter, Wallace H.; and Hogg, Walter R., to Coulter Electronics, Inc. Electronic particle analyzing apparatus with improved aperture tube. 3,714,565, 1-30-73, Cl. 324-71.0cp.
Coulter, Wallace H.; Hogg, Walter R.; and Longman, Millard Dumas, to Coulter Electronics, Inc. Method and apparatus for measuring particle concentration in a fluid suspension of particles. 3,733,547, 5-15-73, Cl. 324-71.0cp.
Coulter, Wallace H.; and Hogg, Walter R., to Coulter Electronics, Inc. Apparatus and method for measuring particle concentration of a suspension passing through a sensing zone. 3,733,548, 5-15-73, Cl. 324-71.0cp.
Coulter, Wallace H., to Coulter Electronics, Inc. Combined electronic and optical method and apparatus for analyzing liquid samples. 3,743,424, 7-3-73, Cl. 356-73.000.
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Coulthard, John. Measurement of fluid flow rates. 3,762,221, 10-2-73, Cl. 73-194.00e.
Couman & Shurtleff, Inc.: *See—*
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Council Commerce Corporation, mesne: *See—*
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Counsell, Raymond E.; and Mehta, Persis Pocha, to University of California, The Regents of the. Radioiodinated quinoline derivatives. 3,728,351, 4-17-73, Cl. 260-288.00a.
Countryman, Albert J., to Ty-Lok Assembly Systems, Inc. Strapping fastener. 3,721,750, 3-20-73, Cl. 174-135.000.
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Coupar, Robert B. Ground marker device. 3,709,188, 1-9-73, Cl. 116-114.00r.
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Couper, William Dean, to AMP Incorporated. Method and means for testing high frequency equipment. 3,755,732, 8-28-73, Cl. 324-58.000.
Coupland, John Herbert, to Science Research Council. Electrical coils for generating magnetic fields. 3,731,241, 5-1-73, Cl. 335-213.000.
Coupland, John Robert: *See—*
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Courard, Camille Alphonse, to Centre National de Recherches Metallurgiques. Dual coaxial tuyeres. 3,781,002, 12-25-73, Cl. 266-41.000.
Courbon, Jean. Method of making skew elements of prestressed concrete. 3,781,401, 12-25-73, Cl. 264-228.000.
Courbon, Paul, to Charbonnages de France. Apparatus for the suction and purification of polluted air. 3,765,155, 10-16-73, Cl. 55-270.000.
Courchesne, Germain. Combined intake and exhaust ventilator. 3,722,395, 3-27-73, Cl. 98-33.000.
Courneya, Calice G. Arrow fluid-dynamics. 3,751,037, 8-7-73, Cl. 273-106.50e.
Coursault, Roger M.; and Fourrey, Francois, to Regie Nationale des Usines Renault and Automobiles Peugeot. Seats, particularly for motor vehicles. 3,773,382, 11-20-73, Cl. 297-284.000.
Coursen, David L.: *See—*
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Court, Patrick R. J., to Optical Systems Corporation. Audio encoding/decoding system for CATV. 3,769,448, 10-30-73, Cl. 178-5.100.
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Court, Wilbur M., to Rexham Corporation, mesne. Article feeder for a packaging machine. 3,762,126, 10-2-73, Cl. 53-55.000.
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Courtney-Pratt, Jeofry Stuart, to Bell Telephone Laboratories, Incorporated. Optical readout apparatus. 3,712,724, 1-23-73, Cl. 353-25.000.
Courtney-Pratt, Jeofry Stuart, to Bell Telephone Laboratories, Incorporated. Process for rendering transparent media artificially opalescent and resulting product. 3,778,361, 12-11-73, Cl. 204-157.0lr.
Courtois, Andre; Lacombe, Yves; Laporte, Jean; and Kovacsik, Georges. Apparatus for measuring the oxygen consumption of a reducing organic medium. 3,775,060, 11-27-73, Cl. 23-253.00r.
Courtois, Monique; and Ores, Bernard. Extraction of protlases. 3,752,741, 8-14-73, Cl. 195-66.00r.
Courtois, Paul. Pressure molding device. 3,744,950, 7-10-73, Cl. 425-186.000.
Courtot, Jean-Pierre, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Low impact energy electrochemical cells and batteries. 3,733,219, 5-15-73, Cl. 136-13.000.
Courtot, Louis B.; and Dickinson, Richard H., Jr., to Weatherland Company, The. Releasable tube coupling. 3,743,326, 7-3-73, Cl. 285-105.000.
Courtright, Burr, to $CH_{20}$, Inc. Winch driven water spray irrigation device. 3,771,720, 11-13-73, Cl. 239-189.000.
Courty, Albert, to Thomson-CSF. Ultrasonic systems for carrying out flow measurements in fluids. 3,727,454, 4-17-73, Cl. 73-194.00a.
Courty, Albert, to Thomson-CSF. Ultrasonic flowmeter and method of metering. 3,731,532, 5-8-73, Cl. 73-194.00a.
Courty, Albert, to Thomson-CSF. Ultrasonic flowmeters. 3,738,169, 6-12-73, Cl. 73-194.00a.
Courty, Philippe, to Institut Francais du Petrole des Carburants et Lubrifiants. Manufacture of catalysts of the iron molybdate type for use particularly in the catalytic oxidation of alcohols to aldehydes. 3,716,497, 2-13-73, Cl. 252-470.000.
Coury, Arthur J.; and Rogier, Edgar R., to General Mills Chemicals, Inc. Process for the preparation of isocyanates from acyl azides. 3,725,450, 4-3-73, Cl. 260-453.00p.
Coury, Joseph D., to United States of America, Army. Battery actuated by linear and angular acceleration. 3,741,811, 6-26-73, Cl. 136-90.000.
Cousin, Barry D., to Plas/Steel Products, Inc. Apparatus for assembling a line guide to a fishing rod. 3,711,919, 1-23-73, Cl. 29-200.00p.
Cousin, Barry D., to Plas/Steel Products, Inc. Archery bow with removable inserts to vary draw force. 3,757,762, 9-11-73, Cl. 124-24.000.
Cousin, Barry D., to Plas/Steel Products, Inc. Line guide attachment for fishing rods. 3,769,735, 11-6-73, Cl. 43-24.000.
Cousin, Maurice Claude, to A. & M. Cousin et Cie, Etablissements Cousin Freres. Articulation for adjustment of inclination of a seat back rest especially for motor vehicle seats. 3,731,342, 5-8-73, Cl. 16-144.000.
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Covarrubtas, George S., to CBF Systems, Inc. Shear valve and frangible fitting. 3,757,810, 9-11-73, Cl. 137-68.000.
Covault, Dennis O., to Texas Instruments, Incorporated. Object identification by emission polarization. 3,748,484, 7-24-73, Cl. 250-225.000.
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Cowpland, Michael C.; and Draper, Donald A., to Microsystems International Limited. Impedance matching circuit for tone ringing. 3,731,004, 5-1-73, Cl. 179-84.00t.
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Cox & Wright Limited: *See—*
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Cox, Alan John; and Annetts, Bryan Charles, to Delapena Honing Equipment Limited. Honing machine. 3,747,279, 7-24-73, Cl. 51-71.000.
Cox, Arthur, to Bell & Howell Company. Optical zoom and image-rotating system. 3,724,927, 4-3-73, Cl. 350-203.000.
Cox, Arthur, to Austin Company, The. Symmetrical optical lens system. 3,733,115, 5-15-73, Cl. 350-214.000.
Cox, Arthur, to Austin Company, The. Variable magnification optical system. 3,741,622, 6-26-73, Cl. 350-40.000.
Cox, Arthur, to Austin Company, The. Optical system having diverting system. 3,768,889, 10-30-73, Cl. 350-199.000.
Cox, Arthur, & Sons, Inc.: *See—*
Craig, Burnie M.; and Anderson, Irvin O., Jr., 3,747,158.
Cox, Arthur H., & Co., Limited: *See—*
Corker, Alfred Eric, 3,708,574.
Cox, Arthur T. Hardware for a sliding door installation. 3,744,827, 7-10-73, Cl. 287-189.36h.
Cox Atheletics, Inc.: *See—*
Cox, Paul L., 3,739,500.
Cox, Bernard H.: *See—*
Carlile, Alfred E.; and Cox, Bernard H., 3,774,756.
Cox, Betty June. Auxiliary bed form structure. 3,711,875, 1-23-73, Cl. 5-2.000.
Cox, Charles S.: *See—*
Gregg, Michael C.; and Cox, Charles S., 3,748,899.
Cox, Charles W., to Automatic Power, Inc. Battery charging system. 3,769,567, 10-30-73, Cl. 320-27.000.
Cox, Clinton; Pechonick, John, Jr.; and Zylstra, Peter, Jr., to United States of America, Air Force. Method of impregnating microcracks in chromium plating. 3,761,303, 9-25-73, Cl. 117-71.00m.
Cox, Colin John; and Hepburn, John James, to Lever Brothers Company. Preparation of a lactic spread. 3,749,583, 7-31-73, Cl. 99-59.000.
Cox, David A.: *See—*
Leeming, Peter R.; Cross, Peter E.; Cox, David A.; and Augstein, Joachim, 3,709,892.
Cox, David Alexander: *See—*
Leeming, Peter Rodway; Cross, Peter Edward; Cox, David Alexander; and Augstein, Joachim, 3,767,819.
Cox, Donald Clyde; and Reudink, Douglas Otto John, to Bell Telephone Laboratories, Incorporated. Dynamic program control for channel assignment in mobile communications systems. 3,764,915, 10-9-73, Cl. 325-53.000.
Cox, Donald Clyde, to Bell Telephone Laboratories, Incorporated. Linear amplification with nonlinear devices. 3,777,275, 12-4-73, Cl. 330-10.000.
Cox, Edwin, Associates: *See—*
Davoud, John Gordon, 3,716,990.
Cox, Elmer Adrain; Tiner, Wayne Douglas; and Woods, Ritchey Paul, Jr., to Zachry, H. B., Co. Housing. 3,772,835, 11-20-73, Cl. 53-79.000.
Cox, Ernest Alfred: *See—*
Randell, Donald Richard; and Cox, Ernest Alfred, 3,720,616.
Cox, Ernest P. Apparatus for breaking wood waste into short pieces. 3,719,314, 3-6-73, Cl. 225-97.000.
Cox, Ernest P. Tractor-mounted wood waste breaking apparatus. 3,720,359, 3-13-73, Cl. 225-97.000.
Cox, Ernest P. Expandable hunting arrow. 3,738,657, 6-12-73, Cl. 273-106.50b.
Cox, Gordon Cavell, to Cox & Wright Limited. Dies for high frequency welding and cutting. 3,752,727, 8-14-73, Cl. 156-510.000.
Cox, Irvin W., to Cambridge Thermionic Corporation. Rotary stepping motor with laminated stator and rotor pole construction. 3,774,059, 11-20-73, Cl. 310-49.000.
Cox, Jack C.: *See—*
Gilchrist, Ralph E.; and Cox, Jack C., 3,755,189.
Cox, James R.; and Turner, Carlon N., to United States of America, Navy. Roller path inclination compensator. 3,737,630, 6-5-73, Cl. 235-61.50e.
Cox, James R., to Cox, Jim, Company. Form support bracket. 3,779,500, 12-18-73, Cl. 248-288.000.
Cox, James S., to United States of America, Commerce. Seafood peeler using rollers on an endless conveyor and a bank of inclined rollers. 3,740,795, 6-26-73, Cl. 17-73.000.
Cox, Jim, Company: *See—*
Cox, James R., 3,779,500.
Cox, John A., Jr., to Ideal Industries, Inc. Connector for flexible non-metallic conduit. 3,726,547, 4-10-73, Cl. 285-174.000.
Cox, John M.; Kunst, Robert J.; and Szala, Norman M., to Pullman Incorporated. Railway passenger vehicle step and door construction. 3,776,143, 12-4-73, Cl. 105-343.000.
Cox, John Michael; and Ghosh, Ranajit, to Imperial Chemical Industries Limited. Process for making compounds containing the sulfonyl cyanide group. 3,737,457, 6-5-73, Cl. 260-545.00r.
Cox, John William, to Compret N.V. Spring resistant type exercising device. 3,746,339, 7-17-73, Cl. 272-82.000.
Cox, John William, to Compret N.V. Resilient push-pull exerciser. 3,759,514, 9-18-73, Cl. 272-83.00r.
Cox, Karmen D.: *See—*
Sample, Steven B.; Scheuer, Paul R.; Speheger, Stevan W.; and Cox, Karmen D., 3,774,056.
Cox, Lawrence Alfred; and Dell, David James, to British Oxygen Company, Limited, The. Ventilators. 3,762,408, 10-2-73, Cl. 128-145.800.
Cox, Lawrence Alfred, to British Oxygen Company Limited, The. Ventilators. 3,768,468, 10-30-73, Cl. 128-145.800.
Cox, Lawrence J., to American La France, Inc., mesne. Cooling tower sprinkler nozzle. 3,768,736, 10-30-73, Cl. 239-504.000.
Cox, Lyndon S.; and Spyropoulos, Chris E., to United States of America, Army. Supersonic flow deflector and silencer. 3,759,134, 9-18-73, Cl. 89-14.00d.
Cox, Marion: *See—*
Chase, Harold E., 3,759,060.
Cox Michael Henry: *See—*
Deeks, Leslie Roy; and Cox Michael Henry, 3,713,408.
Cox, Norman D.; and McInnes, Alexander G. P., to International Research and Development Corporation. Lobster trap. 3,740,892, 6-26-73, Cl. 43-100.000.
Cox, Paul L., to Cox Atheletics, Inc. Exercise shoe. 3,739,500, 6-19-73, Cl. 36-2.50a.
Cox, Percy T.: *See—*
Richter, Albert P., Jr.; Bruner, James D.; and Cox, Percy T., 3,719,239.
Cox, Percy T.; and Richter, Albert P., Jr., to Texaco Inc. Calibrating a carrier erase magnetic tape analog recording system. 3,727,012, 4-10-73, Cl. 179-100.20k.
Cox, Philip P., to Dranetz Engineering Laboratories Inc. Phase meter with noise error reduction means. 3,725,781, 4-3-73, Cl. 324-83.00a.
Cox, Raymond W.: *See—*
Watkins, Phillip L.; Cox, Raymond W.; Carl, John M.; and Judd, John F., 3,747,046.
Cox, Richard M.; and Savatgy, Evan, to Bendix Corporation, The. Copper foil ferrite phase shifter. 3,758,883, 9-11-73, Cl. 333-24.100.
Cox, Robert J.: *See—*
Aviram, Arieh; Cox, Robert J.; and Young, William R., 3,767,289.
Clecak, Nicholas J.; and Cox, Robert J., 3,749,713.
Cox, Robert M.; Crowley, Ernest W.; and Kilmer, Dan L., to Servo Labs., Inc. Flow controller. 3,724,485, 4-3-73, Cl. 137-117.000.
Cox, Rodney S. Universal joint trailer hitch with coupling pin socket aligning and bearing means. 3,730,557, 5-1-73, Cl. 280-504.000.
Cox, Ronald H.; and Strack, Hans A., to Texas Instruments, Incorporated. Ohmic contacts for gallium arsenide semiconductors. 3,765,880, 10-16-73, Cl. 75-173.00r.
Cox, Russell, to Square D Company. Safety switch operating mechanism. 3,768,321, 10-30-73, Cl. 74-97.000.
Cox, Terence; and Featherstone, William, to Imperial Chemical Industries Limited. Concentrating aqueous acetone. 3,720,717, 3-13-73, Cl. 260-593.00p.
Cox, Thomas L., to J & J Manufacturing Company. Packaging method and machine. 3,748,811, 7-31-73, Cl. 53-28.000.



Cox, Thomas L.; and Rodriguez, David G., to J & J Manufacturing Company. Palletizing apparatus. 3,757,966, 9-11-73, Cl. 214-6.00p.
Cox, William L.: *See—*
Leshin, Richard; and Cox, William L., 3,780,038.
Coxe, Frank S.; and Eguchi, Ronald G., to Northrop Corporation. Vehicle guidance system utilizing conical scan control beam. 3,746,280, 7-17-73, Cl. 244-3.130.
Coxon, George Eric; and Rees, John Michael, to Thorn Electrical Industries Limited. Production of tungsten halogen lamps. 3,738,729, 6-12-73, Cl. 316-3.000.
Coy, Donald C.: *See—*
Murray, Glen W.; and Coy, Donald C., 3,720,336.
Coyle, Edward L.; and Schipper, Dennis J., to ACF Industries, Incorporated. Railway car having a heated fresh air intake. 3,731,053, 5-1-73, Cl. 219-202.000.
Coyne, Francis P., to Ingersoll-Rand Company. Motorized tool assembly for drill rods. 3,771,389, 11-13-73, Cl. 81-54.000.
Coyne, Hugh J.: *See—*
Weber, Jonathan T.; Brofft, B. Warren; and Coyne, Hugh J., 3,770,287.
Coyne, James Christopher, to Bell Telephone Laboratories, Incorporated. Mole guidance system. 3,712,391, 1-23-73, Cl. 175-26.000.
Coyne, James Christopher, to Bell Telephone Laboratories, Incorporated. Mole hammer-cycle control. 3,759,335, 9-18-73, Cl. 173-91.000.
Coyne, Roy J.: *See—*
Lombardi, Louis J.; Coyne, Roy J.; and Green, Charles E., 3,781,275.
Coyne, William E.: *See—*
Cusic, John W.; and Coyne, William E., 3,709,947.
Cusic, John W.; and Coyne, William E., 3,734,971.
Mendel, Arthur; and Coyne, William E., 3,719,687.
Cozert, Albert J., Jr., to Owens-Illinois, Inc. Mold knurling tool. 3,765,208, 10-16-73, Cl. 72-81.000.
Cozewith, Charles: *See—*
Gardner, Irwin J.; and Cozewith, Charles, 3,718,632.
Cozewith, Charles; and Tornqvist, Erik G. M., to Esso Research and Engineering Company. Butadiene polymerization catalyst. 3,779,944, 12-18-73, Cl. 252-429.00b.
Cozewith, Charles; and Robison, Samuel B., to Esso Research and Engineering Company. Catalyst for the production of copolymer. 3,780,005, 12-18-73, Cl. 260-88.20r.
Cozza, Giorgic; Piccolo, Luigi; and Bottai, Gabriele, to Societa Italiana Resine S.p.A. Process for producing sodium sulphate. 3,773,911, 11-20-73, Cl. 423-551.000.
Cozza, Giorgio; Scaglia, Carlo; and Barilli, Filippo, to Societa Italiana Resine S.p.A. Process for manufacturing sodium phosphates. 3,752,879, 8-14-73, Cl. 423-315.000.
Cozzarin, Virgil J.: *See—*
Kipple, Harry P.; Cozzarin, Virgil J.; and Kapperman, Francis C., 3,732,066.
Kipple, Harry P.; Cozzarin, Virgil J.; and Kapperman, Francis C., 3,752,116.
Kipple, Harry P.; Kapperman, Francis C.; and Cozzarin, Virgil J., 3,769,756.
Cozzens, Jerold E., to Ray-Ban Solarscreen, Inc. Head covering having metallic reflecting surface. 3,766,565, 10-23-73, Cl. 2-200.000.
Cozzoli Machine Company: *See—*
Darish, Joseph R., 3,731,716.
Green, George D.; and Weiner, Jerold S., 3,708,947.
Cozzy, Thomas W.; and Pettinga, Robert, to General Electric Company. Bolt assembly having a collar rotatable thereon to activate the bolt lock and sear the firing pin. 3,766,821, 10-23-73, Cl. 89-12.000.
Cozzy, Thomas William; and Pettinga, Robert, to General Electric Company. Auto-synchronizing gear system. 3,752,035, 8-14-73, Cl. 89-13.00r.
CPC International Inc.: *See—*
Brown, Bernard Beau; and Swidinsky, John, 3,755,378.
Caracci, Joseph R.; Germino, Felix Joseph; and Yoshida, Tokuji Daniel, 3,751,410.
Deaton, Irving Fransen, 3,756,919.
Germino, Felix J.; and Caraccia, Joseph R., 3,717,475.
Gooding, Chester Martin; Parker, Wilbur; and Melnick, Daniel, 3,766,226.
Harms, Van Deursen; Jensen, Edward R.; and Langan, Robert E., 3,753,729.
Headley, Verl E., 3,734,752.
Heady, Robert E.; and Jacaway, William A., Jr., 3,770,589.
Hicks, James P.; Gramera, Robert E.; and Molotsky, Hyman M., 3,723,412.
Johnson, Calvin K.; and Laitar, Robert A., 3,755,229.
Kuncic, Robert John, 3,728,225.
Meyer, Gilbert R., 3,756,853.
Molotsky, Hyman M., 3,743,621.
Ornstein, Charles; Corson, Floyd L.; and Schenck, Fred W., 3,762,947.
CPC International, Inc., mesne: *See—*
Walon, Raoul Guillaume Philippe, 3,755,294.
CPI, Inc.: *See—*
Choate, James Robert, 3,754,846.
Choate, James Robert, 3,754,848.
CPS Associates, Inc.: *See—*
Coleman, Aaron H.; and Stewart, Hugh W., 3,754,459.
Coleman, Aaron H.; and Stewart, Hugh W., 3,781,816.
Crabaugh, Kenneth G.; and Templeman, Arthur R., to Vendo Company, The. Selectable price-volume dispensing apparatus. 3,736,809, 6-5-73, Cl. 74-483.0pb.
Crabb, Donald Eugene: *See—*
Johnson, Erlon Fitch; Gerber, Jay Calvin; and Crabb, Donald Eugene, 3,745,512.
Johnson, Erlon Fitch; and Crabb, Donald Eugene, 3,753,216.
Crabb, Jasper R., to Ag-Pak, Inc. Automatic bagging machine. 3,731,454, 5-8-73, Cl. 53-55.000.
Crabb, William A., to Ametek, Inc. Stator lead anchoring and splice-insulating slot insulator structure and method. 3,748,511, 7-24-73, Cl. 310-71.000.
Crabb, William A.; and Flynn, James L., to Ametek, Inc. Stator lead anchoring slot insulator. 3,748,512, 7-24-73, Cl. 310-71.000.
Crabbe, Pierre; and Fried, John H., to Syntex Corporation. Preparation of 17alpha-propadienyl steroids. 3,728,364, 4-17-73, Cl. 260-397.400.
Crabtree, Allen: *See—*
Austin, Peter William; Crabtree, Allen; Leng, John Lindley; Robert, Denis; Ridyard, Annesley; and Young, Elliott, 3,725,383.
Austin, Peter William; and Crabtree, Allen, 3,729,476.
Austin, Peter William; and Crabtree, Allen, 3,763,170.
Crabtree, Bruce L., Sr.: *See—*
Bronson, Orville P.; and Crabtree, Bruce L., Sr., 3,780,456.
Crabtree, Robert W., Jr., to Olin Corporation. Power control for powder-actuated tool. 3,746,235, 7-17-73, Cl. 227-10.000.
Crabtree, Royale R.: *See—*
Beeker, Charles W.; and Crabtree, Royale R., 3,720,902.
Crabtree, Willie A.: *See—*
Thiess, George H.; and Crabtree, Willie A., 3,760,582.
Crachy, Rudolf; and Jacoby, Hans, to Werkzeugmaschinenfabrik Gildemeister & Comp., Aktiengesellschaft. Bearing, centering and indexing means for the spindle carriers of multiple spindle machines. 3,735,460, 5-29-73, Cl. 29-48.500.
Cracknell, Alan George: *See—*
Rutherford, Frank; Arenson, Ivor Gerald; Cracknell, Alan George; Foulds, William Henry; and Derrick, Albert, 3,709,577.
Craddock, Mike. Oil field secondary. 3,764,854, 10-9-73, Cl. 317-68.000.
Craford, Magnus George: *See—*
Groves, Warren Olley; Herzog, Arno Henry; and Craford, Magnus George, 3,725,749.
Craft, David J., to International Business Machines Corporation. Connect modules. 3,710,348, 1-9-73, Cl. 340-112.500.
Craft, Donald William; and Porter, Francis J., Jr., to General Electric Company. Electro-chemical ion exchange membrane purge pump. 3,775,282, 11-27-73, Cl. 204-266.000.
Craft, Jack, to RCA Corporation. Muting circuit. 3,714,583, 1-30-73, Cl. 325-348.000.
Craft, James Alexander, to International Business Machines Corporation. Selective cut sheet feed device. 3,756,586, 9-4-73, Cl. 271-9.000.
Craft, Leonard F. Rotary internal combustion engine. 3,712,274, 1-23-73, Cl. 123-8.490.
Craft, Roger L., to FMC Corporation, mesne. Tire mounting tool. 3,717,193, 2-20-73, Cl. 157-1.300.
Craft, Roger L., to Gray Manufacturing Company, Inc. Two-speed pump. 3,775,027, 11-27-73, Cl. 417-214.000.
Craft, Roger L.; and Gaarder, Gilbert W., to Gray Manufacturing Company, Inc. Low profile jack for fork lift trucks. 3,780,987, 12-25-73, Cl. 254-8.00r.
Craft Systems, Inc.: *See—*
Johnston, Mack S., 3,743,145.
Craft, William Henry; and Schonhorn, Harold, to Bell Telephone Laboratories, Incorporated. Bonding substance for the fabrication of integrated circuits. 3,770,531, 11-6-73, Cl. 156-3.000.
Craftings, Inc.: *See—*
Burridge, Robert E.; and Everson, Peter O., 3,778,611.
Craftmaster, Inc.: *See—*
Smith, Raymond P., Jr., 3,741,233.
Craftool Company, Inc., The: *See—*
Stars, William K., 3,738,395.
Cragar Industries, Inc.: *See—*
Droke, Darrell W.; Ochampaugh, Donald R.; and Krumm, Andrew G., 3,776,211.
Richter, Roy E., 3,759,576.
Cragg, William D.; Dymoke-Bradshaw, Leslie E. B.; Batchelor, Anthony C.; and Carter, Ronald D., to International Standard Electric Corporation. Headset. 3,781,492, 12-25-73, Cl. 179-156.00a.

Craggs, Lester R., to Arvin Industries, Inc. Magnetic disc recorder with a carriage for receiving and moving a cassette into playing position. 3,770,908, 11-6-73, Cl. 179-100.20a.
Cragoe, Edward J., Jr., to Merck & Co., Inc. 1-Cyano-2-substituted ethenesulfonamides. 3,729,500, 4-24-73, Cl. 260-465.00d.
Cragoe, Edward J., Jr.; and Woltersdorf, Otto W., Jr., to Merck & Co., Inc. Anthranilic acid derivatives. 3,780,027, 12-18-73, Cl. 260-239.006.
Cragoe, Edward J., Jr., to Merck & Co., Inc. Diuretic formulations. 3,781,430, 12-25-73, Cl. 424-246.000.
Craig, Alan D.; and Lukach, Carl A., to Hercules Incorporated. Propellant charge for caseless ammunition. 3,723,203, 3-27-73, Cl. 149-19.000.
Craig, Burnie M.; and Anderson, Irvin O., Jr., to Cox, Arthur, & Sons, Inc. Door hanger. 3,747,158, 7-24-73, Cl. 16-105.000.
Craig, Dwin R., to Symbionics, Inc. Microscopic optical comparison device. 3,713,720, 1-30-73, Cl. 350-30.000.
Craig, Dwin R., to Dynatronics, Inc., mesne. Anti-glare light box. 3,714,413, 1-30-73, Cl. 240-9.500.
Craig, Dwin R., to Ingenuics, Inc. Emitter location mapping device. 3,735,415, 5-22-73, Cl. 346-33.00b.
Craig, Dwin R., to Ingenuics, Inc. Feed mechanism and conically-shaped mandrel having tacky surface supporting web on its edge. 3,743,563, 7-3-73, Cl. 156-391.000.
Craig, Dwin R., to Symbionics, Inc. Optical comparison device using an optical diffuser. 3,744,917, 7-10-73, Cl. 356-168.000.
Craig, Dwin Richardson, to Balac, Joseph F. and Tolosa, Felix P. Malleable exposure slit for a continuous strip photographic printer. 3,722,980, 3-27-73, Cl. 355-83.000.
Craig, Floyd W. Boot bag. 3,749,232, 7-31-73, Cl. 206-7.00g.
Craig, Fred A.: *See—*
Ross, Lee F.; Wilkinson, James E.; Craig, Fred A.; and Hudson, Allan M., 3,736,089.
Craig, Fred A.; and Hudson, Allan M., to Thiokol Chemical Corporation. Cutoff mechanism for strip molding. 3,738,215, 6-12-73, Cl. 83-289.000.
Craig, Fred A., to FMC Corporation. Two-way pressure hatch and latching means therefor. 3,748,785, 7-31-73, Cl. 49-394.000.
Craig, Gale M., to General Motors Corporation. Moisture barrier for sealed beam headlamp construction. 3,725,698, 4-3-73, Cl. 240-41.0sb.
Craig, Leonard Jack. Random access time-shaped microform image recovery apparatus. 3,751,006, 8-7-73, Cl. 353-25.000.
Craig, Paul N.; and Zirkle, Charles L., to Smithkline Corporation. Substituted 10-piperazinoalkyl anthracenes. 3,766,183, 10-16-73, Cl. 260-268.0tr.
Craig, Philip V. C., to Telemation Inc. Color television camera encoder matrix with summation of two color video current signals and a constant current signal. 3,715,470, 2-6-73, Cl. 178-5.40r.
Craig, Philip V. C., to Telemation, Inc. Color television encoder modulator. 3,721,755, 3-20-73, Cl. 178-5.40r.
Craig, Preston S.: *See—*
Berry, Walter L., Jr.; Nisonger, Dan P.; and Craig, Preston S., 3,715,379.
Craig, Richard W.: *See—*
Walker, Frank H.; and Craig, Richard W., 3,722,321.
Craig, Sam N.; Warner, Ellis R., Jr.; and Buckman, Wayne T., to Wascon Systems, Inc. Pulping apparatus. 3,713,595, 1-30-73, Cl. 241-46.110.
Craig, Sam N.; Warner, Ellis R., Jr.; and Buckman, Wayne T., to Wascon Systems, Inc. Waste disposal apparatus. 3,716,197, 2-13-73, Cl. 241-43.000.
Craig Systems Corporation: *See—*
Mautner, Steven E., 3,709,733.
Craig, Theodore W.; Henika, Richard G.; and Hoyer, William H., to Patent Technology, Inc., mesne. Macaroni process. 3,762,931, 10-2-73, Cl. 99-85.000.
Craig, Warren J. Machine for extracting meat from crab sections. 3,719,967, 3-13-73, Cl. 17-71.000.
Craig, William Allan, to Imperial Chemical Industries Limited. Slurry explosives. 3,728,175, 4-17-73, Cl. 149-29.000.
Craig, William Allan, to Imperial Chemical Industries Limited. Aqueous gel for slurry explosives composition and method of preparing said gel. 3,734,864, 5-22-73, Cl. 252-315.000.
Craik, Darrel W., to Teledyne Inc. Interlocking panel assembly. 3,733,767, 5-22-73, Cl. 52-529.000.
Craik, Darrel W., to Teledyne, Inc. Method of manufacturing sealing rings. 3,757,413, 9-11-73, Cl. 29-557.000.
Crail, Ian Robert Henry: *See—*
Elliott, John Scotchford; Crail, Ian Robert Henry; and Jayne, Gerald John Joseph, 3,725,434.
Crain Cutter Company, Inc.: *See—*
Crain, Millard, Jr., 3,760,499.
Crain, Millard, Jr., 3,765,282.
Crain, Donald L.: *See—*
Harrison, Roy C.; and Crain, Donald L., 3,709,850.
Ray, Gardner C.; and Crain, Donald L., 3,715,410.
Crain, George W., to Minnesota Mining and Manufacturing Company. Loom reed. 3,746,053, 7-17-73, Cl. 139-192.000.
Crain, Graydon H. Mooring structure and method. 3,724,222, 4-3-73, Cl. 61-46.000.
Crain, Millard, Jr., to Crain Cutter Company, Inc. Apparatus for cutting plugs from carpets. 3,760,499, 9-25-73, Cl. 30-130.000.
Crain, Millard, Jr., to Crain Cutter Company, Inc. Method and apparatus for cutting plugs from carpets. 3,765,282, 10-16-73, Cl. 83-13.000.
Crain, Norman R., to Lucas Radiator and Refrigeration, Inc. Auxiliary engine cooling apparatus. 3,769,947, 11-6-73, Cl. 123-41.010.
Crain, Philip W.: *See—*
Bosley, Denis V.; Crain, Philip W.; Douglas, Raymond J.; Loomis, Bernard; Schlau, Floyd E.; and Staats, William A., 3,716,940.
Crain, R. L., Limited: *See—*
Dorrow, Henry E., 3,720,561.
Crain, Rita M. Garmet bag. 3,708,005, 1-2-73, Cl. 150-30.000.
Craine, Joseph B.: *See—*
Malinow, Sidney; and Craine, Joseph B., 3,708,312.
Crall, Donald H. System for reefing and furling staysails. 3,749,043, 7-31-73, Cl. 114-106.000.
Cralle, Walter O., Jr.; and Lennon, Kenneth A., to International Business Machines Corporation. Copy machine with predetermined counter. 3,710,079, 1-9-73, Cl. 235-91.00r.
Cram, Robert Dana, to High Voltage Engineering Corporation. Method of intimately bonding thermoplastics. 3,769,132, 10-30-73, Cl. 156-286.000.
Cramblet, Charles D. Retractable hinge structure for a truck tailgate. 3,734,560, 5-22-73, Cl. 296-50.000.
Cramer, Bernhard; Singen, Heinrich Deimling; and Hauf, Rudi, to International Standard Electric Corporation. Punched card reader with a drum-shaped, rotatable card magazine. 3,732,400, 5-8-73, Cl. 235-61.11b.
Cramer, Bernhard; and Schilling, Helmut W., to International Standard Electric Corporation. Photoelectric keyboard for data input devices or the like. 3,750,150, 7-31-73, Cl. 340-365.00p.
Cramer, Bernhard; and Andrich, Wolfgang, to International Standard Electric Corporation. Data input system for an electrical machine. 3,777,155, 12-4-73, Cl. 250-229.000.
Cramer, Bernhard; Domig, Herbert; Von Keller, Theodor; and Schmeykal, Rudolf, to International Standard Electric Corporation. Device for character recognition. 3,781,800, 12-25-73, Cl. 340-146.30f.
Cramer, Deane G., to PPG Industries, Inc. Window structure. 3,725,028, 4-3-73, Cl. 65-182.00r.
Cramer, Fred C.; and Kelley, Calvin E., to United States Steel Corporation. Linearly movable gate mechanism. 3,765,579, 10-16-73, Cl. 222-512.000.
Cramer, Harold W. Chair. 3,741,607, 6-26-73, Cl. 297-302.000.
Cramer, Harold W. Step stool structure. 3,743,051, 7-3-73, Cl. 182-15.000.
Cramer, Howard A., to Lowrance Electronics Mfg., Corporation. Trolling motor with steering means. 3,723,839, 3-27-73, Cl. 318-15.000.
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Cramer, Joseph F.; and Nickerson, Douglas W., to Motorola, Inc. Stable low current amplifier. 3,733,558, 5-15-73, Cl. 330-17.000.
Cramer, Robert L.; and Henneman, John W., to Bendix Corporation, The. System for enriching inhalable air with oxygen. 3,720,501, 3-13-73, Cl. 23-281.000.
Cramer, Robert L.; Henneman, John W.; and Myers, William P., to Bendix Corporation, The. Means for anticipating anti-G force in a moving vehicle. 3,734,078, 5-22-73, Cl. 128-1.00a.
Cramer, Robert L., to Bendix Corporation, The. Inflatable life raft. 3,768,761, 10-30-73, Cl. 244-138.00r.
Cramer, Roy A., Jr. Method and apparatus for storing and dispensing effervescent beverages. 3,722,756, 3-27-73, Cl. 222-212.000.
Cramer, Rudolph E.; Van Der Viliet, Cornelis; and Ouwerkerk, Johannes H. W., to Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V. Cooled furnace and a cooling system therefor. 3,750,629, 8-7-73, Cl. 122-6.00r.
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Crandall, Julian T., to Ashaway Line & Twine Mfg. Co. Construction of tennis strings. 3,745,756, 7-17-73, Cl. 57-149.000.
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Crandall, Richard N. Method and apparatus for comminuting. 3,777,993, 12-11-73, Cl. 241-15.000.
Crandall, Robert E.; and Eggert, Glenn J., to Rex Chainbelt Inc. Air conveyor. 3,773,391, 11-20-73, Cl. 302-31.000.
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Crane, Walton B., to Allied Plastics Company. Handle for produce container. 3,750,936, 8-7-73, Cl. 229-52.0aw.
Crane, William B., Jr. Automatic plant watering device. 3,758,987, 9-18-73, Cl. 47-38.100.
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Cranston, Benjamin Howell, to Western Electric Company, Incorporated. Explosive metal-working process. 3,739,614, 6-19-73, Cl. 72-56.000.
Cranston, Benjamin Howell, to Western Electric Company, Incorporated. Apparatus for bonding leads and testing bond strength. 3,765,845, 10-16-73, Cl. 29-191.600.
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Crary, Ely J. Contact lens inserter. 3,743,337, 7-3-73, Cl. 294-1.0ca.
Crary, James W.; and Tarney, Robert Edward, to Du Pont de Nemours, E. I., and Company. Dehydrohalogenation process. 3,755,476, 8-28-73, Cl. 260-655.000.
Crast, Leonard Bruce, Jr., to Bristol-Myers Company. 7-[D-(α-Amino-α-phenylacetamido)]-3-(5-methyl-1, 3,4-oxadiazol-2-ylthiomethyl)-3-cephem-4-carboxylic acid and salts thereof. 3,734,907, 5-22-73, Cl. 260-243.00c.
Crast, Leonard Bruce, Jr., to Bristol-Myers Company. 7-[D-(a-amino-a-phenylacetamido)] 3-(3-methyl-1,2,4-thiadiazol-5-ylthiomethyl)-3-cephem-4-carboxylic acid and salts thereof. 3,757,012, 9-4-73, Cl. 260-243.00c.
Crast, Leonard Bruce, Jr., to Bristol-Myers Company. 7-[D-(α-Amino-α-phenyl-acetamido)]-3-[S-(5-hydroxymethyl -1,3,4-oxadiazol-2-yl)thiomethyl]-3-cephem-4-carboxylic acid and salts. 3,757,014, 9-4-73, Cl. 260-243.00c.
Crast, Leonard Bruce, Jr., to Bristol-Myers Company. 7-[D-(α-Amino-α-phenyl-, 2-thienyl- and 3 thienyl-acetamido]-3-[S-(2-methyltetrazole-5-yl) thiomethyl]-3-cephem-4-carboxylic acids. 3,757,015, 9-4-73, Cl. 260-243.00c.
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Crawford, Arthur R.; Barnett, Glenroy W.; Porter, Richard E.; and Pottebaum, Joseph R., to Production Measurements. Average timing method and apparatus for internal combustion engines. 3,753,082, 8-14-73, Cl. 324-16.00r.
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Crawford, Jimmie W.; and White, Ronald, to United States of America, Air Force. Solid cryogen heat transfer apparatus. 3,745,785, 7-17-73, Cl. 62-388.000.
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Crawford, Richard W.; Rigdon, Lester P.; and Thompson, Richard J., to United States of America, Atomic Energy Commission. Method and reagent for determining nitrogen oxides. 3,776,697, 12-4-73, Cl. 23-232.00r.
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Crawford, Robert H.; and Smith, Marvin W., to Texas Instruments, Incorporated. MOS memory decode. 3,717,868, 2-20-73, Cl. 340-347.0dd.
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Cremeans, George E.; Berry, David A.; Rosenberg, Harvey S.; Genco, Joseph M.; and Morrison, David L., to United States of America, Atomic Energy Commission. Scavengers for radioactive iodine. 3,730,833, 5-1-73, Cl. 176-37.000.
Cremer, Gottfried: *See—*
Novotny, Antonin; Cremer, Gottfried; and Heimann, Ewald, 3,711,189.
Cremer, Walter; and Stanke, Walter, to Head Wrightson and Company, Limited. Apparatus for cooling hot material in bulk. 3,739,495, 6-19-73, Cl. 34-187.000.
Cremisio, Richard S.; and Brabec, Charles J., to Contour Saws, Inc. Bi-metal saw blade stock and method of making the same. 3,766,808, 10-23-73, Cl. 76-112.000.
Cremona, Angelo. Veneer slicer machine. 3,750,725, 8-7-73, Cl. 144-178.000.
Crener, Bengt Olof; Blaeldh, Erik Arne; and Ernolf, Stig Carl-Oskar, to Aktiebolaget Electrolux. Surface treating apparatus. 3,742,546, 7-3-73, Cl. 15-50.00r.
Crennan, Timothy P.; and Jadoiss, Donald B. G., to General Electric Company. High ignition temperature polymers substituted with halogen substituted aromatic groups. 3,751,400, 8-7-73, Cl. 260-47.0xa.
Crenne, Noel: *See—*
Brunie, Jean-Claude; and Crenne, Noel, 3,708,506.
Brunie, Jean-Claude; and Crenne, Noel, 3,716,563.
Brunie, Jean-Claude; Costantini, Michel; Crenne, Noel; and Jouffret, Michel, 3,719,706.
Brunie, Jean-Claude; Costantini, Michel; Crenne, Noel; and Jouffret, Michel, 3,726,916.
Brunie, Jean-Claude; Costantini, Michel; Crenne, Noel; and Jouffret, Michel, 3,726,917.
Brunie, Jean-Claude; Constantini, Michel; Crenne, Noel; and Jouffret, Michel, 3,751,480.
Brunie, Jean-Claude; Costantini, Michel; Crenne, Noel; and Jouffret, Michel, 3,772,375.
Crenstein & Koppel Aktiengesellschaft: *See—*
Kollmann, Wolfgang; and Schwappach, Dieter, 3,715,039.
Crepeau, Robert G., to Allen-Bradley Company. Sealed limit switch. 3,749,860, 7-31-73, Cl. 200-47.000.
Crepin, Jean-Claude, to Choay S.A. Advancing mechanism. 3,762,228, 10-2-73, Cl. 74-128.000.
Crepinsek, Alois, to Security Technology Corporation. Door stile lock and latch bolt assembly. 3,740,979, 6-26-73, Cl. 70-139.000.
Crepinsek, Alois, to Security Technology Corporation. Lock assembly of the rotory cylinder type. 3,777,520, 12-11-73, Cl. 70-358.000.
Crescent Metal Products, Inc.: *See—*
Baggott, George T., 3,763,368.
Crescent Toy Company Limited, The: *See—*
Eagles, Harry John William, 3,777,386.
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Crescentini, Lamberto: *See—*
Lofquist, Robert Alden; Crescentini, Lamberto; and Winklhofer, Charles, 3,709,865.
Weedon, Gene C.; and Crescentini, Lamberto, 3,755,497.
Crescenzi, Vittorio; Ciana, Antonio; Russo, Elio; Siancotti, Vincenzo; and Salvestrini, Luciano, to Snam Progetti S.p.A. Diketopiperazine ring containing compounds and process for preparing same. 3,763,091, 10-2-73, Cl. 260-47.0cz.
Crescenzo, Frank G.: *See—*
Julian, Elmo C.; Crescenzo, Frank G.; and Meyers, Robert C., 3,753,811.
Crescenzo, Frank G.; Gey, William A.; and Wiebke, Armin T., to United States of America, Navy. Dispersal technique for CW/BW agents. 3,713,383, 1-30-73, Cl. 102-6.000.
Crespo, Carlos A. Connecting flange arrangement of submersible pump for fixed discharge outlet. 3,771,914, 11-13-73, Cl. 417-360.000.
Cress, Steven B.: *See—*
United States of America, National Aeronautics and Space Administration, 3,760,239.
Cressman, George W., to General Electric Company. Arc-gap construction for flashing high-voltage photoflash lamps. 3,738,791, 6-12-73, Cl. 431-95.000.
Cressman, Robert C.: *See—*
Schumacher, Walter C.; and Cressman, Robert C., 3,723,941.
Cressman, Robert C.; and Sheldon, Luther M., to General Electric Company. Strain relief for angle plug. 3,747,049, 7-17-73, Cl. 339-107.000.
Cresswell, Alan, to Decafix Limited. Atomisers. 3,741,484, 6-26-73, Cl. 239-424.000.
Cresswell-Clough, Derrick. Ticket vending machine. 3,750,790, 8-7-73, Cl. 194-2.000.
Crest, Hazel: *See—*
Foster, Herbert G., Jr.; Crest, Hazel; and Frederick, Charles D., 3,761,284.
Crest/Good Manufacturing Company: *See—*
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Cresti, Aldo: *See—*
Badin, Elmer J.; Kerschner, Paul M.; and Cresti, Aldo, 3,765,850.
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Crestmark Products Company Incorporated: *See—*
Goethe, Robert L.; and Green, Robert R., 3,755,841.
Cretors, C., & Co.: *See—*
Cretors, Charles D., 3,739,953.
Cretors, Charles D., to Cretors, C., & Co. Popcorn oil metering device. 3,739,953, 6-19-73, Cl. 222-318.000.
Cretten, Jean Paul. Vehicle lighting. 3,743,886, 7-3-73, Cl. 315-83.000.
Creusot-Loire: *See—*
Godines, Henri, 3,779,521.
LeJeune, Pierre, 3,741,865.
Lippmann, Jean Pierre, 3,761,582.
Llop, Helenio, 3,739,630.
Namy, Philippe, 3,730,254.
Pere, Gerard, 3,739,600.
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Creusot-Loire a Societe Anonyme: *See—*
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Creusot-Loire Entreprises: *See—*
Gay, Pierre, 3,724,735.
Creutz, Hans Gerhard, to Oxy Metal Finishing Corporation, mesne. Zinc plating. 3,748,237, 7-24-73, Cl. 204-55.00r.
Creutz, Hans-Gerhard, to Oxy Metal Finishing Corporation. Electrodeposition of copper from acidic baths. 3,770,598, 11-6-73, Cl. 204-52.00r.
Creutzburg, Gerhard: *See—*
Ackermann, Hans; and Creutzburg, Gerhard, 3,723,425.
Horlacher, Paul; and Creutzburg, Gerhard, 3,728,275.
Creuzet, Robert. Extrusion machine. 3,748,885, 7-31-73, Cl. 72-269.000.
Crews, Sam T.: *See—*
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Crewson, Walter F. J.: *See—*
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Crhonek, Oldrich: *See—*



Zabrodsky, Zdenek; Crhonek, Oldrich; Sebela, Jiri; and Mares, Crissy, Robert J., to NJM, Inc. System of and apparatus for printing

Zabrodsky, Zdenek; Crhonek, Oldrich; Sebela, Jiri; and Mares, Milos, 3,729,029.

Cribb, Herbert E., to United States of America, National Aeronautics and Space Administration. Collapsible high gain antenna. 3,737,912, 6-5-73, Cl. 343-880.000.

Cribben, James T., to Capitol Products Corporation. Decorative metal grid system for windows. 3,748,814, 7-31-73, Cl. 52-668.000.

Cribben, James T.; and Miller, Joseph J., to Capitol Products Corporation. Interlock threshold. 3,774,343, 11-27-73, Cl. 49-467.000.

Cribbens, Alan H., to British Railways Board. Vehicle orientation determination. 3,778,761, 12-11-73, Cl. 340-39.000.

Cribbs, John A., to Data Card Corporation, mesne. Character recognition method and system with leading/trailing edge control. 3,714,630, 1-30-73, Cl. 340-146.30j.

Cribbs, John A.; Abeling, Arthur B.; and Breeden, Kenneth H., to Data Card Corporation, mesne. Character recognition method and system with strobe control. 3,714,632, 1-30-73, Cl. 340-146.3wd.

Cricchi, James R., to Westinghouse Electric Corporation. Non-volatile memory element. 3,733,591, 5-15-73, Cl. 340-173.00r.

Crick, Virlon, to United States of America, Air Force. Independent self adjusting vibration damper. 3,723,023, 3-27-73, Cl. 416-219.000.

Criddle, Ernest E., to Canada, Her Majesty the Queen in the right of, as represented by the Minister of National Defence. Method and means for providing a clean area. 3,719,136, 3-6-73, Cl. 98-36.000.

Crider, Ernest L. Ice dispensing machine. 3,717,286, 2-20-73, Cl. 222-143.000.

Crider, Ernest L. Automatic dispenser for toothpaste and the like. 3,753,516, 8-21-73, Cl. 222-95.000.

Criffield, Melvin E., to General Electric Company. Gas turbine engine fuel drain system and cooperating valve and pump means. 3,774,394, 11-27-73, Cl. 60-39.090.

Crigger, Ralph Dean. Angularly adjustable cymbal mounting. 3,742,810, 7-3-73, Cl. 84-422.000.

Criley, Ronald L.: *See—*
Russell, George K.; Criley, Ronald L.; and Frost, Richard H., 3,738,456.

Crim, Ivan H.: *See—*
Pittman, Clarence E.; and Crim, Ivan H., 3,741,472.

Crimmins, James W.; and Pankey, Russell. Microwave receiver and component therefor. 3,713,038, 1-23-73, Cl. 333-82.00b.

Crimmins, James W.; and Hartman, Peter W., to Data Transmission Sciences, Inc. Security phone. 3,775,562, 11-27-73, Cl. 179-1.50r.

Crimmins, William M.; Murphy, Patrick J.; Zachev, Ivan; and Grosvenor, Herbert Don, to Brunswick Corporation. Foul detecting system for a bowling game. 3,743,290, 7-3-73, Cl. 273-50.000.

Crinos Industria Farmacobiologica S.p.A.: *See—*
Butti, Adriano; Prino, Giuseppe; and Bertellini, Gianfranco, 3,770,720.

Cripe, Gordon L., to Knudsen, Morrison, Company, Inc. Motor grader with device for guiding vehicle along a pair of parallel rails. 3,731,410, 5-8-73, Cl. 37-104.000.

Cripe, Maxwell L.: *See—*
Grabb, Frederick G.; Cripe, Maxwell L.; and Gardner, Delbert J., 3,768,366.

Cripe, Maxwell L., to Bendix Corporation, The. Vacuum powered spring brake. 3,719,043, 3-6-73, Cl. 60-54.50p.

Cripe, Maxwell L., to Bendix Corporation, The. Frictional lock for dual ratio pedal device. 3,719,123, 3-6-73, Cl. 91-391.000.

Crippen, Huston D., to Coleswood Products, Inc. Automatic feeder device. 3,716,172, 2-13-73, Cl. 222-453.000.

Crippen, Huston D., to Coleswood Products, Inc. Automatic feeding device for animals. 3,742,913, 7-3-73, Cl. 119-51.110.

Crisa, Anthony. Automotive locking system. 3,750,430, 8-7-73, Cl. 70-1.500.

Crisafulli, Angelo J. Vertically adjustable centrifugal pump for use in manholes. 3,721,504, 3-20-73, Cl. 415-74.000.

Crisafulli, Angelo J. Oil skimmer module. 3,756,414, 9-4-73, Cl. 210-242.000.

Crisafulli, Angelo J. Backhoe attached pump. 3,779,670, 12-18-73, Cl. 417-231.000.

Crisafulli, Peter G., Sr. Inductor current relay switch. 3,736,913, 6-5-73, Cl. 123-148.00e.

Crisfino, Daniel P. Rotary cutter apparatus for roofing material. 3,721,470, 3-20-73, Cl. 299-39.000.

Crismani, Nerino. Simulated table football game. 3,741,541, 6-26-73, Cl. 273-85.000.

Crisp, Harold A.; Oughton, John F.; and Pearce, Graham A., to Glaxo Laboratories Limited. Process for the purification of cephalexin. 3,728,341, 4-17-73, Cl. 260-243.00c.

Crispe, Stanley William, to Simon-Vicars Limited. Biscuit handling machinery. 3,739,901, 6-19-73, Cl. 198-30.000.

Criss, George H., to Dresser Industries, Inc. Method of extruding silica compositions. 3,770,867, 11-6-73, Cl. 264-294.000.

Crissman, Roy G.: *See—*
Greenberg, Charles B.; and Crissman, Roy G., 3,723,155.

Crissy, Robert J., to NJM, Inc. System of and apparatus for printing business forms. 3,774,535, 11-27-73, Cl. 101-142.000.

Crist, Elmer E., to Beloit Corporation. Web dryer. 3,751,822, 8-14-73, Cl. 34-116.000.

Cristal, Edward G.; and Frankel, Sidney, to Stanford Research Institute. Microwave and UHF filters using discrete hairpin resonators. 3,745,489, 7-10-73, Cl. 333-70.00s.

Cristal, Edward G., to Stanford Research Institute. Meander-line impedance transformer. 3,754,197, 8-21-73, Cl. 333-33.000.

Cristea, Viorel: *See—*
Simonfi, Paul; and Cristea, Viorel, 3,779,734.

Cristescu, Laurentia: *See—*
Moldovan, Iuliu Virgil Florian; Cristescu, Laurentia; and Preda, Victoria, 3,755,545.

Cristiani, Athos, to AMF Incorporated. Pneumatic separator for a stream of cut tobacco. 3,727,755, 4-17-73, Cl. 209-45.000.

Cristiani, Athos, to AMF Incorporated. Apparatus for feeding and splicing tape-shaped materials. 3,738,587, 6-12-73, Cl. 242-58.100.

Cristie, Martin, to Stelber Industries Inc. Convertible bicycle. 3,724,865, 4-3-73, Cl. 280-7.110.

Cristofaro, Elvira: *See—*
Wuhrmann, Jean-Jacques; and Cristofaro, Elvira, 3,715,216.

Criswell, Dick M. Pressure equalizing valve. 3,716,072, 2-13-73, Cl. 137-510.000.

Criswell, Richard L., to Afton, Eloff, Jr. Frame attachment for remotely positioned jacks. 3,753,550, 8-21-73, Cl. 254-133.000.

Critcher, John L., 1/2 to Pippin, Reginald F., Jr. Watercraft. 3,726,245, 4-10-73, Cl. 114-61.000.

Critcher, John L., to AAI Corporation. Underwater pistol. 3,729,853, 5-1-73, Cl. 42-65.000.

Critchfield, Frank E.: *See—*
Ward, Robert J.; and Critchfield, Frank E., 3,761,439.

Critchfield, Frank E.; and Koleske, Joseph V., to Union Carbide Corporation. Graft copolymers of lactone polyesters. 3,760,034, 9-18-73, Cl. 260-874.000.

Critchley, John Edward: *See—*
Thompson, Joseph; Hemming, Raymond Charles; Critchley, John Edward; and Morrell, Ronald Joseph, 3,760,104.

Critelli, Louis J., Jr.: *See—*
Schaller, Joseph P.; Jorgensen, E. Chris; and Critelli, Louis J., Jr., 3,776,551.

Crites, Roger C., to McDonnell Douglas Corporation. Electret pressure transducer. 3,736,436, 5-29-73, Cl. 307-88.0et.

Critical Care Systems, Inc.: *See—*
Goicoechea, George Leandro, 3,757,082.

Crits, George J., to Crane Co. Method for condensate filtration and demineralization. 3,719,591, 3-6-73, Cl. 210-33.000.

Critser, Jack W., to Instronics Ltd. Line following apparatus. 3,721,881, 3-20-73, Cl. 318-568.000.

Crittenden, Eugene Casson, Jr.; King, Richard Allan; and Andrews, Thomas Clyde, to Litton Systems Inc. Target measurement system for precise projectile location. 3,727,069, 4-10-73, Cl. 250-222.00r.

Crittenden, Odell D. Carton stitching machine. 3,739,972, 6-19-73, Cl. 227-3.000.

Crivellaro, Gianbattista; and Oldani, Francesco, to Gruppo Lepetit S.p.A. Solid lubricant composition and method of preparation. 3,719,599, 3-6-73, Cl. 252-46.400.

Crivello, James V., to General Electric Company. Nitration of aromatic ring-containing compositions. 3,715,323, 2-6-73, Cl. 260-47.0et.

Crivello, James V.; and Seidenspinner, Ann L., to General Electric Company. Method for making polyimides and products produced thereby. 3,732,189, 5-8-73, Cl. 260-78.0va.

Crivello, James V., to General Electric Company. Polyimides from bis-maleimides and $H_2S$. 3,738,967, 6-12-73, Cl. 260-78.0ua.

Crivello, James V., to General Electric Company. Method for making polyimides from aliphatically unsaturated bis-imides. 3,740,378, 6-19-73, Cl. 260-78.0ua.

Crivello, James V., to General Electric Company. Polyimides. 3,741,942, 6-26-73, Cl. 260-78.0ua.

Crivello, James V., to General Electric Company. Polyimides. 3,766,138, 10-16-73, Cl. 260-470.00z.

Croan, Kenneth F. Artificial honeycomb for collecting and recovering honey. 3,758,896, 9-18-73, Cl. 6-10.000.

Croce, Louis J.: *See—*
Barone, Bruno J.; and Croce, Louis J., 3,715,391.
Barone, Bruno J.; and Croce, Louis J., 3,723,515.
Barone, Bruno J.; and Croce, Louis J., 3,723,518.

Croce, Louis J.; and Barone, Bruno J., to Petro-Tex Chemical Corporation. Promotion of the oxidation of mononuclear aromatic compounds. 3,708,531, 1-2-73, Cl. 260-523.00a.

Croce, Louis J.; and Barone, Bruno J., to Petro-Tex Chemical Corporation. Promotion of the oxidation of mononuclear aromatic compounds. 3,714,243, 1-30-73, Cl. 260-523.00a.

Croce, Louis J.; and Barone, Bruno J., to Petro-Tex Chemical Corporation. Promotion of the oxidation of mononuclear aromatic compounds. 3,715,390, 2-6-73, Cl. 260-523.00a.



Croce, Louis J.; Bajars, Laimonis; and Gabliks, Maigonis, to Petro-Tex Chemical Corporation. Oxidative dehydrogenation process. 3,743,683, 7-3-73, Cl. 260-680.000.

Croce, Louis J.; and Bajars, Laimonis, to Petro-Tex Chemical Corporation. Iron alloy catalyzed oxidative dehydrogenation. 3,778,488, 12-11-73, Cl. 260-680.00e.

Croci, Angelo: *See—*
Croci, Mauro; and Cavaterra, Enrico, 3,736,355.

Croci, Mauro; deceased (by Croci, Angelo; and Biagioni, Margherita; heirs); and Cavaterra, Enrico, to Montecatini Edison S.p.A. Process for the preparation of unsaturated acids. 3,736,355, 5-29-73, Cl. 260-533.00n.

Crocker, Charles W.; and Barton, Charles E., to Esso Production Research Company. Device for measuring strain in rotating bodies. 3,757,580, 9-11-73, Cl. 73-136.00a.

Crocker, Henry Peter, to Reckitt & Colman Products Limited. Process for the nuclear chlorination of aromatic amines in the para position. 3,754,034, 8-21-73, Cl. 260-578.000.

Crocker, Robert E.: *See—*
Butler, Stuart L.; and Crocker, Robert E., 3,713,062.

Crockett, Cyril C. Combination golf club and turf repair implement. 3,771,794, 11-13-73, Cl. 273-162.00f.

Crockett, David E.: *See—*
Haas, Charles B.; Taylor, Richard E.; Crockett, David E.; Miller, James F.; Paul, Howard R.; and Reid, Charles J., 3,769,876.

Crockett, Joseph T.: *See—*
Hackbarth, Lowell E.; and Crockett, Joseph T., 3,746,559.

Crockford, Geoffrey William, to National Research Development Corporation. Buoyancy garment. 3,747,141, 7-24-73, Cl. 9-341.000.

Crockford, Joseph R., to Kimberly-Clark Corporation. Arcuate tampon applicator. 3,765,417, 10-16-73, Cl. 128-263.000.

Croes, Nicolaus, to Brown Boveri & Company Limited. Aerodynamic pressure-wave machine. 3,776,663, 12-4-73, Cl. 417-64.000.

Croft, Brian Hugh, to Brico Engineering Limited. Fluid pressure regulating valves. 3,773,072, 11-20-73, Cl. 137-494.000.

Croisant, John A.; and Folts, Harold D., to Dow Chemical Company, The. Bearing holder. 3,709,571, 1-9-73, Cl. 308-27.000.

Croisettere, Joseph R. Marcel, to Northern Electric Company, Limited. Method and apparatus for strand winding and reeling. 3,721,393, 3-20-73, Cl. 242-25.00a.

Croisier, Alain; Esteban, Daniel J.; Levilion, Marc E.; and Riso, Vladimir, to International Business Machines Corporation. Digital filter for PCM encoded signals. 3,777,130, 12-4-73, Cl. 235-152.000.

Croissant, Larry L.; and Crowther, Edward A., to International Business Machines Corporation. Highly reliable strip width gauge. 3,746,451, 7-17-73, Cl. 356-159.000.

Croix, Louise S., to Airco, Inc. Separating 1-chloro-2,2,2-trifluoroethyl difluoromethyl ether from 1-chloro-2,2,2-trifluoroethyl difluorochloro-methyl ether by azeotropic distillation. 3,720,587, 3-13-73, Cl. 203-58.000.

Croley, Thomas E., to Corco, Inc. Drum-like container set up from a folded flat of sheet material. 3,712,530, 1-23-73, Cl. 229-4.500.

Crom, Carol L., to E-System, Inc., mesne. Interferometer direction finder antenna compensation. 3,710,333, 1-9-73, Cl. 343-114.000.

Cromeens, Jeff Y., to Industrial Woodworking Machine Company, Inc. Telescoping arbor assembly. 3,750,513, 8-7-73, Cl. 83-425.400.

Cromer, Charles F.: *See—*
Fischer, William H.; and Cromer, Charles F., 3,725,623.

Cromie, Harry W.: *See—*
Magovern, George J.; and Cromie, Harry W., 3,725,961.

Cromie, Harry W., to Baxter Laboratories, Inc. Multiple piece clamp for connecting tubing. 3,709,526, 1-9-73, Cl. 285-73.000.

Cromie, Harry W., to Baxter Laboratories, Inc. Disc for heart valves. 3,722,004, 3-27-73, Cl. 3-1.000.

Cromleigh, Ralph G. Musical notation and actuator system. 3,741,066, 6-26-73, Cl. 84-478.000.

Crommelijnck, Herman. Device for the manufacture of a cooked delicacy. 3,736,862, 6-5-73, Cl. 99-353.000.

Crommelynck, Francois: *See—*
Zumbrunn, Jean-Pierre; and Crommelynck, Francois, 3,711,402.

Crommentuyn, Gerardus J.: *See—*
Hendriks, Mathieu J. M.; and Crommentuyn, Gerardus J., 3,775,131.

Crommett, Donald L.: *See—*
Hershey, Elmer E.; and Crommett, Donald L., 3,760,954.

Crompton & Knowles Corporation: *See—*
Long, Delmar D.; Rust, Edgar C., Jr.; and Lawrence, Stanley L., 3,733,238.
Parkinson, Edward J., 3,761,211.
Paul, Frederick W., 3,723,990.
Rust, Edgar C., Jr., 3,727,277.
Will, Harold C., 3,758,270.

Crompton, Geoffrey: *See—*
Deane, William Harry; and Crompton, Geoffrey, 3,717,398.

Cromwell, Gordon W.; and Borland, Walter G., to Elgin Electronics Inc. Thyristor gating and phase shift circuit. 3,763,381, 10-2-73, Cl. 307-255.000.

Cromwell, Gordon W.; and Borland, Walter G., to Elgin Electronics, Inc. Low harmonic telephone ringing generator. 3,778,730, 12-11-73, Cl. 331-109.000.

Cromwell, Thomas M.; and Sprague, Robert W., to United States Borax & Chemical Corporation. Method of preparing boric oxide. 3,749,792, 7-31-73, Cl. 423-278.000.

Cron, Oliver M., Jr. Detachable connector and fishing means combination. 3,744,177, 7-10-73, Cl. 43-43.120.

Cronan, John J., to United Aircraft Corporation. Light weight, low torque, inexpensive drum type optical digital shaft angle encoder. 3,714,448, 1-30-73, Cl. 250-231.0se.

Cronan, Philip J. Spring trigger assembly for mixing dual liquids. 3,718,235, 2-27-73, Cl. 222-145.000.

Cronan, Philip J. Dual compartment spray container. 3,727,797, 4-17-73, Cl. 222-80.000.

Cronan, Philip J. Pressure actuated trigger assembly for mixing dual liquids. 3,773,264, 11-20-73, Cl. 239-304.000.

Cronberg, Alvin Dale: *See—*
Hartlage, James Albert; and Cronberg, Alvin Dale, 3,725,046.

Cronce, Grant Woodrow, to Eltra Corporation. Spring action terminal with locked barrel. 3,771,113, 11-6-73, Cl. 339-256.00c.

Crone, Basil Scott. Apparatus for joining continuously moving web material. 3,768,746, 10-30-73, Cl. 242-58.300.

Crone, John M., Jr.: *See—*
Arkell, Alfred; Crone, John M., Jr.; and Suggitt, Robert M., 3,760,017.
Suggitt, Robert M.; Arkell, Alfred; and Crone, John M., Jr., 3,760,018.
Suggitt, Robert M.; Brandenburg, John T.; and Crone, John M., Jr., 3,780,121.

Crone, John M., Jr.; and Arkell, Alfred, to Texaco Inc. Hydroalkylation catalyst and process. 3,760,019, 9-18-73, Cl. 260-668.00f.

Croner, Jerome T. Compartmented beverage container. 3,743,520, 7-3-73, Cl. 99-171.00b.

Cronheim, Richard B. Pie cutter and server. 3,711,945, 1-23-73, Cl. 30-142.000.

Cronig, Alvin: *See—*
Armstrong, Clarence J.; and Cronig, Alvin, 3,733,994.

Cronin, David J.; Pinard, Alward I.; and Smith, Albert L., to Technical Operations, Incorporated. Coherent optical system with expanded bandwidth and noise suppression. 3,770,340, 11-6-73, Cl. 350-162.0sf.

Cronin, David V.: *See—*
Brandt, Edison R.; Cronin, David V.; and Skurski, James K., 3,748,980.

Cronin, Dennis C., to Beloit Corporation. Structure for threading paper machine. 3,740,312, 6-19-73, Cl. 162-306.000.

Cronin, John C.; and Depcrymski, John J., to I-T-E Imperial Corporation. Non-metallic corona shield for gas-insulated electrical equipment and the like. 3,767,840, 10-23-73, Cl. 174-73.00r.

Cronin, Timothy H.; and Hess, Hans-Jurgen E., to Pfizer Inc. Piperazino isoquinoline bronchodilators. 3,723,434, 3-27-73, Cl. 260-268.00c.

Cronin, Timothy Henry, to Pfizer Inc. Preparation of quinoxaline-2-carboxamide derivatives. 3,728,345, 4-17-73, Cl. 260-250.00r.

Cronin, Timothy Henry; Hammen, Philip Dietrich; Abushanab, Elie; and Abu El-Haj, Marwan Jawdat, to Pfizer, Chas., & Co., Inc. 3-Halomethyl-2-quinoxalinecarboxylic acid-1,4-dioxide esters and their cyclization products with amines. 3,753,987, 8-21-73, Cl. 20-250.00r.

Cronin, Timothy Henry; Hammen, Philip Dietrich; Abushanab, Elie; and Abu El-Haj, Marwan Jawdat, to Pfizer Inc. Use of 2,3,-dihydro-1-oxo-1H-pyrrolo(3,4-b) quinoxaline-4,9-dioxides as animal growth promotants. 3,773,950, 11-20-73, Cl. 423-250.000.

Cronk, John Edward: *See—*
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Cronkhite, Leonard W.: *See—*
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Cronkhite, Leonard W., Jr.: *See—*
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Cronkhite, Paul W.; Voege, Robert D.; and Poletti, Joseph W., to Monsanto Company. Apparatus and process for polishing semiconductor or similar materials. 3,708,921, 1-9-73, Cl. 51-131.000.

Cronojevich, Ranko P.; and Lowe, Donald F., to American Metal Climax, Inc. Process of separating cobalt from nickel by means of ammonica. 3,751,558, 8-7-73, Cl. 423-144.000.

Cronson, Harry, to Ikor Incorporated. Microwave generator. 3,748,528, 7-24-73, Cl. 315-39.000.

Cronstedt, Val, to Avco Corporation. Rolling contact bearing accelerator. 3,713,711, 1-30-73, Cl. 308-187.000.

Cronstedt, Val, to Avco Corporation. Easily maintainable gas turbine engine. 3,761,205, 9-25-73, Cl. 417-407.000.

Crook, Benjamin, & Sons Limited: *See—*
Crook, John Michael, 3,721,591.

Crook, Dale E.: *See—*
Leonhardt, William O., 3,762,688.

Crook, Edward J., Jr., to American Hoist & Derrick Company. Safety hook. 3,741,600, 6-26-73, Cl. 294-82.00r.

Crook, John Michael, to Crook, Benjamin, & Sons Limited. Method of making inflatable balls. 3,721,591, 3-20-73, Cl. 156-93.000.

Crook, W. Mack: *See—*
Becker, Anthony F.; Crook, W. Mack; Sherer, Charles R.; Lilly, Mason M.; and Kinzbach, Robert B., 3,772,944.
Crooke, Robert Curtis, to Global Marine Inc. Deep water drill pipe controlled manipulator. 3,708,990, 1-9-73, Cl. 61-69.00r.
Crooke, Robert Curtis; and Hilsabeck, Carl E., to Global Marine Inc. Load indicator for mooring line. 3,722,268, 3-27-73, Cl. 73-143.000.
Crookham, Carter C.: *See—*
Clow, Kent S., Jr.; and Crookham, Carter C., 3,744,753.
Crookham, Carter C.; and Billings, Robert C., to Clow Corporation. Butterfly valve body. 3,774,880, 11-27-73, Cl. 251-307.000.
Crooks, James W., to Allis-Chalmers Corporation. Power shift planetary transmission. 3,722,300, 3-27-73, Cl. 74-15.630.
Crooks, James W., to Allis-Chalmers Corporation. Power shift planetary and countershaft transmission. 3,722,301, 3-27-73, Cl. 74-15.630.
Crooks, James W., to Allis-Chalmers Corporation. Planetary transmission. 3,739,647, 6-19-73, Cl. 74-15.630.
Crooks, James W. Two speed transmission with brake. 3,763,978, 10-9-73, Cl. 192-4.00a.
Crooks, James W., Jr.: *See—*
Kalitinsky, Andrew; and Crooks, James W., Jr., 3,735,139.
Crooks, Richard S. Miter box. 3,731,572, 5-8-73, Cl. 83-471.003.
Crooks, Stanley R.: *See—*
Westergren, George A.; Koland, David G.; and Crooks, Stanley R., 3,778,863.
Westergren, George A.; Fish, Warren H.; Crooks, Stanley R.; and Koland, David G., 3,781,460.
Crooks, Thomas E. Yieldable body jousting bags. 3,759,515, 9-18-73, Cl. 273-1.00r.
Crooks, Walter, to International Business Machines Corporation. Electrophotographic developer composition containing boron nitride. 3,743,682, 7-3-73, Cl. 252-62.100.
Crookston, James A.; and Charles, Glen W., to Green, A. P., Refractories Co. Insulating castable. 3,718,489, 2-27-73, Cl. 106-64.000.
Croom, Hardy C., to Owens-Illinois, Inc. System for removing color from paper mill liquid waste. 3,736,254, 5-29-73, Cl. 210-51.000.
Croon & Lucke, Maschinenfabrik Gesellschaft mit beschrankter Haftung: *See—*
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Croon, Alexander. Travel case. 3,722,564, 3-27-73, Cl. 150-39.000.
Croon, Ingemar Liss-Albin: *See—*
Samuelson, Hans Olof; and Croon, Ingemar Liss-Albin, 3,759,783.
Croon, Ingemar Liss-Albin; and Blomqvist, Nils Verner, to Mo Och Domsjo Aktiebolag. Tampon and process and apparatus for making the same. 3,716,430, 2-13-73, Cl. 156-62.400.
Cros, Georges; and Mazet, Guy, to Centre Stephanois de Recherches Mecaniques Hydromecanique et Frottement. Method of treatment of steel parts in order to increase their resistance to wear and abrasion. 3,770,595, 11-6-73, Cl. 204-29.000.
Crosbie, Richard J.; and Passavanti, Louis A., to United States of America, Navy. Visual simulator. 3,732,630, 5-15-73, Cl. 35-12.00n.
Crosby, Clinton D., to Sperry Rand Corporation. Half-turn word line return for plated-wire memory array. 3,742,469, 6-26-73, Cl. 340-174.0dc.
Crosby, Edward K.: *See—*
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Crosby, Lawton H., to Morley Furniture Company. Spring construction. 3,773,310, 11-20-73, Cl. 267-110.000.
Crosby, Noble Wellington; and Walker, Robert Clinton, to Lacal Industries Limited. Vibration damper. 3,780,207, 12-18-73, Cl. 174-42.000.
Crosby, Philip C.; Goyette, Robert J.; and Bauer, Douglas M., to Council Commerce Corporation, mesne. Method of making quick responding thermometer. 3,721,001, 3-20-73, Cl. 29-612.000.
Crose, Ralph, Jr. Hood for pressurized container. 3,756,450, 9-4-73, Cl. 220-85.00p.
Croset, Michel; and Nouailles, Noel, to Sescosem-Societe Europeenne de Semiconducteurs et de Microelectronique. Novel method of manufacturing protective oxide films, and structures embodying such films. 3,737,341, 6-5-73, Cl. 117-212.000.
Crosfield Business Machines Limited: *See—*
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Croslin, Michael E.; and Blackman, Carl R., to Grummann Data Systems Corporation. Dispensing apparatus having piston and cylinder dispensing assembly with stroke adjusting means. 3,756,292, 9-4-73, Cl. 141-160.000.
Crosman Arms Company, Inc.: *See—*
Kester, Charles E.; and Hughes, Thomas E., 3,741,189.
Crosman, Dorland L., to Remco Industries, Inc. Doll swing carrying case. 3,731,420, 5-8-73, Cl. 46-1.00r.
Crosman, Dorland L., to Remco Industries, Inc. Tearing doll with rotatable head. 3,769,745, 11-6-73, Cl. 46-135.00a.
Crosman, John M., Jr.: *See—*
Roetter, Robert P.; Miller, Alfred H.; Quinn, John D.; and Crosman, John M., Jr., 3,725,026.
Crosno, Philip M., to Cartridge Television, Inc. Interlacing system for skip-field magnetic recording and reproducing. 3,718,755, 2-27-73, Cl. 178-6.6sf.
Crosno, Philip M., to Cartridge Television, Inc. Time base error correction system, including converter, for video reproducer and/or recorder. 3,758,710, 9-11-73, Cl. 178-6.6tc.
Crosno, Philip M., to Cartridge Television, Inc. Time base error correction system including electronically variable delay line for video reproducer and/or recorder. 3,758,711, 9-11-73, Cl. 178-6.67c.
Croso, Hubert; Prost, Gerard; Quefellec, Andre; and Sole, Jean, to Commissariat a l'Energie Atomique. Superconducting switch. 3,715,703, 2-6-73, Cl. 338-32.00s.
Croso, Hubert; Prost, Gerard; Queffelec, Andre; and Sole, Jean, to Commissariat a l'Energie Atomique. Switch for a superconducting circuit. 3,764,828, 10-9-73, Cl. 307-245.000.
Cross, Alexander D.; and Edwards, John A., to Syntex Corporation. (lower) Alkoxytetrahydropyranyl ethers and 5', 6'-dihydro-2H-pyran-4'-yl ethers of 7β-methyl-Δ⁴-androstanes. 3,728,336, 4-17-73, Cl. 260-239.55r.
Cross, Benjamin T.; and Posakony, Gerald J., to Automation Industries, Inc. Material tester. 3,712,119, 1-23-73, Cl. 73-67.700.
Cross, Budd David: *See—*
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Cross, Chaillos. Golfer's practice head guide. 3,740,051, 6-19-73, Cl. 273-183.00e.
Cross Company, The: *See—*
Tourtellotte, Frederick, 3,738,478.
Cross, David C.: *See—*
Fowler, Roland V.; White, James A.; and Cross, David C., 3,750,643.
Howard, Dean D.; and Cross, David C., 3,718,927.
Cross, Donald E.; and Blackburn, William E., to Owens-Corning Fiberglas Corporation. Tool holder. 3,719,579, 3-6-73, Cl. 204-286.000.
Cross, Donald John; Eckenbrecht, Robert Roy; Price, Arthur Burke; and Scott, Benton Boyd, to Sylvania Electric Products, Inc. Color image display system. 3,710,012, 1-9-73, Cl. 178-5.200.
Cross, Edward A.; Frye, Richard L.; Daniel, Robert T.; and Bright, Gordon S., to Texaco Inc. Greases thickened with fibrous asbestos which fibers are coated with aliphatic esters of N-acyl (aliphatic) aminobenzoic acid. 3,773,663, 11-20-73, Cl. 252-13.000.
Cross, Edward Albert; McCoy, Frederick Charles; and Schlicht, Raymond Charles, to Texaco Inc. Nitrite containing corrosion-inhibiting grease compositions. 3,736,256, 5-29-73, Cl. 252-18.000.
Cross, John F., to Noni Corporation. Vapor generator. 3,749,077, 7-31-73, Cl. 126-44.000.
Cross, John H.: *See—*
Goldstone, Lenrod L.; and Cross, John H., 3,754,272.
Cross, John V.: *See—*
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Cross, John W., to Lockheed Aircraft Corporation. Roll joint steering. 3,746,119, 7-17-73, Cl. 180-42.000.
Cross, Kenneth R.; Cavanagh, John R.; and Newman, Richard L., to General Motors Corporation. Vibration damping coatings. 3,758,233, 9-11-73, Cl. 416-229.000.
Cross, Laurence Allan, Jr., to Randomatic Data Systems, Inc. Console for random access filing equipment or the like having push button display. 3,737,898, 6-5-73, Cl. 340-381.00r.
Cross, Lloyd G., to Lear Siegler, Inc. Saturable filter. 3,754,190, 8-21-73, Cl. 330-4.300.
Cross, Malcolm Geoffrey; and Musson, Joseph Thomas Barrow, to Marconi Company Limited, The. Spectrum analysers. 3,729,738, 4-24-73, Cl. 343-5.0sa.
Cross Manufacturing, Inc.: *See—*
Ailshie, Roger H., 3,771,558.
Cross, Norman A.; and Polak, James C., to General Motors Corporation. Hydrostatic transmission and method of transmitting power therethrough. 3,748,924, 7-31-73, Cl. 74-677.000.
Cross, Norman A., to General Motors Corporation. Power transmission having a hydrostatic drive combined with a hydrodynamic drive. 3,752,013, 8-14-73, Cl. 74-732.000.
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Leeming, Peter R.; Cross, Peter E.; Cox, David A.; and Augstein, Joachim, 3,709,892.
Cross, Peter E.; Stichbury, James R.; and Thorpe, Eric F., to Pfizer Inc. N,N-dialkyl-2-[2-(2-cycloalkylvinyl) phenoxy] alkylamines. 3,751,470, 8-7-73, Cl. 260-570.700.
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Leeming, Peter Rodway; Cross, Peter Edward; Cox, David Alexander; and Augstein, Joachim, 3,767,819.
Cross River Products, Inc.: *See—*
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Cross, Robert A.; Testa, Anthony J.; and Thompson, Ralph N., to Amicon Corporation. Method of forming an electroplatable microporous film with exposed metal particles within the pores. 3,775,176, 11-27-73, Cl. 117-227.000.
Cross, Ronald William, to Rotax Limited. Motor powered wheels for aircraft. 3,764,094, 10-9-73, Cl. 244-50.000.
Cross, Tallyrand. Cutting die assembly with replaceable blades. 3,738,402, 6-12-73, Cl. 144-197.000.
Cross, Thomas S.: *See—*
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Cross, William Telford; Steel, Margaret Lilian; and Trueman, Stephen Edward, to Imperial Chemical Industries Limited. Bag with tear strip. 3,759,439, 9-18-73, Cl. 229-66.000.
Crossan, Irvin D.: *See—*
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Crossland, Ronald K.; and Holden, Geoffrey, to Shell Oil Company. Block polymer compositions. 3,766,295, 10-16-73, Cl. 260-829.000.
Crossland, William Alden; Marr, Colin Andrew; and Hailes, Laurence, to International Standard Electric Corporation. Thick film circuits. 3,733,182, 5-15-73, Cl. 29-195.000.
Crosslen, Louis John, to Mayer, Frank, and Associates, Inc. Theftproof merchandise display having a hanging-type holder. 3,722,699, 3-27-73, Cl. 211-169.000.
Crossley, Guy A.; and Heckert, David C., to Procter & Gamble Company, The. Preparation of acid-amide mixtures useful as solvents. 3,709,831, 1-9-73, Cl. 252-364.000.
Crossman, Edward R. F. W. Address comparator with time intervals matching transport characteristics. 3,727,203, 4-10-73, Cl. 340-174.10j.
Crossman, Phillip L.; Kenrick, Robert C.; and Le Mieux, Robert W., to Brunswick Corporation. Air cushion table game. 3,773,325, 11-20-73, Cl. 273-126.00a.
Crossman, Richard E.: *See—*
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Crossman, Richard L., to Goodyear Tire & Rubber Company, The. Turbo-brake having gear ratio changer. 3,744,597, 7-10-73, Cl. 188-291.000.
Crossman, Richard L.; Cook, Albert W.; and Hawley, Jesse G., to Goodyear Tire & Rubber Company, The. Key slot segments for driving brake discs. 3,757,907, 9-11-73, Cl. 188-218.0xl.
Crossman, Richard L.; Fisher, Richard R.; and Kifor, Harry T., to Goodyear Aerospace Corporation. Inflated air bearing. 3,760,899, 9-25-73, Cl. 180-125.000.
Crosson, William J., to Cities Service Company. Frame back and easel assembly. 3,734,446, 5-22-73, Cl. 248-460.000.
Crosswhite, Bert. Washing and sanitizing apparatus for carts such as hospital carts. 3,736,948, 6-5-73, Cl. 134-95.000.
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Crostic, Sharon M.; and Froelich, William E. Abrading device for attachment to electric knife drive. 3,736,614, 6-5-73, Cl. 15-97.00r.
Croston, William Gordon, to International Technical Assistance. Container. 3,756,681, 9-4-73, Cl. 312-351.000.
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Crotty, Homer L.; Coffey, Charles R.; and Tesdahl, Thomas C., to Chemed Corporation. Chlorine stable composition for cleaning and sanitizing and method of use. 3,741,805, 6-26-73, Cl. 134-4.000.
Crouch, George D.; and Muggenborg, Stanley D., to Dow Chemical Company, The. Method of forming a dispensing package. 3,763,623, 10-9-73, Cl. 53-32.000.
Crouch, Willie W.; and Williams, Ralph P., to Phillips Petroleum Company. (Alkylthio) alkyl mercaptans as gas odorants. 3,752,659, 8-14-73, Cl. 48-197.0fm.
Croucher, William C.; and Chihoski, Russell A., to Martin Marietta Corporation. Multi-mode structural spotweld monitor. 3,708,648, 1-2-73, Cl. 219-109.000.
Crough, Paul E., to Eastman Kodak Company. Photographic composition of sodium and potassium ions for treating direct positive emulsions. 3,733,199, 5-15-73, Cl. 96-64.000.
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Crouse, John C., to General Electric Company. Multistrand windings with increased series capacitance. 3,748,617, 7-24-73, Cl. 336-70.000.
Crouse, William G.; and Jones, John E., to International Business Machines Corporation. Method and device for reading and decoding a high density self-clocking bar code. 3,723,710, 3-27-73, Cl. 235-61.11e.
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Crow, Robert Bruce, to California Institute of Technology. Frequency discriminator and phase detector circuit. 3,750,035, 7-31-73, Cl. 328-133.000.
Crow, Rufus C., Jr.; and Runions, Adrian C., to Eastman Kodak Company. Apparatus and method for packaging flanged reels. 3,713,266, 1-30-73, Cl. 53-26.000.
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Crowder, William E. Surface projectile target having a central goal loop. 3,711,100, 1-16-73, Cl. 273-127.00r.
Crowder, William E. Tethered projectile having loop and pocketed targets. 3,724,853, 4-3-73, Cl. 273-98.000.
Crowder, Wyly Kenneth. Pneumatic systems transit. 3,722,427, 3-27-73, Cl. 104-155.000.
Crowdy, Edmund Porter, to Hawthorn, Leslie, (Fngineers), Limited. Apparatus for supporting machines. 3,767,148, 10-23-73, Cl. 248-25.000.
Crowe, Charles Vivian. Crankshafts or the like. 3,747,433, 7-24-73, Cl. 74-598.000.
Crowe, Curtis W., to Dow Chemical Company, The. Acidizing composition. 3,779,916, 12-18-73, Cl. 252-8.55c.
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Crowe, Gordon Appling, to BASF Wyandotte Corporation. Vacuum holder to conform casting surface. 3,757,735, 9-11-73, Cl. 118-50.000.

Crowe, Larry G. Pipe having disposable protective means thereon and method of making same. 3,724,506, 4-3-73, Cl. 138-96.000.

Crowe, Robert C.: *See—*
Buhayar, Eric S.; Hazard, James E.; Jaagus, John J.; Werner, Fred W.; Wheeler, Robert W.; and Crowe, Robert C., 3,709,349.
Buhayar, Eric S.; Hazard, James E.; Jaagus, John J.; Werner, Fred W.; Wheeler, Robert W.; and Crowe, Robert C., 3,756,452.

Crowe, Robert W.: *See—*
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Crowe, Talmadge L., to Baker Oil Tools, Inc. Dual safety valve method and apparatus. 3,771,603, 11-13-73, Cl. 166-314.000.

Crowe, William J.; Ritchie, Kim; and Gurev, Harold S., to Motorola, Inc. Liquid phase deposition of thin insulating and refractory film on a substrate. 3,770,499, 11-6-73, Cl. 117-221.000.

Crowell Designs, Inc.: *See—*
Davenport, William R.; and Jones, William D., 3,742,978.

Crowell, Douglas H.; Tadcliffe, Milton R.; and Tabroff, William, to USM Corporation. Conductive cutting pad. 3,762,262, 10-2-73, Cl. 83-658.000.

Crowell, John Arnold, to Du Pont de Nemours, E. I., and Company. Sheet drying apparatus. 3,718,983, 3-6-73, Cl. 34-156.000.

Crowell, Merton Howard; and Gordon, Eugene Irving, to Bell Telephone Laboratories, Incorporated. Diode-array photocathode with photoemitter activation. 3,716,740, 2-13-73, Cl. 315-11.000.

Crowle, William G.: *See—*
Ostrowsky, Efrem M.; and Crowle, William G., 3,726,444.
Ostrowsky, Efrem M.; and Crowle, William G., 3,726,445.
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Crowley, Arthur W.: *See—*
Pratt, Richard J.; Crowley, Arthur W.; Nason, Steven B.; and Schmehr, William R., 3,766,109.

Crowley, Daniel Joseph, to AMP Incorporated. Read head assembly for card reader. 3,749,888, 7-31-73, Cl. 235-61.11c.

Crowley, Duane E.; Hoffmann, Roy M.; and Roberts, Evan D. Fluid treating device. 3,759,284, 9-18-73, Cl. 137-268.000.

Crowley, Ernest W.: *See—*
Cox, Robert M.; Crowley, Ernest W.; and Kilmer, Dan L., 3,724,485.

Crowley, George C.; and Berenson, Allen V., to Northern Electric Company Limited. Automatic blanket integral control. 3,708,649, 1-2-73, Cl. 219-212.000.

Crowley, Jennifer: *See—*
Baker, Maurice William; Crowley, Jennifer; Watkins, Thomas Iswel; and Clark, Nigel George, 3,732,238.

Crowley, John H. Portable smoke measuring device. 3,779,650, 12-18-73, Cl. 356-207.000.

Crowley, Norman R.; Fuchs, Gilbert N.; and Wink, Randall W., to Evana Tool & Engineering Inc. Parts transfer and storage unit. 3,710,958, 1-16-73, Cl. 214-16.40r.

Crowley, Richard P., to Abcor, Inc. Hollow fiber membrane device and method of fabricating same. 3,708,071, 1-2-73, Cl. 210-321.000.

Crowley, Richard P. Embossed plastic surface covering and method of preparing same. 3,775,237, 11-27-73, Cl. 161-116.000.

Crowley, Walter A. Stable multiple-chamber air cushion boat hull. 3,742,888, 7-3-73, Cl. 114-67.00a.

Crowley, William A. Apparatus for removing particulate and gaseous pollutants from stack smoke. 3,733,788, 5-22-73, Cl. 55-228.000.

Crown City Plating Company: *See—*
Kadison, Leon A.; and Maguire, Eileen, 3,708,430.
Kadison, Leon A.; and Maguire, Eileen, 3,748,166.
Kadison, Leon A.; and Maguire, Eileen, 3,754,940.

Crown Controls Corporation: *See—*
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Tung, Alexander Reuben, 3,734,240.

Crown Cork & Seal Company, Inc.: *See—*
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Deubel, Hans D., 3,732,917.
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Crown Cork and Seal Company Inc.: *See—*
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Crown Molding Co., mesne: *See—*
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Crown Parking Products Co., mesne: *See—*
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Crown Zellerbach Corporation: *See—*
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Cisney, Merle E., 3,751,483.
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Crown Zellerbach Corporation, mesne: *See—*
Herschler, Robert J.; and Jacob, Stanley W. (said Jacob assor. to), 3,740,420.

Crowne, Francis Raymond; and Peer, Vladimir, to Canada Wire and Cable Company Limited. Electrocoating bath compositions. 3,736,276, 5-29-73, Cl. 260-19.0ep.

Crownhurst, James Arthur, to Hawker Siddeley Dynamics Limited. Improvements in or relating to control systems. 3,764,091, 10-9-73, Cl. 244-3.220.

Crowson, David Lamar. Sonic teeth-cleaning apparatus and method. 3,760,799, 9-25-73, Cl. 128-24.00a.

Crowson, Ray E. Electric band type gun. 3,745,986, 7-17-73, Cl. 124-17.000.

Crowther, Edward A.: *See—*
Croissant, Larry L.; and Crowther, Edward A., 3,746,451.

Crowther, John Cooper, to Albright & Wilson Limited. Electrowinning of chromium metal. 3,766,028, 10-16-73, Cl. 204-105.00r.

Crowther, Philip Simpson: *See—*
Austin, Christopher Frederic; Crowther, Philip Simpson; Warren, David; and Howitt, David, 3,750,425.

Crowther, Sam, to Ethyl Corporation. Process for starting operation of a fused salt electrolytic cell. 3,776,823, 12-4-73, Cl. 204-60.000.

Croxon, Brian F., to Honeywell Information Systems, Inc. Memory address selection apparatus including isolation circuits. 3,757,310, 9-4-73, Cl. 340-172.500.

Croxton, John Mervyn, to Nesbit, J.-Evans & Company, Limited. Hospital beds. 3,733,623, 5-22-73, Cl. 5-63.000.

Croyle, Jack V.: *See—*
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Croyle, Jack V.; and Swett, James B., to Dart Industries Inc. Closure for open-mouthed containers or tubular vessels. 3,743,131, 7-3-73, Cl. 220-24.500.

Croyle, Jack V.; and Swett, James B., to Dart Industries Inc. Coffee dispenser. 3,756,479, 9-4-73, Cl. 222-437.000.

Cruceanu, Sever: *See—*
Constantinescu, Dorin; Cruceanu, Sever; Spataru, Eugen; and Mereanu, Nicolae, 3,735,826.
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Crucible Inc.: *See—*
Almasi, Gabriel Charles; and Slusarczyk, William, 3,714,037.
Bressanelli, Jerome P., 3,770,394.
Byrnes, Charles J.; and Vassilaros, George L., 3,737,306.
Kinsch, Anton H., Jr.; Rogers, William M.; and Lake, Robert A., 3,743,261.
Steven, Gary; and Pinnow, Kenneth E., 3,720,545.

Crucible, Inc., mesne: *See—*
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Crucible Steel Company of America: *See—*
Lyne, Cornelius M.; Kasak, August; and Stasko, William, 3,778,253.

Crucible Steel Corporation: *See—*
Pinnow, Kenneth E.; Mehta, Jayendra M.; and Moskowitz, Arthur, 3,778,316.

Cruckshank, Ira G.; and Snodgrass, Thomas J., to United States Steel Corporation. Apparatus for laminating a plastic sheet onto a surface of a hollow body. 3,753,830, 8-21-73, Cl. 156-382.000.

Cruckshank, Ira G. Expansible shelf addition. 3,760,744, 9-25-73, Cl. 108-64.000.

Cruden, John L., Jr. Piped opening for use in garments and method of making same. 3,725,959, 4-10-73, Cl. 2-247.000.

Cruickshank, David G.; and Tata, Raymond V., to Leesona Corporation. Supply bobbin delivery mechanism. 3,757,992, 9-11-73, Cl. 221-13.000.

Cruickshank, Philip Alexander, to FMC Corporation. Herbicidal di Hydrobenzofuranylurea. 3,773,491, 11-20-73, Cl. 71-88.000.

Cruickshank, Roy W.; and Knight, Jack O. Aquarium diver. 3,773,015, 11-20-73, Cl. 119-5.000.

Crull, William B.: *See—*
Dahmen, Karel R.; and Crull, William B., 3,761,577.

Crum, Gerald W.; and Sauter, Richard J., to United States of America, National Aeronautics and Space Administration. Foot pedal operated fluid type exercising device. 3,758,112, 9-11-73, Cl. 272-79.00c.

Crum, James N.: *See—*
Schaffer, Robert H.; and Crum, James N., 3,724,733.
Treff, Ernest H.; and Crum, James N., 3,765,328.

Crum, James N., to Harris-Intertype Corporation. Registering mechanism for printing press. 3,717,092, 2-20-73, Cl. 101-248.000.





Crum, James N., to Harris-Intertype Corporation. Ink fountain key control system. 3,747,524, 7-24-73, Cl. 101-365.000.

Crum, McDonald; and Hampton, Edward L., to Lear Siegler, Inc. Multiple position reclining chair assembly. 3,743,349, 7-3-73, Cl. 297-85.000.

Crumb, Robert E., to Continental Oil Company. Method for recovering petroleum products or the like from subterranean mineral deposits. 3,765,722, 10-16-73, Cl. 299-2.000.

Crumley, J. A.: *See—*
Swengel, Robert Charles, Sr.; Reyner, Emerson Marshall, II; and Crumley, J. A., 3,740,202.
Swengel, Robert Charles, Sr.; and Crumley, J. A., 3,747,051.

Crumley, J. A.; Hildebrand, James Ross; Kerstetter, Harold Alfred; and Shaak, Ray Ned, to AMP Incorporated. Apparatus for photo etching. 3,712,735, 1-23-73, Cl. 355-85.000.

Crumlish, Bernard J., 40% to McKean, Edwin M. and 20% to Cullen, Edward G. Simulated golf game apparatus. 3,771,792, 11-13-73, Cl. 273-134.0cg.

Crump, Brian, to GKN Transmissions Limited. Apparatus for use in wheel counterbalancing. 3,774,456, 11-27-73, Cl. 73-462.000.

Crump, E. Eugene: *See—*
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Crump, Robert O.: *See—*
Olney, Frederick D., Jr.; and Crump, Robert O., 3,711,924.
Olney, Frederick D., Jr.; Crump, Robert O.; and Kowalski, John L., 3,765,075.
Rich, Dennis E.; and Crump, Robert O., 3,779,290.

Crump, Robert O., to Honeywell Information Systems, Inc. Pin insertion head. 3,713,197, 1-30-73, Cl. 29-203.00b.

Cruse, Adrian Robert, to Walker, Thomas, Limited. Fastening devices. 3,765,062, 10-16-73, Cl. 24-201.00h.

Cruse, Adrian Robert, to Walker, Thomas, Limited. Machine for attaching pronged garment fasteners. 3,773,237, 11-20-73, Cl. 227-18.000.

Cruse, Clyde L., to Armco Steel Corporation. Furnace feeding and delivery apparatus. 3,774,786, 11-27-73, Cl. 214-35.00r.

Cruse, Lee H., to Foster Manufacturing Co., Inc. Hose coupling. 3,709,528, 1-9-73, Cl. 285-316.000.

Cruse, Oliver B., to Wagner Electric Corporation. Brake system. 3,746,400, 7-17-73, Cl. 303-9.000.

Cruse, Robert R.: *See—*
Lime, Bruce J.; and Cruse, Robert R., 3,745,020.

Cruse, Robert R.; and Lime, Bruce J., to United States of America, Agriculture. Process for preparing citrus puree. 3,749,585, 7-31-73, Cl. 99-100.000.

Crutcher, James E.; and Davis, Lawrence P., to Sperry Rand Corporation. Gyroscope. 3,742,769, 7-3-73, Cl. 74-5.00r.

Crutchfield, Marvin M., to Monsanto Company. Detergent compositions. 3,749,676, 7-31-73, Cl. 252-135.000.

Crutchley, Frederick; and Hindley, David, to Automotive Products Company Limited. Improvements in or relating to friction clutches and to engaging load applying spring means for such friction clutches. 3,758,094, 9-11-73, Cl. 267-162.000.

Cruthers, Ronald F., to United States of America, Navy. Method of making micro-fuses on a thin film circuitry panel. 3,756,887, 9-4-73, Cl. 156-3.000.

Cruvellier, Paul E.; and Duban, Michel, to Centre National d'Etudes Spatiales. Monochromators with concave spherical gratings. 3,730,626, 5-1-73, Cl. 356-101.000.

Cruz, Mamerto M., Jr.: *See—*
Battista, Orlando A.; Cruz, Mamerto M., Jr.; and Hait, Merritt R., 3,742,955.

Cruz, Mamerto M., Jr., to Avicon, Inc., mesne. Phosthetic structures derived from collagen. 3,767,437, 10-23-73, Cl. 106-161.000.

Cryder, John R., to Caterpillar Tractor Company. Flow control valve. 3,728,941, 4-24-73, Cl. 91-447.000.

Cryder, John R., to Caterpillar Tractor Company. Pilot operated control valve. 3,739,690, 6-19-73, Cl. 91-28.000.

Cryder, John R.; Erickson, Rodney R.; Lohbauer, Kenneth R.; and Scheidt, James E., to Caterpillar Tractor Company. Hydrostatic drive control system. 3,771,310, 11-13-73, Cl. 60-19.000.

Cryderman, George W., to Koehring-Waterous, Ltd. Finger bars for pulpwood grinders. 3,734,419, 5-22-73, Cl. 241-282.000.

Cryderman, Robert L.: *See—*
Coldren, Arthur P.; and Cryderman, Robert L., 3,726,723.

Cryer, Edward, to Lucas, Joseph, (Industries) Limited. Handbrake controls for road vehicles. 3,731,272, 5-1-73, Cl. 340-69.000.

Cryer, Edward, to Lucas, Joseph, (Industries) Limited. Electrical switch having two movable contacts operable by a rotor and having fixed contact posts. 3,746,803, 7-17-73, Cl. 200-6.00r.

Cryer, Edward, to Lucas, Joseph, (Industries) Limited. Electric switch module. 3,766,351, 10-16-73, Cl. 200-168.10c.

Cryer, Edward, to Lucas, Joseph, (Industries) Limited. Direction indicator switches for road vehicles. 3,778,571, 12-11-73, Cl. 200-61.350.

Cryer, Edward, to Lucas, Joseph, (Industries) Limited. Self cancelling direction indicator switches. 3,780,241, 12-18-73, Cl. 200-61.270.

Cryogenic Engineering Company: *See—*
Draper, James W.; and Edwards, Lowell N., 3,719,200.
Leonard, Kenneth R., 3,710,584.

Cryogenic Technology, Inc.: *See—*
Hosmer, Thomas P.; and Peterson, John F., 3,717,201.
O'Neil, James A., 3,717,004.
Sheppard, John C.; and Hosmer, Thomas P., 3,721,101.

Crystal Thermoplastics, Inc.: *See—*
Dahl, Nils J., 3,749,236.

Crystal-Protronics Associates: *See—*
Tetreault, Paul J.; and Gobin, Douglas R., 3,753,103.

Csaki, Joachim, to Ackermann u. Schmitt KG. Mechanism for fastening a saw blade. 3,721,142, 3-20-73, Cl. 143-156.00r.

Csaky, Thaddeus G.; and Lenger, Karl Werner. Free piston engine. 3,777,722, 12-11-73, Cl. 123-46.00r.

Csanady, Michael, Jr.; Sloan, Joseph; and Goldsborough, Cornelius S., Jr., to Westinghouse Electric Corporation. Lubrication system. 3,759,347, 9-18-73, Cl. 184-6.00r.

Csapo, Frank: *See—*
Filipek, Stanley J.; and Csapo, Frank, 3,726,053.

Csapo, Frank; Filipek, Stanley J.; Horton, Richard H.; and Kull, Richard A., to Stirling Homex Corporation. Jacking means for raising buildings of modular construction. 3,764,110, 10-9-73, Cl. 254-105.000.

Csapo, Michael, to Selas Corporation of America. Seal for tower furnace. 3,732,993, 5-15-73, Cl. 214-18.000.

Csapo, Michael; Waldman, Nathan; and Micho, William E., to Dow Chemical Company, The. Tower furnace collecting mechanism. 3,733,173, 5-15-73, Cl. 263-27.000.

Csaszar, Steve: *See—*
Gabrielian, Henry; and Csaszar, Steve, 3,713,076.

Csathy, Denis G.; Hung, Wendell L. Y.; Rchoski, Charles J.; and Heath, Jon M., to Deltak Corporation, mesne. Heat recovery muffler for internal combustion engines. 3,766,891, 10-23-73; Cl. 122-7.00r.

Csatlos, Geza M., to Karg Machine Products, Inc. Work holding device. 3,752,464, 8-14-73, Cl. 269-32.000.

Csavaripari Vallalat: *See—*
Enody, Emil; Kovacs, Sandor; Gelanyi, Istvan; Kacsmarek, Bela; and Karoly, Bela, 3,755,839.

Cseh, Ferenc. Internal combustion engine. 3,749,066, 7-31-73, Cl. 123-65.00s.

Csejka, David A.: *See—*
Sawyer, Arthur W.; and Csejka, David A., 3,711,410.
Sawyer, Arthur W.; and Csejka, David A., 3,711,411.
Sawyer, Arthur W.; and Csejka, David A., 3,711,412.
Sawyer, Arthur W.; and Csejka, David A., 3,729,497.

Csengery, Ladislao C.: *See—*
Paananen, Eugene E.; Csengery, Ladislao C.; and Barry, Richard J., 3,764,087.

Csepeli Tervezo Intezet: *See—*
Illyes, Sandor; and Kapas, Otto, 3,760,632.

Cseri, Zoltan, to Stanray Corporation. Uncoupling rod assembly. 3,762,575, 10-2-73, Cl. 213-166.000.

CSF-Compagnie Generale de Telegraphie Sans Fil: *See—*
Belvaux, Yves, 3,752,557.
Biguenet, Charles, 3,724,049.
Tribes, Rene, 3,772,098.
Vasseur, Jean-Pierre, 3,715,478.

CSI Liquidating Corporation: *See—*
Pacini, Elmo J.; Johnson, Alford H.; and Turner, Robert B., Jr., 3,739,649.

Csicsery, Sigmund M.; and Kittrell, James R., to Chevron Research Company. Hydrotreating catalyst comprising an interstratified crystalline clay-type aluminosilicate component and a crystalline zeolitic molecular sieve component and process using said catlyst. 3,716,475, 2-13-73, Cl. 208-59.000.

Csizi, Gotthard: *See—*
Opp, Karl; Wygasch, Ewald; and Csizi, Gotthard, 3,755,109.

Csok, Tibor; and Franz, Karl, to Du Pont de Nemours, E. I., and Company. Product and process. 3,732,684, 5-15-73, Cl. 57-140.0by.

Csontos, Alan A., to Goodrich, B. F., Company, The. Hydroxyl containing liquid mercaptan-terminated acrylate polymers. 3,711,451, 1-16-73, Cl. 260-79.000.

Csontos, Alan A., to Goodrich, B. F., Company, The. Liquid acrylate polymers of improved vulcanizability. 3,711,452, 1-16-73, Cl. 260-79.000.

Csontos, Alan A., to Goodrich, B. F., Company, The. Preparation of liquid bromine-terminated polymers. 3,730,862, 5-1-73, Cl. 204-163.00r.

Csontos, Alan A., to Goodrich, B. F., Company, The. Preparation of liquid bromine-terminated polymers using radiation and a dibromo dichloro alkane. 3,775,276, 11-27-73, Cl. 204-163.00r.

Csovak, Erno: *See—*
Burany, Janos; Csovak, Erno; Gulyas, Gabor; Nemeth, Jozsef; Van, Ivan; Vollak, Andor; and Erdosi, Jozsef, 3,727,253.

C.S.S. Machine & Tool Company, Inc.: *See—*
Faure, Alphonse W., 3,708,052.

C.S.S. Machine and Tool Company, Inc.: *See—*
Faure, Alphonse W.; and Caldwell, Harold L., 3,737,296.

Csuros, Zoltan; Petro, Jozsef; Dusza, Zsigmond; Simo, Zsuzsa, nee Barczy; Turcsan, Istvan; and Vaczulin, Jozsef, to NIKEX Nehezipari Kulkereskedelmi Vallalat. Process for the removal of cyanide from sewage by means of formaldehyde. 3,729,413, 4-24-73, Cl. 10-59.000.
CTA-Compagnie Industrielle de Textiles Artificiels et Synthetiques: *See—*
Breton, Alain; Tricot, Marc; and Rajon, Andre, 3,720,661.
Herrbach, Paul; and Breton, Alain, 3,737,504.
Morieras, Gilbert; and Sere de Lanauze, Michel, 3,711,630.
Ctegnt, Paul C.: *See—*
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Ctibor, Doudlebsky: *See—*
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CTR Inc.: *See—*
Karwinski, Gerhard E., 3,731,434.
CTS Corporation: *See—*
Beaver, Thomas R., 3,718,106.
Bradley, Deward C., 3,735,166.
Digirolamo, Joseph; and Bender, Stanley O., 3,708,877.
Holmes, Curtis L.; and Brady, Lynn J., 3,778,305.
Miller, Jack L., 3,750,081.
Rozema, Arthur L.; Budd, Wilbert H.; and Kelver, William L., 3,735,327.
Rozema, Arthur L.; Osburn, Carlton M.; and Vanbenthuysen, John D., 3,742,422.
Sawyer, Roderick V., 3,710,008.
Van Benthuysen, John D.; and Beaver, Thomas R., 3,732,520.
Van Benthuysen, John D.; Budd, Wilbert N.; and Cormican, Robert E., 3,747,043.
Zdanys, John, Jr., 3,748,627.
Cub, Fritz; Kleinert, Paul; Lammermann, Heinz; and Schacht, Hans, to Bosch, Robert, G.m.b.H. Filter element for filtering of liquids. 3,739,916, 6-19-73, Cl. 210-493.000.
Cubberly, George D.: *See—*
Simmons, George; and Cubberly, George D., 3,756,299.
Cubberly, Walter E., Jr., to Schlumberger Technology Corporation. Data-signaling apparatus for well drilling tools. 3,736,558, 5-29-73, Cl. 340-18.0cd.
Cubberly, Walter E., Jr., to Schlumberger Technology Corporation. Well bore data-transmission apparatus with debris clearing apparatus. 3,764,969, 10-9-73, Cl. 340-18.0nc.
Cubbison, Richard James, Jr., to Bell Telephone Laboratories, Incorporated. Pole frequency stabilized active RC filter. 3,725,799, 4-3-73, Cl. 330-21.000.
Cubbison, Richard James, Jr., to Bell Telephone Laboratories, Incorporated. Transmission network exhibiting biquadratic transfer response. 3,746,889, 7-17-73, Cl. 307-295.000.
Cubic Corporation: *See—*
Allport, Davies, 3,728,520.
Bush, Elsmore W., 3,727,226.
Lind, Larry W., 3,780,265.
Madigan, Thomas S.; Stone, Richard F.; Dunn, David C.; Holzer, William F.; and Sweet, Robert H., 3,728,025.
Neumann, Malcolm A.; and Hunsberger, Arnold, 3,737,057.
Rogers, Laurence B.; Neumann, Malcolm A.; and Dolan, Dwain K., 3,736,403.
Walters, Glenn A.; and Troester, Richard H., 3,754,267.
Watt, Richard E., 3,766,555.
Cuccaro, Louis M. Apparatus for applying a fastening device. 3,719,792, 3-6-73, Cl. 219-230.000.
Cucchiara, Alfred L. Sequentially dispensing syringe with multiple needle assembly. 3,749,084, 7-31-73, Cl. 128-2.00f.
Cuccio, Allen B. J., to General Electric Company. Keyboard data entry device employing reactive coupling circuits. 3,778,816, 12-11-73, Cl. 340-365.00s.
Cuccio, John D.: *See—*
LaFata, John Edward; and Cuccio, John D., 3,745,693.
Cuche, Claude C. A., to Dubied, Edouard, et Cie S.A. Control pulse system for knitting machines. 3,745,791, 7-17-73, Cl. 66-50.00r.
Cucinella, Salvatore; and Mazzei, Alessandro, to Snam Progetti, S.p.A. Process for the preparation of copolymers of a monoolefin and a diolefin and the products products obtained thereby. 3,711,455, 1-16-73, Cl. 260-85.30r.
Cucinella, Salvatore; and Mazzei, Alessandro, to Snam Progetti S.p.A. Ethylene and -olefins copolymers and process for obtaining same. 3,773,734, 11-20-73, Cl. 260-88.20r.
Cuckler, Virgil A.; and Wente, Laverne A., to Motorola, Inc. Microwave intrusion detecting system and apparatus. 3,733,602, 5-15-73, Cl. 343-5.0pd.
Cuckson, Eric Engel, to Rondo Building Services Pty., Limited. Adjustable suspension systems in ceilings. 3,708,941, 1-9-73, Cl. 52-484.000.
Cuckson, Eric Engel, to Scovill Manufacturing Company. Slide fastener manufacture. 3,755,879, 9-4-73, Cl. 29-408.000.
Cuckson, Eric Engel; and Jones, Arthur Llewelyn, to Scovill Manufacturing Company. Slide fastner of the invisible type. 3,757,391, 9-11-73, Cl. 24-205.10r.
Cuclis, John J.: *See—*
Sternberger, Ludwig A.; Cuclis, John J.; and Meyer, Howard G., 3,773,625.
Cucuz, Ranko; Verduzco, Miguel A.; and Zavodny, George, Jr., to LaSalle Steel Company. Process for surface finishing of metals. 3,760,488, 9-25-73, Cl. 29-557.000.
Cudd, Marvin L. Open-ended wrench with adjustable sockets. 3,738,203, 6-12-73, Cl. 81-185.000.
Cuddeback, Ruth M. Method and apparatus for manufacturing fabrics. 3,717,246, 2-20-73, Cl. 206-47.00r.
Cuddigan, Robert W.: *See—*
Menough, Richard M.; and Cuddigan, Robert W., 3,751,316.
Cude, Arthur Leslie; and Simpson, Henry George, to Imperial Chemical Industries Limited. Dispersal of flammable materials. 3,777,821, 12-11-73, Cl. 169-2.00r.
Cude, Lelon. Magnetic casket seal assembly. 3,735,456, 5-29-73, Cl. 27-17.000.
Cudzik, Daniel F., to Reynolds Metals Company. Forming apparatus and method. 3,768,295, 10-30-73, Cl. 72-347.000.
Cuenca, Eduardo. Visual typesetter. 3,736,855, 6-5-73, Cl. 95-4.500.
Cuevas, Ephraim A., to PPG Industries, Inc. Method of producing tetraalkylleads. 3,749,557, 7-31-73, Cl. 23-297.000.
Cuevas, Ephraim A.; and Johnston, Wayne S., to PPG Industries, Inc. Removal of dissolved lead from lithium chloride solutions. 3,773,908, 11-20-73, Cl. 423-499.000.
Cugini, Edward T.: *See—*
Orund, Valdek J.; and Cugini, Edward T., 3,766,978.
Cugini, Edward T., to Grant Oil Tool Company. Underreamer having variable arm extension. 3,750,771, 8-7-73, Cl. 175-269.000.
Cuhel, Gerald A., to Tonka Corporation. Toy rotary digger and conveyor. 3,731,423, 5-8-73, Cl. 46-40.000.
Cuintal, Bertram S.; and Maynard, Derek J., to Energy Sciences, Inc. Elongated electron-emission cathode assembly and method. 3,745,396, 7-10-73, Cl. 313-37.000.
Culberson, Donald L., to Tobias, Jaromir. Radial piston hydraulic pump or motor with low loss reaction linkage. 3,709,104, 1-9-73, Cl. 91-495.000.
Culberson, Donald L., to Tobias, Jaromir. Radial pump or motor with stabilized pintle. 3,771,423, 11-13-73, Cl. 91-497.000.
Culberston, Billy M., to Ashland Oil & Refining Company. Polymers with recurring imidazole segments. 3,714,129, 1-30-73, Cl. 260-78.0tf.
Culbertson, Alvin E.: *See—*
Bornhorst, Kenneth F.; Monroe, Jack L.; Culbertson, Alvin E.; Thomas, David E.; and Drake, Donald E., 3,766,560.
Culbertson, Billy M.: *See—*
Freis, Richard E.; and Culbertson, Billy M., 3,728,387.
Slagel, Robert C.; and Culbertson, Billy M., 3,715,343.
Culbertson, Billy M., to Ashland Oil, Inc. Amide oxadiazole polymers and polymer precursors. 3,730,952, 5-1-73, Cl. 260-78.00a.
Culbertson, Billy M.; Mc Killip, William J.; and Sedor, Edward A., to Ashland Oil, Inc. Vinyl aromatic aminidides and polymers thereof. 3,756,994, 9-4-73, Cl. 260-82.100.
Culbertson, Delbert D. Instrument for determining the diameter or radius of an object of circular cross section. 3,754,335, 8-28-73, Cl. 33-178.00r.
Culbertson, Fred J. Illuminated marker. 3,728,708, 4-17-73, Cl. 340-323.000.
Culbertson Industries, Inc.: *See—*
Burley, Cameron H., 3,753,114.
Culbertson, James A.: *See—*
Hyland, William P.; Baird, Roy W.; and Culbertson, James A., 3,712,680.
Culbertson, Thomas L., to United States of America, Navy. Bottom-freezing apparatus. 3,732,918, 5-15-73, Cl. 165-106.000.
Culbertson, Thomas L., to United States of America, Navy. Horizontal bottom-freezing apparatus. 3,757,854, 9-11-73, Cl. 165-106.000.
Culbreth, Fay H. Orthodontic arch wire bracket assembly. 3,750,288, 8-7-73, Cl. 32-14.00a.
Cull, Neville L.: *See—*
Eberly, Paul E., Jr.; Cull, Neville L.; and Buchamann, Fred J., 3,758,600.
Cull, Neville Leverne; Gladrow, Elroy Merle; Mason, Ralph Burgess; and Hamner, Glen Porter, to Esso Research and Engineering Company. Dimerization. 3,729,515, 4-24-73, Cl. 260-602.000.
Cullen, Edward G.: *See—*
Crumlish, Bernard J., 3,771,792.
Cullen, Geoffrey Victor; Graham, John William; and Siviour, Neil Graham, to University of Melbourne. Electrode of petroleum coke and brown coal char. 3,716,471, 2-13-73, Cl. 204-294.000.
Cullen, Glenn Wherry; Bolin, Stephen Ray; Morrison, Andrew David; and Wang, Chih Chun, to RCA Corporation. Czochralski-grown spinel for use as expitaxial silicon substrate. 3,736,158, 5-29-73, Cl. 106-42.000.
Cullen, John Leslie; and Potter, Alexander Frank, to Girling Limited. Fluid pressure-operated braking systems for vehicles. 3,744,853, 7-10-73, Cl. 303-21.00f.
Cullen, John S. Desiccant capsule and package embodying the same. 3,722,188, 3-27-73, Cl. 55-384.000.



Cullen, Orville E.; and Lincoln, Joseph A. Method of heat treating steel strip. 3,711,342, 1-16-73, Cl. 148-134.000.
Cullen, Patrick: *See—*
Karter, Jesse; and Cullen, Patrick, 3,735,492.
Cullen, William F.; Holub, Fred F.; and Mc Cormick, Michael R., to General Electric Company. Radiation shielded electron discharge device. 3,736,457, 5-29-73, Cl. 313-313.000.
Culler, Glen J., to Culler-Harrison, Inc. Data processor with parallel operations per instruction. 3,771,141, 11-6-73, Cl. 340-172.500.
Culler, J. Glenn, to KMS Industries, Inc. Apparatus for calculating exposure times and subtractive color filtration in dark room photography. 3,737,224, 6-5-73, Cl. 355-32.000.
Culler-Harrison, Inc.: *See—*
Culler, Glen J., 3,771,141.
Culley, John C., to United States of America, Atomic Energy Commission. Thermoluminescence dosimeter system. 3,725,659, 4-3-73, Cl. 250-71.00r.
Culley, John Ernest. Golf putting practice device. 3,762,718, 10-2-73, Cl. 273-176.00h.
Culligan Inc.: *See—*
Kreusch, Edward G.; and Husslini, Farouk F., 3,772,189.
Culligan International Company: *See—*
Lyall, Charles E.; Bennett, Blair O.; and Hogan, Lawrence Russell, 3,774,763.
Culligan, Robert L., to Xerox Corporation. Photoelectrophoretic apparatus using pyramid gears. 3,769,850, 11-6-73, Cl. 74-462.000.
Culling, John H., to Carondelet Foundry Company. Corrosion-resistant alloys. 3,759,704, 9-18-73, Cl. 75-122.000.
Cullip, Jack D.: *See—*
Stefansen, Kaj E.; and Cullip, Jack D., 3,740,977.
Cullis, Roger: *See—*
Nighingale, Eric Gordon; and Cullis, Roger, 3,771,872.
Cullom, John T. Corrugated balloon flue. 3,740,930, 6-26-73, Cl. 55-269.000.
Cullum, Troy, to Polyvend, Inc. Price selection vending machine arrangement. 3,752,287, 8-14-73, Cl. 194-10.000.
Cully, Andre Fornerod, to Tamper Inc. Methods for determining the position of a point in space relative to a geometrical line defined by at least two of its points and installation for performing same. 3,751,169, 8-7-73, Cl. 356-152.000.
Culp, Barney L. Particle separator. 3,746,164, 7-17-73, Cl. 209-44.000.
Culp, Charles R.; Eyman, Douglas R.; and Lewicki, Walter J., Jr., to Armstrong Cork Company. Brush-out apparatus. 3,762,101, 10-2-73, Cl. 51-78.000.
Culp, Charles Richard; and Lewicki, Walter John, Jr., to Armstrong Cork Company. Method of adhering fibers in a tufted carpet. 3,717,524, 2-20-73, Cl. 156-72.000.
Culp, Fred E.: *See—*
Taylor, Richard P.; Van Brimmer, Russell H.; and Culp, Fred E., 3,717,945.
Culp, Jere S.: *See—*
Bogdan, Louis J.; and Culp, Jere S., 3,713,617.
Culp, Norris B. Exhaust polarizing apparatus. 3,769,799, 11-6-73, Cl. 60-303.000.
Culpepper, George O., Jr.; and Wyss, Clement R., 1/3 to Kendall, Jim W. and 1/3 to Pitts, James W. Method and apparatus for cleaning solids for pollution free disposal. 3,734,774, 5-22-73, Cl. 134-2.000.
Culpepper, Ronald N.: *See—*
Schoolar, Richard B.; Lequin, Doris S.; Mathews, Harry E., Jr.; and Culpepper, Ronald N., 3,770,565.
Culter, Robert Gordon; Hayes, Raymond; and Sang, Emmanuel, to Tektronix, Inc. Silicon diode array scan converter storage tube and method of operation. 3,748,585, 7-24-73, Cl. 328-124.000.
Culver, Clyde C., to General Motors Corporation. Occupant restraint system. 3,752,500, 8-14-73, Cl. 280-150.0ab.
Culver, Clyde C., to General Motors Corporation. Spinal column simulator. 3,754,338, 8-28-73, Cl. 35-17.000.
Culver, Clyde C., to General Motors Corporation. Joint for a human neck simulator. 3,762,069, 10-2-73, Cl. 35-17.000.
Culver, Clyde C., to General Motors Corporation. Spinal column simulator. 3,762,070, 10-2-73, Cl. 35-17.000.
Culver, Harold: *See—*
Hines, Robert R.; and Culver, Harold, 3,710,849.
Culver, Irven H., to Primus Mfg., Inc., mesne. Flexure mounting for friction-wheel measurement device. 3,724,082, 4-3-73, Cl. 33-141.00e.
Culver, Irven H.; and Sheltra, Ronald C., to Southwestern Industries, Inc. Mask adjustment mechanism. 3,728,551, 4-17-73, Cl. 250-231.0se.
Culver, Irven H., to Primus Mfg., Inc. and Southwestern Industries, Inc. Flexure mounting for friction wheel measuring devices. 3,740,856, 6-26-73, Cl. 33-141.00r.
Culver, Irven H., to Primus Mfg., Inc. Friction wheel measuring device. 3,771,228, 11-13-73, Cl. 33-141.00r.
Culver, Mark N.: *See—*
Byram, Robert J.; Culver, Mark N.; and Van Ostrom, David L., 3,715,005.
Culver, Mark N., to General Motors Corporation. Selectively reversible step motor. 3,755,701, 8-28-73, Cl. 310-49.000.
Culver, Richard B., to Dresser Industries, Inc. Circuit for improving data in pulse detection systems. 3,739,172, 6-12-73, Cl. 250-83.30r.
Culver, Richard B., to Dresser Industries, Inc. Circuit for reducing pulse pile-up in pulse detection systems by converting a random pulse train to that of fixed frequency. 3,745,346, 7-10-73, Cl. 250-83.30r.
Culver, Richard B., to Dresser Industries, Inc. Circuit for reducing pulse pile-up in pulse detection systems. 3,752,988, 8-14-73, Cl. 250-270.000.
Cumberbirch, Alan, to Dunlop Holdings Limited. Conveyor systems. 3,744,431, 7-10-73, Cl. 104-25.000.
Cumberland Corporation: *See—*
Rhinehart, Vance, 3,777,710.
Cumberland Engineering Company, Inc.: *See—*
Chabee, George G., 3,779,123.
Gotham, Stanley T., 3,711,033.
Gotham, Stanley T.; and Thurber, Gerald A., 3,750,512.
Peterson, Russell I., Jr.; and Coady, David R., 3,743,155.
Peterson, Russell I., Jr., 3,760,673.
Cumberland Packing Corporation: *See—*
Eisenstadt, Marvin E., 3,743,518.
Cumbo, Charles Carmen; and Yates, Paul C., to Du Pont de Nemours, E. I., and Company. Flame retardant antimony compounds. 3,763,202, 10-2-73, Cl. 260-446.000.
Cumbo, Charles Carmen, to Du Pont de Nemours, E. I., and Company. Solid, water-soluble trans-acid complexes with chromium (III) nitrate. 3,775,455, 11-27-73, Cl. 260-438.50r.
Cummens, Joseph R.; and Heiberger, Francis E., to Danly Machine Corporation. Servo motor controlled transfer system for automatic press line. 3,728,597, 4-17-73, Cl. 318-85.000.
Cumming, James C., to Rockwell International Corporation. Wheel speed sensor. 3,772,549, 11-13-73, Cl. 310-168.000.
Cummings, Alan F.; Binz, Ernest F.; and Freeman, Gene G., to North American Rockwell Corporation. Deployable parabolic antennas. 3,780,375, 12-18-73, Cl. 343-915.000.
Cummings, Charles A.: *See—*
Davis, Howard C.; Trumbull, Harold E.; and Cummings, Charles A., 3,734,607.
Hull, Henry E.; Abrams, Herbert C.; and Cummings, Charles A., 3,757,929.
Cummings, Gilbert A., to Peters & Co., Inc. Universal self-leveling dispenser. 3,717,397, 2-20-73, Cl. 312-71.000.
Cummings, Gilbert A., to Peters & Co., Inc. Shelf. 3,722,700, 3-27-73, Cl. 211-153.000.
Cummings, Jerry W., to North American Rockwell Corporation. Explosive apparatus. 3,730,093, 5-1-73, Cl. 102-6.000.
Cummings, William C., to Scanwell Laboratories, Incorporated. Capture effect system. 3,711,857, 1-16-73, Cl. 343-107.000.
Cummings, William E.; d/b/a Jeffersontown Specialty Company: *See—*
Meyer, Herbert S., Jr., 3,762,089.
Cummings, William M., to Texaco Inc. Substituted nitroalkyl nitrate and peroxynitrate. 3,732,283, 5-8-73, Cl. 260-466.000.
Cummins, Billy H.: *See—*
Morris, Herbert C.; Cooper, Thomas A.; Cummins, Billy H.; and Sweeney, Donald E., Jr., 3,775,298.
Cummins, Billy H.; Ashton, William B.; Brasher, James A.; and Askew, John D., Jr., to Texaco Inc. Lubricating oils by hydrocracking and solvent extraction. 3,766,055, 10-16-73, Cl. 208-92.000.
Cummins, Earl W., to Du Pont de Nemours, E. I., and Company. Preparation of an aqueous slurry of ammonium chloride and methylmercapto-hydroxybutyric acid. 3,773,927, 11-20-73, Cl. 424-166.000.
Cummins Engine Company, Inc.: *See—*
Waygood, James J., 3,719,058.
Cummins, Laurence M.; and Perry, Janet B.; deceased (by Perry, Blanche; legal representative), to Analytical Instrument Specialties. Apparatus for simultaneous application of samples to thin layer chromatography plates. 3,738,493, 6-12-73, Cl. 210-198.00c.
Cummins, Millard M.; Hankins, Thomas E.; Best, Robert; and Biesecker, Frederick, to Soniclens, Inc. Ultrasonic cleaning device for fragile heat-sensitive articles. 3,720,402, 3-13-73, Cl. 259-72.000.
Cummins, Phil F. Remote controlled helicopter transport device and method. 3,761,040, 9-25-73, Cl. 244-2.000.
Cummins, Phil F. Remote controlled hazard-fighting vehicle. 3,762,478, 10-2-73, Cl. 169-24.000.
Cummins, W. Wayne, to Howell, Rubie Nell Little. Automobile windshield and backglass removal tool. 3,711,677, 1-16-73, Cl. 219-221.000.
Cummins, Wayne. Rear-view automotive mirror. 3,729,163, 4-24-73, Cl. 248-487.000.
Cummins-Allison Corporation, mesne: *See—*
Jones, John E.; and Knutson, Orville T., 3,780,938.



Cummisford, Robert G., to Krause Milling Company. Art of manu[illegible]

Cummisford, Robert G., to Krause Milling Company. Art of manufacturing dry wall taping and finishing compounds with a nitrogenous-modified amylaceous binder. 3,725,324, 4-3-73, Cl. 260-17.4st.
Cumpston, Edward H., Jr. Solid waste opening machine. 3,771,647, 11-13-73, Cl. 209-73.000.
Cumpston, Edward H., Jr. Pulper. 3,771,732, 11-13-73, Cl. 241-46.110.
Cumpston, Edward H., Jr. Damp pulp moulding. 3,775,525, 11-27-73, Cl. 264-115.000.
Cumpu-Sort Systems, Inc.: *See—*
Vulcano, Vincent N., 3,722,342.
Cundy, Clyde Y.: *See—*
Monahan, Victor C.; Monahan, Gerald L.; and Cundy, Clyde Y., 3,746,776.
Cunha, Harold; Dickman, William M.; and Robbins, Daniel H., to Itek Corporation. Copying apparatus having cassette and cutting means. 3,722,999, 3-27-73, Cl. 355-45.000.
Cunnane, Jeffrey B., to Bancroft, H. S., Corporation. Integrated circuit die bonding apparatus. 3,715,258, 2-6-73, Cl. 156-356.000.
Cunniff, John G.: *See—*
Kosowsky, Leo N.; Lovejoy, Curtis N.; Cunniff, John G.; and Groom, Robert T., 3,745,105.
Kosowsky, Leo N.; Lovejoy, Curtis N.; Cunniff, John G.; and Groom, Robert T., 3,746,630.
Cunningham, Andrew E.: *See—*
Bush, John W.; and Cunningham, Andrew E., 3,730,541.
Cunningham, Arthur L.; and Mathai, John, to Sherwin-Williams Company, The. Modified ester resins. 3,776,868, 12-4-73, Cl. 260-23.0ep.
Cunningham, Byron H., to Offshore Recovery System, Inc. Safety off-shore drilling and pumping platform. 3,745,773, 7-17-73, Cl. 61-46.000.
Cunningham, Byron H. Variable length V belt. 3,748,699, 7-31-73, Cl. 24-38.000.
Cunningham, Byron H. Skyboat. 3,750,978, 8-7-73, Cl. 244-2.000.
Cunningham Corporation: *See—*
Munn, Sumner T., 3,736,509.
Cunningham, Douglas James, to Wingard Limited. Seats for motor vehicles. 3,711,153, 1-16-73, Cl. 247-346.000.
Cunningham, Edson Wayne, to Royal Industries, Inc. Printing apparatus. 3,712,215, 1-23-73, Cl. 101-219.000.
Cunningham, Eldon R., to General Electric Company. Resilient motor mounting arrangement. 3,721,411, 3-20-73, Cl. 248-26.000.
Cunningham, Ernest R., to Barr-Stalfort Company. Aerosol valve with differential flow control rate. 3,709,410, 1-9-73, Cl. 222-402.160.
Cunningham, Ernest R., to Illinois Tool Works Inc. Container carrier. 3,727,754, 4-17-73, Cl. 206-65.00e.
Cunningham, Ernest R.; and Dodson, Marshall, to Barr-Stalfort Company; division of Pittway Corporation. Vacuum crimping and filling head for aerosol containers. 3,745,741, 7-17-73, Cl. 53-88.000.
Cunningham, Francis V.; and Miller, Cyril V., to Joslyn Mfg. and Supply Co. Fluid filled high voltage cable terminal apparatus. 3,715,449, 2-6-73, Cl. 174-11.0bh.
Cunningham, Francis V.; and Wicks, John S., to Joslyn Mfg. and Supply Co. Shrinkable cable joint sleeve, cable joint employing the same, and method of forming a cable joint. 3,717,717, 2-20-73, Cl. 174-73.00r.
Cunningham, Francis V., to Joslyn Mfg. and Supply Co. Device for coupling high voltage cables. 3,718,749, 2-27-73, Cl. 174-73.00r.
Cunningham, Francis V., to Joslyn Mfg. and Supply Co. Cable termination apparatus with rigid stress relief assembly and conductive seal. 3,737,556, 6-5-73, Cl. 174-19.000.
Cunningham, Gerald A.: *See—*
Hansson, Margaret S.; Cunningham, Gerald A.; and Gebhard, Albert W., 3,774,824.
Cunningham, Glenn P.; and Larson, John G., to Gulf Research & Development Company. Octane monitoring. 3,738,808, 6-12-73, Cl. 23-230.0pc.
Cunningham, Herbert R.: *See—*
United States of America, National Aeronautics and Space Administration, 3,777,942.
Cunningham, Hugh: *See—*
Raetzsch, Carl W.; and Cunningham, Hugh, 3,755,108.
Raetzsch, Carl W.; Darlington, William B.; and Cunningham, Hugh, 3,759,813.
Cunningham, Jack W.; Foster, E. Gordon; and Vanderwater, Robert G., to Shell Oil Company. Recovery of ethylene oxide from admixed inert gaseous components. 3,729,899, 5-1-73, Cl. 55-44.000.
Cunningham, Jack W.; Foster, E. Gordon; and Vanderwater, Robert G., to Shell Oil Company. Secondary removal of inerts in ethylene oxide purification. 3,766,714, 10-23-73, Cl. 55-48.000.
Cunningham, James A.; and Fuller, Clyde R., to Texas Instruments, Incorporated. Metal contact and interconnection system and nonhermetic enclosed semiconductor devices. 3,754,168, 8-21-73, Cl. 317-234.00r.
Cunningham, James Alan: *See—*
Wakefield, Robert Henry, Jr.; Cunningham, James Alan; and Hswe, Myint, 3,708,360.
Cunningham, James E.: *See—*
Epstein, Paul; Wernikoff, Robert E.; Cunningham, James E.; and Rosen, George, 3,748,379.
Pitegoff, Alexander D.; Wernikoff, Robert E.; and Cunningham, James E., 3,723,649.
Cunningham, Joseph A., to Evans, Pipeline Equipment Co. Pipe mandrel for use during bending. 3,747,394, 7-24-73, Cl. 72-466.000.
Cunningham, M. E., Company: *See—*
Speicher, Edwin W., 3,762,484.
Cunningham, Robert A., to Hughes Tool Company. Connection members with high torque carrying capacity. 3,762,745, 10-2-73, Cl. 285-92.000.
Cunningham, Robert D.: *See—*
Woodworth, William H.; and Cunningham, Robert D., 3,742,812.
Cunningham, Robert E.: *See—*
Privott, Wilbur J., Jr.; and Cunningham, Robert E., 3,715,418.
Privott, Wilbur J., Jr.; and Cunningham, Robert E., 3,715,419.
Privott, Wilbur J., Jr.; and Cunningham, Robert E., 3,780,153.
Cunningham, Robert E.; Privott, Wilbur J., Jr.; and Rakestraw, Lawrence F., to Monsanto Company. Melt spinning process. 3,720,741, 3-13-73, Cl. 264-82.000.
Cunningham, Robert J., Jr. Suspension system for vehicles. 3,729,210, 4-24-73, Cl. 280-96.20r.
Cunningham, Stanley H.: *See—*
Binding, Kenneth W.; and Cunningham, Stanley H., 3,726,410.
Cunningham, Tim; and McCleerey, Earl W., to Westinghouse Electric Corporation. Hair dryer. 3,713,227, 1-30-73, Cl. 34-99.000.
Cunningham, Vernon. Method and apparatus for forming subterranean structures. 3,712,071, 1-23-73, Cl. 61-85.000.
Cunningham, Victor Ralph; Dagenham, Dock; and Boutle, David Leonard, to Porous Plastics Limited. Method for preparing vapour permeable flexible sheet materials. 3,729,538, 4-24-73, Cl. 264-49.000.
Cunningham, William K.; and Knight, Donald B., to Dow Chemical Company, The. Solvent bleaching process. 3,762,862, 10-2-73, Cl. 8-111.000.
Cunningham-Smith, David, to Boulton, William, Limited. Apparatus for the treatment of paris. 3,777,770, 12-11-73, Cl. 134-118.000.
Cuo, Michel P. G.: *See—*
Beguin, Daniel E.; Chiron, Bernard; and Cuo, Michel P. G., 3,758,879.
Cuoco, Michael J. Automatic mouse-trap device. 3,778,923, 12-18-73, Cl. 43-69.000.
Cuomo, Frank W.: *See—*
Mueller, William J.; and Cuomo, Frank W., 3,729,703.
Cuomo, Jerome J.; Mayadas, Ashok F.; and Rosenberg, Robert, to International Business Machines Corporation. Sputtering process for producing single crystal thin films. 3,726,776, 4-10-73, Cl. 204-192.000.
Cuorato, John; and Stull, Charles V., to I-T-E Imperial Corporation. Telescoping outdoor switchboard and aisle sections. 3,723,824, 3-27-73, Cl. 317-120.000.
Cuozzi, Concetta L., to Munsingwear, Inc. Derriere panel panty girdle. 3,746,009, 7-17-73, Cl. 128-529.000.
Cupic Foundations, Inc.: *See—*
Welsch, David Peter; and Yannes, Harry, 3,707,973.
Cupit, James H.: *See—*
Brown, Thomas O.; and Cupit, James H., 3,720,613.
Cupler, John A., II: *See—*
Cupler, John A., II; and Stone, Wayne B., Jr. (said Stone assor. to said), 3,780,406.
Cupler, John A., II. Method for conducting machining and assembly operations. 3,722,078, 3-27-73, Cl. 29-557.000.
Cupler, John A., II. Apparatus for conducting machining and/or assembly operations. 3,724,044, 4-3-73, Cl. 29-26.00a.
Cupler, John A., II. Apparatus for making solid diamond drills. 3,738,063, 6-12-73, Cl. 51-50.00r.
Cupler, John A., II. Method of producing clean walled bores in laminates workpieces. 3,739,461, 6-19-73, Cl. 29-557.000.
Cupler, John A., II; and Stone, Wayne B., Jr., said Stone assor. to said Cupler, John A., II. Machining center employing cam operated tool changer. 3,780,406, 12-25-73, Cl. 29-26.00a.
Cupp, Frederick B.; and Camp, Gary Van, to EDMAC Associates, Inc. Bi-phase data recorder. 3,737,895, 6-5-73, Cl. 340-347.0dd.
Cupp, James E. Anti-jacknifing trailer coupling. 3,740,076, 6-19-73, Cl. 280-432.000.
Cupples Container Co.: *See—*
Ronden, Clifford P.; and Roylance, Donald C., 3,725,317.
Cuq, Pierre, to Agence Nationale de Valorisation de la Recherche (ANVAR). Method and machine for narrowing tubular articles. 3,763,688, 10-9-73, Cl. 72-402.000.
Curado, Joseph G.; and Rampo, Redento R., to Sun Chemical Corporation. Solvent-free printing inks. 3,766,110, 10-16-73, Cl. 260-26.000.
Curci, Alfred. High-speed helicopter. 3,762,669, 10-2-73, Cl. 244-17.230.



Curcic, Simo, to Coal Industry (Patents) Limited. Electrical connector. 3,778,747, 12-11-73, Cl. 339-45.00m.
Curcio, Edmund N., to Park-Ohio Industries, Inc. Induction heating apparatus for sealing tube-like containers. 3,738,892, 6-12-73, Cl. 156-380.000.
Curcio, Michael C.: *See—*
Doe, James B.; Niederberger, Richard P.; Curcio, Michael C.; and Forker, Michael H., 3,712,834.
Curcumelli-Rodostamo, Michael: *See—*
Knight, Barry I.; Curcumelli-Rodostamo, Michael; and Von Schmeling, Bogislav, 3,728,357.
Curdes, Harry B., to American Chain & Cable Company, Inc. Variable speed load balancer. 3,755,725, 8-28-73, Cl. 318-257.000.
Curelop, Edward J.; and Marincic, Nikola, to Mallory, P. R., & Co., Inc. Chloride free leaching process for porous zinc anodes. 3,713,891, 1-30-73, Cl. 136-30.000.
Curgan, Mark N., to Patrick, C. H., & Co., Inc. N-hydroxymethylated dialkyl phosphonoalkyl carbamates. 3,763,283, 10-2-73, Cl. 260-938.000.
Curington, Alfred R., to Baker Oil Tools, Inc. Threaded connector for impact devices. 3,709,306, 1-9-73, Cl. 173-132.000.
Curington, Alfred R., to Baker Oil Tools, Inc. Down-hole air hammer. 3,712,388, 1-23-73, Cl. 173-78.000.
Curington, Alfred R., to Baker Oil Tools, Inc. Bore hole air hammer. 3,735,820, 5-29-73, Cl. 173-78.000.
Curkov, Konstantin Stepanovich: *See—*
Sudnishnikov, Boris Vasilievich; Kostylev, Alexander Dmitrievich; Curkov, Konstantin Stepanovich; Tupitsyn, Konstantin Konstantinovich; Klimashko, Vladimir Vasilievich; and Plavskikh, Vladimir Dmitrievich, 3,763,939.
Curlator Corporation: *See—*
Auten, Charles R., 3,744,092.
Jendl, Wilhelm; and Krosswang, Kurt, 3,766,607.
Wood, Dennis E., 3,744,091.
Wood, Dennis E., 3,755,028.
Wood, Dennis E., 3,768,119.
Curle, Wilfred Roy: *See—*
Hawker, Collin John; Curle, Wilfred Roy; and Read, Harold David, 3,753,044.
Curless, William T., to Willchemco, Inc. Process for manufacturing liquid fertilizer. 3,711,269, 1-16-73, Cl. 71-36.000.
Curley, John L.: *See—*
Nibby, Chester M., Jr.; Manton, John C.; Curley, John L.; and Franklin, Benjamin S., 3,760,379.
Curley, Morton B. Navigation aid. 3,735,406, 5-22-73, Cl. 343-101.000.
Curnow, John W.: *See—*
Beal, Thomas E.; and Curnow, John W., 3,732,041.
Curr, Maurice D., to Deutsch Company Electronic Components Division, The. Electrical connecting device. 3,721,943, 3-20-73, Cl. 339-94.00m.
Curran, Bernard E., to Robertson, H. H., Company. Flooring section and composite floor utilizing the same. 3,720,029, 3-13-73, Cl. 52-334.000.
Curran, Bernard Edwin, to Robertson, W. H., Company. Fastening means for double-skin foam core building panel. 3,714,747, 2-6-73, Cl. 52-309.000.
Curran, John: *See—*
Benoit, Roland A.; and Curran, John, 3,771,385.
Curran, John D.; Fredericks, Zygmunt S.; and Marshall, James D., to Tyler, W. S., Incorporated. Spiral belt joint. 3,731,894, 5-8-73, Cl. 245-6.000.
Curran, John R., to Foxboro Company, The. Valve bonnet cooling system. 3,720,227, 3-13-73, Cl. 137-339.000.
Curran, John R., to Foxboro Company, The. Cage valve assembly. 3,722,860, 3-27-73, Cl. 251-332.000.
Curran, John R., to Foxboro Company, The. Stem guided valve with cage assembly. 3,762,685, 10-2-73, Cl. 251-362.000.
Curran, John R., to Foxboro Company, The. Three way control valve. 3,771,562, 11-13-73, Cl. 137-625.400.
Curran, Patrick M.: *See—*
Erickson, John S.; Curran, Patrick M.; and Owczarski, William A., 3,724,531.
Curran, Peter F.; Tawfik, David A.; and James, Robert L., to Bendix Corporation, The. Sequential monitor. 3,708,791, 1-2-73, Cl. 340-248.00a.
Curran, Peter J.: *See—*
Deane, William Ronald, 3,730,161.
Curran, Robert N.: *See—*
Brunson, Glenn S.; Curran, Robert N.; and Just, Franklin H., 3,725,688.
Brunson, Glenn S.; Curran, Robert N.; and Just, Franklin H., 3,732,422.
Curran, William J.; and Kulik, John J., to United States of America, Navy. Multi-color periscope view simulator. 3,748,374, 7-24-73, Cl. 178-6.800.
Curran, William J.; and Kulik, John J., to United States of America, Navy. Luminance control circuit for multi-color periscope view simulator. 3,770,884, 11-6-73, Cl. 178-5.40r.
Curran, William J.; and Kulik, John J., to United States of America, Navy. Color electronic periscope view simulator. 3,770,885, 11-6-73, Cl. 178-6.000.
Curran, William Vincent: *See—*
Ross, Adma Schneller; and Curran, William Vincent, 3,746,712.
Currence, John L., Jr.: *See—*
Sherrill, John B.; Bruchon, Paul E.; Phillips, James T.; and Currence, John L., Jr., 3,774,650.
Currence, Wilburn C., Jr., to Chance, A. B., Company. Climbing assembly having removable steps. 3,712,418, 1-23-73, Cl. 182-92.000.
Current, James H., to Camco, Incorporated. Releasable well joint. 3,727,948, 4-17-73, Cl. 285-3.000.
Current, John Marvin: *See—*
Hannes, George John; Helmick, James William; Dennis, James Arnold; and Current, John Marvin, 3,728,189.
Current, Wayne A., to Singer Company, The. Combination sewing machine housing and carrying case. 3,744,443, 7-10-73, Cl. 112-258.000.
Current, Wayne A., to Singer Company, The. Sewing machine cabinet. 3,759,595, 9-18-73, Cl. 312-27.000.
Currey, John E.: *See—*
Harke, Cyril J.; Parkinson, John C.; and Currey, John E., 3,732,153.
Currey, John E.; and Ruthel, Walter W., to Hooker Chemical Corporation. Catholyte recirculation in diaphragm chlor-alkali cells. 3,723,266, 3-27-73, Cl. 204-98.000.
Currey, John E.; Grotheer, Morris P.; and Cook, Edward H., Jr., to Hooker Chemical Corporation. Electrolysis of dilute brine. 3,745,101, 7-10-73, Cl. 204-98.000.
Currie, Grover C.; and Doll, Brendan L., to Cellu Products Company. Method and apparatus for dispensing cellular web material. 3,744,360, 7-10-73, Cl. 83-23.000.
Currie, Harold Burtis: *See—*
Beltz, John Prickett; and Currie, Harold Burtis, 3,710,322.
Currie, James H.: *See—*
Burley, Harvey A.; Bleil, Carl E.; Rishavy, Edward A.; and Curie, James H., 3,739,753.
Currie, James R.: *See—*
Nola, Frank J.; Currie, James R.; and Reid, Harry, Jr., 3,760,248.
Currie, James R.; and Kissell, Ralph R., to United States of America, National Aeronautics and Space Administration. Ratemeter. 3,729,676, 4-24-73, Cl. 324-78.00e.
Currier, John W.; Gadbois, Richard T.; and Wilde, Arthur G., to Minnesota Mining and Manufacturing Company. Aircraft cleaning. 3,716,066, 2-13-73, Cl. 134-73.000.
Currier, Robert F.: *See—*
Cassel, Carlis E.; and Currier, Robert F., 3,731,888.
Currier-Smith Corporation: *See—*
Bennett, Victor A., Jr., 3,735,367.
Curry, Barney George. Head scratcher. 3,768,463, 10-30-73, Cl. 128-67.000.
Curry, David B. Safety device for gas lift well. 3,724,541, 4-3-73, Cl. 166-224.000.
Curry, Harold George: *See—*
Attwood, Brian William; and Curry, Harold George, 3,743,573.
Curry, James R. Dual function wrench. 3,779,104, 12-18-73, Cl. 81-119.000.
Curry, John D., to Procter & Gamble Company, The. Preparation of phosphine oxides by catalytic oxidation of tertiary phosphines. 3,760,000, 9-18-73, Cl. 260-606.50p.
Curry, John Downing, to Procter & Gamble Company, The. Phenylbismuth bis(2-pyridinethiol 1-oxide). 3,753,990, 8-21-73, Cl. 260-270.00r.
Curry, John J., to Phoenix Closures, Inc. Container and closure. 3,753,512, 8-21-73, Cl. 220-43.00r.
Curry, John J., to Phoenix Closures, Inc. Container and closure combination. 3,773,208, 11-20-73, Cl. 220-43.00r.
Curry, Kenneth V.: *See—*
Mac Mahon, Paul H., 3,764,976.
Curry, Leonard L., to Chevron Research Company. Thermoplastic compositions comprising poly-1-olefin and a polymer of chlorinated oretane. 3,729,530, 4-24-73, Cl. 260-897.00c.
Curry, Samuel J.; and Reisenfeld, Sam, to Hughes Aircraft Company. System for minimizing upstream noise in a subscriber response cable television system. 3,750,022, 7-31-73, Cl. 325-53.000.
Curtin, Christopher J.: *See—*
Frankland, Roger A.; and Curtin, Christopher J., 3,742,286.
Curtis, Anthony J.; Janes, John F.; and Jaggers, Brian G., to Bush Boake Allen Limited. Perfumery compositions. 3,745,131, 7-10-73, Cl. 252-522.000.
Curtis, Brian K., to Bell & Howell Company. Information recording on elongate carriers with carrier presence and/or position determination. 3,769,470, 10-30-73, Cl. 179-100.20s.
Curtis, Burnell P., Jr.; Fannin, Loyd W.; Paulik, Frank E.; and Price, Jerry L., to Monsanto Company. Hydrogen iodide. 3,761,579, 9-25-73, Cl. 423-486.000.



Curtis, Charles Robert; and Lawrence, John Theodore, to AMP In-

Curtis, Charles Robert; and Lawrence, John Theodore, to AMP Incorporated. Electrical terminal having folded blade and method of manufacturing same. 3,742,432, 6-26-73, Cl. 339-276.00t.
Curtis, Delmar E., to International Video Corporation. Conversion of NRZ data to self-clocking data. 3,774,178, 11-20-73, Cl. 340-174.10g.
Curtis, Donald R., to Allis-Chalmers Manufacturing Company. Headbox for cylinder roll papermaking machine. 3,734,821, 5-22-73, Cl. 162-317.000.
Curtis Dyna-Products Corporation: *See*—
Curtis, Russell R.; and Jung, James E., 3,768,732.
Nine, Philip L., 3,748,494.
Curtis, Edgar V.; and Curtis, Mildred J. Folding multiposition loading ramp for trucks, having tail gates. 3,713,553, 1-30-73, Cl. 214-85.000.
Curtis, Flora K. Watch bracelet. 3,780,918, 12-25-73, Cl. 224-4.00h.
Curtis, Frank W., to Lexsuco, Inc. Protected structural and construction materials. 3,725,185, 4-3-73, Cl. 161-89.000.
Curtis, George. Self-propelled bobber. 3,758,975, 9-18-73, Cl. 43-26.100.
Curtis, George F.; and Tatro, Henry J., Jr., to Colt Industries Operating Corporation. Machine gun having trigger group. 3,731,588, 5-8-73, Cl. 89-1.00k.
Curtis, George F.; and Tatro, Henry J., Jr., to Colt Industries, Operating Corporation, mesne. Machine gun. 3,756,119, 9-4-73, Cl. 89-33.00r.
Curtis, Gordon Wilfred: *See*—
Murray, Dudley Charles; and Curtis, Gordon Wilfred, 3,762,327.
Curtis, Helene, Industries, Inc.: *See*—
Forsberg, John R., 3,752,404.
Curtis Instruments, Inc.: *See*—
Finger, Eugene P., 3,742,388.
Finger, Eugene P., 3,778,702.
Marwell, Edward M.; and Finger, Eugene P., 3,777,266.
Curtis, James H., to General Electric Company. Anodized film for electrolytic capacitor and method for preparation thereof. 3,767,541, 10-23-73, Cl. 204-56.00r.
Curtis, John S.; and Miller, Lee A. Plastic pipe bending jig. 3,776,539, 12-4-73, Cl. 269-81.000.
Curtis, L. Paul; Ying, Sui-Chun; and Luzader, James E., to Westinghouse Electric Corporation. Liquid cooled rotor for dynamoelectric machines. 3,733,502, 5-15-73, Cl. 310-61.000.
Curtis, Lawrence A.: *See*—
Bonsky, Elmer C.; and Curtis, Lawrence A., 3,728,488.
Bonsky, Elmer C.; and Curtis, Lawrence A., 3,729,589.
Bonsky, Elmer C.; and Curtis, Lawrence A., 3,757,049.
Curtis, Lawrence A.; and Bonsky, Elmer C., to T.A.D. Avanti Inc. Telephone answering system. 3,723,656, 3-27-73, Cl. 179-2.00a.
Curtis, Little P.; Ying, Sui-Chun; and Dailey, George F., to Westinghouse Electric Corporation. Liquid cooled rotor for dynamoelectric machines. 3,740,596, 6-19-73, Cl. 310-54.000.
Curtis, Malcolm Rex. Kite. 3,740,009, 6-19-73, Cl. 244-153.00r.
Curtis, Malcolm Rex. Kite controller. 3,740,010, 6-19-73, Cl. 244-155.00a.
Curtis, Mildred J.: *See*—
Curtis, Edgar V.; and Curtis, Mildred J., 3,713,553.
Curtis Noll Corporation: *See*—
Light, Arthur, 3,761,320.
Curtis Nuclear Corporation: *See*—
Adams, Raymond J., 3,711,247.
Curtis, Omer E., Jr.: *See*—
Mathew, Chempolil T.; Ulmer, Harry F.; Little, Edwin D.; and Curtis, Omer E., Jr., 3,766,204.
Curtis, Omer E., Jr.; Tuller, Harold W.; O'Neill , Charles T.; and Nussbaum, Ralph W., to Allied Chemical Corporation. Production of low molecular weight polyanhydrides and epoxy compositions derived therefrom. 3,732,332, 5-8-73, Cl. 260-837-.
Curtis, Rolando T., to Integrated Ceilings, Inc. Ceiling grid system with interlocked joints. 3,768,224, 10-30-73, Cl. 52-668.000.
Curtis, Ronald E.; English, Gary L.; and Hense, James R., to Production Technology Inc., mesne. Method of producing a stranded wire assembly by friction welding. 3,728,781, 4-24-73, Cl. 29-470.300.
Curtis, Russell R.; and Jung, James E., to Curtis Dyna-Products Corporation. Intermittent liquid metering system and apparatus. 3,768,732, 10-30-73, Cl. 239-70.000.
Curtis, Willard S.: *See*—
Kerr, David; and Curtis, Willard S., 3,735,955.
Curtis, William I.; and McDaniel, Augustus C., Jr., to Hill Acme Company, The. Shearing apparatus. 3,779,116, 12-18-73, Cl. 83-378.000.
Curtis, William R., to Hercules Incorporated. Plastic spring assembly connected to a support tray. 3,765,038, 10-16-73, Cl. 5-351.000.
Curtis, William R.; and Trimble, David C., to Hercules Incorporated. Plastic spring assembly connected to wire frame. 3,766,580, 10-23-73, Cl. 5-351.000.
Curtis 1000 Inc.: *See*—
Holmes, David, 3,756,468.
Curtiss, Lawrence E., 33 1/3% to Hirschowitz, Basil I. and 33 1/3% to Peters, C. Wilbur. Method for forming glass fibers. 3,753,672, 8-21-73, Cl. 65-3.000.
Curtiss, Robert H.; Holzman, Richard; and Lazarow, Seldan A., to Nortec Computer Devices Inc. High speed print hammer with dynamic damper means. 3,780,648, 12-25-73, Cl. 101-93.00c.
Curtiss, Walter W., Jr., to Goodyear Tire & Rubber Company, The. Triangulated carcass tire. 3,780,783, 12-25-73, Cl. 152-356.000.
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Cuscurida, Michael; and Kmiecik, James Edward, to Jefferson Chemical Company, Inc. Purification of isocyanates. 3,759,971, 9-18-73, Cl. 260-453.0sp.
Cushing, Charles J.; Schwind, Kurt C.; and Vander Neut, Richard D., to Philco-Ford Corporation. Radiation sensitive means for detecting optical flaws in glass. 3,736,065, 5-29-73, Cl. 356-239.000.
Cushing, Charles J.; Schwind, Kurt C.; and Vander Neut, Richard D., to Philco-Ford Corporation. Radiation sensitive means for detecting flaws in glass. 3,743,431, 7-3-73, Cl. 356-239.000.
Cushing, Charles J.; and Schwind, Kurt C., to Philco-Ford Corporation. Flaw detection and marking apparatus. 3,759,620, 9-18-73, Cl. 356-200.000.
Cushing, Donald S.: *See*—
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Cushing, Ralph H., to Northern Natural Gas Company. System for roadbed traversing by pipeline. 3,774,403, 11-27-73, Cl. 61-72.700.
Cushing, Vincent J. Electromagnetic water current meter. 3,759,097, 9-18-73, Cl. 73-194.0em.
Cushman, Charles R.; Hale, James C.; and Anderson, Vernon A., to Autometrics Co. Particle size and percent solids monitor. 3,779,070, 12-18-73, Cl. 73-61.00r.
Cushman, Hal E. Bathroom tissue dispenser. 3,754,804, 8-28-73, Cl. 312-71.000.
Cushman Industries, Incorporated: *See*—
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Swanson, Linwood B., 3,730,539.
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Cushman, Robert H., to Jade Corporation, The. Method of preforming solder to a plurality of terminals. 3,750,265, 8-7-73, Cl. 29-471.300.
Cushman, Robert H., to Jade Corporation, The. Temperature measurement. 3,756,067, 9-4-73, Cl. 73-15.00r.
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Cusic, John W.; and Coyne, William E., to Searle, G. D., & Co. Dibenzo [a,e] cyclopropa [c] cycloheptene derivatives. 3,734,971, 5-22-73, Cl. 260-618.00f.
Cusic, John W.; and Deason, James R., to Searle, G. D., & Co. 2-((Estra-1,3,5 (10)-trien-2-yl)thio)-2-methylpropionic acid derivatives. 3,767,683, 10-23-73, Cl. 260-397.100.



Cusic, John W.; and Le Von, Ernest F., to Searle, G. D., & Co. N-[z-(nitro,1-imidazolyl)ethyl]imides. 3,770,763, 11-6-73, Cl. 260-309.000.
Cusic, John W.; Ellefson, Charles R.; and Levon, Ernest F., to Searle, G. D., & Co. 1-Arylideneamino-4-(2-oxo-3-phenyl-3-benzofuryl)piperazines. 3,773,759, 11-20-73, Cl. 260-240.00g.
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Custer, Harry Willis. V-belt tensioning means. 3,727,884, 4-17-73, Cl. 254-67.000.
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Cuthbert, John David; Hensler, Donald Henry; and Orr, William Harold, to Bell Telephone Laboratories, Incorporated. Fabrication of integrated optical circuits. 3,730,720, 5-1-73, Cl. 96-38.300.
Cuthbert, Laurence Geoffrey; and Anderson, Raymond John, to International Standard Electric Corporation. Analog to digital converter. 3,737,897, 6-5-73, Cl. 340-347.0ad.
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Cutler, Cassius Chapin, to Bell Telephone Laboratories, Incorporated. Conditional replenishment video encoder with predictive updating. 3,720,786, 3-13-73, Cl. 178-7.100.
Cutler, Cassius Chapin, to Bell Telephone Laboratories, Incorporated. Predictive delayed encoders. 3,742,138, 6-26-73, Cl. 178-68.000.
Cutler, Earl F., to Cutler Repaving Inc. Heater for asphalt concrete roadways and the like. 3,724,445, 4-3-73, Cl. 126-271.20a.
Cutler, Hymie, to Bendix Corporation, The. Numerical control system adaptive to workpiece hardness. 3,720,120, 3-13-73, Cl. 82-2.00b.
Cutler, Hymie, to Bendix Corporation, The. Numerical control system for a lathe. 3,725,651, 4-3-73, Cl. 235-151.110.
Cutler, Ivan B., to University of Utah. Production of silicon carbide from rice hulls. 3,754,076, 8-21-73, Cl. 423-345.000.
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Cutler, Leonard S., to Hewlett-Packard Company. Acousto-optic method and apparatus for mode decoupling a ring laser. 3,714,607, 1-30-73, Cl. 332-7.510.
Cutler, Leonard S.; and Holloway, Joseph H., to Hewlett-Packard Company. Molecular beam tube having means for degaussing the magnetic sheilding structure. 3,733,511, 5-15-73, Cl. 315-8.000.
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Cutler, Lester M.; and Friedman, Paul, to Vibra-Spa Products, Inc. Waterproof battery operated vibrator. 3,779,238, 12-18-73, Cl. 128-36.000.
Cutler, Murray J. Protective shield device. 3,766,865, 10-23-73, Cl. 109-49.500.
Cutler, Norman W.; Pasieka, John F.; and Seider, Myron A., to Polaroid Corporation. Photographic apparatus. 3,777,645, 12-11-73, Cl. 95-49.000.
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Cwycyshyn, Walter; and Kitchen, Elwyn L., Jr., to General Motors Corporation. Sensor. 3,730,004, 5-1-73, Cl. 73-514.000.
Cwycyshyn, Walter; and Kitchen, Elwyn L., Jr., to General Motors Corporation. Vehicle positioning and restraint apparatus. 3,738,481, 6-12-73, Cl. 206-46.00m.
Cwycyshyn, Walter; and Kitchen, Llwyn L., Jr., to General Motors Corporation. Vehicle positioning and restraint apparatus. 3,739,906, 6-19-73, Cl. 206-65.00r.
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Cyba, Henryk A.; and Sparks, Allen K., to Universal Oil Products Company. Novel flame retardant compositions of matter. 3,734,758, 5-22-73, Cl. 106-193.00r.
Cyba, Henryk A.; and Rosenwald, Robert H., to Universal Oil Products Company. Lubricant additive mixture. 3,755,171, 8-28-73, Cl. 252-51.50r.
Cyba, Henryk A., to Universal Oil Products Company. Flame retardant compositions of matter. 3,763,090, 10-2-73, Cl. 260-45.80n.
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Cyphelly, Ivan Jaroslav. Rotary control valve. 3,768,516, 10-30-73, Cl. 137-625.460.
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Czajkowski, Norman; Cammack, Thomas A.; Pickler, William C.; and Donahue, William J., to United States of America, Navy. Fuze arming device. 3,768,415, 10-30-73, Cl. 102-70.2ga.
Czaplinski, Thomas V.; and Haney, Thomas A., to Squibb, E. R., & Sons, Inc. Disposable pharmaceutical sterile closures. 3,709,365, 1-9-73, Cl. 210-233.000.
Czaplinski, Thomas V., to Squibb, E. R., & Sons, Inc. Transparent storage container for TC-99M eluate. 3,769,490, 10-30-73, Cl. 250-432.000.
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Czarnecki, Stephen J.; Evers, Harry G.; Kellogg, Frank; Newcum, William W.; Vogel, Richard F.; and Woodward, John W., to GTE Automatic Electric Laboratories, Incorporated. Electromechanical common control crosspoint telephone switching system. 3,760,117, 918-73, Cl. 179-18.0gc.
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Czekay, Arno; Kramer, Bruno; and Weiden, Hans. Process for the manufacture of impact resistant thermoplastic moulding materials. 3,759,863, 9-18-73, Cl. 260-33.6aq.
Czekay, Arno; Kramer, Bruno; and Kaiser, Karl, to Knapsack Aktiengesellschaft. Process for the manufacture of suspension polyvinyl chloride of porous structure and high apparent density. 3,776,894, 12-4-73, Cl. 260-12.80w.
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Da Silva, Miguel. Lock and alarm. 3,714,922, 2-6-73, Cl. 116-14.000.
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Shur, Eliakum Gustave; and Dabal, Robert, 3,772,062.
Dabe, Dolores T., to Poirette Corsets, Inc. Shirred girdle. 3,774,621, 11-27-73, Cl. 128-539.000.
Dabringhausen, Erich: *See—*
Goldbach, Horst; Brandenburg, Rudolf; and Dabringhausen, Erich, 3,728,819.
Dabrowski, Casimer J., to Seeburg Corporation of Delaware, The. Vending machine pricing control arrangement. 3,716,124, 2-13-73, Cl. 194-1.00n.
Dach, Hansjorg; and Gackstetter, Gunter, to Zahnradfabrik Friedrichshafen AG. Gear shift control system. 3,710,647, 1-16-73, Cl. 74-731.000.
Dach, Hansjorg; Bordowsky, Karl Heinz; and Bucksch, Manfred, to ZF Getriebe Gesellschaft mit beschrankter Haftung. Multiple coupling for planetary-gear trains. 3,747,727, 7-24-73, Cl. 192-18.00a.
Dach, Hansjorg; and Gackstetter, Gunter. Gear shift control system. 3,765,271, 10-16-73, Cl. 74-731.000.
Dach, Hansjorg; Bordowsky, Karl Heinz; and Bucksch, Manfred, to ZF-Borg Warner GmbH. Planet carrier for planetary-gear transmission. 3,780,601, 12-25-73, Cl. 74-762.000.
Dachs, Norman W.: *See—*
Dever, James L.; and Dachs, Norman W., 3,773,711.
Daco Safety Products, Inc.: *See—*
Mangels, Ralph W., 3,716,170.
Dacons, Joseph C., to United States of America, Navy. Nonanitroterphenyl. 3,755,471, 8-28-73, Cl. 260-645.000.
Dacons, Joseph Carl, to United States of America, Navy. 2,4,6-Tripicryl-s-triazine. 3,755,321, 8-28-73, Cl. 260-248.0cs.
Dadario, Michael G.: *See—*
Weinberg, Harold; Rogers, Marvin E.; Dadario, Michael G.; and Benson, James A., 3,716,835.
D'Addea, Nunzio; Panzeri, Cesare; and Chiappulini, Ruggero, to Consiglio Nazionale delle Ricerche. Electro hydraulic motors. 3,721,158, 3-20-73, Cl. 91-35.000.
Daddis, Arthur W., to United Billiards, Incorporated. Coin actuated device having a solenoid leaf release microswitch. 3,762,527, 10-2-73, Cl. 194-9.00r.
Daddona, Domenic John, Jr., to Scovill Manufacturing Company. Decorative shield or botton assembly. 3,745,613, 7-17-73, Cl. 24-94.000.
Dadic, Miroslav: *See—*
Van Gheluwe, Joris E. A.; and Dadic, Miroslav, 3,770,455.
Dadic, Miroslav; Van Gheluwe, Joris E. A.; and Valyi, Zoltan, to Molson Industries, Limited. Stabilization of fermented malt beverages. 3,770,453, 11-6-73, Cl. 426-227.000.
Dadura, James G.: *See—*
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Daedalus Enterprises, Inc.: *See—*
England, George; and Warner, Dwight Allen, 3,752,914.
Parker, Alan Keith; and Warner, Dwight Allen, 3,752,915.
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Daehnert, Raymond H., to Allied Chemical Corporation. Harvesting aid. 3,730,703, 5-1-73, Cl. 71-69.000.
Daenen, Robert, to Dart Industries, Inc. Butter container or the like. 3,709,397, 1-9-73, Cl. 220-42.00a.
Daenen, Robert; and Swett, James B., to Dart Industries, Inc. Egg cup. 3,713,528, 1-30-73, Cl. 206-1.000.
Daeninckx, Jean; and Bouvet, Rene Jules, to L'Oreal. Method of vacuum-packaging insecticidal materials. 3,717,303, 2-20-73, Cl. 239-55.000.
Daffron, Vernon M., to Wagner Electric Corporation. Control valve. 3,760,841, 9-25-73, Cl. 137-493.000.
Dafler, Gene L.; and Magyar, Lorand W., to General Motors Corporation. Circuit breaker. 3,718,162, 2-27-73, Cl. 337-94.000.
Dafler, James R.; and Niederberger, Richard P., to ESB Incorporated. Battery construction. 3,741,810, 6-26-73, Cl. 136-86.00a.
Daga, Giorgio Abbate; Cerrocchi, Lino; and Fracassi, Pietro, to Montecatini Edison S.p.A. and Guardigli S.p.A. System for protecting electrolytic cells against short circuits. 3,723,285, 3-27-73, Cl. 204-228.000.
Dagani, Michael J., to Ethyl Corporation. Production of organic halides and tertiary phosphine sulfides. 3,763,241, 10-2-73, Cl. 260-606.50p.
Dagani, Michael J.; and Pearson, Tillmon H., to Ethyl Corporation. Process for synthesizing citric acid. 3,769,338, 10-30-73, Cl. 260-535.00p.
Dageford, Ernest C., to BEC Products, Inc., mesne. Remote ultrasonic sending device for air conditioner. 3,729,735, 4-24-73, Cl. 340-419.000.
Dageford, Ernest C., to BEC Products, Inc., mesne. Compressor protector system. 3,742,303, 6-26-73, Cl. 317-13.00a.
Dagenham, Dock: *See—*
Cunningham, Victor Ralph; Dagenham, Dock; and Boutle, David Leonard, 3,729,538.
Dagerford, Ernest C., to BEC Products, Inc., mesne. Air conditioning and heating control system including control panel. 3,743,009, 7-3-73, Cl. 165-11.000.
Dagga, Faisal Abo: *See—*
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Daghir, Khalil S.: *See—*
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Dagiel, Richard T., to Symons Corporation. Waler clamping assembly for a concrete wall form. 3,712,576, 1-23-73, Cl. 249-192.000.
Dagley, Edgar Edward, to Automated Building Components New Zealand Limited. Timber connectors and/or machines for making the same. 3,775,789, 12-4-73, Cl. 10-52.000.
Dagon, Thomas J.: *See—*
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D'Agostino, Candido: *See—*
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D'Agostino, Joseph, Jr. Boat docking device. 3,750,612, 8-7-73, Cl. 114-221.000.
D'Agostino, Michael, mesne: *See—*
D'Agostino, Michael V., 3,739,200.
D'Agostino, Michael V., to D'Agostino, Michael, mesne. Lief, Arthur, Harrison, Hershel and Armour, James. FET interface circuit. 3,739,200, 6-12-73, Cl. 307-304.000.
Dagwell, Harold Lloyd: *See—*
Allen, Ronald Noel; and Dagwell, Harold Lloyd, 3,726,303.
Dahill, Robert T., Jr., to Givaudan Corporation. Myrcene-methacrylonitrile adduct. 3,714,220, 1-30-73, Cl. 260-464.000.
Dahl, Christian W., to Hartzell Corporation. Motorcycle dynamometer. 3,733,894, 5-22-73, Cl. 73-117.000.
Dahl, Eileen C. Vehicle wheel position indicator. 3,734,051, 5-22-73, Cl. 116-31.000.
Dahl, Einar S.; and Kidd, Earl H., to Outboard Marine Corporation. Rotary lawn mower with safety features. 3,729,911, 5-1-73, Cl. 56-320.200.
Dahl, Erik Ovale; and Hustvedt, Ole, to Elkem A/S. Discharging device for containers in which particulate material is treated with gases in counter-current flow. 3,739,494, 6-19-73, Cl. 34-174.000.
Dahl, Ernest A., Jr. Microfilm holder. 3,736,680, 6-5-73, Cl. 40-105.500.
Dahl, Eugene L.: *See—*
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Dahl, Henry A.: *See—*
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Dahl, James N., to Honeywell Information Systems Inc. Monolithic decimal, binary and logic function generator modular BCD and binary arithmetic and logical system. 3,711,693, 1-16-73, Cl. 235-174.000.
Dahl, Klaus J., to Raychem Corporation. Spray drying process. 3,751,398, 8-7-73, Cl. 260-47.00r.
Dahl, Nils J., to Crystal Thermoplastics, Inc. Openable and closable package. 3,749,236, 7-31-73, Cl. 206-45.340.
Dahl, Norman C.; and Tabor, Joseph A. Method of forming a nut. 3,757,372, 9-11-73, Cl. 10-86.00r.
Dahl, Norman C. Fixed force level bolt. 3,757,630, 9-11-73, Cl. 85-62.000.
Dahl, Robert R., to Eaton Corporation. Stress limiting hoist. 3,741,527, 6-26-73, Cl. 254-168.000.
Dahl, Rolf, to Continental Tapes, Incorporated. Method of impregnating paper. 3,752,700, 8-14-73, Cl. 117-155.00r.
Dahl, Rolf, to Continental Tapes, Incorporated. Method of making high temperature polyurethane pressure-sensitive adhesive tape. 3,756,848, 9-4-73, Cl. 117-122.00p.
Dahl, Rolf. Process of making polyurethane pressure-sensitive adhesive tape. 3,761,307, 9-25-73, Cl. 117-122.00p.
Dahl, Rolf, to Continental Tapes, Incorporated. Certain permeable materials impregnated with a polyurethane polymer. 3,778,302, 12-11-73, Cl. 117-122.0pb.
Dahl, Rulon R., to Killebrew, Inc. Method of making combined catcher/projector for aerial projectiles. 3,724,058, 4-3-73, Cl. 29-417.000.

Dahl, Walter Charles: *See—*
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Dahl, William R., to Honeywell Inc. Disposable fiber tip marker. 3,778,840, 12-11-73, Cl. 346-30.000.
Dahlberg, Clayton P.: *See—*
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Dahlberg, Jan Anders; Moden, Anders Olof; and Ostlund, Carl Arne Gunnar, to Uddeholms Aktiebolag. Method of manufacturing trichloroacetyl chloride. 3,726,775, 4-10-73, Cl. 204-158.00r.
Dahlberg, John R.; Oravitz, James L., Jr.; and Michalik, Edmund R., to PPG Industries, Inc. Directional control for thermal severing of glass. 3,709,414, 1-9-73, Cl. 225-2.000.
Dahlberg, John R.; Oravitz, James L., Jr.; and Michalik, Edmund R., to PPG Industries, Inc. Thermally directed glass cutting. 3,730,408, 5-1-73, Cl. 225-2.000.
Dahlberg, John R.; and Dear, Terrance A., to PPG Industries, Inc. Method for cutting curved patterns in glass sheets disposed on a fluid air support. 3,740,524, 6-19-73, Cl. 219-121.01m.
Dahlberg, Thomas J., to Rossis Machine Corporation. Method of eliminating cohesion between overlying piles of plastic film material. 3,754,451, 8-28-73, Cl. 93-1.00r.
Dahle, Gerald W. Pencil sharpening machine. 3,750,724, 8-7-73, Cl. 144-28.100.
Dahle, Norman A.; and Doyle, William C., Jr., to Gulf Research & Development Company. Combating unwanted vegetation with 2-aryl-5-substituted 1,3,4-oxadiazoles. 3,718,452, 2-27-73, Cl. 71-92.000.
Dahle, Norman A., to Gulf Research & Development Company. 2-(2', 5'-Dimethylpyrrolidinyl)-5-aryl-1, 3,4-thiadiazoles. 3,743,650, 7-3-73, Cl. 260-306.80d.
Dahlgren, Donald A.; and Nelson, John W., to Upjohn Company, The. Purifying a gamma globulin by contacting a solution of gamma globulin with solid plasma protein free of gamma globulin. 3,745,155, 7-10-73, Cl. 260-112.00b.
Dahlgren, Jan-Ake: *See—*
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Dahlgren, Jan-Ake, to Sonab Development AB. Decoding device for tone sequence codes. 3,774,114, 11-20-73, Cl. 325-492.000.
Dahlgren, Jens Karl Adolf, to Stenberg-Flygt AB. Pumping device with self centering spherical seating surfaces. 3,722,757, 3-27-73, Cl. 222-385.000.
Dahlgren, Lennart Gunnar Oskar; and Alfredsson, Alf Ingvar, to Hasselblad, Fritz Victor. Focal plane shutter gap setting mechanism. 3,744,392, 7-10-73, Cl. 95-57.000.
Dahlgren, Victor F.: *See—*
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Dahlgren, Wallace L. Animal trap. 3,760,530, 9-25-73, Cl. 43-88.000.
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Dahlin, Ake Bertil Ingemar, to Norba Aktiebolag. Apparatus for swinging up and emptying waste-bins or the like, which have different size and possibly also different shape. 3,747,785, 7-24-73, Cl. 214-302.000.
Dahlin, Erik B.: *See—*
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Dahlin, Robert K.; Arnold, Harold J.; Cleland, Hugh M.; Lyon, Robert B.; and Polkinghorn, Robert W., to North American Rockwell Corporation. Pulse train sorter. 3,743,948, 7-3-73, Cl. 328-119.000.
Dahlin, Stanley V., to Swingline, Inc. Staple-removing device. 3,764,108, 10-9-73, Cl. 254-28.000.
Dahlinder, David Georg: *See—*
Bergstrom, Lars Jonas; Buchi, Nils Harje; Hultman, Erik Helmer; Josephson, Bertil August; Vinnars, Erik; Dahlinder, David Georg; and Furst, Peter, 3,764,703.
Dahlinger, Rodney J., to Hughes Aircraft Company. High efficiency current feedback control system. 3,723,756, 3-27-73, Cl. 307-106.000.
Dahlkvist, Nils Goran; and Sander, Nils Borje Lennart, to SAB Brake Regulator Company, Limited. Clutch-release linkage automatic axial-acting slack adjuster. 3,765,522, 10-16-73, Cl. 192-111.00a.
Dahlman, Frederick A.; and Mras, Raymond J., to Corning Glass Works. Pressurized fluid ram acceleration system. 3,762,906, 10-2-73, Cl. 65-160.000.
Dahlman, Keith E., to Minnesota Mining and Manufacturing Company. Polyamide-diazo resin composition. 3,751,257, 8-7-73, Cl. 96-91.00r.
Dahlmans, Johannes J.; and Boesten, Wilhelmus H. J., to Stamicarbon N.V. Preparation of peptides. 3,740,386, 6-19-73, Cl. 260-112.500.
Dahlmans, Johannes J.; and Kerkhoffs, Pieter L., to Stamicarbon N.V. Chemical binding of an amino acid to a chlorosulfonated polymer carrier. 3,775,378, 11-27-73, Cl. 260-78.00a.
Dahlquist, Emil F. Grate. 3,771,511, 11-13-73, Cl. 126-137.000.
Dahlquist, John A.; and Brodie, Ivor, to Photophysics, Inc. Liquid toning apparatus. 3,722,453, 3-27-73, Cl. 118-246.000.
Dahlquist, John A., to Photophysics, Inc. Data terminal system having improved means for producing and delivering flexible record sheets. 3,722,995, 3-27-73, Cl. 355-13.000.
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Dahlstrom, Robert Victor; and Jaehnig, James Herbert, to Du Pont de Nemours, E. I., and Company. Process for the biological production of alpha, omega-alkanedioic acid. 3,773,621, 11-20-73, Cl. 195-28.00r.
Dahm, Franz-Ludwig: *See—*
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Dahm, Wolfram, to Daimler-Benz Aktiengesellschaft. Arrangement of the suction funnel of the lubricating oil pump in the oil sump of an internal combustion engine. 3,727,725, 4-17-73, Cl. 184-6.240.
Dahme, Wolfgang: *See—*
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Dahms, Gerhard: *See—*
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Dahms, Harald. Photoelectric endpoint detection. 3,723,062, 3-27-73, Cl. 23-230.00r.
Dahms, Harald; Levy, Gabor B.; and Seltzer, David A., to Photovolt Corporation. Reagent composition for coulometric Karl Fischer titration. 3,749,659, 7-31-73, Cl. 204-195.00t.
Dahms, Harald. Method of determining $SO_2$ concentration. 3,756,923, 9-4-73, Cl. 204-1.00t.
Dahms, Ronald H.: *See—*
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Dahne, Martin: *See—*
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Daiber, John W.; and Thompson, Herbert M., to Rehm, Ronald G. and Cornell Aeronautical Laboratory, Inc. Laser-driven shock tube. 3,756,344, 9-4-73, Cl. 181-.5np.
Daibo, Katsuo: *See—*
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Daicel, Ltd.: *See—*
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Daido, Takayoshi. Pump or a motor employing a couple of rotors in the shape of cylinders with an approximately cyclic section. 3,726,617, 4-10-73, Cl. 418-150.000.
Daiga, Valdis R., to Owens-Illinois, Inc. Powders of metal silver and gold and processes for making same. 3,717,453, 2-20-73, Cl. 75-.50a.
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Daigle, Donald J.; Reeves, Wilson S.; and Drake, George L., Jr., to United States of America, Agriculture. Flame-resistant organic textiles through treatment with halogen containing soluble methylol phosphine adducts. 3,745,191, 7-10-73, Cl. 260-606.50p.
Daigle, Edwin E.; Luke, Robert R.; Turner, James B.; and Wise, Harold L., to Shell Oil Company. Marine mud hydrocarbon surveying. 3,714,811, 2-6-73, Cl. 73-19.000.
Daigle, Jack R.; Matthews, Mark G.; and Zollinger, Howard A., to Rapistan, Incorporated. Induction apparatus. 3,747,781, 7-24-73, Cl. 198-76.000.
Daigle, Jack R.; Haregger, James D.; Zollinger, Howard A.; and Vander Meer, Clayton H., to Rapistan, Incorporated. Code reading system. 3,751,640, 8-7-73, Cl. 235-61.11e.
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D'Alelio, Gaetano F. Reactive epoxy-onium catalysts for synthesis of polyoxazolidones. 3,737,406, 6-5-73, Cl. 260-47.0ep.
D'Alelio, Gaetano F., to PPG Industries, Inc. Radiation crosslinkable polymers prepared by reacting a polyepoxy compound with an acrylic anhydride of a monocarboxylic acid. 3,770,602, 11-6-73, Cl. 204-159.150.
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Daley, Erika. Tubular assembly having indicia displaying means. 3,738,037, 6-12-73, Cl. 40-68.000.
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Dalglish, Herbert Francis. Light guided center lift. 3,730,368, 5-1-73, Cl. 214-653.000.
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Dalibor, Horst; Stenzel, Gunter; and Gutte, Richard, to Reichhold-Albert-Chemie Aktiengesellschaft. Methods of cementing solid materials. 3,726,739, 4-10-73, Cl. 156-308.000.
Dalibor, Horst, to Reichhold-Albert-Chemie Aktiengesellschaft. Process for the manufacture of soluble organic copolymers as well as their use as binders components, especially in primers and top lacquers for galvanized sheet iron. 3,741,798, 6-26-73, Cl. 17-132.00b.
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Dall'Asta, Gino; Carbonaro, Antonio; Borghi, Italo; and Greco, Alberto, to Goodrich, B. F., Company, The. Process for the preparation of linear, high molecular weight, sulphur vulcanizable copolymer of ethylene, propylene and 1,3-butadiene and catalyst sysems used therein. 3,767,630, 10-23-73, Cl. 260-80.700.
Dall'Asta, Gino; Meneghini, Pietro; and Gennaro, Ugo, to Montecatini Edison S.p.A. High molecular weight substituted (CO) polyalkamers and process for preparing same. 3,772,260, 11-13-73, Cl. 260-88.20f.
Dall'Asta, Gino, to Montecatini Edison S.p.A. Process for polymerizing cycloolefins to polyalkenamers. 3,780,009, 12-18-73, Cl. 260-93.100.
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Dallen, John A., to Standard Products Company, The. Means for preventing panel roll out in a panel mounting system. 3,766,698, 10-23-73, Cl. 52-400.000.
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Dally, James W., to IIT Research Institute. Tension indicating fastener. 3,718,066, 2-27-73, Cl. 85-62.000.
Dally, James W.; and Panizza, Gustavo A., to United States of America, Army. Fatigue damage indicator. 3,738,162, 6-12-73, Cl. 73-88.50r.
Dalman, Austin Lewis. Dump box for chaff and the like. 3,749,445, 7-31-73, Cl. 298-26.000.



Dalmasso, Claudio, to Olivetti, Ing., C., & C. S.p.A. Integrated circuit package and construction technique. 3,775,838, 12-4-73, Cl.
Daman, Louis F., to Singer Company, The. Cam follower release

Dalmasso, Claudio, to Olivetti, Ing., C., & C. S.p.A. Integrated circuit package and construction technique. 3,775,838, 12-4-73, Cl. 29-577.000.
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Parmeggiani, Paolo; Nicita, Domenico; and D'Alo, Bruno, 3,752,457.
Daloz, Jacques Maurice, to Etablissements Daloz. Belt-type clutch coupling. 3,747,724, 7-24-73, Cl. 180-75.000.
Dalpak Corporation, The: *See—*
Long, Donald V.; Derby, Norwin Cedric; and Chorak, Peter P., 3,770,189.
Dalrymple, Jerry C. Dust collector shroud. 3,707,998, 1-2-73, Cl. 141-93.000.
Dalrymple, William P. Coupling assembly. 3,737,014, 6-5-73, Cl. 192-30.00r.
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Dalske, Sylvester A.; and Dalske, Jewelle M. Device to ruffle or pleat material. 3,767,091, 10-23-73, Cl. 223-32.000.
Dalton, Jerry Owen; and Graver, Richard Byrd, to Celanese Coatings Company. Acidic deposition process. 3,709,743, 1-9-73, Cl. 148-6.200.
Dalton, John E.; and Lia, Victoria. Folding, rocking, posture adjusting wheel chair. 3,712,671, 1-23-73, Cl. 297-258.000.
Dalton, John J.; and Skolnik, Marvin B., to International Business Machines Corporation. Gray scale gas panel. 3,735,182, 5-22-73, Cl. 313-188.000.
Dalton, John, Jr., to Keystone Lighting Corporation. Hanger for lighting fixtures. 3,780,973, 12-25-73, Cl. 248-342.000.
Dalton, John Vincent; Mac Rae, Alfred Urquhart; Mathews, James Robert; Moline, Robert Alan; Pickar, Kenneth Arnold; and Seidel, Harvey Donald, to Bell Telephone Laboratories, Incorporated. Ion implanted silicon diode array targets for electron beam camera ubes. 3,717,790, 2-20-73, Cl. 317-1.500.
Dalton, Michael S., to Avco Corporation. Sensor employing a resistance variation detecting system. 3,754,508, 8-28-73, Cl. 102-70.20r.
Dalton, Robert L., to R.D. Products Inc. Photographic camera. 3,726,192, 4-10-73, Cl. 95-1.100.
Dalton, Robert L., to R. D. Products, Inc. Process of making identification cards. 3,738,836, 6-12-73, Cl. 96-43.000.
Dalton, Thomas B., to Westran Corporation. Switch operating mechanism for limit switches. 3,712,965, 1-23-73, Cl. 200-17.00r.
Dalton, Thomas B., to Westran Corporation. Actuating device. 3,715,530, 2-6-73, Cl. 200-47.000.
Dalton, Thomas B., to Westran Corporation. Assist mechanism for fold-up landing gear. 3,726,543, 4-10-73, Cl. 280-150.500.
Dalton, Thomas B., to Westran Corporation. Solenoid actuated switching device for electric motor control circuit. 3,739,309, 6-12-73, Cl. 335-181.000.
Dalton, Thomas B., to Westran Corporation. Two stage fluid pump. 3,776,665, 12-4-73, Cl. 417-252.000.
Dalton, Virgil D. Dolly for moving vehicles. 3,738,672, 6-12-73, Cl. 280-3.000.
Daly, Frank Joseph: *See—*
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Daly, Norman Richard, to United Kingdom Atomic Energy Authority. Ion beam intensity measuring apparatus. 3,774,028, 11-20-73, Cl. 250-294.000.
Daly, Patrick J.; Grogg, William E.; Layman, Stuart F.; Orlando, Harold J.; Perry, James E.; and Van Derlaske, Dennis P., to United States of America, Army. Universal viewer for far infrared. 3,760,181, 9-18-73, Cl. 250-83.30h.
Daly, Richard H.; Brink, Robert V.; and Andersen, Kare, to Chicago Rawhide Manufacturing Company. Injection molding apparatus. 3,746,491, 7-17-73, Cl. 425-233.000.
Daly, Richard T.; Kaplan, Robert A.; and Cohen, Martin G., to Quantronix Corporation. Resonant acousto-optical device. 3,749,476, 7-31-73, Cl. 350-161.000.
Daly, Robert A., to Emhart Corporation. Plunger support means for molten glass feeder. 3,711,266, 1-16-73, Cl. 65-328.000.
Dalzell, John F., to Offshore Company, The. Mooring system. 3,726,247, 4-10-73, Cl. 114-206.00r.
Dalziel, Donald F.; and Heide, Charles H., to Webster Electric Company, Inc. Thermally actuated switch. 3,781,742, 12-25-73, Cl. 337-77.000.
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Daman, Leonard Salisbury, to Deere & Company. Heat-exchanger for power plants, especially motor vehicles. 3,757,853, 9-11-73, Cl. 165-76.000.
Daman, Louis F., to Singer Company, The. Cam follower release mechanism for sewing machines. 3,724,282, 4-3-73, Cl. 74-54.000.
Damas Jens Nielsens Maskinfabrik A/S: *See—*
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D'Amato, Nicholas J. Non-clogging closure cap. 3,776,424, 12-4-73, Cl. 222-94.000.
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Gazzola, Ivaldo; D'Amato, Salvatore F.; and Foote, Chauncey P., Jr., 3,759,177.
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D'Amato, Salvatore F.; Guertin, Clifford D.; and Lednicer, Oliver, to American Bank Note Company. Portable lamp for viewing fluorescent material. 3,725,694, 4-3-73, Cl. 240-6.40r.
Damberger, Clifford. Oil skimming apparatus. 3,726,406, 4-10-73, Cl. 210-242.000.
Dambrine, Francis: *See—*
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Dambrine, Francis; and Gross, Gilles, to Fives Lille-Cail. Calcining phosphate minerals. 3,723,597, 3-27-73, Cl. 263-32.00r.
Dame, Richard F.; and Schmidt, Ewald E. Piezoelectric actuator. 3,766,415, 10-16-73, Cl. 310-8.300.
Dame, Robert R.: *See—*
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Damico, Armand S. Automatic vehicle alerting signal system. 3,713,094, 1-23-73, Cl. 340-66.000.
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D'Amico, John. Swivel tailed kite. 3,779,490, 12-18-73, Cl. 244-153.00r.
D'Amico, John J., to Monsanto Company. Synthesis of 2,2'-iminobis (benzothiazoles). 3,726,889, 4-10-73, Cl. 260-305.000.
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D'Amico, John Joseph, to Monsanto Company. 2-Benzimidazolyldithio carbamates. 3,726,866, 4-10-73, Cl. 260-247.100.
D'Amico, John Joseph; and Mullins, Darrell Dexter, to Monsanto Company. 3-Carbocyclic-5,5-dialkyl-2-imidazolidinethiones. 3,728,355, 4-17-73, Cl. 260-309.700.
D'Amico, John Joseph, to Monsanto Company. Bis dithiocarbanilates. 3,739,006, 6-12-73, Cl. 260-455.00a.
D'Amico, John Joseph, to Monsanto Company. Vulcanizable compositions containing cyanoisothiazolyl bis (dithiocarbamates). 3,751,401, 8-7-73, Cl. 260-79.50b.
D'Amico, John Joseph, to Monsanto Company. 1,1-Di(aminoalkylthio)-2,2-dicyanoethylenes. 3,776,891, 12-4-73, Cl. 260-79.50b.
D'Amico, John Joseph, to Monsanto Company. 2-(N-2-cyanoethyldithiocarbamylmethylene) benzimidazoles. 3,776,920, 12-4-73, Cl. 260-309.200.
D'Amico, John Joseph, to Monsanto Company. Cyanoisothiazolyl bis(dithio-carbamates). 3,781,285, 12-25-73, Cl. 260-247.100.
D'Amico, Paul. Line holder-cutter hand tool, selective guage and shell-shocking means, in combination. 3,761,976, 10-2-73, Cl. 7-14.250.
D'Amico, Paul M.; and Higgs, Roland W., to Honeywell Inc. Underwater acoustic device. 3,756,345, 9-4-73, Cl. 181-33.00g.
Damico, Ralph A., to Procter & Gamble Company, The. Process for preparing pyridine N-oxide carbanion salts and derivatives thereof. 3,773,770, 11-20-73, Cl. 260-290.00r.
D'Amico, Thomas V.: *See—*
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Damm, Charles C.; Osher, John E.; and Post, Richard F., to United States of America, Atomic Energy Commission. High energy neutral particle beam source. 3,742,219, 6-26-73, Cl. 250-84.000.
Damm, David A., to Owens-Illinois, Inc. Memory system having two clock pulse frequencies. 3,757,940, 9-11-73, Cl. 209-74.00m.
Damm, David A.; and McKim, Robert G., to Owens-Illinois, Inc. Apparatus and method for monitoring the status of a radio frequency thickness gauge. 3,776,380, 12-4-73, Cl. 209-111.500.
Dammann, Hans, to U.S. Philips Corporation. Method of manufacturing a hologram by means of nonlinear recording materials. 3,767,284, 10-23-73, Cl. 350-3.500.
Dammon, James R., to Fairfield Manufacturing Company, Inc. Wheel drive unit. 3,762,488, 10-2-73, Cl. 180-66.00f.
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Damon, Glenn H.; Ribovich, John; and Merickes, Joseph A., to United States of America, Navy. Fuel and fuel igniter for ram jet and rocket. 3,754,511, 8-28-73, Cl. 102-102.000.
Damon, Melvin H., to Electronic Navigation Industries Incorporated. Acoustic navigation system. 3,723,957, 3-27-73, Cl. 340-5.00r.
Damon, Paul H.: *See—*
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Damratowski, Leonard P., to Carrier Corporation. Apparatus for and a method of operating power recovery equipment. 3,777,486, 12-11-73, Cl. 60-105.000.
Damron, John W., to Dana International Ltd. Heating apparatus. 3,781,526, 12-25-73, Cl. 219-538.000.
Damsky, Walter; Joisten, Siegfried; and Sajben, Janos, to Farbenfabriken Bayer Aktiengesellschaft. Apparatus for the production of precision castings or injection-mouldings from plastics. 3,711,234, 1-16-73, Cl. 425-307.000.
Damwyk, Ariens. Treatment of bananas with calcium hydrated lime and product thereof. 3,728,131, 4-17-73, Cl. 99-103.000.
Damy, Sergio Rene. Railroad frog assembly. 3,755,670, 8-28-73, Cl. 246-468.000.
Dan River Inc.: *See—*
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Dance, Arthur, to Townson & Coxson Limited. Tubular valve or other housing having an outwardly-extending flange engageable by an inwardly-flanged, internally screw-threaded connecting ring. 3,767,166, 10-23-73, Cl. 251-366.000.
Dance, Eldred L.; and Shaw, Kernal G. Continuous process for the solution polymerization of olefinic monomers. 3,726,849, 4-10-73, Cl. 260-93.100.
Dancis, Douglas E.; Dorfuss, Gerald E.; and Zitron, Benjamin C., to Allied Management & Systems Corporation. Multifunction routing network. 3,731,282, 5-1-73, Cl. 340-172.500.
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Dancy, Julian H.; Wiley, William O.; and Tyson, Thomas L., to Texaco Inc. Vortex combustion chamber. 3,711,238, 1-16-73, Cl. 431-173.000.
Dancy, William B., to International Minerals & Chemical Corporation. Beneficiation of potash. 3,746,265, 7-17-73, Cl. 241-20.000.
Dancy, William B., to International Minerals & Chemical Corporation. Benefication of a clay containing sylvinitc ore. 3,750,963, 8-7-73, Cl. 241-20.000.
Dand, Harvey Stewart, to McDonnell Douglas Corporation. Store release mechanisms. 3,722,944, 3-27-73, Cl. 294-83.000.
Dandl, Raphael A., to United States of America, Atomic Energy Commission. Bumpy torus plasma confinement device. 3,728,217, 4-17-73, Cl. 176-3.000.
Dandliker, Rene, to U.S. Philips Corporation. Apparatus for determining the position of an object in an arbitrary cross-section of a beam of radiation. 3,717,404, 2-20-73, Cl. 356-106.000.
Dandliker, Rene; and Mottier, Francois, to Aktiengesellschaft Brown, Boveri & Cie. Process and apparatus for investigating the coherence of light radiation. 3,776,636, 12-4-73, Cl. 356-106.000.
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Stapper, Christian H.; and D'Andrea, Richard W., 3,772,328.
D'Andrea, Robert A. Aquariums. 3,759,223, 9-18-73, Cl. 119-5.000.
Dandrel, Pierre; and Moreau, Jean-Francois, to U.S. Philips Corporation. Character generator for producing characters on the screen of a cathode-ray tube. 3,755,805, 8-28-73, Cl. 340-324.00a.
Dane, Ernest B., Jr. Ship sections adapted for disassembly and re-assembly at sea. 3,732,840, 5-15-73, Cl. 114-77.00r.
Dane, Ernest Blaney, Jr. Undersea coring machine with means for separating samples. 3,714,996, 2-6-73, Cl. 175-6.000.
Dane, Ernest Blaney, Jr. Hoist piping for deep-sea mineral slurry. 3,736,077, 5-29-73, Cl. 417-424.000.
Dane, Ivo; Fromandi, Guido; Blankenstein, Paul; Muller, Erwin; Freytag, Helmut; and Wother, Wolfgang, to Bayer Aktiengesellschaft. Adhering textiles and metals to rubber and product. 3,751,331, 8-7-73, Cl. 161-83.000.
Daneel, Charl M., to Baggers (Proprietary) Limited. Centrifugal pumps. 3,732,032, 5-8-73, Cl. 416-144.000.
Danega, Robert E.; and Freska, Edward S. Baseball tally card. 3,755,939, 9-4-73, Cl. 40-70.00r.
Danehy, Robert P.; Kitchell. Bruce N.; and Silva, Antonio V., to Westinghouse Electric Corporation. Method and apparatus for cold rolling mill gauge deviation correction. 3,777,524, 12-11-73, Cl. 72-8.000.
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Danek, Michael J., to General Motors Corporation. Brake operated throttle override device. 3,750,780, 8-7-73, Cl. 192-3.00r.
Danel, Jacques. Extensible support frameworks for furniture, particularly display furniture. 3,749,251, 7-31-73, Cl. 211-126.000.
Danell, Curt; and Rodhe, Peder Magnus, to Telefonaktiebolaget L M Ericsson. Method for transmitting pulse like signals. 3,732,499, 5-8-73, Cl. 328-165.000.
Danesi, Raul P., to Cable Electric Products, Inc. Multiple service extension cord. 3,772,633, 11-13-73, Cl. 339-28.000.
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Danesi, Wilbert P.; and Thielemann, Rudolf H., to Martin Metals Company. Nickel base alloy. 3,720,509, 3-13-73, Cl. 75-171.000.
Danforth, Donald W., to Bolton-Emerson Inc. Freeness testing apparatus and method for open containers. 3,733,888, 5-22-73, Cl. 73-63.000.
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D'Angelo, Antonio Joseph; Mageli, Orville Leonard; and Sheppard, Chester Stephen, to Pennwalt Corporation. Peroxy compounds containing a carbonate group. 3,725,455, 4-3-73, Cl. 260-463.000.

D'Angelo, Joseph John. Multi-level apparatus for folding large flexible webs. 3,751,029, 8-7-73, Cl. 270-69.000.

D'Angelo, Nicola. Reciprocating saw chuck. 3,781,025, 12-25-73, Cl. 279-83.000.

Dangles, Elsic R. M.: *See—*
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Dangschat, Rainer, to Siemens Aktiengesellschaft. High voltage resistant electrical component, in particular for color television receivers. 3,716,776, 2-13-73, Cl. 321-8.00r.

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Danhauser, Justus, to Agfa-Gevaert Aktiengesellschaft. Photographic dye diffusion transfer process. 3,730,718, 5-1-73, Cl. 96-29.00d.

Danhauser, Justus; and Marx, Paul, to Agfa-Gevaert Aktiengesellschaft. Dye diffusion transfer process for the production of positive color photographic images. 3,736,136, 5-29-73, Cl. 96-3.000.

Daniel, Arnold; and Richey, Joseph B., II. Method of vacuum casting metal. 3,712,364, 1-23-73, Cl. 164-4.000.

Daniel, Curtis M. Jack stick connector. 3,780,774, 12-25-73, Cl. 139-87.000.

Daniel, Daniel S.; and Heseltine, Donald W., to Eastman Kodak Company. Novel borinium cyanine dyes. 3,745,160, 7-10-73, Cl. 260-240.00d.

Daniel, David J. Ben; Fielding, John O.; and Hurwitz, Henry, Jr. Audio reproducing apparatus for ramdom access playback systems. 3,740,055, 6-19-73, Cl. 274-9.0ra.

Daniel, Dorce L. Apparatus for anchoring a structure to earth matter. 3,724,145, 4-3-73, Cl. 52-157.000.

Daniel, Edmond: *See—*
Reynard, Remi; Tindy, Roger; and Daniel, Edmond, 3,711,000.

Daniel, Edmond, to Societe Creusot-Loire. Apparatus for facilitating the passage of rigid connectors coupling flexible elements around a rotary member. 3,776,516, 12-4-73, Cl. 254-190.00r.

Daniel, Fred P., to ESB Incorporated. Battery having terminal molded in wall of container. 3,711,335, 1-16-73, Cl. 136-135.00s.

Daniel Industries, Inc.: *See—*
Mueller, Allen Howard, 3,768,006.
Siroman, Larry J., 3,745,318.
Stroman, Larry J., 3,713,337.

Daniel, John H., Jr., to Commercial Solvents Corporation. Dust-free polyols. 3,767,712, 10-23-73, Cl. 260-615.00r.

Daniel, John Lewis, to Du Pont de Nemours, E. I., and Company. Bonded nonwoven sheet bearing a lubricating composition of a liquid polysiloxane and a liquid polyoxypropylene compound. 3,772,069, 11-13-73, Cl. 117-138.80e.

Daniel, Peter James, to U.S. Philips Corporation. Methods of manufacturing semiconductor devices. 3,715,242, 2-6-73, Cl. 148-11.500.

Daniel, Robert T.: *See—*
Cross, Edward A.; Frye, Richard L.; Daniel, Robert T.; and Bright, Gordon S., 3,773,663.

Daniel, Roger P.: *See—*
Berton, Roger J.; Daniel, Roger P.; and Reuter, Conrad N., 3,740,871.

Daniel, Roger P.; and Rhodes, Alex, to Ford Motor Company. Steering wheel inflatable cushion device. 3,752,501, 8-14-73, Cl. 280-150.0ab.

Daniel, Roger P.; and Resh, Robert E., to Ford Motor Company. Crash dummy viscous neck. 3,753,301, 8-21-73, Cl. 35-17.000.

Daniel, Roger P., to Ford Motor Company. Anthropomorphic test dummy torso. 3,753,302, 8-21-73, Cl. 35-17.000.

Daniel, Roger P., to Ford Motor Company. Crash dummy chest structure. 3,757,431, 9-11-73, Cl. 35-17.000.

Daniel, William H. Airfoil vacuum pump with tapered rotor. 3,734,640, 5-22-73, Cl. 415-213.000.

Daniel, William H. Liquid separator. 3,746,173, 7-17-73, Cl. 210-258.000.

Daniele, Phillip Paul: *See—*
Angner, Ronald Joseph; and Daniele, Phillip Paul, 3,718,781.

Danieli & C. S.p.A.: *See—*
Poran, Michael, 3,727,498.
Poran, Michael, 3,760,670.

Danielis, Joseph U. Brick composition. 3,719,512, 3-6-73, Cl. 106-106.000.

Daniell, Gerald Wallace. Artificial line bridge subscriber dial long line equipment tester. 3,740,497, 6-19-73, Cl. 179-175.300.

Daniels, Alma U., to Du Pont de Nemours, E. I., and Company. Titanium carbide-nickel composition process. 3,762,919, 10-2-73, Cl. 75-204.000.

Daniels, Alma U.; and Iler, Ralph K., to Du Pont de Nemours, E. I., and Company. Aluminum oxide based articles of jewelry. 3,776,706, 12-4-73, Cl. 29-182.500.

Daniels, Archer, Midland Company: *See—*
Pour-El, Akiva; and Swenson, Thomas C., 3,713,843.
Pour-El, Akiva; and Swenson, Thomas C., 3,741,771.
Pour-El, Akiva; and Reddy, Gollamudi Venka, 3,769,437.

Daniels, Brian K.; Preston, Jack; and Zaukelies, David A., to Monsanto Company. Flexible rubber articles reinforced with fiber of certain polyamide-hydrazide polymers. 3,717,542, 2-20-73, Cl. 161-170.000.

Daniels, Calvin L.; and Watson, James M., to Cosden Oil & Chemical Company. Purification of acetylenically unsaturated hydrocarbons. 3,720,727, 3-13-73, Cl. 260-674.00r.

Daniels, Calvin Lee: *See—*
Debus, Henri Robert; Van Tongelen, Marcel; Cahen, Raymond M.; and Daniels, Calvin Lee, 3,776,965.

Daniels, Charles J.; and La Branche, Harvey W., to Mattel, Inc. Disc drive. 3,720,415, 3-13-73, Cl. 274-39.00a.

Daniels, Charles K.; and McCarthy, John P., to EG & G, Inc. Underwater guidance method and apparatus. 3,731,263, 5-1-73, Cl. 340-3.00r.

Daniels, Charles R.; and Kinzer, Kenneth D., to Ferromagnetics, Inc. High voltage power supply for copying apparatus or the like. 3,723,850, 3-27-73, Cl. 321-47.000.

Daniels, Clare G.; and Mazelsky, Bernard, to ARA, Inc. Energy absorbing device. 3,719,255, 3-6-73, Cl. 188-1.00c.

Daniels, Dale L.; and Purnival, Thomas J., to General Motors Corporation. Method of fabricating a semiconductor enclosure. 3,751,800, 8-14-73, Cl. 29-589.000.

Daniels, David H. Process and apparatus for making shakes. 3,754,586, 8-28-73, Cl. 144-326.000.

Daniels, Dennis: *See—*
Weisbeck, Ralph L.; and Daniels, Dennis, 3,715,947.

Daniels, Dennis, to U.S. Amada, Ltd. Ironworker. 3,717,059, 2-20-73, Cl. 83-401.000.

Daniels, Dennis, to U.S. Amada, Ltd. Punch press. 3,717,061, 2-20-73, Cl. 83-409.000.

Daniels, Dennis, to U.S. Amada, Ltd. Unitized ram drive for a punch press. 3,760,676, 9-25-73, Cl. 83-590.000.

Daniels, Donald V.: *See—*
Applequist, James E.; Johnson, James E.; Akers, Clifford B.; Daniels, Donald V.; James, Richard N.; Roberts, Daniel M.; and Guzy, Darrel James, 3,768,714.

Daniels, E. Robert. Orthopedic traction table. 3,766,912, 10-23-73, Cl. 128-71.000.

Daniels, Edward G., to Upjohn Company, The. Process for producing an esterase. 3,761,356, 9-25-73, Cl. 195-62.000.

Daniels, Jesse: *See—*
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Daniels, John F., to Sperry Rand Corporation. Display stand for rechargeable battery operated. 3,710,224, 1-9-73, Cl. 320-2.000.

Daniels, John F., to Sperry Rand Corporation. Electric dry shaver. 3,711,944, 1-23-73, Cl. 30-43.920.

Daniels, John F.; and Pires, Antonio, to Sperry Rand Corporation. Auxiliary cutter means for an electric dry shaver. 3,714,710, 2-6-73, Cl. 30-34.100.

Daniels, John F., to Sperry Rand Corporation. Cutter drive member means for electric dry shaver. 3,714,711, 2-6-73, Cl. 30-43.920.



Daniels, Louis C., to Westinghouse Electric Corporation. Static seal for a gas turbine. 3,768,817, 10-30-73, Cl. 277-136.000.

Daniels Manufacturing Corporation: *See—*
Holmes, Marion B.; and Ganzert, Albert E., 3,738,150.

Daniels, Neville H. G.; and Wright, Edward S., to Anken Chemical & Film Corporation, mesne. Explosive pipe coupling method. 3,710,434, 1-16-73, Cl. 29-470.100.

Daniels, R. Gary, to Motorola, Inc. Apparatus for driving a light emitting diode of horologic display. 3,754,392, 8-28-73, Cl. 58-50.00r.

Daniels, Ransom J., Jr. Tie rod for concrete forms. 3,746,297, 7-17-73, Cl. 249-40.000.

Daniels, Robert S.: *See—*
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Daniels, Ruthven H.; and Zahka, Joseph G., to Durham Associates, Inc. Oil spillage detection system. 3,719,936, 3-6-73, Cl. 340-236.000.

Daniels, Stacy L.; and Graham, Joseph P., to Dow Chemical Company, The. Sludge filtration device. 3,749,110, 7-31-73, Cl. 137-92.000.

Daniels, Thomas J.: *See—*
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Daniels, Wiley E., to GAF Corporation. Emulsion copolymerization of isobutylvinyl ether and vinyl chloride. 3,741,946, 6-26-73, Cl. 260-875.00g.

Daniels, Wiley Edgar: *See—*
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Daniels, William M.; and Borton, Richard A., to Carpenter, L. E., & Company. Acoustical panel. 3,712,846, 1-23-73, Cl. 161-43.000.

Danielson, Arthur C., to Uniroyal, Inc. Solid vulcanizable rubber composition. 3,756,969, 9-4-73, Cl. 260-3.000.

Danielson, Clarence J.: *See—*
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Danielson, Ellsworth H.: *See—*
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Danielson, Oscar L. Automotive vehicle. 3,763,945, 10-9-73, Cl. 180-6.660.

Danielsson, Curt Aslov, to Demeco Medical Products Aktiebolag. Infusion cannula assembly. 3,774,604, 11-27-73, Cl. 128-214.400.

Danielsson, Nils Harry, to Alfa-Laval AB. Animal watering device. 3,777,714, 12-11-73, Cl. 119-75.000.

Danik, Michael J., to General Motors Corporation. Cable length adjuster. 3,752,008, 8-14-73, Cl. 74-501.00r.

Danilewicz, John Christopher; and Szelke, Michael, to Pfizer Inc. Antihypectensine N-(3-chlorobenzenesulfonyl) acetamidines. 3,767,815, 10-23-73, Cl. 424-321.000.

Danilin, Sergei Alexandrovich: *See—*
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Danilov, Nikolai Anatolievich; and Zharikov, Gennady Petrovich. Method of producing anisotropic magnetic films. 3,764,382, 10-9-73, Cl. 117-238.000.

Danin, Alex. Multistory buildings and walls thereof. 3,710,521, 1-16-73, Cl. 52-27.000.

Danjczek, William E.; Leuenberger, Jean Pierre; Micale, Fortunato J.; and Wagner, Ralph W., to Koh-I-Noor Rapidograph Inc. Method of venting a stylographic pen. 3,741,668, 6-26-73, Cl. 401-258.000.

Dank, Milton, to Litton Business Systems, Inc. Lamp arrangement. 3,775,609, 11-27-73, Cl. 240-41.35c.

Dankel, Douglas D.: *See—*
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Webster, J. Vincent; and Dankel, Douglas D., 3,760,884.

Dankel, Douglas D.; and Buckhouse , Norman O., to Roper Corporation. Sweeper for garden tractor having improved hitch linkage. 3,713,284, 1-30-73, Cl. 56-364.000.

Dankert, Walter C. Adjustable toothing device. 3,768,798, 10-30-73, Cl. 269-289.000.

Danklefsen, Lawrence H. Combination pool table and billiard balls including erratic movement and shot directing features. 3,743,288, 7-3-73, Cl. 273-6.000.

Danko, Emery A.: *See—*
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Danko, Raymond A.; and Minge, Donald L., to Mannix Construction Inc. Rail grinder. 3,707,808, 1-2-73, Cl. 51-178.000.

Danley, Allen M.: *See—*
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Danly, James C., to Danly Machine Corporation. Milling cutter for machining ships propellers and the like. 3,713,194, 1-30-73, Cl. 29-103.00a.

Danly Machine Corporation: *See—*
Cummens, Joseph R.; and Heiberger, Francis E., 3,728,597.
Danly, James C., 3,713,194.
Eineck, Mathew F.; and Mahorney, Kenneth R., 3,749,005.
Sindelar, William E., 3,719,445.

Dann, Bert H., to International Video Corporation. Self-oscillating limiter. 3,760,197, 9-18-73, Cl. 307-237.000.

Danna, Peter A., to Olin Corporation. Mercury diaphragm chlor-alkali cell and process for decomposing alkaki metal halides. 3,775,272, 11-27-73, Cl. 204-98.000.

Dannals, Leland E.: *See—*
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Dannals, Leland E., to Uniroyal, Inc. Alkyl-sulfoxide terminated oligomers. 3,772,382, 11-13-73, Cl. 260-481.00r.

Dannals, Leland E., to Uniroyal, Inc. Alkyl-sulfoxide and alkyl-sulfone terminated oligomers as emulsifiers in emulsion polymerizations. 3,776,874, 12-4-73, Cl. 260-29.6ta.

Dannatt, Hugh St. L., to Singer Company, The. Impact contact keyboard. 3,717,235, 2-20-73, Cl. 197-98.000.

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Heinz, Karl; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; and Hauptmann, Karl Heinz, 3,711,509.
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Dannels, Bobby F.; and Shepard, Alvin F., to Hooker Chemical Corporation. Thermoplastic and thermosetting allyl carbamate resins. 3,779,995, 12-18-73, Cl. 260-77.5ma.

D'Anneo, Jerome Frank, to International Business Machines Corporation. Storage rack and sprinkler arrangement. 3,732,930, 5-15-73, Cl. 169-2.00r.

Danner, Bill A.: *See—*
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Danner, Paul L.: *See—*
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Danner, William E.; and Ilines, Laurence J. Child proof bottle cap. 3,734,330, 5-22-73, Cl. 215-9.000.

Danner, Wilson E.: *See—*
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Danner, Wilson E.; Hammes, Paul A.; and Everson, Charles W., to Merck & Co., Inc. Curing of meats. 3,780,192, 12-18-73, Cl. 426-266.000.

Dannesberg, Peter: *See—*
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Malen, Charles; Danree, Bernard; and Poignant, Jean-Claude, 3,758,528.
Malen, Charles; Danree, Bernard; and Desnoyers, Pierre, 3,764,702.

Dansac, Jean; Picciotto, Robert; and Bouron, Jean-Pierre, to Thomson-CSF. Symbol recognition system particularly for alpha-numeric characters. 3,764,980, 10-9-73, Cl. 340-146.3ed.

Dansereau, Raymond C. Body sail. 3,771,181, 11-13-73, Cl. 9-329.000.

Dansk Industri Syndikat A/S: *See—*
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Dantanetics Corporation: *See—*
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Danton, Bertram A. Sprinkler head protective cover. 3,727,695, 4-17-73, Cl. 169-37.000.

Dantro, Horace F., to NL Industries, Inc. Photoreactive titanium dioxide material. 3,709,984, 1-9-73, Cl. 423-610.000.

Danuser, John Henry. Vibratory compactor. 3,732,022, 5-8-73, Cl. 404-113.000.

Dany, Franz-Josef: *See—*
Muller, Fritz; Stendenbach, Karl-Heinz; Dany, Franz-Josef; Steidl, Dieter; Weizenkor, Horst Heinrich; and Forst, Willi, 3,731,882.

Danylchuk, Irynej, to Bell Telephone Laboratories, Incorporated. Single wall domain fanout circuit. 3,713,118, 1-23-73, Cl. 340-174.0za.

Danz, Jay Roger. Stop fall pole climbing device. 3,743,050, 7-3-73, Cl. 182-9.000.
Danzey, Lee B.: *See—*
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Danzik, Mitchell: *See—*
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Sharman, Samuel H.; and Danzik, Mitchell, 3,766,254.
Danzik, Mitchell, to Chevron Research Company. Monoamide hydrocarbyl sulfonic acid salts of hydrocarbyl succinic acid as detergent actives. 3,732,290, 5-8-73, Cl. 260-507.00r.
Dao, James; and Yew, Nelson C., to Etec Corporation. Scanning electron microscope scanning system. 3,711,711, 1-16-73, Cl. 250-49.50a.
Dao, Tich T., to Ampex Corporation. Digital variable quadrature sine wave voltage controlled oscillator. 3,710,276, 1-9-73, Cl. 331-45.000.
Dao, Tich T., to Ampex Corporation. Clock pulse jitter correcting circuit. 3,719,834, 3-6-73, Cl. 307-269.000.
Daoust, Donald R., to Merck & Co., Inc. Fermentation process for producing physostigmine. 3,734,832, 5-22-73, Cl. 195-80.00r.
Dapak Systems, Inc.: *See—*
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Dappen, Glen M.: *See—*
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Dappen, Glen M.; and Smith, Donald A., to Eastman Kodak Company. Developer scavengers for image transfer systems. 3,743,504, 7-3-73, Cl. 96-3.000.
Dappen, Glen Marshall, to Eastman Kodak Company. Fogged, direct-positive silver halide emulsions containing triazolium salts and the use thereof in reversal processes. 3,740,226, 6-19-73, Cl. 96-64.00r.
Dapprich, William R. Carburetor utilizing surface tension and capillary action. 3,722,837, 3-27-73, Cl. 261-34.00a.
D'Apuzzo, Louis, to Goodman, H., & Sons, Inc. Gems in linked settings and mechanically secured to a base member. 3,733,851, 5-22-73, Cl. 63-1.000.
Darabant, Richard M., to American Greetings Corporation. Tailored bow making machine. 3,770,543, 11-6-73, Cl. 156-204.000.
Darbo, Rolf E. Temperature limit alarm. 3,745,545, 7-10-73, Cl. 340-227.100.
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Darby, Embree L., to Cities Service Oil Company. Reversible tie-back tool. 3,737,189, 6-5-73, Cl. 294-86.340.
Darby, Joseph J., III: *See—*
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Darby, Joseph J., Jr.; and Darby, Joseph J., III, to Darby Manufacturing Corporation, The. Method and apparatus for opening and sealing bags. 3,750,365, 8-7-73, Cl. 53-29.000.
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Darby, Joseph J., Jr.; and Darby, Joseph J., III, 3,750,365.
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Dardaine, Edgar; and Berry, Jean-Luc, to Remy, E. P., et Cie. Machine for sealingly closing containers by means of covers. 3,755,987, 9-4-73, Cl. 53-296.000.
Dardaine, Edgar J.; and Berry, Jean-Luc, to Remy, E. P., et Cie. Multipurpose grouping device for an encasing-uncasing machine. 3,718,246, 2-27-73, Cl. 198-34.000.
Dardas, Richard B., to Pfizer Inc. Preservation of bovine stomachs for rennet extraction. 3,753,860, 8-21-73, Cl. 195-65.000.
Dardas, Richard B., to Pfizer Inc. Preservation of bovine stomachs for rennet extraction. 3,766,015, 10-16-73, Cl. 195-66.000.
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Dare Products, Incorporated: *See—*
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Dare, Sherman E.; Haas, Davey S.; Herold, Stanley J.; Norris, Steven R.; Patterson, Terry V.; and Sloan, Robert E., to United States of America, Navy. Smoke signal device. 3,713,394, 1-30-73, Cl. 102-90.000.
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Dargent, Bruno M., to Hamilton Watch Company. Solid state watch incorporating large-scale integrated circuits. 3,714,867, 2-6-73, Cl. 58-50.00r.
Dargent, Bruno M., to Hamilton Watch Company. Solid state watch incorporating large-scale integrated circuits. 3,721,084, 3-20-73, Cl. 58-50.00r.
Dargent, Bruno M., to Hamilton Watch Company. Integrated circuit solid state watch. 3,760,584, 9-25-73, Cl. 58-50.00r.
Dari-Spray Products, Inc.: *See—*
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Dark, Patrick M., to Moog Inc. Screwdown control system for rolling mills. 3,718,016, 2-27-73, Cl. 72-8.000.
Darko, Laszlo L., to Ciba-Geigy Corporation. 2-Hydroxy and 2-carbamyloxy derivatives of 1,1,1-trichloro-3-carbamyloxyalkanes in a composition and method for effecting muscle relaxation. 3,723,624, 3-27-73, Cl. 424-300.000.
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Darley, Henry C. H.; and Place, Morris C., Jr., to Shell Oil Company. Well operation for recovering oil from produced sand. 3,764,008, 10-9-73, Cl. 210-73.000.
Darling, Alan Sidney: *See—*
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Darling, Alan Sydney; and Selman, Gordon Leslie, to Johnson, Matthey & Co., Limited. Method of coating refactory metals for protection at high temperatures and resulting article. 3,736,109, 5-29-73, Cl. 29-195.000.
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Darling, Richard H.; and Siegl, Ludwig R., to International Business Machines Corporation. Turntable for rigidly mounting thin flexible magnetic discs. 3,729,720, 4-24-73, Cl. 340-174.10e.
Darling, Richard Henry; and Shine, William P., to Dual-Lite Company. Self-contained emergency lighting units and adjustable swivel assemblies. 3,772,527, 11-13-73, Cl. 307-66.000.
Darling, Stanley N.; and Darling, Reyi. Voting apparatus. 3,750,943, 8-7-73, Cl. 235-54.00r.
Darling, William W. Electric meter construction having circuit interrupt elements. 3,742,355, 6-26-73, Cl. 324-149.000.
Darlington Fabrics Corporation: *See—*
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Davenport, William K. Spray mix applicator. 3,776,468, 12-4-73, Cl. 239-310.000.
Davenport, William R.; and Jones, William D., to Crowell Designs, Inc. Faucet for both pressurized and non-pressurized water systems. 3,742,978, 7-3-73, Cl. 137-565.000.
Davey, Anthony Walter, to Morris, Herbert, Limited. Apparatus for operating swing doors. 3,708,915, 1-9-73, Cl. 49-340.000.
Davey Compressor Company, The: *See—*
Caffrey, Terence, 3,756,747.
Caffrey, Terence, 3,778,192.
Caffrey, Terence, 3,778,201.
Davey, John R.; Gilbo, Charles F.; Johnson, Norman A.; and Fritz, Thomas W., to Armstrong Cork Company. Joint construction for ceiling panels. 3,745,734, 7-17-73, Cl. 52-311.000.
Davich, Michael, to General Electric Company. Thrust bearing system. 3,727,996, 4-17-73, Cl. 308-132.000.
David, Andrew M. Spectacle lens layout apparatus. 3,763,568, 10-9-73, Cl. 33-174.00a.
David, Curry Beach, to Arizona Chemical Company. Molecular sieve 13-X catalyzed isomerization of alpha-pinene-improvement of catalyst activity by iodine. 3,780,124, 12-18-73, Cl. 260-675.500.
David, Curt Ludwig, to Newall Engineering Company, Limited, The. Cam grinders. 3,753,321, 8-21-73, Cl. 51-101.00r.
David, Dardick, to TRW Inc. Fastener ammunition for repeating propellant gas powered driving tool. 3,768,412, 10-30-73, Cl. 102-38.000.
David, Emil J., to Eaton Yale & Towne Canada Limited. Method and apparatus for handling trees. 3,720,246, 3-13-73, Cl. 144-3.00d.
David, Guy Albert Jules: *See—*
Breant, Pierre Louis Vincent; David, Guy Albert Jules; Pares, Francois; and Grima, Jean-Claude, 3,740,478.
David, Guy Albert Jules; and Duquennc, Michel Guy Amedee, to U.S. Philips Corporation. System for synchronizing clock signals to incoming data. 3,778,550, 12-11-73, Cl. 178-69.50r.
David, Harry; and Rudszinat, Willy, to Hauni-Werke Korber & Co. KG. Apparatus for classifying fragments of tobacco. 3,757,800, 9-11-73, Cl. 131-109.00b.
David, Israel A., to Du Pont de Nemours, E. I., and Company. Yarn heater. 3,732,395, 5-8-73, Cl. 219-388.000.
David, James M.: *See—*
Campbell, Kenneth C.; David, James M.; Frye, Gary E.; and Woods, Robert E., 3,755,297.
David, John Lewis; Frichtel, John Stafford; and Zuppan, Lawrence Louis, to General Electric Company. Optical positioning system. 3,727,055, 4-10-73, Cl. 250-83.30h.
David, Leonard E. Snowblower adapter means. 3,774,321, 11-27-73, Cl. 37-43.001.
David, Melvin J. Display apparatus for banded merchandise. 3,709,374, 1-9-73, Cl. 211-163.000.
David, Melvin J. Merchandise display apparatus. 3,743,105, 7-3-73, Cl. 211-153.000.
David, Milton C.: *See—*
Tucker, Atlee Dee, Jr.; and David, Milton C., 3,734,088.
David, Morton E.: *See—*
Hardy, George F.; and David, Morton E., 3,761,914.
David, Roger F.: *See—*
Benoun, Samuel M.; and David, Roger F., 3,779,550.
David, Sidney, to United States of America, Navy. Omni-steerable cardioid antenna. 3,713,167, 1-23-73, Cl. 343-797.000.
David, Walfried, to Bopp and Reuther GmbH. Structure with protective covering against ambient influences. 3,738,383, 6-12-73, Cl. 137-381.000.
Davidge, Roger William: *See—*
Ford, Lionel Houston; Davidge, Roger William; and Evans, Anthony Glyn, 3,776,759.
Davidge, Ronald V.: *See—*
Bruce, George D.; Davidge, Ronald V.; Fowler, Raymond L.; Hobgood, George W., Jr.; Locklar, Henry C., Jr.; and Cleave, George W., 3,720,465.
Cecil, Thomas F., II; and Davidge, Ronald V., 3,736,424.
Davidge, Ronald V.; Hobgood, George W., Jr.; Queener, Carl A.; Spears, Jesse W.; and Thompson, Bernard G., to International Business Machines Corporation. Reproduction apparatus incorporating alternate redevelopment and reimaging cycles for multiple copies 3,736,055, 5-29-73, Cl. 355-14.000.
Davidovich, Yakov Gilievich: *See—*
Fridman, Georgy Nikolaevich; Fialkov, Abram Samuilovich; Davidovich, Yakov Gilievich; Ivanova, Irina Dmitrievna; Sysoeva, Ljudmila Petrovna; Gluskin, Abram Ykovlevich; Galiskarov, Rimm Zigangirovich; Liberman, Esfir Lvovna; and Pomortseva, Vera Stepanovna, 3,751,294.
Davidow, Jodell. Novelty party cup. 3,739,975, 6-19-73, Cl. 229-8.000.
Davidowitz, Solomon. Hemorrhoidal support. 3,712,300, 1-23-73, Cl. 128-98.000.
Davidse, Jan; and Saderson, Hendrik Johannes, to U.S. Philips Corporation. Colour shifting circuit for a colour television display apparatus. 3,717,727, 2-20-73, Cl. 178-5.4he.
Davidse, Pieter D.; Logan, Joseph S.; and Maddocks, Fred S., to International Business Machines Corporation. Method for sputtering a film on a irregular surface. 3,755,123, 8-28-73, Cl. 204-192.000.
Davidsohn, Uryon S., to Motorola, Inc. Method of making semiconductor devices through overlapping diffusions. 3,716,425, 2-13-73, Cl. 148-175.000.
Davidsohn, Uryon S., to Motorola, Inc. Semiconductor devices. 3,738,877, 6-12-73, Cl. 148-175.000.
Davidson, Alan John: *See—*
George, Edwin Francis; and Davidson, Alan John, 3,711,493.





Davidson, Alastair Ritchie; and Percival, Eric Robert, to Reed International Limited. Manhole assemblies. 3,714,961, 2-6-73, Cl. 137-
Davidson, William E., to General Electric Company. Self-cleaning





Davies, Norman, to Westinghouse Electric Corporation. Circuit in-

Davidson, Alastair Ritchie; and Percival, Eric Robert, to Reed International Limited. Manhole assemblies. 3,714,961, 2-6-73, Cl. 137-363.000.

Davidson, Albin A.: *See—*
Olson, Buford W., Sr.; Nelson, Eldrid W.; and Davidson, Albin A., 3,738,285.
Olson, Buford W., Sr.; Nelson, Eldrid W.; and Davidson, Albin A., 3,763,789.

Davidson, Arthur C.; and Grant, McLean M., to United States of America, National Aeronautics and Space Administration. Spacecraft altitude sensor. 3,752,993, 8-14-73, Cl. 250-203.00r.

Davidson, Arthur R.; Haubner, John E.; and White, George A., to Lamb-Weston, Inc. Apparatus for processing edible foodstuffs. 3,722,401, 3-27-73, Cl. 99-407.000.

Davidson, Brian Y. Partitioned tray having tabs, for pies and the like. 3,771,713, 11-13-73, Cl. 229-27.000.

Davidson, Cliff I.; and Laing, Charles F., to Westinghouse Electric Corporation. Measurement of temperature inversions. 3,725,914, 4-3-73, Cl. 343-5.00w.

Davidson, David M.: *See—*
Paulson, William T.; and Davidson, David M., 3,776,755.

Davidson, Edmund Benjamin, to RCA Corporation. Stabilized photoresist composition. 3,776,736, 12-4-73, Cl. 96-115.00r.

Davidson, Edwin J., to Thiem Corporation. Wedge arrangement for a hot top. 3,713,621, 1-30-73, Cl. 249-106.000.

Davidson, Evan E.; Lane, Ralph D.; and Saia, Jerry, to International Business Machines Corporation. Latch type regenerative circuit for reading a dynamic memory cell. 3,745,539, 7-10-73, Cl. 340-173.00r.

Davidson, Evan E., to International Business Machines Corporation. Memory array of cells containing bistable switchable resistors. 3,761,896, 9-25-73, Cl. 340-173.00r.

Davidson, Farris B. Magnet operated toy. 3,745,698, 7-17-73, Cl. 46-236.000.

Davidson, Gene E.: *See—*
Fisher, Glen W.; Robbins, Dewey H.; Evans, Victor J.; and Davidson, Gene E., 3,778,521.

Davidson, Glenn G., to Platemakers Educational & Research Institute. Apparatus for calculating halftone screen exposures. 3,719,806, 3-6-73, Cl. 235-64.700.

Davidson, Harry W.: *See—*
Schaible, Aaron M.; and Davidson, Harry W., 3,711,223.

Davidson, Henry, to Gillette Company, The. Method for manufacturing porous point tip. 3,714,314, 1-30-73, Cl. 264-137.000.

Davidson, Jackson B., to United States of America, Atomic Energy Commission. Device and method for improving the vertical resolution of a two-dimensional television-based radiation detection system. 3,729,585, 4-24-73, Cl. 178-7.200.

Davidson, James J., to United States of America, Navy. Apparatus for monitoring thickness of evaporated film. 3,781,911, 12-25-73, Cl. 324-65.00r.

Davidson, James R., to Xerox Corporation. Electrophotographic imaging apparatus. 3,746,442, 7-17-73, Cl. 355-3.000.

Davidson, James R., to Xerox Corporation. Manifold web handling. 3,761,174, 9-25-73, Cl. 355-16.000.

Davidson, James R., to Xerox Corporation. Forms reproduction apparatus. 3,775,007, 11-27-73, Cl. 355-8.000.

Davidson, Jimmy Lee; and Mason, Donald R., to Radiation Incorporated. Method of etching silicon crystals. 3,728,179, 4-17-73, Cl. 156-8.000.

Davidson, John P., to Halliburton Company. Method and apparatus for reconditioning the connection between a railway car body and a railway car truck. 3,711,927, 1-23-73, Cl. 29-401.000.

Davidson, Julian S.: *See—*
Reinhart, Joan; Stump, Warren E.; and Davidson, Julian S., 3,767,489.

Davidson, Richard L., to Grav-I-Flo Corporation, The. Apparatus and method for finishing workpieces. 3,715,840, 2-13-73, Cl. 51-163.000.

Davidson, Richard L., 25% to Parrott, Bell, Seltzer, Park & Gibson and 25% to Nixon, Robert L. Stonesetter's hand tool. 3,747,692, 7-24-73, Cl. 173-122.000.

Davidson, Roger: *See—*
Palmer, Warren G.; and Davidson, Roger, 3,754,661.

Davidson, Roger; and Sako, Fumio F., to FMC Corporation. Apparatus for treating waste materials. 3,713,540, 1-30-73, Cl. 210-391.000.

Davidson, Thomas N.; Krawagna, Alois A.; and Humphrey, Frederick Harold, to Polypump Curacao N.V. Trigger pump and breather valve dispensing assembly. 3,726,442, 4-10-73, Cl. 222-207.000.

Davidson, William C.: *See—*
Blate, Steven W.; Tschudy, Donald B.; Ross, Robert S.; Mellor, Fred W.; Kifor, Harry T.; and Davidson, William C., 3,726,375.

Davidson, William E., to General Electric Company. Steam nozzle iron. 3,722,117, 3-27-73, Cl. 38-77.830.

Davidson, William E., to General Electric Company. Attachment plug with cord grip. 3,725,848, 4-3-73, Cl. 339-62.000.

Davidson, William E., to General Electric Company. Self-cleaning steam iron. 3,747,241, 7-24-73, Cl. 38-778.830.

Davidson, William E., to General Electric Company. Fast start spray iron. 3,758,969, 9-18-73, Cl. 38-77.500.

Davidson, William M. Linear inflatable module device. 3,710,409, 1-16-73, Cl. 9-312.000.

Davidson, William M.; and Cole, Howard W., Jr. Variable displacement for fence for oil spill containment and recovery. 3,710,943, 1-16-73, Cl. 210-242.000.

Davidson, William M. Underwater release device. 3,749,933, 7-31-73, Cl. 307-116.000.

Daviduke, Peter M., to Myers Excavating Ltd. Scraping blade for converting a cutting edge on a loading bucket. 3,765,109, 10-16-73, Cl. 37-141.00r.

Davie, William R.; and Green, Lonzo F., to United States Steel Corporation. Phosphorus-borate glass frits as plant micro nutrient carriers. 3,762,909, 10-2-73, Cl. 71-1.000.

Davies, Ben; and Whittemore, Dwight S., to Dresser Industries, Inc. Method of producing high density refractory grain from natural magnesite. 3,712,599, 1-23-73, Cl. 263-52.000.

Davies, Brian W. Liquid container-tool or accessory box for bicycles. 3,777,955, 12-11-73, Cl. 224-35.000.

Davies, Daniel J.: *See—*
Manion, Jean P.; and Davies, Daniel J., 3,740,256.
Manion, Jean P.; and Davies, Daniel J., 3,740,325.

Davies, David H.: *See—*
Rohrer, Kenneth L.; Griswold, Douglas A.; and Davies, David H., 3,712,815.

Davies, Derek. Toboggan. 3,752,492, 8-14-73, Cl. 280-18.000.

Davies, Donald: *See—*
Hughes, David Emrys; and Davies, Donald, 3,721,378.

Davies, Elmer S., to Dasi Industries, Inc. Milk sterilizing apparatus. 3,771,434, 11-13-73, Cl. 99-454.000.

Davies, Evan Ellis; Elkins, John Stanley; and Pitkethly, Robert Chalmers, to British Petroleum Company Limited, The. Hydrocarbon conversion with platinum-second-metal catalysts in proportions which form ordered alloys. 3,759,823, 9-18-73, Cl. 208-138.000.

Davies, Gilbert E.; Loubier, Robert J.; Weston, John M.; and Muhn, Robert A., to Tuthill Pump Company. Apparatus for fabricating a bearing device. 3,734,660, 5-22-73, Cl. 425-123.000.

Davies, Gordon Thomas: *See—*
Ellen, Leonard William; and Davies, Gordon Thomas, 3,781,867.

Davies, Guy Edward; and Wilson, Christopher Guy Scott, to Plessey Handel und Investments A.G. Pure fluidic devices. 3,717,166, 2-20-73, Cl. 137-818.000.

Davies, Guy Edward, to Plessey Handel und Investments A.G. Fluid logic arrangements. 3,720,219, 3-13-73, Cl. 137-84.000.

Davies, Guy Edward; and Wilson, Christopher Guy Scott, to Plessey Handel und Investments A.G. Fluidic apparatus, more particularly for the determination of pressure ratios. 3,722,521, 3-27-73, Cl. 137-818.000.

Davies, Guy Edward, to Plessey Company Limited, The. Momentum-interaction type fluidic devices. 3,744,525, 7-10-73, Cl. 137-823.000.

Davies, Idwal; and Harris, Alan G., to British Iron and Steel Research Association, The. Production of metal strip from powdered metal. 3,720,511, 3-13-73, Cl. 75-214.000.

Davies, James A.; Williams, Dale; and Hill, Thomas L., to Texaco Inc. Hydrodesulfurization process. 3,733,260, 5-15-73, Cl. 208-212.000.

Davies, James Francis: *See—*
Cheng, Wai Ming; Davies, James Francis; and Stuttard, Leonard Wallace, 3,723,326.

Davies, James K. Pegboard typewriter. 3,712,442, 1-23-73, Cl. 197-2.000.

Davies, Jeffrey B.; and Kendig, Benjamin F., to Tridyne Corporation. Load comparison scale. 3,712,394, 1-23-73, Cl. 177-1.000.

Davies, Jenkin Eric; and Van Dijk, Jan, to U.S. Philips Corporation. Compounds having pharmacological properties. 3,777,034, 12-4-73, Cl. 424-285.000.

Davies, John; Lones, Emyr Gwyn; Hodgson, William Henry; Young, John Dixon; and Llewellyn, David Thomas, to British Steel Corporation and British Railways Board. Rail steel. 3,726,724, 4-10-73, Cl. 148-36.000.

Davies, John Glen. Remote monitoring and weapon control system. 3,711,638, 1-16-73, Cl. 178-6.800.

Davies, John Moseley; and Clarke, John Colin. Installation including a prime mover and means for extracting energy from a hot fluid medium and using it to drive the prime mover. 3,774,392, 11-27-73, Cl. 60-36.000.

Davies, John R., to Oliver Machinery Company. Defecting saw. 3,780,777, 12-25-73, Cl. 144-3.00n.

Davies, Keith: *See—*
Norkum, Alphonse A.; Corrigan, Joseph D.; and Davies, Keith, 3,777,177.

Davies, Leonard J. L., to USM Corporation. Apparatus for feeding particulate material. 3,737,074, 6-5-73, Cl. 222-193.000.

Davies, Norman: *See—*
Bould, Fred; and Davies, Norman, 3,755,639.





Davies, Norman, to Westinghouse Electric Corporation. Circuit interrupter with overcenter spring charging means. 3,735,073, 5-22-73, Cl. 200-153.0sc.

Davies, Norman, to Westinghouse Electric Corporation. Detachable clamping electrical connector. 3,749,861, 7-31-73, Cl. 200-48.000.

Davies, Norman, to Westinghouse Electric Corporation. Motor advanced spring charging pawl and ratchet mechanism with spring assist. 3,773,995, 11-20-73, Cl. 200-153.0sc.

Davies, Norman, to Westinghouse Electric Corporation. Circuit interrupter with interlocking mechanism. 3,778,567, 12-11-73, Cl. 200-50.00a.

Davies, Paul, to Ford Motor Company. Fuel injection system. 3,771,917, 11-13-73, Cl. 417-289.000.

Davies, Peter H.: *See—*
Purves, William F.; Lee, William F.; Davies, Peter H.; and Jeffery, William J., 3,740,232.

Davies, Philip H., to Bawden, Peter, Drilling Services Ltd. Offshore drilling platform construction. 3,727,414, 4-17-73, Cl. 61-46.500.

Davies, Phillip J.; Gasparri, Angelo S.; and McAtee, Daniel J., to International Business Machines Corporation. Grid for making electrical contact. 3,777,260, 12-4-73, Cl. 324-64.000.

Davies, Reg.: *See—*
Karuhn, Richard F.; Davies, Reg.; and Clinch, John Michael, 3,739,258.
Karuhn, Richard F.; Davies, Reg; and Kaye, Brian Howard, 3,739,268.

Davies, Robert Dillwyn; and Weston, Leslie Yarnall, Jr., to Du Pont de Nemours, E. I., and Company. Apparatus for perforating thermoplastic sheet materials with an electric arc. 3,760,153, 9-18-73, Cl. 219-384.000.

Davies, Robert L.: *See—*
Fox, Richard W.; and Davies, Robert L., 3,736,466.

Davies, Robert William, to Molins Limited. Apparatus for applying tear strips to wrappers. 3,725,181, 4-3-73, Cl. 156-519.000.

Davies, Robert William; Veness, Maxwell Francis; and Thornton, Leonard, to Molins Limited. Packing machines. 3,762,130, 10-2-73, Cl. 53-183.000.

Davies, Roy E.: *See—*
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Davies, Stuart Duncan; and Chilman, John Alfred, to Dowty Rotol Limited. Fans. 3,720,060, 3-13-73, Cl. 60-226.00r.

Davies, Terence J., to Xerox Corporation. Photoelectrophoretic imaging with ultrasonic vibration during imaging. 3,708,286, 1-2-73, Cl. 96-1.000.

Davies, Terrence Ardern, to Square D Company. Light-duty electrical contacts of silver and ruthenium oxide. 3,778,257, 12-11-73, Cl. 75-173.00a.

Davies, Thomas J., Jr., to North American Rockwell Corporation. Multiple phase clock generator circuit with control circuit. 3,740,660, 6-19-73, Cl. 331-45.000.

Davies, Timothy Muir: *See—*
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Davies, William Elfyn: *See—*
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Davin, Donald R.; and Beckley, Gary H., to Blaw-Knox Construction Equipment Inc. Paving machine. 3,776,326, 12-4-73, Cl. 180-9.200.

D'Avino, Salvatore. Phase meters for the indirect measurement of power factor. 3,745,457, 7-10-73, Cl. 324-83.00r.

Davis Aircraft Products Company, Inc.: *See—*
Higuchi, Nori, 3,760,464.

Davis, Albert D. Method and apparatus for processing hides. 3,737,949, 6-12-73, Cl. 17-21.000.

Davis, Alfred Charles, to Imperial Tobacco Group Limited. Filter cigarette having apertured band. 3,707,975, 1-2-73, Cl. 131-9.000.

Davis; Allan C., to Meyercord Co., The. Case packing machine. 3,765,145, 10-16-73, Cl. 53-61.000.

Davis, Andrew M.: *See—*
Salzano, Francis J.; Davis, Andrew M.; and Isaacs, Hugh S., 3,718,546.

Davis, Andrew W.: *See—*
Goodson, Louis H.; Jacobs, William B.; and Davis, Andrew W., 3,715,298.

Davis, Ariel R. Inductive winding. 3,731,243, 5-1-73, Cl. 336-61.000.

Davis, Arlyn W. Camper-bumper compartment and step. 3,731,860, 5-8-73, Cl. 224-42.060.

Davis, Bayard C., to Sensor Dynamics, Inc. Continuous manufacture of shielded conductors. 3,737,997, 6-12-73, Cl. 29-624.000.

Davis, Benjamin; and Phillips, Gordon Hanley, to Glaxo Laboratories Limited. Method of inducing anaesthesia. 3,714,352, 1-30-73, Cl. 424-243.000.

Davis, Benjamin; Pearce, Derek Roger; Cook, Martin Christopher; Weir, Niall Galbraith; Newall, Christopher Earle; Ayres, Barry Edward; Gregory, Gordon Ian; and Phillipps, Gordon Hanley, to Glaxo Laboratories, Limited. Novel 21-acyloxy-3α-hydroxy-5-pregnane-11, 20-diones. 3,763,195, 10-2-73, Cl. 260-397.450.

Davis, Benjamin; Pearce, Derek Roger; and Phillipps, Gordon Hanley, to Glaxo Laboratories, Limited. Steroid anaesthetics. 3,781,435, 12-25-73, Cl. 424-239.000.

Davis, Bernard T., 25% to Wells, Raymond C. and 25% to Wells, Ralph E. Demand controller. 3,737,671, 6-5-73, Cl. 307-126.000.

Davis, Billy E.; and Dunegan, Ronald G., to Signet Controls Incorporated. Double ball meter prover system. 3,720,089, 3-13-73, Cl. 73-3.000.

Davis, Billy E., to Signet Controls, Inc. Sphere launcher and receiver. 3,779,270, 12-18-73, Cl. 137-268.000.

Davis, Billy W.: *See—*
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Davis, Billy W., to Schlumberger Technology Corporation. Marine streamer cable. 3,710,006, 1-9-73, Cl. 174-101.500.

Davis, Billy W., to Schlumberger Technology Corporation. Foam seismic streamer. 3,744,016, 7-3-73, Cl. 340-7.00r.

Davis, Bob K.: *See—*
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Davis, Burnice D., to Visador Company. Shaper apparatus for woodworking. 3,717,186, 2-20-73, Cl. 144-145.00a.

Davis, Carl B. Electrical actuated chance device having chain-driven rotatable drums. 3,759,525, 9-18-73, Cl. 273-143.00r.

Davis, Carlton J., Sr.; Wood, Richard P.; and Miller, Everett R. Sheet molding compound and materials thereof. 3,734,814, 5-22-73, Cl. 161-112.000.

Davis, Charles F. Motor-driven anchor davit. 3,750,610, 8-7-73, Cl. 114-210.000.

Davis, Charles H., to Anaconda Wire and Cable Company. Counting reset apparatus for use in measuring method. 3,708,112, 1-2-73, Cl. 235-58.00p.

Davis, Charles H.; and Borczyk, Lech Stanislaw, to Anaconda Wire and Cable Company. Apparatus for separating and shearing a cable strand. 3,727,497, 4-17-73, Cl. 83-167.000.

Davis, Charles H. Pump unit for water supply. 3,775,028, 11-27-73, Cl. 417-267.000.

Davis, Charles J., to Case, J. I., Company. Hydraulic angle dozer. 3,759,110, 9-18-73, Cl. 74-99.000.

Davis, Charles J.; and Glass, Billy M., to Case, J. I., Company. Reel lift and support for bulldozer. 3,780,813, 12-25-73, Cl. 172-438.000.

Davis, Charles M.: *See—*
Finvold, Rodger C.; and Davis, Charles M., 3,714,430.

Davis, Charles S., to Carmet Company. Cutter bit and block. 3,751,114, 8-7-73, Cl. 299-85.000.

Davis, Charles W., to Stanadyne, Inc. Fuel injection pump and automatic timing means therefor. 3,771,506, 11-13-73, Cl. 123-139.0aq.

Davis, Claude A.: *See—*
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Davis, Curtis W., Jr.; and Fern, Robert W., to Libbey-Owens-Ford Company. Apparatus for conveying a glass ribbon. 3,771,987, 11-13-73, Cl. 65-172.000.

Davis, Dale M.: *See—*
Stewart, Paul E.; and Davis, Dale M., 3,741,069.

Davis, Dale M., to United States of America, Air Force. Warhead for guided missiles. 3,724,379, 4-3-73, Cl. 102-49.300.

Davis, Dale M., to United States of America, Air Force. Air-to-surface missile. 3,731,633, 5-8-73, Cl. 102-67.000.

Davis, Dalton M. Vehicle wheel manufacturing apparatus. 3,725,992, 4-10-73, Cl. 29-208.00d.

Davis, Dalton M., to Pyramid Enterprises, Inc. Hubcap for a vehicle wheel assembly. 3,731,978, 5-8-73, Cl. 301-108.0sc.

Davis, Dalton M., to Pyramid Enterprises, Inc. Die casting apparatus. 3,741,284, 6-26-73, Cl. 164-347.000.

Davis, Dan Bryan: *See—*
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Davis, Dana L., to Hadco Printed Circuits, Inc. Method for making a coated printed circuit board. 3,742,597, 7-3-73, Cl. 29-625.000.

Davis, Darwin Darrell, to Du Pont de Nemours, E. I., and Company. Process for preparation of straight chain alkane dicarboxylic acids. 3,758,564, 9-11-73, Cl. 260-531.00r.

Davis, David C., Jr.: *See—*
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Elmhurst, Richard F.; Farina, John S.; Davis, David C., Jr.; and Elmhurst, William A., 3,728,688.

Davis, David George Michael, to Dowty Rotol Limited. Fans. 3,747,341, 7-24-73, Cl. 60-226.00a.

Davis, Dennis J.; Kurichh, Sham L.; and Pataky, Gilbert A., to Bendix-Westinghouse Automotive Air Brake Company. Adaptive control for fluid pressure braking systems. 3,734,573, 5-22-73, Cl. 303-21.00f.

Davis, Dennis J.; Sudnick, Dennis J.; Juhasz, John E.; and Kurichh, Sham, to Bendix Corporation, The. Adaptive control for fluid pressure braking system. 3,768,875, 10-30-73, Cl. 303-21.00f.

Davis, Donald A.: *See—*
Rosenthal, Louis A.; and Davis, Donald A., 3,729,672.
Rosenthal, Louis A.; and Davis, Donald A., 3,736,492.
Rosenthal, Louis A.; and Davis, Donald A., 3,736,493.
Rosenthal, Louis A.; and Davis, Donald A., 3,736,494.

Davis, Donald A.; and Grate, Gilbert M. Desk having extensible top section. 3,711,174, 1-16-73, Cl. 312-194.000.





Davis, Donald E.: *See—*
Bhatia, Harsaran S.; Davis, Donald E.; and Martin, David H., 3,757,138.

Davis, Irwin J.: *See—*
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Davis, Donald E. Dental instrument. 3,747,612, 7-24-73, Cl. 132-92.00r.
Davis, Donald L., to Woodward Governor Company. Magnetic ball head speed governor. 3,751,993, 8-14-73, Cl. 73-518.000.
Davis, Donald W. Pipe cleaning nozzle. 3,744,723, 7-10-73, Cl. 239-543.000.
Davis, Donovan C., to Hoffman Electronics Corporation. Coherent pulse doppler altimeter. 3,739,379, 6-12-73, Cl. 343-7.300.
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Davis, Earl K.; and Hansen, Kent W., to Motorola, Inc. Glasses for encapsulating semiconductor devices. 3,723,835, 3-27-73, Cl. 317-234.00r.
Davis, Edward E. Method of preparing crispy food items. 3,709,698, 1-9-73, Cl. 99-107.000.
Davis, Edward J.; Cordle, Paul E.; McCubbin, Melvin J.; Lockwood, Donald W.; and Higuera, Richard L., to United States of America, Navy. Warhead breakup sensor. 3,717,098, 2-20-73, Cl. 102-70.20r.
Davis, Edward L. Rotary display stand. 3,708,073, 1-2-73, Cl. 211-47.000.
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Davis, Farris L.; and Brown, Daniel D., to Union Special Machine Company, mesne. Automatically adjustable trimming mechanism. 3,738,295, 6-12-73, Cl. 112-126.000.
Davis, Forrest Wm.; and Seitz, Lamont J., to Baxter Laboratories, Inc. Diagnostic unit. 3,736,433, 5-29-73, Cl. 250-218.00r.
Davis, Francis A., Jr., to Paramount Packaging Corporation. Apparatus for making plastic bags. 3,739,694, 6-19-73, Cl. 93-33.00h.
Davis, Francis C.; Cannon, Donald D.; Furman, Francis J., Jr.; and Sease, John D., to United States of America, Atomic Energy Commission. Fabrication of bonded-particle nuclear fuel sticks. 3,714,305, 1-30-73, Cl. 264-.500.
Davis, Fred R., to Gasdorf Tool & Machine Company, Inc. Cell inserting machine. 3,727,287, 4-17-73, Cl. 29-205.00e.
Davis, George Alvin. Rocking bed. 3,737,924, 6-12-73, Cl. 5-108.000.
Davis, George B., Jr. Christmas tree lighting control. 3,748,488, 7-24-73, Cl. 307-18.000.
Davis, George B., Jr. Pushrod inclosure. 3,756,207, 9-4-73, Cl. 123-90.380.
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Davis, Gordon H.; Niertit, Frank; and Root, Bernard H., to Stromberg-Carlson Corporation. Telephone line circuit embodying a triggerable avalanche device. 3,748,404, 7-24-73, Cl. 179-99.000.
Davis, Gordon Jerry, to Maytag Company, The. Washing additive dispenser. 3,724,242, 4-3-73, Cl. 68-17.00a.
Davis, Gordon Jerry, to Maytag Company, The. Valve construction. 3,770,001, 11-6-73, Cl. 137-217.000.
Davis, Grover L., to General Electric Company. Irradiation test facility. 3,719,555, 3-6-73, Cl. 176-17.000.
Davis, Haggai; and Robertson, Robert S., to Snub-R-Rig Corporation. Apparatus for moving pipe into and out of a well. 3,757,858, 9-11-73, Cl. 166-77.000.
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Davis, Harry T., to Hood Sailmakers, Inc. Attachment point on the corner of a fabric sheet. 3,751,793, 8-14-73, Cl. 29-523.000.
Davis, Harry T., to Hood Sailmakers, Inc. Sail guide system. 3,759,210, 9-18-73, Cl. 114-105.000.
Davis, Harvey J., to M & D Enterprises, Inc. Protecting grain in storage areas by an oxychloride cementitious composition. 3,753,750, 8-21-73, Cl. 106-106.000.
Davis, Harvey L., to Bishop Freeman Company. Ironing board pad. 3,733,724, 5-22-73, Cl. 38-140.000.
Davis, Howard C.; Pritz, Howard B.; and Burton, Charles A., to Wooster Brush Company, The. Diaphragm pump. 3,715,174, 2-6-73, Cl. 417-311.000.
Davis, Howard C.; Trumbull, Harold E.; and Cummings, Charles A., to Xerox Corporation. Color reproduction apparatus. 3,734,607, 5-22-73, Cl. 355-4.000.
Davis, Hugh J., to Boeing Company, The. Method and apparatus for the recovery of waterjet power for marine vessels. 3,763,818, 10-9-73, Cl. 115-11.000.
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Davis, J. Gilbert, II, to Continental Oil Company. Method of creating large diameter cylindrical cavities by solution mining. 3,716,272, 2-13-73, Cl. 299-5.000.
Davis, Jack. Building construction machine. 3,765,587, 10-16-73, Cl. 227-100.000.
Davis, Jack. Nailing machine. 3,767,100, 10-23-73, Cl. 227-152.000.
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Davis, James W.; Umina, Anthony P.; and Kelley, Nancy J., to United States of America, Army. Method for preparing storage-stable bakery products within hermetically sealed containers. 3,718,483, 2-27-73, Cl. 99-182.000.
Davis, Jefferson W. Alkylidine and arylidine amino acid esters, and alkyl and aryl amino acid esters. 3,718,688, 2-27-73, Cl. 260-482.00r.
Davis, Jlee, to Avance Oil & Gas Co., Inc. Multi-directional seismic exploration methods. 3,746,122, 7-17-73, Cl. 181-.50r.
Davis, John A., Jr.; and Rhudy, John S., to Marathon Oil Company. Hydraulic fracturing process using polyethylene oxide based fracturing fluid. 3,747,681, 7-24-73, Cl. 166-307.000.
Davis, John Arthur, to Dresser Industries, Inc. Semi-hydraulic lift and improved valve therefor. 3,744,372, 7-10-73, Cl. 91-4.00a.
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Davis, John Christopher Hammond, to Plessey Handel und Investments AG. Methods of detecting rotation speed. 3,731,301, 5-1-73, Cl. 340-347.00p.
Davis, John David; and Atkins, Christopher Lee. Pneumatic valves. 3,753,447, 8-21-73, Cl. 137-596.000.
Davis, John Derek, to Ricardo & Co., Engineers (1927) Limited. Method and means for reducing exhaust smoke in I.C. engines. 3,744,461, 7-10-73, Cl. 123-32.0ea.
Davis, John Howard; and Hendy, Brian Norman, to Imperial Chemical Industries Limited. Method of producing reinforced thermoplastic materials. 3,776,751, 12-4-73, Cl. 117-4.000.
Davis, John R.: *See—*
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Nathanson, Harvey C.; and Davis, John R., Jr., 3,746,911.
Davis, John Walter, to Dunlop Holdings Limited. Braking systems. 3,759,581, 9-18-73, Cl. 303-13.000.
Davis, Joseph T. Sectional interior concrete form. 3,767,157, 10-23-73, Cl. 249-186.000.
Davis, Kan Bryan; and Zuber, Bretislav Paul, to Northern Electric Company, Limited. Registering of transversily corrugated elements. 3,769,677, 11-6-73, Cl. 29-200.00p.
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Davis, Lawrence P.; Harrison, John E.; and Tribken, Everett R., to Sperry Rand Corporation. Control moment gyroscope with integral torque control. 3,762,226, 10-2-73, Cl. 74-5.400.
Davis, Leo W., to Peerless Mfg. Co. Vehicle suspension assembly. 3,773,348, 11-20-73, Cl. 280-124.00a.
Davis, Leonard M., Jr.: *See—*
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Davis, Lessel George, to Twentieth Century Blinds Pty., Limited. Machine for cutting rod-like articles into required lengths. 3,715,940, 2-13-73, Cl. 82-63.000.
Davis, Lester M. Fishing line display-dispenser. 3,729,091, 4-24-73, Cl. 206-44.110.
Davis, Lester W., Jr., to Esso Research and Engineering Company. Quick change multi-fuel burner feed assembly. 3,720,378, 3-13-73, Cl. 239-397.000.



Davis, Lewis E.: *See—*
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Davis, Louis E.; Jensen, Billy M.; Larson, Floyd L.; Huck, Rainer F.; and Stumph, Stephen L., to Bio-Logics, Products, Inc. Encoding and verifying information. 3,760,159, 9-18-73, Cl. 235-61.60r.
Davis, Lynn M.: *See—*
Theis, James V., Jr.; and Davis, Lynn M., 3,708,240.
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Davis, Marvin A. Gun butt locator. 3,708,801, 1-9-73, Cl. 2-94.000.
Davis, Maurice, to Davis Industrial (Equipment) Limited. Fastening devices. 3,711,138, 1-16-73, Cl. 287-189.36f.
Davis, Mike, to Dresser Industries, Inc. Acoustic well logging method and apparatus using pipe as an acoustic transmitter. 3,752,257, 8-14-73, Cl. 181-.5ag.
Davis, Mike, to Dresser Industries, Inc. Stuck point indicating device with linear sensing means. 3,762,218, 10-2-73, Cl. 73-151.000.
Davis, Murray A. Liquid spill collection system. 3,712,330, 1-23-73, Cl. 137-312.000.
Davis, Neville Ryland. Current-operated switch. 3,725,670, 4-3-73, Cl. 307-117.000.
Davis, Noel, to Integrated Development and Manufacturing Company. Heating and cooling system. 3,734,810, 5-22-73, Cl. 165-29.000.
Davis, Noel, to Integrated Development and Manufacturing Company. Lighting arrangement. 3,777,199, 12-4-73, Cl. 313-27.000.
Davis, Norman, to British Iron and Steel Research Association, The. Apparatus for determining the permeability or stress in a moving magnetic strip in two orthogonal directions. 3,781,662, 12-25-73, Cl. 324-34.0st.
Davis, Oliver Thurston; and Jones, Norman R. Electrical filtered air heater. 3,737,626, 6-5-73, Cl. 219-360.000.
Davis, Oneal W.: *See—*
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Davis, Owen K.; Haupt, Robert C.; Hansen, Kenneth N.; and Slosiarek, Michael L., to Allis-Chalmers Manufacturing Company. Chassis suspension on vehicle frame. 3,741,329, 6-26-73, Cl. 180-89.00r.
Davis, Owen R.; Haupt, Robert C.; Hansen, Kenneth N.; and Slosirek, Michael L., to Allis-Chalmers Corporation. Vehicle chassis resiliently supported on main frame. 3,732,941, 5-15-73, Cl. 180-89.00r.
Davis, Paul, to Sweetheart Plastics, Inc. Capping device for containers. 3,715,865, 2-13-73, Cl. 53-319.000.
Davis, Paul, to Sweetheart Plastics, Inc. Container lid. 3,724,710, 4-3-73, Cl. 220-60.00r.
Davis, Paul, to Sweetheart Plastics, Inc. Container and closure. 3,749,276, 7-31-73, Cl. 220-60.00r.
Davis, Paul, to Sweetheart Plastics Inc. Disposable plastic container and cover. 3,779,418, 12-18-73, Cl. 220-60.00r.
Davis, Paul B., to TRW Inc. Multi-material filament woven cage. 3,733,110, 5-15-73, Cl. 308-217.000.
Davis, Paul H., to Dukane Corporation. Ultrasonic rigid horn assembly. 3,780,926, 12-25-73, Cl. 228-1.000.
Davis, Paul K., to Pacific Roller Die Co., Inc. Pipe tracking apparatus and method. 3,747,446, 7-24-73, Cl. 82-53.00r.
Davis, Paul Trevor; Glover, Terence George; and Jones, John Robert, to BP Chemicals International Limited. Process for the production of gaseous olefins from petroleum distillate feedstocks. 3,781,195, 12-25-73, Cl. 208-57.000.
Davis, Pauls; and Vogt, Herwart C., to BASF Wyandotte Corporation. Chloronitrosylated polymers and a process for the preparation thereof. 3,723,404, 3-27-73, Cl. 260-94.9gb.
Davis, Pauls; and Vogt, Herwart C., to BASF Wyandotte Corporation. Two-phase slurry process for the chloronitrosylation of polymers. 3,763,134, 10-2-73, Cl. 260-93.700.
Davis, Philip E., Jr. Apparatus and method for running a well screen and packer and gravel packing around the well screen. 3,726,343, 4-10-73, Cl. 166-278.000.
Davis, Raleigh F. Device for punching holes in metal tubes. 3,738,209, 6-12-73, Cl. 83-98.000.
Davis, Ralph A.; and Allswede, Keith A., to Dow Chemical Company, The. Regeneration of activated charcoal catalyst used in sulfuryl fluoride production. 3,714,336, 1-30-73, Cl. 23-203.00r.
Davis, Ralph B.: *See—*
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Davis, Richard K., to General Electric Company. Voltage ratio discriminator. 3,781,698, 12-25-73, Cl. 329-178.000.
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Davis, Richard P. Support assembly for punches and piston rods. 3,733,946, 5-22-73, Cl. 83-129.000.
Davis, Richard P. Ice and snow removal machine. 3,736,028, 5-29-73, Cl. 299-25.000.
Davis, Richard T. Method of controlling basic oxygen furnace and Bessemer converter processes. 3,741,750, 6-26-73, Cl. 75-60.000.
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Davis, Robert D.; Meyer, Theodore N.; and Blizzard, Roy L., to Plasmachem, Inc. Method and apparatus for production of metallic powders. 3,738,824, 6-12-73, Cl. 75-.50b.
Davis, Robert D.; Meyer, Theodore N.; and Blizzard, Roy L., to Plasmachem, Inc. Tantalum powder. 3,748,106, 7-24-73, Cl. 29-192.000.
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Davis, Robert H., to Mobil Oil Corporation. Lubricant for metal working. 3,723,314, 3-27-73, Cl. 252-33.400.
Davis, Robert H., to Mobil Oil Corporation. Aqueous lubricant compositions containing alkanolamine salts of carboxylic acid. 3,769,214, 10-30-73, Cl. 252-34.00f.
Davis, Robert J., to Equipment Systems, Inc. Outside elevator. 3,763,964, 10-9-73, Cl. 187-2.000.
Davis, Robert L., to General Tire & Rubber Company, The. Fluid pressure condition warning device. 3,719,159, 3-6-73, Cl. 116-34.000.
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Davis, Ronald I., to Sun Research and Development Co. Preparation of 2-pyrrolidinone. 3,781,298, 12-25-73, Cl. 260-326.5fn.
Davis, Rooney W., to Sola Basic Industries, Inc. Adjustable fluorescent lamp mounting means. 3,752,977, 8-14-73, Cl. 240-51.120.
Davis, Roy Forrest, Jr. Pressure and vacuum relief valve. 3,766,941, 10-23-73, Cl. 137-493.400.
Davis, Roy S. Lathe chuck wrench safety device with chuck key actuated microswitch. 3,761,654, 9-25-73, Cl. 200-61.58r.
Davis, Russell S., to I-T-E Imperial Corporation. Weatherproof bus duct. 3,726,988, 4-10-73, Cl. 174-68.00b.
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Davis, Steven Jay, to General Datacomm Industries, Inc. Closed data loop test apparatus for data transmission modem. 3,743,938, 7-3-73, Cl. 325-67.000.
Davis, Steven S.; and Durrant, Morris F., to Envirotech Corporation. Agitator mounting for drum filters. 3,726,510, 4-10-73, Cl. 259-101.000.
Davis, Steven S., to Envirotech Corporation. Pressure filter. 3,760,945, 9-25-73, Cl. 210-143.000.
Davis, Steven S., to Envirotech Corporation. Belt guide and tensioning device for horizontal filters. 3,762,561, 10-2-73, Cl. 210-401.000.
Davis, Stevens S.; and Cottam, Spencer, to Envirotech Corporation. Feedwell. 3,770,131, 11-6-73, Cl. 210-519.000.
Davis, Thomas L.; and Hansen, Joseph D., to Boeing Company, The. Ram pressure standoff extension and safe/arm mechanism for self arming munitions. 3,710,716, 1-16-73, Cl. 102-7.400.



Davis, Thomas L., 10% to Lee, Raymond, Organization, Inc., The. Auxiliary bumper impact protector. 3,746,383, 7-17-73, Cl. 293-71.00r.
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Davis, Thomas L., 10% to Lee, Raymond, Organization, Inc., The. Auxiliary bumper impact protector. 3,746,383, 7-17-73, Cl. 293-71.00r.
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Davis, Walter L., to Ibex; division of Jelco. Tug vehicle with rear corner window. 3,709,521, 1-9-73, Cl. 280-421.000.
Davis, Walter P., to Radiant Devices Incorporated. Method of making an electric radiant heating panel. 3,766,644, 10-23-73, Cl. 29-611.000.
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Davis, Walter Richard; and Solomon, James E., to Motorola, Inc. Method and apparatus for adjusting transistor current. 3,761,787, 9-25-73, Cl. 317-235.000.
Davis, Walter Thomas, to Formica Corporation. Decorative laminate coated on its back most surface with a carboxylated styrene-butadiene polymeric rubber based adhesive and process for installing the same. 3,733,242, 5-15-73, Cl. 161-160.000.
Davis, Ward B., to Sterilizer Control Royalties. Disposable plastic syringe for use in colorimetry. 3,732,079, 5-8-73, Cl. 23-253.0tp.
Davis, Warren B., to Superior Oil Company. Transducer amplifier system. 3,718,901, 2-27-73, Cl. 340-17.000.
Davis, Warren W., to Caterpillar Tractor Company. Variable area nozzle for turbines or compressors. 3,719,427, 3-6-73, Cl. 415-147.000.
Davis, Wayne Edward, to Johns-Manville Corporation. Programmable irrigation computer. 3,723,753, 3-27-73, Cl. 307-41.000.
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Davis, William A., to General Motors Corporation. Removable vehicle body closure with dual use installation. 3,781,059, 12-25-73, Cl. 296-137.013.
Davis, William D., to General Electric Company. Two-stage, single magnet mass spectrometer. 3,711,706, 1-16-73, Cl. 250-41.9me.
Davis, William D., to General Electric Company. Method and apparatus for analysis of impurities in air and other gases. 3,770,954, 11-6-73, Cl. 250-41.0se.
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Davis, William F., to Motorola, Inc. Stable current reference circuit with beta compensation. 3,721,893, 3-20-73, Cl. 323-4.000.
Davis, William F.; Shumway, Howard G.; and Frederiksen, Thomas M., to Motorola, Inc. Regulator for controlling capacitor charge to provide complex waveform. 3,727,081, 4-10-73, Cl. 307-260.000.
Davis, William F.; Russell, Ronald W.; Frederiksen, Thomas M.; and Long, Ernest L., to Motorola, Inc. Integrated circuit current regulator with differential amplifier control. 3,735,240, 5-22-73, Cl. 323-4.000.
Davis, William F., to Motorola, Inc. Integrated current supply circuit. 3,743,850, 7-3-73, Cl. 307-32.000.
Davis, William J.; and Gilles, Richard C., to Ferri, Joseph E. Lubricating composition. 3,729,415, 4-24-73, Cl. 252-25.000.
Davis, William John, to RCA Corporation. Simultaneous digital transmission in both directions over one line. 3,725,582, 4-3-73, Cl. 178-58.000.
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Davis, William M., Jr.; and Windya, Richard A., to Singer Company, The. High speed switch with complementary outputs. 3,708,695, 1-2-73, Cl. 307-237.000.
Davis, William P., to Bio-Logics Products, Inc., mesne. Fluid valve. 3,773,082, 11-20-73, Cl. 137-625.480.
Davis, William T. Mop holder. 3,731,333, 5-8-73, Cl. 15-257.000.
Davison, Ellison L., to Mine Safety Appliances Company. Pneumatically operated ventilator. 3,730,180, 5-1-73, Cl. 128-145.600.
Davison, Ernest, to Fluid Power Limited. Link-shaped structure for a press frame. 3,717,024, 2-20-73, Cl. 72-455.000.
Davison, Fred E. Wind power machine. 3,730,643, 5-1-73, Cl. 416-8.000.
Davison, Gerald M. Combination air heating and cooling apparatus for limited space installations. 3,749,157, 7-31-73, Cl. 165-48.000.
Davoine, Georges, to Les Fabriques d'Assortiments Reunies. Flat pin pallet. 3,708,975, 1-9-73, Cl. 58-121.00r.
Davoud, John Gordon, to Cox, Edwin, Associates. Condensable vapor power producing system. 3,716,990, 2-20-73, Cl. 60-94.000.
Davoud, John Gordon; and Burke, Jerry A., Jr., to D-Cycle Associates. Multi-cylinder external combustion power producing system. 3,772,883, 11-20-73, Cl. 60-94.000.
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Daw, Avril. Pneumatic tube jumping toy. 3,765,673, 10-16-73, Cl. 272-57.00e.
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Dawans, Francois, to Institut Francais du Petrole des Carburants et Lubrifiants. Nickel π-allyl halogenoacetates, their use as catalysts for the stereospecific polymerization of unsaturated organic compound. 3,719,653, 3-6-73, Cl. 260-94.300.
Dawans, Francois; and Amigues, Pierre, to Institut Francais du Petrole des Carburants et Lubrifiants. Manufacture of amorphous polybutadiene with a high content of 1,2 units. 3,772,263, 11-13-73, Cl. 260-94.300.
Dawber, Edmund Norman, to Serck Industries Limited. Control system for gas pressure regulating apparatus. 3,746,030, 7-17-73, Cl. 137-110.000.
Dawdy, Jack A.; and Hamme, Donald G., to National Gypsum Company. Wallboard attachment. 3,731,447, 5-8-73, Cl. 52-489.000.
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Dawidowicz, Jan, to Warner-Lambert Company. Guard bar for safety razors. 3,722,090, 3-27-73, Cl. 30-32.000.
Dawidowicz, Jan; and Ferraro, Frank A., to Warner-Lambert Company. Bonded blade cartridges and a cartridge dispensing system. 3,771,223, 11-13-73, Cl. 30-40.000.
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Dawson, Chester H.; Catlin, Robert T.; and Haskell, Philip R., to Remington Arms Company, Inc. Armored metal file band and production thereof. 3,774,355, 11-27-73, Cl. 51-395.000.
Dawson, Edward C., to United States of America, Air Force. Method and means for providing resolution level selection in a spectrum analyzer. 3,715,509, 2-6-73, Cl. 179-15.55t.
Dawson, Harry J.; Hoftiezer, Wallace A.; Keedy, David E.; Mangus, Ervin E.; Patton, Eugene K.; and Grandfield, Joseph P., to Caterpillar Tractor Company. C-flow stacked plate heat exchanger. 3,759,323, 9-18-73, Cl. 165-166.000.
Dawson, Hylton: *See—*
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Dawson, James A., to McDonnell Douglas Corporation. Swaging tool. 3,726,122, 4-10-73, Cl. 72-412.000.
Dawson, James A., to McDonnell Douglas Corporation. Check gauge for swaged fitting and tube connections. 3,762,059, 10-2-73, Cl. 33-174.00g.
Dawson, James A., to McDonnell Douglas Corporation. Swaging tool. 3,771,343, 11-13-73, Cl. 72-402.000.
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Dawson, John; and Bunting, Colin, to Plessey Handel und Investments A.G. Electrical information store. 3,755,797, 8-28-73, Cl. 340-174.0pc.
Dawson, John Burt: *See—*
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Dawson, Joseph, (Holdings) Limited: *See—*
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Dawson, Juan C., to Bendix Corporation, The. Interferometric device for indicating displacement along one dimension during motion along another dimension. 3,779,647, 12-18-73, Cl. 356-109.000.
Dawson, Lindsay Grahame; Petrie, James Alexander; and Bracey, Kenneth Edward George, to Rolls-Royce Limited. Bladed rotor for a gas turbine engine. 3,708,244, 1-2-73, Cl. 416-196.000.
Dawson, Lindsay Grahame; Petrie, James Alexander; and Bracey, Kenneth Edward George, to Rolls-Royce Limited. Bladed rotor for a gas turbine engine. 3,719,439, 3-6-73, Cl. 416-196.000.
Dawson, Paul Ernest: *See—*
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Dawson, Peter G. Signal light for emergency vehicle. 3,781,790, 12-25-73, Cl. 340-97.000.
Dawson, Peter Leonard. Controls for valves. 3,712,578, 1-23-73, Cl. 251-35.000.
Dawson, Peter S. S.; Kurz, Wolfgang G. W.; Anderson, Moffat; and York, Arthur E., to Canadian Patents and Development Limited. Non-ramified cture growing apparatus. 3,713,988, 1-30-73, Cl. 195-143.000.
Dawson, Robert Herman, to RCA Corporation. High frequency insulated gate field effect transistor for wide frequency band operation. 3,749,985, 7-31-73, Cl. 317-235.00r.
Dawson, Robert Louis, to Du Pont de Nemours, E. I., and Company. Epoxy polyurethane prepolymer compositions which are self-curing upon application of heat. 3,761,452, 9-25-73, Cl. 260-77.5ap.
Dawson, W. John, Jr.; Reyburn, Mary Lou; and Roettger, Richard F. Cervical spine traction apparatus. 3,750,658, 8-7-73, Cl. 128-75.000.
Dawson, William F.; and Shemie, Milo, to Descon Concordia Systems, Ltd.; c/o Sage, Gray Todd & Sims. Erection method for structural system. 3,775,928, 12-4-73, Cl. 52-741.000.
Dawson, William N.: *See—*
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Day, Albert J.: *See—*
White, James E.; Correll, Quentin E.; Swain, Allan L.; Talbot, Leo Robert; Collado, Ernest E.; and Oudijk, Tommy A., 3,752,074.
Day, Christopher C.; and Grace, Wesley R., to American Optical Corporation. Analog signal selective-peak sampler system for blood pressure signals. 3,714,939, 2-6-73, Cl. 128-2.05a.
Day, Christopher C., to American Optical Corporation. Digital cathode ray tube intensity-modulator. 3,745,407, 7-10-73, Cl. 315-30.000.
Day, Christopher C., to American Optical Corporation. Digital CRT system for displaying a precessing waveform and its derivative. 3,768,093, 10-23-73, Cl. 340-324.00a.
Day, Donald L.; Halstead, Charles H.; and Huck, Neil F., to Textron, Inc. Crimping machine for standing seam roofs. 3,773,005, 11-20-73, Cl. 113-55.000.
Day, Donald T., to Ashland Oil Inc. Method for determining tack. 3,741,012, 6-26-73, Cl. 73-150.00a.
Day, Donald W., to Barker-Coleman Company. Ambient compensated solar sensor. 3,768,059, 10-23-73, Cl. 338-25.000.
Day, Edgar Allen: *See—*
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Day, Edward G., to General Motors Corporation. Reactor air flow control valve. 3,748,855, 7-31-73, Cl. 60-290.000.
Day, Edward G.; and Giannone, Guy E., to General Motors Corporation. Sensor and trigger mechanism. 3,749,282, 7-31-73, Cl. 222-5.000.
Day, Edward G.; and Ranft, Ernst L., to General Motors Corporation. Exhaust gas recirculation valve. 3,762,384, 10-2-73, Cl. 123-119.00a.
Day, Elaine Hilda: *See—*
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Day, Gene F., to Varian Associates. Method for fixing of liquid toner developed electrographic images. 3,715,225, 2-6-73, Cl. 117-21.000.
Day, J. H., Company, The: *See—*
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Day, John; and Thomas, David Kenneth, to United Kingdom of Great Britain and Northern Ireland, Minister of Aviation Supply in Her Britannic Majesty's Government of the. Preparation of nitrile silicone rubber. 3,715,411, 2-6-73, Cl. 260-827.000.
Day, John Anthony; and Vaughan, John Melville Graham Powell, to Healey Mouldings Limited. Handle assemblies for articles of hollow-ware. 3,774,263, 11-27-73, Cl. 16-114.000.
Day, John J.; and Hirschman, Paul S., to Ocean Protein Corporation. Apparatus for growing crustaceans. 3,724,423, 4-3-73, Cl. 119-4.000.
Day, John J.; and Zajac, Jaroslav, to Gulf Research & Development Company. Method for increasing the mobility of waxy crude oils. 3,735,770, 5-29-73, Cl. 137-13.000.
Day, John J.; and Hirschman, Paul S., to Ocean Protein Corporation. Filter. 3,779,387, 12-18-73, Cl. 210-232.000.
Day, Lawrence, to Spitfire Tool & Machine Co., Inc. Device for testing the flatness of the surface of a lapping plate of a lapping machine. 3,762,053, 10-2-73, Cl. 33-1.0bb.
Day, Lawrence E.; and Ellis, Lee F., to Lilly, Eli, and Company. Process for producing interferon-inducing particles and composition containing said particles. 3,719,754, 3-6-73, Cl. 424-177.000.
Day, Leon E., 50% to Rolen, William C. and Sellers, James B. Earth anchor. 3,778,943, 12-18-73, Cl. 52-167.000.
Day, Lucius B., Jr., to United States of America, Navy. Suppressed carrier single-sideband signal detection. 3,729,679, 4-24-73, Cl. 325-49.000.
Day, Paul L., to Park-Ohio Industries, Inc. Resistince heating apparatus for elongated workpieces of varied lengths. 3,743,778, 7-3-73, Cl. 219-156.000.
Day, Ralph R.: *See—*
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Day, Ralph R., to Caterpillar Tractor Company. Steering control means and grab bar combination. 3,707,887, 1-2-73, Cl. 74-552.000.
Day, Robert W. Sub-caliber conversion unit. 3,724,326, 4-3-73, Cl. 89-196.000.
Day, Robert W. Sub-caliber conversion unit. 3,772,812, 11-20-73, Cl. 42-7.000.
Day, William B., to Sperry Rand Corporation. Microwave microcircuit. 3,711,778, 1-16-73, Cl. 325-446.000.
Day, William B., to Sperry Rand Corporation. High frequency mixer and modular replaceable element therefor. 3,721,903, 3-20-73, Cl. 325-445.000.
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Jacob, Richard J., 3,768,524.
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Dayger, Jonas E.; Drejza, John E.; and Moncagle, Otto F., to International Business Machines Corporation. Front-back printer. 3,735,696, 5-29-73, Cl. 101-93.00c.
Dayger, Jonas E.; Dowd, Albert A.; and Vrablic, Joseph A., to International Business Machines Corporation. Electromagnetic actuating means for print hammers. 3,738,262, 6-12-73, Cl. 101-93.00c.
Daykin, Donald E.: *See—*
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Dayton Wright Associates Limited: *See—*
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Huebner, Werner P. E.; and Long, Robert G., 3,737,677.
De Ambri, Diamante: *See—*
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De Amicis, Ferdinando. Battery lug cleaning tool. 3,745,622, 7-17-73, Cl. 29-78.00r.
De Angeles, Robert Marion; and Zbylut, Dennis. Dental tool. 3,727,314, 4-17-73, Cl. 32-41.000.
De Angelis, Armand, to Omnitech, Inc. Face shield headgear. 3,763,495, 10-9-73, Cl. 2-8.000.
De Angelis, Gerald George; and Hess, Hans-Jurgen Ernst, to Pfizer Inc. Benzothieno(3,2-d)- and benzofuro(3,2-d) pyrimidines inhibitors of platelet aggregation. 3,755,583, 8-28-73, Cl. 424-251.000.
De Angelis, Giovanni; and Marchiaro, Ettore, to Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa Societa per Azioni. Percussion fuze for rockets. 3,765,339, 10-16-73, Cl. 102-78.000.
De Angelis, Peter; Morris, Alfred R.; and Mac Millan, Alan L., to Sobin Chlor-Alkali, Inc. Process and apparatus for removing mercury from waste water. 3,736,253, 5-29-73, Cl. 210-27.000.
De Angelis, William M.; Luthmann, Reinhardt F.; Meehan, Charles A.; and Smith, M. Howe, to Technicon Instruments Corporation. Method of fabricating laboratory glassware. 3,770,405, 11-6-73, Cl. 65-23.000.
De Angelo, Michael Anthony; and Sharp, Donald Jex, to Western Electric Company, Incorporated. Method of preparing at least one conductive form. 3,729,388, 4-24-73, Cl. 204-3.000.
De Angelo, Michael Anthony; and Sharp, Donald Jex, to Western Electric Company, Incorporated. Method of electroplating discrete conductive regions. 3,729,389, 4-24-73, Cl. 204-15.000.
De Antoni, Jacques; and Eche, Raymonde, to Les Laboratories Bruneau & Cie. Phenoxy-acetamides. 3,772,356, 11-13-73, Cl. 260-471.00r.
De Baan, Johannes J.: *See—*
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De Baan, Johannes Jasper; and Adrian, Adolf, to Belstein, August, Firma. Shock absorber. 3,749,210, 7-31-73, Cl. 188-298.000.
De Backer, Frank A.: *See—*
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De Bakey, Michael E., to United States of America, Health, Education and Welfare. Artificial heart consisting of a biventricular pump with control mechanisms for total replacement of human heart. 3,755,825, 9-4-73, Cl. 3-1.000.
De Bardeleben, John F., Jr., to Morris, Philip, Incorporated. Dinitrimines. 3,709,941, 1-9-73, Cl. 260-566.00r.
De Baselarie de Lesseux, Jacques: *See—*
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De Baun, Kenneth W., to Air Monitor Corporation. Fan capacity measuring station. 3,733,900, 5-22-73, Cl. 73-212.000.
De Baun, Kenneth W., to Air Monitor Corporation. Air flow balancing device. 3,748,901, 7-31-73, Cl. 73-212.000.
De Baynast, Regis, to Institut Francais du Petrole, des Carburants et Lubrifiants et Entreprise de Recherches et d'Activities Petrolieres. Process for manufacturing enzymes from hydrocarbons. 3,772,152, 11-13-73, Cl. 195-66.00r.
de Beaulie, Henry: *See—*
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De Belder, Maurice Hector; Bollen, Romain Henri; Stievenart, Emile Frans; and Thiels, Albert Frans, to Gevaert-Agfa N.V. X-ray image viewer. 3,726,034, 4-10-73, Cl. 40-106.100.
De Bell, Lawrence R.; and Price, David D., Jr., to Economy Co. Recorder having manually actuated means for pivotal vertical movement of the head into operating position. 3,780,231, 12-18-73, Cl. 179-100.2ca.
de Bella, Gasper V., to Cal-West Electric Inc. Portable engine-generator power unit with cooling. 3,714,449, 1-30-73, Cl. 290-1.000.
De Bella, Sylvester J. Flat filling machine. 3,746,058, 7-17-73, Cl. 141-129.000.
De Benedetto, Marianne: *See—*
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de Bennetot, Michel Cotton, to Agence Nationale de Valorisation de la Recherche (ANVAR). Apparatus for intracorporeal control, in particular of the cross-section of an organic vessel or duct. 3,749,098, 7-31-73, Cl. 128-346.000.
De Benneville, Peter L.; and Greenberger, Norton J., to Rohm & Haas Company. Method for evaluating pancreatic enzyme sufficiency and compounds useful therein. 3,745,212, 7-10-73, Cl. 424-9.000.
De Berardinis, Albert J., to ICI America Inc. Process for producing mannitol. 3,763,246, 10-2-73, Cl. 260-635.00c.
De Bernardi, Jacques Francois Dominique: *See—*
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De Biasi, Charles P. Apparatus for pollution control of furnace gases. 3,715,868, 2-13-73, Cl. 55-315.000.
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De Biasse, Richard L.; and Harvey, Warren L., said Harvey assor. to said De Biasse, Richard L. Brake and wheel assembly for motorcycles and the like. 3,709,561, 1-9-73, Cl. 301-6.00e.
De Bie, Edouard, to Metallurgie Hoboken-Overpelt. Melting of metals. 3,715,203, 2-6-73, Cl. 75-76.000.
De Bleyker, James R.; and Hickox, William A., to General Electric Company. Electric lamp base end structure. 3,739,221, 6-12-73, Cl. 313-318.000.
De Bock, Cornelis Albertus; and Schlatmann, Joseph Lucas Maria Antonius, to U.S. Philips Corporation, mesne. Spiro-azatetramethylene derivatives as antiinfluenza agents. 3,733,412, 5-15-73, Cl. 424-274.000.
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De Boer, Cyrus M. Electrolytic cleaning and corrosion-removal process. 3,756,931, 9-4-73, Cl. 204-141.500.
De Boer, Franciscus Jacobus: *See—*
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De Boer, Jacob, to North American Philips Co., Inc. Converting circuit for a line-sequential television signal recording device. 3,729,579, 4-24-73, Cl. 178-5.4cd.
De Bono, Edward. Board game apparatus. 3,740,037, 6-19-73, Cl. 273-134.0af.
De Bray, Harold W., to United States Steel Corporation. Apparatus for operating a blast furnace. 3,772,504, 11-13-73, Cl. 235-151.100.
De Bretagne, Yves, to Honeywell Inc. Field effect transistor impedance coupling network whose output voltage equals the input voltage. 3,746,893, 7-17-73, Cl. 307-304.000.
De Brey, Heinrich; and Roos, Pieter, to U.S. Philips Corporation. Telescope including an imaging system for radiation in the visible range. 3,745,347, 7-10-73, Cl. 250-83.30r.
De Brosse, Kenneth L.: *See—*
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De Broutelles, Roger; and Duchene, Louis, to Etablissements Pennel & Flipo. Process for the preparation of a porous plastics material and the product resulting therefrom. 3,772,223, 11-13-73, Cl. 260-2.5ay.



De Brunner, Marjorie Ruth, to Du Pont de Nemours, E. I., and Company. Fluoroelastomer composition containing a triarylphosphorane vulcanization accelerator. 3,752,787, 8-14-73, Cl. 260-41.00b.
De Brunner, Ralph E.; and Clements, Patricia C. Method of protecting carbonaceous material from oxidation at high temperature. 3,713,882, 1-30-73, Cl. 117-169.00r.
de Bruyne, Pieter, to RCA Corporation. Vibrating web transport apparatus. 3,731,317, 5-1-73, Cl. 346-107.00r.
De Burgh, Raymond J.; and Novick, Harold L., to DeBurgh, Raymond J. Night viewing system for reading without light. 3,781,560, 12-25-73, Cl. 250-333.000.
De Cadenet, Jean-Jacques; Gueussier, Andre; and Tricot, Roland, to Pechiney Ugine Kuhlmann. Stainless steel with a high boron content. 3,736,128, 5-29-73, Cl. 75-126.00p.
De Carbon, Christian Bourcier. Floating pistons. 3,730,060, 5-1-73, Cl. 92-249.000.
De Carbon, Christian Bourcier. Shock absorber pistons. 3,747,714, 7-24-73, Cl. 188-317.000.
De Cardenas, Ignacio. Sound-muffling device. 3,746,126, 7-17-73, Cl. 181-36.00b.
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De Carlo, Frank S.: *See—*
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De Carlo, Joseph P. Window cleaning apparatus. 3,759,621, 9-18-73, Cl. 401-10.000.
De Carlo, Joseph P. Window cleaning apparatus. 3,778,173, 12-11-73, Cl. 401-10.000.
De Caro, Aristide R.: *See—*
Rainone, Nicholas J.; and De Caro, Aristide R., 3,733,508.
De Caro, Aristide R., to Westinghouse Electric Corporation. Halogen-cycle incandescent lamp having a platinized interior fuse. 3,727,091, 4-10-73, Cl. 313-222.000.
De Caro, Aristide R., to Westinghouse Electric Corporation. Triple purpose heat shield, light collector and mount support for a tungsten-halogen projection lamp. 3,781,582, 12-25-73, Cl. 313-37.000.
De Caro, Charles J., to Textron, Inc. Tire stud. 3,749,146, 7-31-73, Cl. 152-210.000.
De Castelet, Gaetan De Coye, to Regie Nationale des Usines Renault. Corrosion-resistant ornamental chromium plating. 3,759,802, 9-18-73, Cl. 204-41.000.
De Cat, Arthur Henri; and Manssens, Leo Hypoliet, to Gevaert-Agfa N.V. Method for the preparation of 2-alkyl substituted thiazoles and selenazoles. 3,759,935, 9-18-73, Cl. 260-298.000.
De Cepoli, Carmen; and De Cepoli, Edward C. Surface game disc element. 3,709,496, 1-9-73, Cl. 273-128.0cs.
De Cepoli, Edward C.: *See—*
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De Cicco, Marie Augusta. Tire with safety indicator means. 3,770,040, 11-6-73, Cl. 152-330.000.
De Cock, Etienne Marie, to Agfa-Gevaert N.V. Device for the detection of irregularities in a material. 3,748,482, 7-24-73, Cl. 250-219.0df.
De Cock, Etienne Marie, to Agfa-Gevaert N.V. Apparatus for measuring dimensional deviations. 3,761,723, 9-25-73, Cl. 250-560.000.
De Cock, Etienne Marie. Photoelectric device for measuring variations in the optical density of a moving web. 3,761,726, 9-25-73, Cl. 250-571.000.
De Coene, Frans J.; and Vanstellant, Marc G., to Clayson N.V. Mechanism for the automatic adjustment of the header of harvesting machines. 3,747,311, 7-24-73, Cl. 56-208.000.
De Coninck, David D. Quoit having hooked end portions and an opening in the center hub. 3,762,710, 10-2-73, Cl. 273-106.00c.
De Cook, Etienne Marie, to Agfa-Gevaert N.V. Device for detecting irregularities in a moving material. 3,743,838, 7-3-73, Cl. 250-219.0df.
De Corso, Serafino M.: *See—*
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De Corso, Serafino M., to Westinghouse Electric Corporation. Process of refining metal in a vacuum with coaxially mounted nonconsumable electrodes. 3,708,279, 1-2-73, Cl. 75-10.00v.
De Corso, Serafino M.; and Bruning, Armin M., to Westinghouse Electric Corporation. Process for iron ore reduction and electric furnace for iron ore reduction having at least one nonconsumable electrode. 3,736,358, 5-29-73, Cl. 13-9.000.
De Cottis, Constant J.: *See—*
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De Crescente, Michael A.: *See—*
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De Diemar, Ronald B.; and Schuman, Le Roy J., to Barber-Greene Company. Gyratory crusher having anti-spin means for head. 3,743,193, 7-3-73, Cl. 241-207.000.
De Diemar, Ronald B.; and Archer, Fred Curtis, to Barber-Greene Company. Gyratory crusher having crusher head restrainer. 3,750,809, 8-7-73, Cl. 241-209.000.
De Diemar, Ronald B.; and Schuman, Le Roy J., to Barber-Greene Company. Gyratory crusher having interchangeable head mantles. 3,750,967, 8-7-73, Cl. 241-207.000.
De Dobo, Aranka Elisabeth: *See—*
De Dobo, Tibor Louis, 3,771,501.
De Dobo, Tibor Louis, to De Dobo, Aranka Elisabeth. Rotary piston engine with multi explosion chambers. 3,771,501, 11-13-73, Cl. 123-8.450.
De Felice, Amedio P. Mechanical and pneumatic knockout pin. 3,718,415, 2-27-73, Cl. 425-444.000.
De Felice, Amedio P. Safety cap. 3,734,331, 5-22-73, Cl. 215-9.000.
De Felice, David F. Aerosol color mixture and method of making same. 3,734,747, 5-22-73, Cl. 99-148.00r.
De Fevere, Dennis: *See—*
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De Filipps, Fred A., to Fifth Third Bank, The, mesne. Collapsible saddle rack. 3,780,971, 12-25-73, Cl. 248-309.000.
De Fillipo, Joseph J. Golf club holder attachment for prosthesis. 3,747,128, 7-24-73, Cl. 3-12.800.
De Fossey, Bernard Mathieu, to Roussel-UCLAF. Novel treatment of wounds. 3,760,073, 9-18-73, Cl. 424-243.000.
De Fraeye, Dirk Jules Remi, to U.S. Philips Corporation. Halogen filament lamp. 3,743,375, 7-3-73, Cl. 316-20.000.
De Fraeye, Dirk Jules Remi, to U.S. Philips Corporation. Electric filament lamp. 3,764,845, 10-9-73, Cl. 313-272.000.
De Frate, Louis A.: *See—*
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De Frees, Joseph H. Combination manhole and fill. 3,744,670, 7-10-73, Cl. 220-57.000.
De Fries, Jan Richard Peter; and Tresch, Erwin Josef. Flow level sensing system with flow electrical transducer, and its application. 3,709,035, 1-9-73, Cl. 73-204.000.
De Furia, Paul. Highway safety aid. 3,738,039, 6-12-73, Cl. 40-129.00c.
De Gaeta, Albert Martin. Ball bearings. 3,731,985, 5-8-73, Cl. 308-194.000.
De Geest, Wilfried Florent: *See—*
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De Geest, Wilfried Florent; and Vandenabeele, Hubert, to Agfa-Gevaert N.V. Photographic silver halide element with an antistatic outer layer comprising a fluorinated surfactant and a polymethacrylate matting agent. 3,754,924, 8-28-73, Cl. 96-114.200.
De Gelleke, Gerrit: *See—*
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Mount, Robert E.; De Gelleke, Gerrit; and Pundyk, Joseph, 3,718,303.
De George, Michael. Traction splint assembly. 3,762,405, 10-2-73, Cl. 128-84.00c.
de Germond, Hubert. Method of making bearings. 3,732,606, 5-15-73, Cl. 29-148.40a.
De Gier, Johannes; and Eisses, Reinhart Charles Willem, to U.S. Philips Corporation, mesne. Method of making a cathode-ray tube. 3,725,710, 4-3-73, Cl. 313-64.000.
De Gier, Nico Arie; and Van Der Kooij, Simon, to U.S. Philips Corporation. Dip lacquering of electrical components. 3,736,179, 5-29-73, Cl. 117-201.000.
De Gioia, Frank A., to General Latex and Chemical Corporation. Method of preparing a cellular, urethane backed tufted rug. 3,741,854, 6-26-73, Cl. 161-67.000.
De Good, Marnard J., to Rapistan Incorporated. Accumulator with braking. 3,724,642, 4-3-73, Cl. 198-127.00r.
De Good, Maynard J., to Rapistan Incorporated. Sensor locking accumulator. 3,730,330, 5-1-73, Cl. 198-127.00r.
De Good, Maynard J., to Rapistan, Incorporated. Accumulator with transport override. 3,770,102, 11-6-73, Cl. 198-127.00r.
De Graaf, Clare J., to Gordon Manufacturing Co. Chair iron and mounting plate therefor. 3,712,672, 1-23-73, Cl. 297-306.000.
De Graaf, Jan G.: *See—*
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De Graaf, Wilhelmus Polycarpus; and Tielemans, Peter Andreas Waltherus, to U.S. Philips Corporation. Device for the consecutive ignition of combustion flash-light lamps. 3,726,631, 4-10-73, Cl. 431-95.000.
De Graaf, Wilhelmus Polycarpus; and Tielemans, Peter Andreas Waltherus, to U.S. Philips Corporation. Device for flashing combustion flash bulbs one after the other. 3,728,067, 4-17-73, Cl. 431-95.000.

De Graff, Peter H.; and Lee, James W., to National Cash Register Company, The. Self-interlocking keyboard. 3,750,796, 8-7-73, Cl. 197-107.000.
De Graffenreid, Howard T.; and May, Clifford H. Mandrel for winding thereon material. 3,759,459, 9-18-73, Cl. 242-72.100.
De Gramont, Arnaud Marie Jose; Maurin, Jean; and Weisang, Joseph Edouard, to Compagnie Francaise de Raffinage. Ortho dialkyl benzene preparation via dehydrocyclization process. 3,761,532, 9-25-73, Cl. 260-673.500.
De Gramont, Arnaud Marie-Jose; and Maurin, Jean, to Compagnie Francaise de Raffinage. Process of fractionating hydrocarbon mixtures containing olefins and its application to the purification of isoolefins. 3,717,572, 2-20-73, Cl. 208-310.000.
De Grazio, Robert P.; and Robinson, Herbert N., to United States of America, Atomic Energy Commission. Separation of plutonium and uranium from holder. 3,715,204, 2-6-73, Cl. 75-84.10r.
De Greef, Jan Antoon, to De Greef's Wagen-Carrosserie-en Machinebouw N.V. Apparatus for emptying a crate filled with fruit. 3,767,073, 10-23-73, Cl. 214-307.000.
De Greef's Wagen-Carrosserie-en Machinebouw N.V.: *See*—
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De Groff, Mark E.: *See*—
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De Groft, Walter J., to Sanford Research Company. Hinge structure. 3,710,419, 1-16-73, Cl. 16-171.000.
De Groft, Walter J., to Sanford Research Company. Apparatus for securing nib in plastic writing instrument. 3,776,673, 12-4-73, Cl. 425-125.000.
de Groot, Cornelis Nicolaas; Hobbs, John S.; and Tonsbeck, Christiaan Herman Theodoor, to Lever Brothers Company. Furanone meat flavor compositions. 3,709,697, 1-9-73, Cl. 99-107.000.
De Groot, Jacob: *See*—
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De Groot, Jacob, to U.S. Philips Corporation. Coil support. 3,735,307, 5-22-73, Cl. 336-192.000.
De Groot, John E.; and Fuerst, Bernard, to Benfur Manufacturing Company. Suspension structure of liner plates. 3,744,190, 7-10-73, Cl. 51-268.000.
de Groot, Robert, to N.V. Industrieele Handelscombinatie Holland. Device for discharging a hopper barge. 3,765,570, 10-16-73, Cl. 222-132.000.
De Groote, Raymond S., to United Aircraft Products, Inc. Water or like boiler. 3,734,168, 5-22-73, Cl. 165-11.000.
De Grott, Harold J.: *See*—
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De Gruyl, Johannes Albertus, to Cutler-Hammer, Inc. High isolation circulator arrangement for low noise reflection type amplifiers. 3,781,704, 12-25-73, Cl. 330-53.000.
De Gueldre, Jean Martha: *See*—
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de Haas, Frank; and Miller, Dean E. Falling breech block action for a single shot firearm. 3,735,517, 5-29-73, Cl. 42-23.000.
De Haes, Louis Maria; Gevers, Hugo Karel; and VanHeertum, Johannes Josephus, to Agfa-Gevaert N.V. Photographic material for the preparation of printing plates. 3,721,559, 3-20-73, Cl. 96-33.000.
De Haes, Louis Maria; Hofman, Emiel Alexander; and Gevers, Hugo Karel, to Agfa-Gevaert. Photographic material. 3,740,220, 6-19-73, Cl. 96-29.00r.
De Haes, Louis Maria, to Agfa-Gevaert N.V. Silver complex diffusion transfer process. 3,749,912, 7-31-73, Cl. 250-323.000.
De Harak, Rudolph, to Corchia de Harak, Inc. Inflatable art frame. 3,771,247, 11-13-73, Cl. 40-152.000.
De Hart, Guy K.; De Hart, Louis K.; and Clark, Ruel R., to Marking Systems, Inc., mesne. Stencil-cutting apparatus. 3,770,093, 11-6-73, Cl. 197-1.500.
De Hart, Louis K.: *See*—
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De Hoff, Edward J.; and Schenk, Donald E., to General Motors Corporation. Pressure proportioning control valve. 3,727,991, 4-17-73, Cl. 303-6.00c.
De Jager, Donald, to Eastman Kodak Company. Six element unit magnification lens. 3,737,215, 6-5-73, Cl. 350-215.000.
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De Jersey, David Charles, to De Jersey, C. L., & Sons Proprietary Limited. Production of waffles and like food products. 3,780,193, 12-18-73, Cl. 426-505.000.
De Jesus, Charles; Lane, William P.; and Wareham, Richard R., to Polaroid Corporation. Combination flare baffle and light seal for a reflex camera. 3,727,529, 4-17-73, Cl. 95-42.000.
De Jesus, Charles, to Polaroid Corporation. Non-bouncing hinged flare baffle. 3,774,517, 11-27-73, Cl. 95-42.000.
De Jong, Arie N., to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid, Handel en Verkeer. Device for composing an infrared image. 3,775,619, 11-27-73, Cl. 250-347.000.
De Jong, Hendrik Johannes: *See*—
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De Jong, Henricus Cornelis Johannes, to Heemaf N.V. Synchronous electric machine. 3,743,873, 7-3-73, Cl. 310-165.000.
De Jong, Maarten C., to Stanley Works, The. Snap-in vial retainers. 3,738,015, 6-12-73, Cl. 33-379.000.
De Jonge, Cornelis R. H. I.: *See*—
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De Jonge, Hendrik A. P.; and De Jonge, Cornelis R. H. I., to Akzo N.V. Polymerization of ethylenically unsaturated monomers with a 1,2-diaryl-1,2-dicyano-ethane. 3,726,837, 4-10-73, Cl. 260-77.5ua.
de Jonge, Martinus Catrinus. Grating comprising a plurality of grating parts. 3,762,124, 10-2-73, Cl. 52-666.000.
De Jongh, Job Harn; Maenhout, Johannes Josephus Aloisius Cornelus; and Osenbruggen, Cornelis Van, to U.S. Philips Corporation. Apparatus for removing material from an electrically conducting workpiece. 3,758,739, 9-11-73, Cl. 219-69.00g.
De Jongh, Rudi Theodoor; and Stickdorn, Helmut Oskar, to Bunker Ramo Corporation, The. Braking device for adjustment apparatus. 3,776,330, 12-4-73, Cl. 188-67.000.
De Jule, Michael C., to Zenith Radio Corporation. Image display panel. 3,749,972, 7-31-73, Cl. 315-169.0tv.
De Kinkelder, Petrus Johannes Alloysius. Flaring spray nozzle. 3,708,126, 1-2-73, Cl. 239-590.500.
De Kiss, Nicholas, to De Laval Turbine Inc. Reciprocatory fluid actuated motor having a rack and pinion piston locking mechanism. 3,757,650, 9-11-73, Cl. 92-25.000.
De Klerk, John, to Westinghouse Electric Corporation. Tapped praetersonic bulk delay linc. 3,769,615, 10-30-73, Cl. 333-30.000.
de Koe, Oscar Bernardus Philomenus Rikker; and Eggermont, Ludwig Desire Johan, to U.S. Philips Corporation. Information buffer for converting a received sequence of information characters. 3,729,717, 4-24-73, Cl. 340-172.500.
De Koe, Oscar Bernardus Philomenus Rikkert, to U.S. Philips Corporation. Asynchronous buffer device. 3,727,204, 4-10-73, Cl. 340-177.500.
De Koe, Oscar Bernardus Philomenus Rikkert; and Bijker, Arnold Jan, to U.S. Philips Corporation. Modular synchronous buffer unit for a buffer having a capacity depending on the number of interconnected identical buffer units. 3,745,535, 7-10-73, Cl. 340-17.500.
De Koning, Cornelis J., to Vissers, H., N.V. Spreader. 3,777,992, 12-11-73, Cl. 239-689.000.
De Koning, Jan, to N.V. Ingenieursbureau voor Systemen en Octrooien "Spanstaal". Suction dredging installation. 3,756,659, 9-4-73, Cl. 302-15.000.
De Koning, Jan, to N.V. Ingenieursbureau voor Systemen en Octrooien "Spanstaal". Method and suction dredging installation for conveying dredging spoil. 3,772,805, 11-20-73, Cl. 37-58.000.
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De La Celle, Guy Etienne. Tape recorder controlling device. 3,752,487, 8-14-73, Cl. 274-4.00a.
de la Garza, Jesus. Non-drip faucet valve. 3,765,643, 10-16-73, Cl. 251-38.000.
De La Graviere, Marcel: *See*—
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De La Mare, Harold, to Shell Oil Company. Process for hydrogenation of polar copolymers and complexed copolymer compositions. 3,766,300, 10-16-73, Cl. 260-879.000.
De La Mare, Harold E.; and Wilcoxen, Charles H., Jr., to Shell Oil Company. Preparation of polymers of increased average molecular weight from mono-lithium terminated block copolymers coupled with certain aryl monoesters. 3,766,301, 10-16-73, Cl. 260-879.00.
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de Laine, Robert James; and Geary, William Richard Clifford. Sprinkler irrigation systems. 3,730,211, 5-1-73, Cl. 137-344.000.
de LaJarte, Guy; and de Saint Palais, Jacques, to Entreprise de Recherches et d'Activites Petrolieres (Elf). Spoon for plugging cased petroleum production wells. 3,760,877, 9-25-73, Cl. 166-164.000.
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De Lavalette, Pierre de Lacroix; and Hein, Daniel, to SKF Compagnie d'Applications Mecaniques. Free wheel drive. 3,743,066, 7-3-73, Cl. 192-41.00a.
de Lavalette, Pierre de Lacroix, to Societe Anonyme dit: SKF Compagnie d'Applications Mecaniques. Method of electrolytically marking a metallic article. 3,748,239, 7-24-73, Cl. 204-129.400.
de Lavenne, Hubert; and Leger, Andre, to Automobiles Peugeot and Regie Nationale des Usines Renault. Window wiper in particular for a vehicle windscreen. 3,758,911, 9-18-73, Cl. 15-250.230.
De Lazzer, Karl-Heinz: *See*—
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De Loisy, Maurice, to Etablissements Torrix. Pressure-operated tape switch. 3,751,615, 8-7-73, Cl. 200-86.000.
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De Longueville, Jacques Charles; Perfetti, Jacques Felix Charles; and Kessler, Ernst Jakob, to Etat Francais represente par le Ministre d'Etat Charge de la Defense Nationale. Undersized-caliber projectile with detachable sabot. 3,780,658, 12-25-73, Cl. 10252.000.
De Lord, Ernest P., to Cleats Mfg. Inc. Corner device for duct joints. 3,754,782, 8-28-73, Cl. 285-424.000.
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De Luca, Hector F., to Wisconsin Alumni Research Foundation. 24,25-Dihydro xycholecalciferol. 3,715,374, 2-6-73, Cl. 260-397.200.
De Luca, Paul V., to Porta Systems Corporation. Manually actuable solenoid operated switch apparatus. 3,772,621, 11-13-73, Cl. 335-186.000.
De Luca, Raymond F., to Georgia-Pacific Corporation. Disposable diapers with adhesive fastening tapes. 3,750,669, 8-7-73, Cl. 128-287.000.
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De Lucia, John R. Combination flashlight and propellant discharge device. 3,776,429, 12-4-73, Cl. 222-162.000.
De Majistre, Robert; Parker, Gordon M.; and Sirkoch, Robert, to PPG Industries, Inc. Phosphate esters and their use as adhesive promoters. 3,754,972, 8-28-73, Cl. 117-72.000.
De Man, Heiko, to Velo-Bind, Inc. Tool for cutting and heading plastic studs. 3,763,538, 10-9-73, Cl. 29-200.00b.
De Mania, Dominio; Shartrand, Allan C.; and Barton, Sterling C., to General Electric Company. Gas cooled dynamoelectric machine. 3,714,478, 1-30-73, Cl. 310-55.000.
De Marco, John Gregory, to American Cyanamid Company. Process for methoxyethyl carbamate. 3,725,464, 4-3-73, Cl. 260-482.00c.
De Marco, Joseph V.: *See*—
Jett, Howard V.; and De Marco, Joseph V., 3,779,465.
De Marco, Robert D.; and Tucker, Harold A., to Goodrich, B. F., Company, The. Acrylic ester vinylbenzyl chloride elastomers. 3,763,119, 10-2-73, Cl. 260-80.760.
De Marco, Salvador S.; and Harper, Ernest A., to Phillips Petroleum Company. Liquefaction and purification system. 3,719,053, 3-6-73, Cl. 62-38.000.
De Marco, Thomas M.: *See*—
Dupre, George T.; and De Marco, Thomas M., 3,767,168.
De Marco, Vincent J. Multichannel transmission line structure. 3,757,253, 9-4-73, Cl. 333-1.000.
De Mars, Alfred J. Hydraulic vehicle stabilizer. 3,717,355, 2-20-73, Cl. 280-124.00f.
De Marsico, Henry J.; Strugar, Daniel; and Wu, Dao-Tsing, to Du Pont de Nemours, E. I., and Company. Acrylic polymer modified polyvinyl fluoride coating compositions. 3,779,976, 12-18-73, Cl. 260-32.80r.
De Mathe, Leslie L., to Adler, Stanley J. Drafting instrument. 3,726,017, 4-10-73, Cl. 33-109.000.
De Mauriac, Richard Arthur; and Gaugh, Wilbur Seth, to Eastman Kodak Company. Photothermographic element. 3,761,279, 9-25-73, Cl. 96-114.100.
de Mecquenem, Robert. Clamp with resilient gripping unit for use with overhead conductor spacers and a spacer including the same. 3,716,650, 2-13-73, Cl. 174-42.000.
De Mesquita, Albert Hijman Gomes; and Bril, Alfred, to U.S. Philips Corporation. Cathode-ray tube containing cerium activated yttrium silicate phosphor. 3,715,611, 2-6-73, Cl. 313-92.0ph.
de Mestral, George: *See*—
de Mestral, Henri; Decosterd, Albert; Calame, Guy; and de Mestral, George, 3,720,055.
De Mestral, George, to Velcro S.A. Adhesive element in cloth form. 3,748,701, 7-31-73, Cl. 24-204.000.
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de Meux, Patrick de Laage, to Lignes Telegraphiques et Telephoniques. Communication system using binary to multi-level and multi-level to binary coded pulse conversion. 3,754,237, 8-21-73, Cl. 340-347.0dd.
De Michiel, John: *See*—
Albrecht, Francis E.; Baxter, William D.; De Michiel, John; Duggan, Robert J.; Greenblum, Carl; Grosky, Stephen A.; and Langer, Arthur, 3,742,288.
De Milt, Kenneth E.; Collins, Stephen; and Scholer, Henry Gardner, to Mil-Pac Systems, Inc. Shredder-compactor. 3,760,717, 9-25-73, Cl. 100-98.00r.
De Mino, Angelo. Fishing rod holder. 3,777,389, 12-11-73, Cl. 43-15.000.
De Monet, George Nomine. Process and apparatus especially for commercial translations and the resultant product. 3,744,155, 7-10-73, Cl. 35-35.00r.
De Montigny, Armand: *See*—
Moller, Friedrich; Roegler, Manfred; Simmler, Walter; and De Montigny, Armand, 3,723,492.
de Montigny, Raimbault M.A.T.; Liebergott, Norman; and Pounds, Derrick P.W., to Pulp and Paper Research Institute of Canada. Process and apparatus for the chemical reaction between a gas and a wood pulp. 3,725,193, 4-3-73, Cl. 162-17.000.
De Montmollin, Rene: *See*—
Buehler, Arthur; and De Montmollin, Rene, 3,717,624.

De Munck, Joseph Louis: *See—*
Vandenabeele, Hubert; De Munck, Joseph Louis; Thiers, Robrecht Julius; Pollet, Robert Joseph; Florens, Raymond Leopold; and Willems, Jozef Frans, 3,732,104.

De Murgiondo, Jose H. Gun cleaning device. 3,710,411, 1-16-73, Cl. 15-104.160.

De Napoli, Robert A.: *See—*
Blinoff, William, Jr.; De Napoli, Robert A.; and Hart, Richard, 3,752,155.

De Neefe, John H.; Pistel, Conrad; and Schwarzbeck, John G., to Western Gear Corporation. Rapid retracting torque activated drive roller unit for conveyor systems. 3,737,022, 6-5-73, Cl. 198-127.00r.

De Nevlu, Lawrence W.: *See—*
De Nevlu, Lawrence W.; and Connet, Bennet H., 3,746,377.

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De Nicola, Frank; and Vallender, Edward, to Berrybart, Inc. Method and apparatus for automatically stapling tape. 3,771,708, 11-13-73, Cl. 227-111.000.

De Nicolay, Giuliano: *See—*
Delfrate, Egidio Alvazzi; and De Nicolay, Giuliano, 3,748,602.

De Nobel, Dirk: *See—*
Kock, Hendrikus Gerardus; De Nobel, Dirk; and Tijburg, Rudolf Paulus, 3,767,482.

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de Nora, Vittorio; and Trisoglio, Giovanni, to Electronor Corporation. Baffles for dimensionally stable metal anodes and methods of using same. 3,725,223, 4-3-73, Cl. 204-99.000.

De Nova, Roberto, to Duplomatic S.p.A. Tracer valves for copying machines. 3,770,238, 11-6-73, Cl. 251-3.000.

De Noyer, Donald B., to Allis-Chalmers Corporation. Nozzle adjusting arrangement for a papermaking machine headbox. 3,738,910, 6-12-73, Cl. 162-347.000.

De Orazio, William R.: *See—*
Belady, Laszlo A.; De Orazio, William R.; and O'Neill, Robert W., 3,771,144.

De Packh, David C., to United States of America, Navy. System and method for accelerating charged particles utilizing pulsed hollow beam electrons. 3,719,893, 3-6-73, Cl. 328-233.000.

De Paepe, James Richard: *See—*
Griffith, William J.; and De Paepe, James Richard, 3,770,196.

De Palma, Ted V.; and Perga, Martin W., to Universal Oil Products Company. Method and means for catalytically treating engine exhaust gases. 3,729,936, 5-1-73, Cl. 60-274.000.

De Palmo, Charles D.: *See—*
Sieg, Richard A.; and De Palmo, Charles D., 3,771,413.

De Pasquale, Ralph J., to Shell Oil Company. Preparation of alkylene carbonates by reaction of alkylene oxides with carbon dioxide. 3,748,345, 7-24-73, Cl. 260-340.200.

De Pass, Ernest T.: *See—*
Clark, Kenneth G.; Cook, Thomas J.; De Pass, Ernest T.; and Manfredonia, Abraham, 3,713,954.
Clark, Kenneth G.; De Pass, Ernest T.; Manfredonia, Abraham J.; and Reiter, Eugene A., 3,776,109.

De Pauw, Alfons Josef; and Carpentier, Jan Albert, to Gevaert-Agfa N.V. Method of incorporating ingredients in hydrophilic colloids. 3,752,672, 8-14-73, Cl. 96-100.000.

De Penti, Kenneth L., to Midland-Ross Corporation. Car coupler. 3,717,261, 2-20-73, Cl. 213-110.000.

De Penti, Kenneth Louis, to Midland-Ross Corporation. Coupler carrier arrangement. 3,753,503, 8-21-73, Cl. 213-61.000.

De Pietro, Anthony: *See—*
Smith, Bernard; and De Pietro, Anthony, 3,764,033.

De Priest, Thomas Y.: *See—*
Whiteside, Grady O.; and De Priest, Thomas Y., 3,708,855.

De Priester, Donald Jack; Horney, David C.; and Mangels, Robert H., to Hon Industries Inc. Power driven material handling truck. 3,722,613, 3-27-73, Cl. 180-52.000.

de Putter, Warner Jan, to Industriele Onderneming Wavin N.V. Apparatus for deforming a plastic pipe. 3,728,059, 4-17-73, Cl. 425-155.000.

De Puy, Robert P., to General Electric Company. Digital regulator and method of current regulation. 3,725,769, 4-3-73, Cl. 321-14.000.

De Puy, Robert P., to General Electric Company. Direct current measuring system. 3,739,274, 6-12-73, Cl. 324-120.000.

De Puy, Seymour M.; Folsom, William J.; and Bittner, John R., to General Electric Company. Rebound motion controlling apparatus. 3,766,852, 10-23-73, Cl. 101-93.00c.

De Radzitzky D'Ostrowick; Hanotier, Jacques D. V.; and Vaerman, Joseph M. E., to Labofina, Soc. An. Process for the oxidation of paraffins. 3,758,557, 9-11-73, Cl. 260-488.00f.

de Radzitzky d'Ostrowick, Pierre Marie Joseph Ghislain: *See—*
Vanderlinden, Andre Jacques Emile; and de Radzitzky d'Ostrowick, Pierre Marie Joseph Ghislain, 3,720,707.

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De Ramis, Angelika Zankl: *See—*
Arlt, Dieter; Bertram, Hans-Herwig; Pedain, Josef; Zankl, Erich; Zankl, Walter; and De Ramis, Angelika Zankl, 3,752,793.

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Mimoun, Hubert; De Roch, Irenee Seree; Sajus, Lucien; and Menguy, Pierre, 3,766,232.

De Roissart, Henri; and Johannes, Conrad, to L'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Methods of preparing extracts from vegetable products. 3,765,904, 10-16-73, Cl. 426-384.000.

De Roissart, Henry, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Apparatus for the preservation of animal or human organs in living condition. 3,772,153, 11-13-73, Cl. 195-127.000.

De Rome, Eugene J.; and Hengst, Carl J. Post pulling apparatus. 3,762,687, 10-2-73, Cl. 254-30.000.

de Roocker, Alain Joseph Guillaume: *See—*
de Radzitzky d'Ostrowick, Pierre Marie Joseph Ghislain; and de Roocker, Alain Joseph Guillaume, 3,714,215.

De Rooij, Abraham H.: *See—*
Elmendorp, Jan; and De Rooij, Abraham H., 3,729,304.

De Rooij, Abraham H.; and Aggenbach, Pierre A. M., to Stamicarbon N.V. Process for the continuous preparation of an aqueous solution of a hydroxylammonium salt. 3,720,758, 3-13-73, Cl. 423-388.000.

De Rossi, Mario, to Consiglio Nazionale delle Ricerche. Storage batteries containing zinc halide in an aqueous solution of the type having a soluble cathode and a dissolved anode. 3,738,870, 6-12-73, Cl. 136-22.000.

De Rossi, Mario, to Consiglio Nazionale Delle Ricerche. Reversible cell having a solid electrolyte and a silver anode. 3,749,606, 7-31-73, Cl. 136-83.00r.

De Rouen, Joseph R.; Baldwin, Kenneth B.; and Martin, Henry F., to Bourns, Inc. Method of making rotatable element potentiometer. 3,729,817, 5-1-73, Cl. 29-610.000.

De Rugeris, John. Electromechanical energy conversion device. 3,728,564, 4-17-73, Cl. 310-168.000.

De Ruiter, Dirk Cornelis: *See—*
Ebbinge, Willem; and De Ruiter, Dirk Cornelis, 3,764,822.

De Ruiter, Ernest H.: *See—*
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De Ruiter, Ernest H.; and Heimlinger, Hans K., to Mallinckrodt Chemical Works, mesne. Selective hydrogenation of tri- and tetrazoloisoquinolines. 3,775,417, 11-27-73, Cl. 260-288.00r.

de Saint Palais, Jacques: *See—*
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de Saint Sauveur, Xavier: *See—*
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De Salva, Salvatore Joseph; and Costello, Christopher H., to Colgate-Palmolive Company. Inhibition of perspiration. 3,775,538, 11-27-73, Cl. 424-65.000.

De Santis, Alfred John: *See—*
Beers, Leroy Walter; and De Santis, Alfred John, 3,735,363.

De Santis, Bentio. Paint gun cleaner. 3,771,539, 11-13-73, Cl. 134-111.000.

de Santis, Charles M.: *See—*
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De Santis, G. William, to Essex Chemical Corporation. Polyurethane sealant-primer system. 3,779,794, 12-18-73, Cl. 117-72.000.

De Santis, Italo J.: *See—*
Bannister, John D.; Coller, Frederick L.; and De Santis, Italo J., 3,759,667.

De Santis, Michael J.: *See—*
Galowin, Lawrence S.; De Santis, Michael J.; and Miller, Cary, 3,709,041.

De Santis, Michael J.; Page, Robert H.; and Rakowsky, Edward L., to Singer Company, The, mesne. Electro-fluidic signal converter. 3,721,257, 3-20-73, Cl. 137-828.000.

De Santis, Raymond P.: *See—*
De Troyer, Georges D.; and De Santis, Raymond P., 3,726,622.

De Santis, Urbano J.; and Snyder, Herbert C., to Brockway Glass Company, Inc. Method and apparatus for fluorine surface treatment of glass articles. 3,709,672, 1-9-73, Cl. 65-30.000.

De Schrijver, Frans Carolus; and Leenders, Luc, to Agfa-Gevaert N.V. Photocycloaddition polymerisation of bis-coumarins. 3,729,405, 4-24-73, Cl. 204-159.230.

De Selms, Roy C., to Chevron Research Company. Dialkylphosphorylbicyclo[n.2.0] alkanes. 3,769,377, 10-30-73, Cl. 260-958.000.

De Seversky, Alexander P., to Electronatom Corporation. Wet electrostatic precipitator. 3,716,966, 2-20-73, Cl. 55-118.000.

De Seversky, Alexander P., to Seversky Electronatom Corporation. Liquid distributors for wet electrostatic precipitators. 3,742,681, 7-3-73, Cl. 55-119.000.





De Shazo, Earl L., Jr., to Phillips Petroleum Company. Signal generating and recording apparatus with time delay. 3,747,060, 7-17-73, Cl. 340-18.00p.

De Shazor, James C. Pipe cutting and forming tool. 3,748,933, 7-31-73, Cl. 82-4.00c.

De Shazor, James C. Article handling and packaging machine. 3,777,450, 12-11-73, Cl. 53-138.00r.

De Simone, David N.; and Catroppa, Frank A., to United States of America, Navy. Dual visor headgear. 3,721,994, 3-27-73, Cl. 2-6.000.

De Simone, Renato; Beranger, Alessandro; and Scaramucci, Antonietta, to Snam Progetti S.p.A. Method for inhibiting the polymerization of conjugated dienes. 3,775,493, 11-27-73, Cl. 260-666.500.

De Simone, Robert S.: *See—*
Grossman, James D.; Mookherjee, Braja D.; De Simone, Robert S.; and Theimer, Ernst T., 3,748,284.

De Sio, Frederick Carl, to AMP Incorporated. Self-actuating load-break connector. 3,720,904, 3-13-73, Cl. 339-34.000.

De Sio, Frederick Carl; and Werner, Walter Myers, to AMP Incorporated. Method and connector having conductive elastomeric material encircled by a continuous layer of insulation in intimate contact therewith. 3,761,602, 9-25-73, Cl. 174-73.0sc.

De Sipio, Richard G.; Long, Thomas F.; and Beyer, Henry R., to United States of America, Navy. Pulse stream noise discriminator. 3,727,142, 4-10-73, Cl. 328-111.000.

De Sisto, Richard E.: *See—*
Finberg, Raymond H.; Edelson, Robert B.; and De Sisto, Richard E., 3,733,640.

De Sloovere, Bernard G., to General Motors Corporation. Gearshift mechanism. 3,766,799, 10-23-73, Cl. 74-473.00a.

De Smedt, Felix Frederik: *See—*
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De Smit, Phillip A., to Unifab Corporation. Animal cage with portable container. 3,747,567, 7-24-73, Cl. 119-17.000.

De Sorbo, Warren: *See—*
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De Soto, Inc.: *See—*
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De Souza, David: *See—*
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De Spautz, Joseph F.: *See—*
O'Hagan, Robert M.; De Spautz, Joseph F.; Carroll, James E., Jr.; and Sorensen, Richard H., 3,737,902.

De Staat der Nederlanden, Ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie: *See—*
Hendriks, Hendrik Adrianus, 3,708,628.
Kraaijenbrink, Hans, 3,719,774.

De Stefano, Albert F., Jr., to Crown Cork & Seal Company, Inc. Dual spray and recirculation system. 3,734,407, 5-22-73, Cl. 239-13.000.

De Stefano, Richard J.: *See—*
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De Stevens, George: *See—*
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De, Takanori: *See—*
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De Tartaglia, Peter, to Motoren- und Turbinen-Union Munchen GmbH. Air inlet arrangement for gas turbine engine combustion chamber. 3,751,911, 8-14-73, Cl. 60-39.650.

De Thomas, Waldo R.: *See—*
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De Toma, Samuel M., to Eduj Corporation. Intermittent gearing arrangement. 3,739,654, 6-19-73, Cl. 74-461.000.

De Tommaso, Gabriel L.: *See—*
Scott, Joseph David; and De Tommaso, Gabriel L., 3,736,286.

De Torre, Robert P., to PPG Industries, Inc. Method of removing trim from patterns. 3,756,482, 9-4-73, Cl. 225-2.000.

De Treitas, Elias Martins, to Industria Termica Brasileira S/A. Dispensing closure for a container. 3,776,433, 12-4-73, Cl. 222-519.000.

De Troeyer, Karel Frans, to Gevaert-Agfa N.V. Transport device for photographic development apparatus. 3,731,656, 5-8-73, Cl. 118-637.000.

De Troyer, Georges D.: *See—*
Smith, Joseph E.; and De Troyer, Georges D., 3,742,773.

De Troyer, Georges D., to Wolverine-Pentronix, Inc. Fluid power eject mechanism for a powder compacting press and method of compacting. 3,715,796, 2-13-73, Cl. 29-420.000.

De Troyer, Georges D.; and De Santis, Raymond P., to Wolverine-Pentronix, Inc. Compacting apparatus. 3,726,622, 4-10-73, Cl. 425-78.000.

De Troyler, Georges D.: *See—*
Smith, Joseph E.; and De Troyler, Georges D., 3,730,659.

De Vale, Donald P., to Halogen Controls, Inc. Apparatus for monitoring and controlling halogen levels in a water treatment system. 3,724,474, 4-3-73, Cl. 137-5.000.

de Varda, Giuseppe: *See—*
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de Varda, Giuseppe, 70% to Montecatini Edison S.p.A. and 30% to said de Varda, Giuseppe. Multicell furnaces for the production of aluminum by electrolysis. 3,730,859, 5-1-73, Cl. 204-67.000.

De Vault, Robert Larry, to Abbott Laboratories. 2-Benzyl-1,4-dimethyl-5-hydroxymethyl-2, 5-epidithiapiperazine-3,6-dione and 2-benzyl-1, 4-dimethyl-5-hydroxymethyl-2,5-epitrithiapiperazine-3,6-dione useful as anti-fungal agents. 3,715,352, 2-6-73, Cl. 260-43.00r.

De Vaulx, Joseph: *See—*
Koelbel, Robert; De Vaulx, Joseph; Gillet, Roger; and Lchuen, Christian, 3,739,212.

De Vellis, Salvatore V., to Raytheon Company. Antenna support and stowage system. 3,747,113, 7-17-73, Cl. 343-766.000.

De Vera, Serge: *See—*
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De Verteuil, George F.: *See—*
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de Vinck, Luc Gaston, to Villeroy & Boch Keramische Werke KG. Apparatus for joining wall tiles. 3,720,490, 3-13-73, Cl. 425-3.000.

De Viney, Terrence E., to Square D Company. Magnet controller. 3,723,825, 3-27-73, Cl. 317-123.000.

De Vinney, George L. Apparatus and method for dyeing textile strand materials. 3,775,054, 11-27-73, Cl. 8-149.000.

De Visscher, Patrick M. Joining of containers. 3,777,771, 12-11-73, Cl. 137-1.000.

De Vittorio, Joseph M., to Sherwin-Williams Company, The. Determination of non-volatile components in a liquid. 3,726,126, 4-10-73, Cl. 73-15.00r.

De Vittorio, Joseph M., to Sherwin-Williams Company, The. Process of controlling paint baths in electrodeposition. 3,764,505, 10-9-73, Cl. 204-181.000.

De Vitz, William R., to Structural Foam Products, Inc. Apparatus for molding foamed thermoplastic articles. 3,746,492, 7-17-73, Cl. 425-242.000.

De Vivy, Dominque Le Febve, to Sulzer Brothers Limited. Method of controlling the feed of forced circulation steam generators. 3,780,705, 12-25-73, Cl. 122-451.00r.

de Vleesschauwer, Walter Ferdinand, to S.A. Texaco Belgium N.V. Method and apparatus for measurement of minute quantities of oxygen. 3,752,652, 8-14-73, Cl. 23-232.00e.

De Vogelaere, George E. Portable target to receive contain, and preven splashback of medium velocity projectiles. 3,720,411, 3-13-73, Cl. 273-102.400.

De Vos, Ferdinand Allard; and Ter Steege, Jan Hendrik, to Werkspoor-Amsterdam, N.V. Apparatus for the preparation of screen printing forms with an adjustable relation between grey values of the pattern and grey values of the printing forms. 3,729,584, 4-2473, Cl. 178-6.60b.

De Vos, Ferdinand Allard; and Ter Steege, Jan Hendrik, to N.V. Werkspoor-Amsterdam. Method and apparatus for making half-tone screen printing cylinders. 3,769,455, 10-30-73, Cl. 178-6.60r.

De Vos, Ferdinand Allard; and Ter Steege, Jan Hendrik, to N.V. Werkspoor-Amsterdam. Method and apparatus for controlling the engraving pattern of an electromagnetic gravure engraving. 3,770,888, 11-6-73, Cl. 178-6.60b.

De Vos, Maarten, to Fokker-V.F.W. N.V. Duct and electrical connector assembly. 3,745,229, 7-10-73, Cl. 174-101.000.

De Voss, Edwin A., to Northrop Corporation. Backup wedge device for a fastener installing machine. 3,773,238, 11-20-73, Cl. 227-61.000.

De Vries, Adrian J.: *See—*
Adler, Robert; De Vries, Adrian J.; and Dias, Fleming, 3,714,594.

De Vries, Adrian J., to Zenith Radio Corporation. Acoustic surface wave filter. 3,753,164, 8-14-73, Cl. 333-30.00r.

De Vries, Charles V. Trailer positioning and maneuvering apparatus. 3,767,230, 10-23-73, Cl. 280-477.000.

De Vries, Douwe: *See—*
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De Vries, Gerrit: *See—*
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De Vries, Hans, to Zellweger AG. Method and apparatus for forming certain pulse sequences. 3,772,659, 11-13-73, Cl. 340-173.0sp.

De Vries, Harry Rimmer: *See—*
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De Vries, Jaap: *See—*
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De Vries, James H., to Sarns, Inc. Method and apparatus for automatic pertitioneal dialysis. 3,709,222, 1-9-73, Cl. 128-213.000.

De Vries, James H., to Sarns, Inc. Peristaltic pump construction. 3,737,256, 6-5-73, Cl. 417-477.000.

De Vries, James H., to Sarns, Inc. Roller control for a peristaltic pump construction. 3,737,257, 6-5-73, Cl. 417-477.000.

De Vries, James H., to Sarns, Inc. Peristaltic pump construction. 3,762,836, 10-2-73, Cl. 417-238.000.
De Vries, Louis: *See—*
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De Vries, Louis, to Chevron Research Company. Lubricant containing an alkali metal ketone salt and acrylonitrile. 3,723,501, 3-27-73, Cl. 260-465.900.
De Vries, Louis, to Chevron Research Company. Lubricating Oil additives. 3,749,695, 7-31-73, Cl. 252-47.500.
De Vries, Louis, to Chevron Research Company. Carbodiimides from olefins cyanamide and tert-butyl hyprochlorite. 3,769,344, 10-30-73, Cl. 260-566.00r.
De Vries, Marcus, to N.V. Leeuwarder Papierwarenfabriek. Title molded trays with means to prevent jamming. 3,720,344, 3-13-73, Cl. 217-26.500.
De Vries, Menno, to Stamicarbon N.V. Process for the preparation of a dialkyl magnesium compound. 3,737,393, 6-5-73, Cl. 252-431.00r.
De Vries, Robert. Transport means or vehicle, or a fluid bed. 3,734,231, 5-22-73, Cl. 180-125.000.
De Vries, Robert. Container for ice cream. 3,752,364, 8-14-73, Cl. 222-131.000.
De Vries, Robert C.: *See—*
Borom, Marcus P.; and De Vries, Robert C., 3,781,522.
De Vries, Robert C.; and Fleischer, James F., to General Electric Company. Thermistors. 3,766,511, 10-16-73, Cl. 338-22.000.
De Vries, Robert C.; and Fleischer, James F., to General Electric Company. Continuous growth of cubic boron nitride. 3,772,428, 11-12-73, Cl. 423-290.000.
De Vries, Robert Wopke, to Wolverine Brass Works; a division of Wolverine Industries, Inc. Non-metallic cartridge valve. 3,780,758, 12-25-73, Cl. 137-454.600.
De Vrieze, Jerry D.: *See—*
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De Vrijer, Bertus: *See—*
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De Waal, Jan Arie Gerrit: *See—*
Van Steenbergen, Teunis Willem; and De Waal, Jan Arie Gerrit, 3,777,228.
De Wachter, Anna Maria: *See—*
Van Kamp, Harmen; and De Wachter, Anna Maria, 3,759,960.
De Wall, Richard A. Perfusion safety valve. 3,717,174, 2-20-73, Cl. 137-565.000.
De Wane, Gerald: *See—*
Langmead, Edmund Clarence; and De Wane, Gerald, 3,713,638.
De Weoskin, Irvin S., to Orthoband Company, Inc. Orthodontic tensioning assembly. 3,772,789, 11-20-73, Cl. 32-14.00d.
De Werdt, Reinier, to U.S. Philips Corporation. Etching method employing an etching mask while suppressing underetching. 3,721,592, 3-20-73, Cl. 156-11.000.
De Wiant Corporation, mesne: *See—*
Kubick, Richard J., 3,721,534.
Pepino, George T.; and Priceman, Seymour, 3,747,207.
De Wied, David, to Akzona Incorporated, mesne. Psychopharmacological preparation. 3,743,726, 7-3-73, Cl. 424-177.000.
De Winter, Frank G. V.: *See—*
Estes, Timothy K.; De Winter, Frank G. V.; Doss, John L.; and Higgins, James J., 3,708,929.
De Wit, Willem; and Hendricks, Petrus F.A.M., to Stamicarbon N.V. Apparatus for coating granules with a thin dense layer. 3,716,020, 2-13-73, Cl. 118-303.000.
De Witt, David, to International Business Machines Corporation. Double epitaxial method of fabricating a pedestal transistor. 3,709,746, 1-9-73, Cl. 148-175.000.
De Witt, David A.: *See—*
De Witt, Ralph W.; and De Witt, David A., 3,749,480.
De Witt, Kenneth I., to Sonex, Inc. Band-pass filter. 3,727,147, 4-10-73, Cl. 330-84.000.
De Witt, Ralph W.; and De Witt, David A. Mirror rotation correction system. 3,749,480, 7-31-73, Cl. 350-289.000.
De Witt, Robert G.: *See—*
Nelson, Maynard E.; and De Witt, Robert G., 3,762,090.
De Witt, Stewart H., to Westinghouse Electric Corporation. Hollow turbine rotor assembly. 3,741,681, 6-26-73, Cl. 416-95.000.
De Wolf, Nicholas; and Turner, John G., to Feradyne, Inc. Method and apparatus for testing a digital logic FET by monitoring currents the device develops an response to input signals. 3,772,595, 11-13-73, Cl. 324-73.00r.
De Woskin, Irwin S., to Orthoband Company, Inc. Orthodontic traction apparatus and method. 3,765,093, 10-16-73, Cl. 32-14.00d.
De Young, Simon Arden, to Karg Machine Products, Inc. Spool holder drive mechanism. 3,756,117, 9-4-73, Cl. 87-29.000.
De Young, Simon Arden, to Karg Machine Products, Inc. Spool cop holding mechanism. 3,756,523, 9-4-73, Cl. 242-46.600.
De Zeeuw, Jan Willem: *See—*
Van Best, Jasper Anton; Avenarius, Ernst Frederik; and De Zeeuw, Jan Willem, 3,746,930.
De Zeeuw, John R.; and Tynan, Edward J., III, to Pfizer Inc. Fermentation process for the production of D-mannitol. 3,736,229, 5-29-73, Cl. 195-28.00r.
D.E.A. Digital Electronic Automation S.p.A.: *See—*
Sartorio, Franco, 3,771,230.
DEA Products, Inc.: *See—*
Meek, James L.; and Vicane, Enrico L., 3,775,202.
Deacon, Martin John; and Kindleysides, Leslie, to Lever Brothers Company. Method of making a collagen-coated sausage. 3,767,821, 10-23-73, Cl. 426-276.000.
Deakin, Stanley Thomas, to Sealectro Limited. Electrical jack plugs. 3,716,820, 2-13-73, Cl. 339-147.00p.
Deal, Samuel Broughton, to RCA Corporation. Cathode-ray-tube-yoke combination with at least two spaced bodies of organic thermoplastic material therebetween and a method of making said combination. 3,764,740, 10-9-73, Cl. 178-7.800.
Dealy, John F.; and York, Michael W., to Fairchild Industries, Inc. Firearm having a carrying handle and associated rear sight. 3,742,636, 7-3-73, Cl. 42-1.00s.
Dealy, Robert J. Athletic device. 3,766,538, 10-16-73, Cl. 340-279.000.
Dean, Abner. Building corner assembly. 3,728,834, 4-24-73, Cl. 52-282.000.
Dean Brothers Pumps Inc.: *See—*
Streeter, Bert, 3,712,329.
Dean, Carl J.: *See—*
Wright, David M.; and Dean, Carl J., 3,751,129.
Dean, Carl J.; and Wright, David M., to Wright, Barry, Corporation. Portable forms support. 3,746,296, 7-17-73, Cl. 248-441.000.
Dean, Charles W. Means for storing aircraft. 3,756,419, 9-4-73, Cl. 211-13.000.
Dean, Clarence T., III, 20% to Lee, Raymond, Organization, Inc., The. Decorative lights. 3,767,903, 10-23-73, Cl. 240-10.00r.
Dean, Donald G.: *See—*
Pansky, Emil J.; and Dean, Donald G., 3,779,610.
Dean, Donald N.: *See—*
Mahoney, Robert J.; Dean, Donald N.; and Uzuanis, Joseph, Jr., 3,718,296.
Dean Foods Company: *See—*
Conley, Thomas F.; and Muck, George A., 3,744,209.
Dean, Frank J., Jr.; and Reese, James A., to Tempmaster Corporation. Acoustical insulated fan and temperature conditioning penthouse unit. 3,748,997, 7-31-73, Cl. 98-33.000.
Dean, Frank J., Jr., to Tempmaster Corporation. T-bar mounted air diffuser. 3,757,668, 9-11-73, Cl. 98-40.00d.
Dean, Frank J., Jr., to Tempmaster Corporation. Delayed action dampers for air terminal units. 3,768,729, 10-30-73, Cl. 236-13.000.
Dean, Frank James, Jr., to Tempmaster Corporation. Temperature control terminal unit. 3,734,192, 5-22-73, Cl. 165-39.000.
Dean, George A.: *See—*
Miller, Alfred H.; and Dean, George A., 3,774,783.
Dean, George A., to Dean Research Corporation. Material handling system. 3,747,784, 7-24-73, Cl. 214-152.000.
Dean, Guy, to Commissariat a l'Energie Atomique. Method of manufacture of sintered hypostolthiometric oxides. 3,764,551, 10-9-73, Cl. 252-301.10r.
Dean, Harold F., to Clark Equipment Company. Dual steering system. 3,730,288, 5-1-73, Cl. 180-79.20r.
Dean, James T., III, to Global Marine Inc. 360° rotary anchoring system with differential drive capability. 3,774,562, 11-27-73, Cl. 114-.50d.
Dean, Jesse W. Multi-unit bag construction. 3,726,329, 4-10-73, Cl. 150-28.00r.
Dean, Jimmie L., to Phillips Petroleum Company. Grasping parison preform at right angle to mold parting line. 3,758,254, 9-11-73, Cl. 425-387.00b.
Dean, John J.: *See—*
Haydon, Arthur W.; and Dean, John J., 3,770,998.
Dean, John Richard, to International Telephone and Telegraph Corporation. Power-pad unit for luminaires. 3,761,781, 9-25-73, Cl. 317-120.000.
Dean, John William, to General Electric Company. Multiple sequence block copolymers of silicones and styrene. 3,760,030, 9-18-73, Cl. 260-827.000.
Dean, Joseph E.: *See—*
Cole, David B.; and Dean, Joseph E., 3,774,345.
Dean, Raymond Ernest: *See—*
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Dean, Robert Earl; Feldman, Martin; Griffin, Jack Page; and Warner, Arthur Woodward, Jr., to Bell Telephone Laboratories, Incorporated. Reentrant acousto-optic light modulators and deflectors. 3,764,196, 10-9-73, Cl. 350-161.000.
Dean, Sheldon W., Jr.: *See—*
Michelson, Christian E.; and Dean, Sheldon W., Jr., 3,773,579.



Dean, Warren E.; and Dorsett, Charles M., to PPG Industries, Inc. Process for the recovery of mercury from aqueous solution. 3,749,761, 7r31-73, Cl. 423-562.000.
Dean, Weibley J.: *See—*
Ragard, Phillip A.; Zemek, Albert W.; Dean, Weibley J.; and Holmes, Robert H., 3,727,284.
Dean, William Bruce, to Johnson & Johnson. Privacy cubicle curtain cloth. 3,716,446, 2-13-73, Cl. 161-91.000.
Deane, Robert C.: *See—*
Gilboy, Joseph J.; Deane, Robert C.; Kirtley, Paul R.; and Jenkins, William C., 3,748,444.
Deane, William Harry; and Crompton, Geoffrey, to Matburn (Holdings) Limited. Hospital lockers. 3,717,398, 2-20-73, Cl. 312-283.000.
Deane, William Ronald, 30% to Bishop, Harold A., 15% to Curran, Peter J. and 25% to Sinclair, Matthew P. Rotary valve. 3,730,161, 5-1-73, Cl. 123-190.00d.
Deangelis, George G., to Preferred Utilities Manufacturing Corporation. Burning apparatus and method. 3,766,867, 10-23-73, Cl. 110-8.00r.
DeAngelis, Willie G., to PPG Industries, Inc. Handling glass-plastic assemblies. 3,781,003, 12-25-73, Cl. 269-40.000.
Deans, David Robert, to Imperial Chemical Industries Limited. Gas flow switching method and apparatus. 3,712,028, 1-23-73, Cl. 55-67.000.
Deans, David Robert, to Imperial Chemical Industries Limited. Gas chromatography. 3,778,975, 12-18-73, Cl. 55-197.000.
Dear, Robert E. A.: *See—*
Oxenrider, Bryce C.; Woolf, Cyril; Dear, Robert E. A.; and Beyleveld, Wilhelmus M., 3,752,840.
Dear, Robert E. A.; and Gilbert, Everett E., to Allied Chemical Corporation. Method of fumigating insects using 2-chloromethyl-1,3-polyfluoro-2-propanols. 3,769,435, 10-30-73, Cl. 424-343.000.
Dear, Robert E. A.; and Woolf, Cyril, to Allied Chemical Corporation. Process for preparing fluorocarbon halides. 3,770,838, 11-6-73, Cl. 260-653.000.
Dear, Robert E. Z.: *See—*
Woolf, Cyril; Dear, Robert E. Z.; and Young, David E., 3,761,501.
Dear, Terrance A.: *See—*
Dahlberg, John R.; and Dear, Terrance A., 3,740,524.
Dearborn, Henry Alexander. Snowshoe. 3,755,927, 9-4-73, Cl. 36-2.5ab.
Deardorff, Donald L.; Chesler, Edwin T.; and Fath, Joseph L., to Teknor Apex Company. Diacyl peroxides. 3,728,402, 4-17-73, Cl. 260-610.00d.
Dearmont, Donald D., to Phillips Petroleum Company. Bowling ball core containing sponge rubber chips. 3,740,354, 6-19-73, Cl. 260-2.50h.
Deas, Richmon E.: *See—*
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Deason, James R.: *See—*
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Death, Frank Stuart: *See—*
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Deaton, Charles U. Illuminator grid. 3,774,024, 11-20-73, Cl. 240-78.01d.
Deaton, David W., to Ahldea Corporation. Inflatable patient enclosures. 3,710,791, 1-16-73, Cl. 128-191.00a.
Deaton, David W., to Ahldea Corporation. Stimulation method and apparatus for attempting to return a physiological parameter of a patient to normal. 3,730,173, 5-1-73, Cl. 128-2.080.
Deaton, David W., to Ahldea Corporation. Disposable liquid entraining system. 3,744,771, 7-10-73, Cl. 261-78.00a.
Deaton, David W., to Deaton Medical Company. Medical suction method and apparatus. 3,745,999, 7-17-73, Cl. 128-277.000.
Deaton, David W., to Deaton Medical Company. Method and apparatus of medical suction. 3,780,738, 12-25-73, Cl. 128-277.000.
Deaton, Felix W.; deceased (by Deaton, Felix W., Mrs.; spouse), to Cortez, Al, Sr. Embalmer's headrest. 3,748,705, 7-31-73, Cl. 27-21.000.
Deaton, Felix W., Mrs.: *See—*
Deaton, Felix W., 3,748,705.
Deaton, Homer W., to General Motors Corporation. Excess lint indicator for a clothes dryer. 3,718,982, 3-6-73, Cl. 34-82.000.
Deaton, Irving Fransen, to CPC International Inc. Process for the production of non-hazing starch conversion syrups. 3,756,919, 9-4-73, Cl. 195-31.00r.
Deaton Medical Company: *See—*
Deaton, David W., 3,745,999.
Deaton, David W., 3,780,738.
Deaton, Ronald L.; and Silver, Gary L., to United States of America, Atomic Energy Commission. Method for dissolving plutonium dioxide. 3,725,294, 4-3-73, Cl. 252-301.10r.
Deaton, Ronald L.; and Silver, Gary L., to United States of America, Atomic Energy Commission. Plutonium recovery from organic materials. 3,778,497, 12-11-73, Cl. 423-2.000.
Deats, Richard A. Mobile hay feeder. 3,777,713, 12-11-73, Cl. 119-60.000.
Debaigt, Jean, to Compagnie Generale d'Entreprises Electriques. Modular device for electrical connections and applications thereof. 3,750,093, 7-31-73, Cl. 339-205.000.
Debaigt, Jean, to C.G.E.E. Alsthom. Assembly device for a connector. 3,766,515, 10-16-73, Cl. 339-198.0ga.
DeBarbadillo, John Joseph, II, to International Nickel Company, Inc., The. Corrosion resistant ultra high strength stainless steel. 3,772,005, 11-13-73, Cl. 75-126.00c.
Debare, Jacques, to Societe Francaise d'Equipment Menager. Pumping device, especially for water supply. 3,738,776, 6-12-73, Cl. 417-38.000.
Debbas, Samir Costandi, to Du Pont de Nemours, E. I., and Company. Process for forming nonwoven webs from combined filaments. 3,711,898, 1-23-73, Cl. 19-155.000.
Debenedictis, Leonard Charles: *See—*
Koechner, Walter; and Debenedictis, Leonard Charles, 3,747,019.
Debenedictis, Leonard Charles, to Union Carbide Corporation. Laser lamp failure detection method and means. 3,727,101, 4-10-73, Cl. 315-107.000.
Debenham, Michael: *See—*
Dalli, Alan George; Debenham, Michael; and Shackleford, Ralph Edward, 3,756,449.
Dalli, Alan George; Debenham, Michael; and Shackleford, Ralph Edward, 3,759,206.
Debergh, Philippe; and Lagrange, Maurice, to Commissariat a l'Energie Atomique. Installation for surveying the displacement of a structure in a nuclear reactor. 3,737,372, 6-5-73, Cl. 176-19.00r.
Debernardis, Joseph N.; Slobbe, Walter W.; and Spcigel, Kenneth, to GTE Sylvania Incorporated. Apparatus for coating a pattern mask for use in forming a color CRT screen structure. 3,764,514, 10-9-73, Cl. 204-299.000.
deBettencourt, Joseph T.; and Tsao, Carson K. H., to Raytheon Company. Subsurface traveling wave antenna. 3,742,509, 6-26-73, Cl. 343-719.000.
DeBoer, Jan; and Vaes, Petrus Jozephus Johannes, to U.S. Philips Corporation. Hair-clipping cutter system. 3,780,434, 12-25-73, Cl. 30-34.000.
DeBolt, Arthur L.; and Liebermann, Walter A., to Northrop Carolina, Inc. Pattern jack actuator means for circular knitting machines. 3,747,370, 7-24-73, Cl. 66-42.000.
DeBolt, Harold E., to Avco Corporation. Localized heating filaments by induced currents. 3,754,112, 8-21-73, Cl. 219-10.610.
Deboo, Gordon J.; and Hedlund, Roger C., to United States of America, National Aeronautics and Space Administration. Self-tuning bandpass filter. 3,714,588, 1-30-73, Cl. 328-167.000.
DeBoo, Robert Victor; and Heard, Charles Bean, Jr., to Western Electric Company, Incorporated. Methods of and apparatus for advancing and working thermoplastic materials. 3,762,693, 10-2-73, Cl. 259-191.000.
DeBord, Harold B. System for eliminating environmental pollution. 3,756,171, 9-4-73, Cl. 110-8.00r.
Debortoli, George; and Lukas, Helmut Hans, to Northern Electric Company, Limited. Terminating tool for wires. 3,711,921, 1-23-73, Cl. 29-203.00h.
DeBray, Harold W., to United States Steel Corporation. Method and apparatus for locating the surface of a liquid metal bath. 3,708,159, 1-2-73, Cl. 266-34.0lm.
Debray, Maurice. Pack advancer. 3,730,516, 5-1-73, Cl. 271-62.00r.
Debrie, Roger Lucien: *See—*
Riviere, Eugene; Vilarel, Danycle Yevette; Debrie, Roger Lucien; and Loiseau, Gerard Paul Marie Henri, 3,769,409.
DeBruyne, Guy Jules Achille Pierre; and Bienvenu, Jacques Michel Jean, to Societe Industrielle Honeywell Bull (Societe Anonyme). Microprogram memory for electronic computers. 3,748,653, 7-24-73, Cl. 340-173.0bb.
DeBruyne, Neil A.; and Ryffel, Henry H., to Curtiss-Wright Corporation. Planetary gear transmission. 3,776,067, 12-4-73, Cl. 74-801.000.
Debry, Maurice E. Machine for the automatic continuous manufacture of reinforcements. 3,749,140, 7-31-73, Cl. 140-71.00r.
Debs, Victor, to Levolor Lorentzen, Inc. Method of making a venetian-blind installation. 3,721,285, 3-20-73, Cl. 160-166.000.
Debs, Victor, to Levolor Lorentzen, Inc. Blind having lift cords and a cord lock. 3,727,665, 4-17-73, Cl. 160-178.00c.
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Debuisser, Jean-Claude A.: *See—*
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DeBurgh, Raymond J.: *See—*
De Burgh, Raymond J.; and Novick, Harold L., 3,781,560.
Debus, Henri Robert; Van Tongelen, Marcel; and Cahen, Raymond M., to Labofina S.A. Hydrocarbon conversion. 3,775,495, 11-27-73, Cl. 260-668.00d.



Debus, Henri Robert; Van Tongelen, Marcel; and Cahen, Raymond
Decker, Jacob, to Cincinnati Milacron Inc. Dynamic balancing ap-

Debus, Henri Robert; Van Tongelen, Marcel; and Cahen, Raymond M., to Labofina S.A. Hydrocarbon conversion. 3,775,499, 11-27-73, Cl. 260-668.00a.
Debus, Henri Robert; Van Tongelen, Marcel; Cahen, Raymond M.; and Daniels, Calvin Lee, to Labofina S.A. Selective conversion of diethylcyclohexanes to gem-structured tetramethylcyclohexanes. 3,776,965, 12-4-73, Cl. 260-666.00r.
Debus, Karl; Debus, Karl-Jurgen; and Mohr, Eberhard, to Mergenthaler Linotype GmbH. Photocomposing machine. 3,750,554, 8-7-73, Cl. 95-4.500.
Debus, Karl-Jurgen: *See—*
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Cresswell, Alan, 3,741,484.
DeCaneva, Richard: *See—*
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DeCaplo, Alfred F., Jr., to United States Surgical Corporation. Three-stage medical instrument. 3,740,994, 6-26-73, Cl. 72-407.000.
Decaprio, Joseph Donald; Dementi, Brian Armstead; and Lazarus, Stanley David, to Allied Chemical Corporation. Manufacture of polyethylene terephthalate polyester. 3,755,251, 8-28-73, Cl. 260-45.95r.
DeCat, Arthur Henri: *See—*
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Holyman, Brian Thomas, 3,731,207.
Hughes, David Geoffrey, 3,725,932.
Millward, John David, 3,769,574.
Pace, Brian, 3,710,334.
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Dechelette, Helen, to AMP Incorporated, mesne. 16 APC Edge connector. 3,713,079, 1-23-73, Cl. 339-217.00r.
Dechenaux, Victor Louis, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Non-aqueous electrolytes. 3,769,092, 10-30-73, Cl. 136-100.00r.
Decicom Systems, Inc.: *See—*
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Decision Data Computer Corporation: *See—*
McPherson, Frank H.; Lownes, Irvin S., Jr.; and Richardson, Thomas L., 3,774,155.
Decision Data Corporation: *See—*
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Decitre, Pierre, to Houilleres du Bassin du Nord & du Pas-de-Calais. Apparatus for the production of solidified trioxan. 3,752,624, 8-14-73, Cl. 425-224.000.
Deck, Harold R.: *See—*
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Deck, Howard C., to Graflex, Inc. Slot load projector. 3,734,602, 5-22-73, Cl. 352-157.000.
Deck, James R.: *See—*
Bishop, Harold F.; and Deck, James R., 3,751,308.
Deck, Richard L.: *See—*
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Decker, Arthur J.: *See—*
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Decker, Donald L.: *See—*
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Decker, Donald L., to Stauffer Chemical Company. Process of forming upholstery. 3,759,776, 9-18-73, Cl. 156-309.000.
Decker, Donald R., Jr.: *See—*
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Geiger, Lstyan; and Decker, Gerd, 3,763,834.
Decker, Hanns; Hurtmanns, Heinz; and Schutte, Klaus, to Klockner-Humboldt-Deutz Aktiengesellschaft. Gyratory crusher with labyrinth seal between eccentric drive and crushing cone. 3,771,735, 11-13-73, Cl. 241-216.000.
Decker, Hanns; and Stockmann, Helmut, to Klockner-Humboldt-Deutz Aktiengesellschaft. Large gyratory crusher. 3,774,857, 11-27-73, Cl. 241-209.000.
Decker, Harold D. Hand loading press for field use or the like. 3,735,666, 5-29-73, Cl. 86-24.000.
Decker, Herbert, to Triumph Werke Nuernberg, A.G. Shift device for positioning single element type carriers on typewriters and like machines. 3,746,141, 7-17-73, Cl. 197-16.000.
Decker, Jacob, to Cincinnati Milacron Inc. Dynamic balancing apparatus. 3,731,556, 5-8-73, Cl. 74-573.000.
Decker, John J.; and Kerstetter, Donald R., to GTE Sylvania Incorporated. Method of making dark heater coatings including tungsten. 3,737,342, 6-5-73, Cl. 117-217.000.
Decker, John L.: *See—*
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Decker, Karl: *See—*
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Decker, Martin: *See—*
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Decker, Raymond E., to Challenge-Cook Bros., Incorporated. Clean out assembly for a concrete pump and pipeline. 3,774,633, 11-27-73, Cl. 137-493.800.
Decker, Saul M.: *See—*
Horowitz, Harvey M.; Decker, Saul M.; and McMann, Renville H., 3,767,852.
Decker, William R. Method and apparatus used for book binding. 3,717,366, 2-20-73, Cl. 281-21.000.
Deckert, Albert V., Jr.; and Brinkmann, Frederick J., to Associated Ideas International, Inc., mesne. Soft support system for hulls and the like. 3,721,096, 3-20-73, Cl. 61-66.000.
Deckert, Dale I. Roller for mounting on the tires of a tractor. 3,738,407, 6-12-73, Cl. 152-175.000.
Deckert, Fred W.; and Matson, Gale W., to Minnesota Mining and Manufacturing Company. Fasteners and sealants useful therefor. 3,746,068, 7-17-73, Cl. 151-14.500.
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Authier, Bernhard; Deckert, Helmut; Hofbauer, Werner; and Bauer, Rudolf, 3,719,271.
DeClapp, Darwin Fiske, to American Cyanamid Company. Method of making a soy protein concentrate. 3,762,929, 10-2-73, Cl. 99-17.000.
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Decouzon, Georges; Misseri, Marcel; and Chalesle, Andre, to Regie Nationale des Usines Renault and Automobiles Peugeot. Automotive safety steering systems. 3,750,649, 9-25-73, Cl. 74-492.000.
Decrosta, Edward F. Method of dissolution of metals using thermogalvanic cells. 3,773,637, 11-20-73, Cl. 204-146.000.
Dedek, Frank G., to Burroughs Corporation. Apparatus for forming articles from powdered metal. 3,720,491, 3-13-73, Cl. 425-78.000.
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Dedoes, Arnold A. Implement and hitch therefor. 3,756,203, 9-4-73, Cl. 122-464.000.
Dedona, Francis A.; and Lucas, James W., to Scionics Business Products, Inc., mesne. Card cover sheet aperturing apparatus. 3,735,655, 5-29-73, Cl. 83-140.000.
Dedrick, Dallas S., to Weyerhaeuser Company. Process for kiln drying lumber by means of a predetermined drying rate. 3,714,716, 2-6-73, Cl. 34-30.000.
Dee, Colin William. Bed support. 3,740,777, 6-26-73, Cl. 5-348.000.
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Dee, William C., to Aerostatic Limited. Gas bearing assembly. 3,721,480, 3-20-73, Cl. 308-9.000.
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Deebel, George P.; Doden, Bernard M.; and Morris, Myron J., to Magnavox Company, The. Telethermometer receiver and display device. 3,766,535, 10-16-73, Cl. 340-181.000.
Deeds, Douglas; and Rosengrant, Barry L., to Architectural Pottery. Fiberglass filing cabinet. 3,722,972, 3-27-73, Cl. 312-305.000.
Deeg, Emil W.; Snitzer, Elias; and Simpson, Arnold J., to American Optical Corporation. Method for producing laser glasses having high resistance to internal damage and the product produced thereby. 3,716,349, 2-13-73, Cl. 65-32.000.
Deeg, Emil W.; and Graf, Robert E., to American Optical Corporation. Low threshold yttrium silicate laser glass with high damage threshold. 3,763,052, 10-2-73, Cl. 252-301.40f.
Deeg, Emil W.; and Martel, Leslie B., to American Optical Corporation. Toughening of ophthalmic lens blanks. 3,768,992, 10-30-73, Cl. 65-116.000.
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Deeks, Ronald G., to Procor Limited. Gas vent. 3,730,200, 5-1-73, Cl. 137-1.000.
Deeks, Ronald G. Pressure flow discharge mechanism. 3,777,912, 12-11-73, Cl. 214-152.000.
Deem, Brian C., to Bendix-Westinghouse Automotive Air Brake Company. Hydraulic and air operated relay valve. 3,712,340, 1-23-73, Cl. 137-627.500.
Deem, Charles E., Jr., to Utility Products Co. Insulating supporting roller in cathodic protection system. 3,769,190, 10-30-73, Cl. 204-197.000.
Deem, William Roy, to Imperial Chemical Industries, Limited. Production of tetrafluoroethylene oligomers. 3,758,618, 9-11-73, Cl. 260-653.100.
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Deerhake, William James, to International Business Machines Corporation. Bar code scanner. 3,763,351, 10-2-73, Cl. 235-61.11e.
Deering, Charles S., to E-Systems, Inc., mesne. Sequential check-out system including code comparison for circuit operation evaluation. 3,716,783, 2-13-73, Cl. 324-73.000.
Deering, Edwin Naul; and Jones, Wickliffe, to Jones, R. A., & Company, Inc. Apparatus for erecting cartons. 3,761,072, 9-25-73, Cl. 271-12.000.
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Deffner, John F.; Tucci, Edmond R.; Thayer, Helen I.; and Ward, John V., to Gulf Research & Development Company. Process for the hydroformylation of olefins. 3,725,483, 4-3-73, Cl. 260-604.0hf.

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Degginger, Edward R.; and Balquist, James M., to Allied Chemical Corporation. N-Substituted (5,8-dimethyl-5,6,7,8-tetrahydro-1-naphthyl) carbamates. 3,726,911, 4-10-73, Cl. 260-479.00c.

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Degnan, William G., to United Aircraft Corporation. Collapsible shim for preloaded bearing and method of making same. 3,730,600, 5-1-73, Cl. 308-244.000.

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Degueldre, Louis; Gobillon, Yves; Clerbois, Lucien; and Bourgeois, Louis, to Solvay & Cie. Solid compound of rhodium and tellurium and manufacturing process therefor. 3,736,269, 5-29-73, Cl. 252-518.000.

Degueldre, Louis; Gobillon, Yves; Clerbois, Lucien; and Bourgeois, Louis, to Solvay & Cie. Solid compound of rhodium and tungsten and manufacturing process therefor. 3,736,270, 5-29-73, Cl. 252-518.000.

Degueldre, Louis; Clerbois, Lucien; and Bourgeois, Louis, to Solvay & Cie. Compound of rhodium and molybdenum and method of manufacture. 3,773,915, 11-20-73, Cl. 423-393.000.

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Dehar, David C., to Ford Motor Company. Quick connect fitting for a hydraulic conduit. 3,711,125, 1-16-73, Cl. 285-111.000.

Dehar, David C., to Ford Motor Company. Tube-to-hose connection. 3,724,882, 4-3-73, Cl. 285-243.000.

Dehm, Henry C., to Hercules Incorporated. Method for bonding solid propellants to rocket motor casing. 3,716,604, 2-13-73, Cl. 264-3.00r.

Dehm, Henry C., to Hercules Incorporated. Process for providing solid particles with a coating having reactive surface isocyanate groups. 3,758,334, 9-11-73, Cl. 117-100.00a.





Dehn, Frederick C., to PPG Industries, Inc. Process for the disposal of salt solutions contaminated with azide. 3,768,865, 10-30-73, Cl. 299-4.000.

Dehne, Clarence A., to Webb, Jervis B., Company. Conveyor carrier tow bar. 3,720,172, 3-13-73, Cl. 104-172.500.

Dehne, Clarence A., to Webb, Jervis B., Company. Control for a conveyor take-up. 3,777,879, 12-11-73, Cl. 198-208.000.

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Dehoff, Ronald L., to Vanderbilt, R. T., Company, Inc. Curing agent for epoxy resin comprising a cyclic anhydride treated with an amino alcohol. 3,709,840, 1-9-73, Cl. 260-2.0ec.

Deibel, Erwin, to Maschinenfabrik Lorenz Aktiengesellschaft. Workpiece magazine. 3,739,450, 6-19-73, Cl. 29-211.00r.

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Deibele, Albert J., Jr. Cleat bender. 3,731,514, 5-8-73, Cl. 72-306.000.

Deibler, Robert R.; and Patterson, Tom W., to Hydr-O-Matic Pump Company. Ball check valve assembly. 3,741,243, 6-26-73, Cl. 137-528.000.

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Deich, Nikhail Efimovich; and Noiman, Klaus. Turbine stage. 3,756,740, 9-4-73, Cl. 415-170.00r.

Deike, Robert F., 1/4 each to Chamberlain, William H. and Chamberlain, Anna B. Manually actuated jack hammer. 3,735,822. 5-29-73, Cl. 173-118.000.

Deike, Robert F., 1/4 to Chamberlain, William H. and 1/4 to Chamberlain, Anna B. Jack hammer. 3,747,690, 7-24-73, Cl. 173-118.000.

Deike, Robert F. Stabilizer for mobile homes. 3,750,349, 8-7-73, Cl. 52-23.000.

Deily, Don, to City National Bank of Detroit and Fisher, Robert C., mesne. Tool control. 3,770,947, 11-6-73, Cl. 235-151.110.

Deimen, James M.: *See—*
Deimen, Lawrence A., 3,744,997.

Deimen, Lawrence A., 10% to Deimen, James M. Metallurgical grain refinement process. 3,744,997, 7-10-73, Cl. 75-129.000.

Deiner, Hans: *See—*
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Bernheim, Willy; and Deiner, Hans, 3,748,275.

Deiner, Hans; and Singer, Heinrich, to Chemische Fabrik Pfersee GmbH. Process for improving the slipping resistance and the delustering of textiles. 3,730,762, 5-1-73, Cl. 117-139.5cq.

Deinert, Roedolf Hendrik: *See—*
Kulberg, Gerardus Huibrecht; and Deinert, Roedolf Hendrik, 3,780,289.

Deines, Donald E., to Deines-Baker Development Co. Accumulator and boxer for flexible bags. 3,748,797, 7-31-73, Cl. 53-124.00d.

Deines, Siegmund; Trenary, John M.; Smith, David W.; and Hickman, Clarence J., to Teledyne Industries, Inc. Spray nozzle. 3,762,648, 10-2-73, Cl. 239-383.000.

Deines-Baker Development Co.: *See—*
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Deinet, Adolph J., to Tenneco Chemicals, Inc. Organotin nitriles as selective herbicides. 3,764,292, 10-9-73, Cl. 71-97.000.

Deis, Daniel W.; and Roland, George W., to Westinghouse Electric Corporation. Pyroelectric detector. 3,733,499, 5-15-73, Cl. 310-4.000.

Deis, William H.: *See—*
Dalhuisen, Albert J.; Deis, William H.; and Burgett, David C., 3,717,600.

Deisch, Cecil Winston, to Bell Telephone Laboratories, Incorporated. Line feed and isolation transformer with integral loop supervision. 3,781,483, 12-25-73, Cl. 179-18.00f.

Deitch, Gershon. Sanitary waste receiver and guide rod device for dogs. 3,744,453, 7-10-73, Cl. 119-1.000.

Deitch, Ronald S. Magnetic lock. 3,779,052, 12-18-73, Cl. 70-38.00c.

Deitemeyer, Stanley A.: *See—*
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Deith, Geoffrey Wilson: *See—*
Ingham, Robert Edward; and Deith, Geoffrey Wilson, 3,729,368.

Deitrick, Rollin E. Artificial lens implant. 3,711,870, 1-23-73, Cl. 3-13.000.

Deitrick, Rollin E., to Western Electric Company, Incorporated. Feeding device for cylindrical tubing. 3,737,072, 6-5-73, Cl. 221-203.000.

Deitsch, Henry C.: *See—*
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DeJager, Frederik Johannes. Beam presses. 3,771,386, 11-13-73, Cl. 74-520.000.

DeJong, Willem P.: *See—*
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Dejule, Michael C.: *See—*
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Kotler, Max; and Grossman, Morris, 3,746,453.

Dekavallas, Emmanuel G. Candle dipping machine. 3,742,900, 7-3-73, Cl. 118-6.000.

Dekitsch, Anton: *See—*
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Dekker, Cornelis; Joustra, Pieter Karel; and Paro, Heemskerk, to Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V. Apparatus for the application of a refractory lining to the inside wall of metallurgical vessels, as well as a moulding unit to be uilized in combination therewith. 3,716,316, 2-13-73, Cl. 425-13.000.

Deknatel, Inc.: *See—*
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Dektor Counterintelligence and Security: *See—*
Bell, Allan D., Jr., 3,715,514.

Del Castillo, Juan M. Teaching device for attachment to a keyboard instrument. 3,709,085, 1-9-73, Cl. 84-166.000.

Del Castillo, Juan M. Optical metronome. 3,743,758, 7-3-73, Cl. 84-484.000.

Del Castillo, Juan M. Indicating head for use with a keyboard instrument teaching device. 3,744,366, 7-10-73, Cl. 84-478.000.

Del Castillo, Juan M. Teaching device for attachment to a keyboard instrument. 3,765,294, 10-16-73, Cl. 84-166.000.

Del Ciello, Robert R., to Motorola, Inc. Power regulator having rapid turn-on circuit. 3,767,997, 10-23-73, Cl. 321-18.000.

Del Giudice, Frank Paul: *See—*
Koleske, Joseph Victor; Roberts, Rene Marie-Joseph; and Del Giudice, Frank Paul, 3,725,352.

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Del Guercio, Carlo: *See—*
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Del Monica, Peter P. Bender for wire or flat stock. 3,729,975, 5-1-73, Cl. 72-388.000.

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Del Paggio, Anthony F., to Park-Ohio Industries, Inc. Induction heating apparatus and method. 3,757,072, 9-4-73, Cl. 219-10.410.

Del Paggio, Anthony F., to Park-Ohio Industries, Inc. Apparatus for inductively heating valve seats. 3,777,096, 12-4-73, Cl. 219-10.570.

Del Pico, Joseph, to Abcor, Inc. Supported semipermeable membranes and process for preparing same. 3,762,566, 10-2-73, Cl. 210-490.000.

Del Piero, Elio; and Wautriche, Willy, to Solvay & Cie. Method for trimming the botton of hollow synthetic resin articles. 3,763,297, 10-2-73, Cl. 264-98.000.

Del Prete, Cosimo: *See—*
Del Prete, Cosimo; and Siegal, Burton L. (said Siegal assor. to said), 3,773,143.

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Del Rio, Eddy Humberto, to RCA Corporation. Automatic wear compensating mechanism. 3,746,231, 7-17-73, Cl. 226-177.000.

Del Rio, Eddy Humberto; and Pothier, Donald Forman, to RCA Corporation. Self-cleaning read head. 3,763,352, 10-2-73, Cl. 235-61.11e.

Del Rosso, Victor, to Hi-Speed Checkweigher Co., Inc. Magnetic flow director. 3,731,782, 5-8-73, Cl. 198-31.00r.

Del Rosso, Victor, to Hi-Speed Checkweigher Co., Inc. Package inverter. 3,767,028, 10-23-73, Cl. 198-33.0ac.

Del Russo, Victor: *See—*
Pettis, Charles R., Jr.; and Del Russo, Victor, 3,756,373.

Del Vecchio, Michael. Motorized aqua disc. 3,718,111, 2-27-73, Cl. 115-70.000.

Del Zotto, Giorgio, to Ates Componenti Elettronici S.p.A. Ignition circuit for spark plugs of internal-combustion engine. 3,721,224, 3-20o73, Cl. 123-148.00e.
Del-Frate, Claude, to Ets J.J. Carnaud & Forges de Basse-Indre. Linear clinching for round cans. 3,730,118, 5-1-73, Cl. 113-30.000.
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Del-Pak Media Corporation: *See—*
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Dela Gorgendiere, Choiseul J. J., to Wheel Trueing Tool Company of Canada, Ltd. Diamond drill assembly with bore hole support. 3,712,392, 1-23-73, Cl. 175-325.000.
Delacy, Thomas J., to General Dynamics Corporation. Spacecraft heat shield testing method. 3,769,511, 10-30-73, Cl. 250-303.000.
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Fauran, Claude P.; Turin, Michel J.; Raynaud, Guy M.; and Pourrias, Bernard M., 3,753,984.
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Fauran, Claude P.; Eberle, Jeannine A.; Raynaud, Guy M.; and Thomas, Janine M., 3,755,314.
Fauran, Claude P.; Raynaud, Guy M.; Douzon, Colette A.; and Thomas, Janine M., 3,755,370.
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Delaney, Edward A.: *See—*
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Delaney, John J.; and Gervais, Henry O., to Northeastern Pennsylvania Research and Development Co., Inc. Dual powered vehicle. 3,713,502, 1-30-73, Cl. 180-27.000.
Delaney, Lyle F.; and Mager, Leon A., to Sperry Rand Corporation. Multiplexed memory request interface. 3,735,354, 5-22-73, Cl. 340-172.500.
Delaney, Paul: *See—*
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DeLange, Cornelis J., to Cement Enamel Development, Inc. Frameless fascia-soffit assembly. 3,719,011, 3-6-73, Cl. 52-73.000.
DeLange, Cornelis J., to Cement Enamel Development, Inc. Prefabricated structural unit and method. 3,780,482, 12-25-73, Cl. 52-309.000.
DeLange, Robert Gerardus; Zijderveld, Jacobus Antonius; and Van Kuppevelt, Gerardus Antonius, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid, Handel en Verkeer. Method for preparing hard metal based ontitanium carbide and wear resistant objects manufactured from this hard metal. 3,756,787, 9-4-73, Cl. 29-182.800.
Delano, Charles G., to Mustang Oil Tools, Inc. Cementing well bore casing. 3,777,819, 12-11-73, Cl. 166-285.000.
Delano, Richard; and Raseman, Chad J. Method to prevent condensate accumulation on a surface. 3,736,172, 5-29-73, Cl. 117-95.000.
Delano, Roger Albert: *See—*
Schofield, John Allan; and Delano, Roger Albert, 3,729,424.
Delany, Edward B., to Perkin-Elmer Corporation, The. Ion kinetic energy spectrometer. 3,769,513, 10-30-73, Cl. 250-290.000.
Delao, Alexander. Corrugated board paint filter. 3,744,222, 7-10-73, Cl. 55-446.000.
Delapena Honing Equipment Limited: *See—*
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Delapierre, Gilles: *See—*
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Delapp, Darwin Fiske, to American Cyanamid Company. Supersaturated solid solutions of photochromic materials in epoxides. 3,716,489, 2-13-73, Cl. 252-300.000.
Delatronchetta, Claude; Helion, Raymond; Gunthart, Rene; and Meissner, Andre, to Elf Union and Ateliers des Charmilles S.A. and Chatelaine-Geneve (Swisse). System for supplying an emulsion of liquid fuel and water to a heating burner. 3,766,942, 10-23-73, l. 137-566.000.
Delatronchette, Claude, to Elf Union S.A. Supply system for a light hydrocarbon-water emulsion burner. 3,741,712, 6-26-73, Cl. 431-190.000.
DeLaughter, Henry L. Carpet and rug cleaning implement. 3,756,728, 9-4-73, Cl. 401-140.000.
Delaunay, Jacques, to Societe de Fabrication d'Instruments de Mesure SFIM. Electronic devices for forming algebraic sums. 3,725,691, 4-3-73, Cl. 235-186.000.
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Delavarenne, Serge Y., to Union Carbide Corporation. Preparation of sodium and potassium fluoroethylenes. 3,751,492, 8-7-73, Cl. 260-653.300.
Delavarenne, Serge Yvou, to Union Carbide Corporation. Process for producing fluorinated cyclic ketals. 3,758,510, 9-11-73, Cl. 260-340.900.
Delay, Dennis G.; Parsons, Sherman R.; and Sterlacci, Robert A., to United States of America, Navy. Solid state instrument system for digital counting and continuously indicating count results. 3,754,121, 8-21-73, Cl. 235-92.0ea.
Delbag-Luftfilter Gesellschaft mit beschrankter Haftung: *See—*
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Delcron Products, Inc.: *See—*
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Delecroix, Patrick, to Societe Anonyme la Redoute. Article selecting device. 3,731,788, 5-8-73, Cl. 198-103.000.
Delembre, Andre Emile; and Jarrige, Georges Roger; deceased (by Jarrige, Jeannine Germaine; administrator), said Delembre and said Nguyen assors. to ITT Industries, Inc. Hermetic end seals for envelope of a metal vapor lamp. 3,716,744, 2-13-73, Cl. 313-220000.
Delente, Jacques J.; Lueckerath, Elmer W.; Akin, Cavit; and Krabbe, Erik, to Krabbe, Erik, mesne. Fermentation process. 3,713,839, 1-30-73, Cl. 99-31.000.
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Delfeld, William F.: *See—*
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Delfeld, William H., to Boeing Company, The. Power shaft coupling and uncoupling mechanism. 3,760,920, 9-25-73, Cl. 192-93.00r.
Delfin, Irwin: *See—*
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Delfrate, Egidio Alvazzi; and De Nicolay, Giuliano, to Societa Italiana Telecomunicazioni Siemens S.p.A. Determination of equalizer setting in telecommunication system. 3,748,602, 7-24-73, Cl. 333-28.00r.
Delfrate, Egidio Alvazzi, to Societa Italiana Telecomunicazioni Siemens S.p.A. Adjustable equalizer for wide-band transmission system. 3,771,071, 11-6-73, Cl. 333-28.00r.
Delgadillo, Fred M. Burglar-proof locking device. 3,718,014, 2-27-73, Cl. 70-56.000.
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D'Elia, Anthony N.; and Stolarz, Edward M., to Delcron Products, Inc. Smoking device with controllable air admitting means. 3,713,452, 1-30-73, Cl. 131-198.00a.
Delic, Miladin. Auto humidifier and steam injection device. 3,761,019, 9-25-73, Cl. 237-12.300.
Delignieres, Robert; and Ausset, Alain, to Institut Francais du Petrole des Carburants et Lubrifiants. Frequency tracking device. 3,731,204, 5-1-73, Cl. 328-134.000.
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over by a vehicle moving in a water body, with respect to the submerged ground surface and device therefor. 3,754,207, -21-73, Cl. 340-3.00d.
Delignieres, Robert, to Institut Francais du Petrole des Carburants et Lubrifiants. Method for determining the distance travelled over by vehicle with respect to a reference surface, making use of the doppler's effect and device therefor. 3,781,774, 12-25-3, Cl. 340-3.00d.
DeLigt, John, to Westvaco Corporation. Embosser using small diameter embossing rolls. 3,730,080, 5-1-73, Cl. 101-23.000.
DeLigt, John; and Shelor, Clifford D., to Westvaco Corporation. Fabrication of laminated structural panels. 3,733,235, 5-15-73, Cl. 156-260.000.
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Delin, Per Staffan; Ekstrom, Bertil Ake; Nathorst-Westfelt, Lars Solve; Sjoberg, Berndt Olof Harald; and Thelin, Karl Hugo. Process for producing 6-aminopencillanic acid. 3,736,230, 5-29-73, Cl. 195-36.00p.
Delisle, Jean-Paul; Rulleau, Alain; and Prouteau, Lucien, to Commissariat a l'Energie Atomique. Device for locating a fuel assembly can failure in a nuclear reactor. 3,775,245, 11-27-73, Cl. 176-19.0ld.
Delisle, Jules; Deschenes, Pierre A.; and Leroux, Adrien, to Consulab Inc. Load regulating system. 3,714,453, 1-30-73, Cl. 307-39.000.
Dell, Brian E., to Computer Optics, Inc. Image transfer device. 3,725,575, 4-3-73, Cl. 178-6.70r.
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della Porta, Paolo; Giorgi, Tiziano A.; Kindl, Bruno; and Zucchinelli, Mario, to S.A.E.S. Getters S.p.A. Catalysts. 3,746,658, 7-17-73, Cl. 252-439.000.
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Dellacato, Francis Charles, to International Business Machines Corporation. Digital decoding of retrospective pulse modulation. 3,755,654, 8-28-73, Cl. 235-61.11e.
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Dellecave, Thomas L.; and Konegen, Rudolf R., to United States of America, Air Force. Low power, high speed, pulse width dicriminator. 3,772,534, 11-13-73, Cl. 307-234.000.
Dellecker, Raymond Whyte; Greason, William Wallace, III; Hayden, Paul Ross; and Weiner, David William, to Bell Telephone Laboratories, Incorporated. Multifunctional scanner-counter circuit. 3,723,661, 3-27-73, Cl. 179-18.0fg.
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Delobelle, Emile Jean, to Pneumatiques, Caoutchouc Manufacture et Plastiques Kleber-Colombes. Radial-ply pneumatic tire. 3,722,567, 3-27-73, Cl. 152-354.000.
Deloire, Raymond; and Durand, Jacques, to La Spirotechnique and Chromex. Heating garment. 3,729,613, 4-24-73, Cl. 219-211.000.
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Delong, William T.; Szumachowski, Edwin R.; and Heverly, Harold R. Bonded arc welding flux and liquid binding agent therefor. 3,769,099, 10-30-73, Cl. 148-26.000.
Delorean, John Zachary. Building construction. 3,778,953, 12-18-73, Cl. 52-745.000.
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Delp, Charles J., to Du Pont de Nemours, E. I., and Company. Mixtures of 1-butylcarbamoyl-2-benzimidazolecarbamic acid, methyl ester and ethylenebisdithiocarbamic acid salts as foliar. 3,764,686, 10-9-73, Cl. 424-273.000.
Delpaggio, Anthony F., to Park-Ohio Industries, Inc. Method and apparatus for inductively heating valve seats. 3,743,809, 7-3-73, Cl. 219-10.570.
Delpaggio, Anthony F., to Park-Ohio Industries, Inc. Method and apparatus for inductively heating valve seats. 3,761,669, 9-25-73, Cl. 219-10.570.
Delphin, Pierre P., to Thomson-CSF. System for feeding electromagnetic energy into a cyclotron and a cyclotron incorporating such system. 3,719,894, 3-6-73, Cl. 328-234.000.
Delplace, Michel. Garment construction. 3,740,765, 6-26-73, Cl. 2-67.000.
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Deltak Corporation, mesne: *See—*
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Deluca, Hector F.; Schnoes, Heinrich K.; Holick, Michael F.; and Semmler, Erich J., to Wisconsin Alumni Research Foundation. 1α-Hydroxycholecalciferol. 3,741,996, 6-26-73, Cl. 260-397.200.
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Delves, H. Trevor, to Perkin-Elmer Corporation, The. Sampling technique for atomic absorption spectroscopy. 3,708,228, 1-2-73, Cl. 356-87.000.

Delves-Broughton, Paul N., to International Standard Electric Corporation. Apparatus for extruding water-blocked cartwheel cable. 3,771,934, 11-13-73, Cl. 425-135.000.

Delvigs, Peter: *See*—
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Delzenne, Gerard Albert, to Gevaert-Agfa N.V. Light-sensitive photopolymerizable material containing photochromic material. 3,730,734, 5-1-73, Cl. 96-115.00r.

Dema, Andrea; Pulcini, Aldo; and Rossotti, Ernesto. Two-rail conveyor with a device for drawing, engaging and disengaging the load-bearing trolley. 3,726,234, 4-10-73, Cl. 104-172.500.

Demachi, Toshiaki: *See*—
Hashizume, Tsuneharu; Sasaki, Michihiko; Tatuno, Masanori; Demachi, Toshiaki; Hatakoshi, Osaku; Miyauchi, Shigeru; and Amemiya, Susuma, 3,757,309.

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Demange, Philippe, to Societe Generale de Constructions Electriques et Mecaniques (Alsthom). Electrodes and fuel cells. 3,755,000, 8-28-73, Cl. 136-860.000.

Demangeon, Yvon, to Colgate-Palmolive Company. Bio-soaking performances. 3,732,170, 5-8-73, Cl. 252-95.000.

Demangeon, Yvon, to Colgate-Palmolive Company. Biological cleaning preparation. 3,753,915, 8-21-73, Cl. 252-95.000.

Demarco, Thomas M.: *See*—
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Demare, Baltzar Leo. Clinical manipulator. 3,717,885, 2-27-73, Cl. 5-61.000.

Demarest, Donald M., to General Electric Company. Coated light conduit. 3,746,870, 7-17-73, Cl. 250-227.000.

Demarest, Douglas M., to Linker Machines, Inc. Frankfurter separator mechanism with cutter sensor device. 3,716,891, 2-20-73, Cl. 17-1.00f.

Demarest, Henry M., Jr., to PPG Industries, Inc. Method of forming high-melting glass ribbon. 3,771,984, 11-13-73, Cl. 65-97.000.

Demarest, John: *See*—
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DeMauriac, Richard A.; and Landholm, Richard A., to Eastman Kodak Company. Photographic element, composition and process. 3,761,270, 9-25-73, Cl. 96-77.000.

Demberg, Edmund; and Ruffini, Sylvestro, to United States of America, Army. Container for explosives. 3,731,585, 5-8-73, Cl. 86-1.000.

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Dembovsky, Vladimir, to Vysoka Skola Banska Ostrava. Furnace for the smelting of metals and preparation of materials with high melting points. 3,747,669, 7-24-73, Cl. 164-348.000.

Dembovsky, Vladimir, to Vysoka Skola Banska. Plasma kiln. 3,780,201, 12-18-73, Cl. 13-31.000.

Dembowski, Ronald J.; and Schuh, Theodore R., to Nalco Chemical Company. Urea- and melamine-formaldehyde bridging agents. 3,715,172, 2-6-73, Cl. 260-3.000.

Demchock, Louis A., Jr.; and Greaney, Gerald F., to General Electric Company. Photoflash lamp. 3,717,432, 2-20-73, Cl. 431-93.000.

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Demeco Medical Products Aktiebolag: *See*—
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Demel, Gerhard: *See*—
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DeMent, Jack. Tellurian optoexplosive system including nuclear explosive light generator and target irradiation. 3,715,596, 2-6-73, Cl. 250-84.000.

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Demers, Romeo J. N. Cleaner for paint rollers. 3,707,740, 1-2-73, Cl. 15-236.000.

Demerson, Christopher A.: *See*—
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DeMet Engineering Company: *See*—
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Demetresco, Mihai. Combustion engine driven generator including spring structure for oscillating the inductor at the mechanical resonant frequency between power strokes. 3,766,399, 10-16-73, Cl. 290-40.000.

Demetroiu, James A., to Bio-Science Laboratories. Thyroxine determination method employing the competitive protein binding technique. 3,730,684, 5-1-73, Cl. 23-230.00b.

Demi, Roy C., to Robertshaw Controls Company. Manifold arrangement and parts therefor or the like. 3,744,754, 7-10-73, Cl. 251-363.000.

Demi, Roy C., to Robertshaw Controls Company. Fuel control device mounting arrangement with a fuel supply manifold. 3,746,039, 7-17-73, Cl. 137-561.00r.

Demi, Roy C., to Robertshaw Controls Company. Method of mounting a control device to a fuel supply manifold. 3,750,247, 8-7-73, Cl. 29-157.00r.

Demierre, Jean, to Polytype AG. Adjustable cup support for use in continuous printing on conical cups. 3,710,712, 1-16-73, Cl. 101-39.000.

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Deming, Andrew F., to Alliance Manufacturing Company, Inc., The. Receiver decoder. 3,754,189, 8-21-73, Cl. 325-392.000.

Deming, Andrew F., to Alliance Manufacturing Company, Inc., The. Transmitter-receiver alignment system and method. 3,768,018, 10-23-73, Cl. 325-67.000.

Deming, Joseph A.; Heffron, Allen J.; and Estry, Arthur L., to C. M. Systems, Incorporated and Crankshaft Machine Company. Single spindle crankshaft machine. 3,757,615, 9-11-73, Cl. 82-9.00r.

Deming, Philip H.: *See*—
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Deml, Miroslav; and Limberg, Jaroslav, to Hutni Projekt Praha, Projekoni a inzenyrska organizace. Apparatus preparing a mixture for bonding granules of vegetable origin. 3,771,771, 11-13-73, Cl. 259-8.000.

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Demler, Walter R.; and Christ, Paul G., to Allied Chemical Corporation. Process for improving the dry state tinctorial strength of a water soluble azo dye. 3,755,291, 8-28-73, Cl. 260-200.000.

Demme, John P.: *See*—
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Demny, Werner: *See*—
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DeMontmollin, Rene; and Riat, Henri. Water-soluble fiber-reactive sulphophanylazo-naphthyl dyestuffs containing an alpha, beta-dichloro- or dibrompropionylamino group. 3,755,290, 8-28-73, Cl. 260-196.000.

DeMoss, Dean L., to Minnesota Mining and Manufacturing Company. Flat magnetic heads. 3,737,582, 6-5-73, Cl. 179-100.20c.

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Demsky, Herbert M.; Dexter, Wilbur H.; Lever, Reginald F.; and Melzer, Paul A., to International Business Machines Corporation. Method for diffusing B or P into Si substrates. 3,770,521, 11-6-73, Cl. 148-189.000.

Demurger, Jacques L. J., to Etablissements Demurger & Cie. Sawing method and machine. 3,752,022, 8-14-73, Cl. 83-13.000.

Demurger, Jacques L. J. Saw blade made from W-Cr-W-Mo-containing tool steel. 3,758,297, 9-11-73, Cl. 75-126.00c.

Den Boer, Jean A. Device for regulating the humidity of the air in a musical instrument. 3,719,033, 3-6-73, Cl. 55-387.000.

Den, Chi Fu, to Bell Telephone Laboratories, Incorporated. Waveguide mode filter. 3,732,511, 5-8-73, Cl. 333-95.00r.

den Hartog, Willem Cornelis, to N.V. Industrieele Handelscombinatie Holland. Process for the continuous dredging of incoherent material, particularly sandy material, with a circular path. 3,750,408, 8-7-73, Cl. 61-2.000.

den Herder, Johannes; and den Herder, Pieter Willem, to Gebraeders den Herder, Firma. Devices for mechanically clearing waterways, particularly ditches. 3,751,887, 8-14-73, Cl. 56-8.000.

den Herder, Pieter Willem: *See*—
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Den Ottolander, Leendert, to Walpro Plastics N.V. Method and device for manufacturing a flat cable as well as a cable acquired by means of the same: 3,778,879, 12-18-73, Cl. 29-203.00c.

Den Ouden, Alfons Adriaan, to Brabo Corporation S.A.N.V. Animal with hard and soft body portions simulated by hard and soft mouldings. 3,763,592, 10-9-73, Cl. 46-152.000.

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Dence, Donald S., to Clark Equipment Company. Self-energized disc brake mechanism. 3,749,206, 7-31-73, Cl. 188-72.200.

Dence, Donald S., to Clark Equipment Company. Control valve for hydrostatic drive. 3,759,295, 9-18-73, Cl. 137-625.470.

Dence, Geoffrey Roy. Air filters. 3,777,458, 12-11-73, Cl. 55-287.000.

Denda, Rokuro; and Kawaguchi, Toshio, to Kuraray Co., Ltd. Method of removing aldehydes. 3,758,611, 9-11-73, Cl. 260-681.50r.

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Dendy, Joe B.; Thomson, Kenneth; and Morrison, Robert F., to Sperry Rand Corporation. Computer for use with ring laser rotational rate sensors. 3,715,562, 2-6-73, Cl. 235-150.310.

Denekas, Milton O., to Esso Production Research Company. Method for controlling the viscosity of surfactant solutions. 3,753,465, 8-21-73, Cl. 166-252.000.

Denenberg, Jeffrey N.; and Padgett, William J., to Warwick Electronics, Inc. Demodulator using a phase locked loop. 3,714,595, 1-30-73, Cl. 329-122.000.

Denes, Peter A. High voltage multi-layer cylindrical devices. 3,711,631, 1-16-73, Cl. 174-120.0sr.

Denes, Peter A. Composite soft magnetic materials. 3,775,328, 11-27-73, Cl. 252-62.550.

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Denherder, Gerald, to National Poultry Equipment Co.; division of Dawson & Co., Inc. Automatic egg receiving and positioning machine to orientate eggs for vacuum lift placement in containers. 3,749,227, 7-31-73, Cl. 198-33.0aa.

Denholm, A. Stuart; and Simcox, Gordon K., to Energy Sciences, Inc. Method of and apparatus for producing energetic charged-particle extended-dimension beam curtains and pulse-producing structures therefor. 3,769,600, 10-30-73, Cl. 328-233.000.

Deniega, Jose Castillo; and Tellerman, Edward M., to Wesco Industries Corporation, mesne. Yarn feeding and storage device for textile producing machine. 3,780,958, 12-25-73, Cl. 242-47.120.

DeNight, George G.; Farber, James F.; Glodek, John J.; and Higgins, Margaret D., to Scott Paper Company. Diaper system and absorbent pad therefor. 3,769,978, 11-6-73, Cl. 128-287.000.

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Denis, Jean-Claude; and Rambaud, Jerome, to Coirre, Paul. Method. 3,764,701, 10-9-73, Cl. 424-317.000.

Denis, Louis Henri Daniel. Method and plant for storing and transporting a liquefied combustible gas. 3,768,271, 10-30-73, Cl. 62-55.000.

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Denney, Jerry W., to American Monitor Corporation. Glucose assay and reagents therefor. 3,738,809, 6-12-73, Cl. 23-230.00b.
Denney, Jerry W., to American Monitor Corporation. Calcium assay and reagents therefor. 3,771,961, 11-13-73, Cl. 23-230.00b.
Denney, Joseph M.; and Selden, Ronald B., to Digital Development Corporation. Redundant recordation to reduce access time. 3,729,725, 4-24-73, Cl. 340-174.10g.
Dennhardt, Werner; and Schroter, Herbert, to Kalle Aktiengesellschaft. Method of and apparatus for automatically controlling the speed at which an original and copying material pass through a copying machine. 3,778,154, 12-11-73, Cl. 355-68.000.
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Denning, Ralph Murch, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Gas turbine engine. 3,761,042, 9-25-73, Cl. 244-53.00r.
Denning, William G. De-smoger. 3,729,900, 5-1-73, Cl. 55-100.000.
Denninger, Claude, to PEPRO Societe Pour le Development et la Vente de Specialites Chimiques. Liquid spraying devices pressurized from water supply. 3,756,513, 9-4-73, Cl. 239-337.000.
Denningham, Robert L., to United States of America, Navy. Variable-bar resolution target. 3,720,472, 3-13-73, Cl. 356-124.000.
Dennis, Charles L., to Mobil Oil Corporation. Regulating circuit for a pulsed neutron source. 3,719,827, 3-6-73, Cl. 250-84.500.
Dennis, Charles L.; and Zemanek, Joseph, Jr., to Mobil Oil Corporation. Method and apparatus for logging the characteristics of materials forming the walls of a borehole. 3,728,672, 4-17-73, Cl. 340-15.5ds.
Dennis, David S.: *See—*
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Dennis, Herman W.; and Birko, Arnold, to Essex International, Inc. Method of manufacture of printed circuits by die stamping. 3,713,944, 1-30-73, Cl. 156-261.000.
Dennis, Jack R., to Harowe Servo Controls, Inc. Self supporting rotary electrical device. 3,733,504, 5-15-73, Cl. 310-86.000.
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Dennis, John; Burge, Harry; Chilton, Denis Richard Leslie; and Rich, David Arthur, to Westinghouse Brake and Signal Company Limited. Automatic voltage control apparatus for electrostatic precipitators. 3,772,853, 11-20-73, Cl. 55-105.000.
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Dennis, Paul A., to Ex-Cell-O Corporation. Tape transport control system. 3,717,316, 2-20-73, Cl. 242-190.000.
Dennis, Paul A.; and Schrader, William A., to Ex-Cell-O Corporation. Tape transport control system. 3,746,278, 7-17-73, Cl. 242-190.000.
Dennis, Philip J., to GTE Sylvania Incorporated. Low profile glass enclosed hermetically sealed circuit breaker. 3,753,191, 8-14-73, Cl. 337-112.000.
Dennis, Ralph E.; Green, Robert C.; Honn, James J.; and Nottingham, James H., to International Business Machines Corporation. Two-dimension repeatable, positionable table. 3,744,891, 7-10-73, Cl. 353-27.000.
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Denny, Bradley J., to Hughes Aircraft Company. Time-at-temperature AC reflow soldering power supply. 3,778,581, 12-11-73, Cl. 219-85.000.
Denny, Donald I. Load supporting carriage structure for trailers. 3,715,132, 2-6-73, Cl. 280-405.00r.
Denny, John P.; Solbach, Robert C.; and Jagaciak, Pen George J., to Kawecki Berylco Industries, Inc. Ductile consolidated beryllium. 3,779,713, 12-18-73, Cl. 29-182.000.
Denny, Patrick John; and Dowden, Dennis Albert, to Imperial Chemical Industries Limited. Catalytic composition. 3,718,498, 2-27-73, Cl. 117-97.000.
Denny, Thomas A., to Oberlin Canteen, Inc. Fishing spreader assembly. 3,744,178, 7-10-73, Cl. 43-42.740.
Deno, Don W., to General Electric Company. Means for reducing eddy current heating of a tank in electrical apparatus. 3,711,622, 1-16-73, Cl. 174-35.0ce.
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Densow, Ulrich O., to Outboard Marine Corporation. Chain saw with oil pumping and signaling arrangement. 3,717,221, 2-20-73, Cl. 184-6.400.
Densow, Ulrich O.; and Simmons, Lloyd A., to Outboard Marine Corporation. Crankshaft magneto system. 3,747,649, 7-24-73, Cl. 30-381.000.
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Denss, Rolf; Clauson-Kaas, Niels; and Ostermayer, Franz. Substituted esters of phenyl acetic acids. 3,767,802, 10-23-73, Cl. 424-244.000.
Dent, John H., to Minnesota Mining and Manufacturing Company. Fluid operated surgical tool. 3,752,161, 8-14-73, Cl. 128-312.000.
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Dent, Robert K. Method of swage joining a metallic tube to an insert. 3,722,076, 3-27-73, Cl. 29-516.000.
Dental, Andrew Gomperz; Van Uitert, Le Grand Gerard; and Williams, John Charles, to Bell Telephone Laboratories, Incorporated. Fluorescent high alumina substrates. 3,718,601, 2-27-73, Cl. 252-301.40r.
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Denzel, Theodor; and Hoehn, Hans, to Squibb, E. R., & Sons, Inc. Isoxazolopyridine carboxylic acids and esters. 3,736,326, 5-29-73, Cl. 260-295.50b.
Denzel, Theodor; and Hoehn, Hans, to Squibb, E. R., & Sons, Inc. Isoxazolopyridine ketone derivatives 3,736,327, 5-29-73, Cl. 260-296.00h.
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Deolorme, John H., to Dick, A. B., Company. Exposure control in electrostatic photocopying processes. 3,749,488, 7-31-73, Cl. 355-3.000.
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Depoorter, Henri; and Moelants, Felix Jan, to Agfa-Gevaert N.V. Spectral sensitization of direct-positive silver-halide emulsions. 3,764,338, 10-9-73, Cl. 96-101.000.
Depoorter, Henri; and Ghys, Theofiel Hubert, to Gevaert-Agfa N.V. Spectrally sensitized silver halide emulsions. 3,765,900, 10-16-73, Cl. 96-140.000.
Depoubier, Henri; and Moelanis, Felix Jan, to Agfa-Gevaert N.V. Photoconductive compositions spectrally sensitized with N-substituted 2-aminothiophene dyes. 3,764,317, 10-9-73, Cl. 96-1.700.
DePree, David O., to Aerojet-General Corporation. Process for recovery of mineral pollutants from acidic waste streams. 3,725,259, 4-3-73, Cl. 210-30.000.
Deprez, Jean-Claude; and Munier de Montrichard, Charles Jacques, to Societe Industrielle des Nouveiles Techniques Radioelectriques et de l'Electronique. Device for the storage, selection and locating in a reading position of informations recorded on micro-ards. 3,732,977, 5-15-73, Cl. 209-110.500.
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DeRosa, Eugene R. Method and apparatus for splicing replacement pile section to pile stub. 3,720,068, 3-13-73, Cl. 61-53.000.
Derossi, Piero. Overload applied no-back brakes. 3,734,253, 5-22-73, Cl. 192-8.00c.
Derossi, Piero. Device enabling to perform the rewinding of the film in a sound motion picture projector. 3,762,618, 10-2-73, Cl. 226-76.000.
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Derre, Andre; Robert, Pierre; and Vuillemin, Claude, to Crouzet. Device for automatically presenting documents on a reading table. 3,780,858, 12-25-73, Cl. 209-73.000.
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Derrien, Michel; van Landeghem, Hugo; JeanJean, Pierre; and Le Page, Jean Francois, to Institut Francais du Petrole des Carburants et Lubrifiants. Process for hydrocarbon purification by selective hydrogenation. 3,770,619, 11-6-73, Cl. 208-255.000.
Derrig, Donald J., to Watkins Salt Company. Stabilizer for ethylene diamine dihydriodide. 3,733,405, 5-15-73, Cl. 424-171.000.
Derringer, George C.: *See—*
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Derry, Carl E.; and Childs, William A. Thermally insulated building material and method and means for the manufacture thereof. 3,774,428, 11-27-73, Cl. 72-46.000.
Derungs, Romano, to Hoffmann-La Roche Inc. Quinoxalines. 3,759,912, 9-18-73, Cl. 260-250.00r.
deRuwe, Theodorus Cornelis; and Honings, Leonardus. Piercing apparatus. 3,772,954, 11-20-73, Cl. 83-561.000.
Dervan, James T., III: *See—*
Audretsch, Leo M., Jr.; Bliss, Burtt E.; Dervan, James T., III; Elsner, Matthew; Griffith, Leroy E.; and Thorpe, Robert A., 3,742,452.
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Derwin, Louis A. Drum deheading device. 3,745,650, 7-17-73, Cl. 30-14.000.
Deryagin, Boris Vladimirovich; Bakul, Valentin Nikolaevich; Fedossey, Dmitry Valerianovich; Nikitin, Jury Ivanovich; Bochko, Anatoly Vasilievich; Ryabov, Vadim Alexandrovich; and Varnin, Valentin Pavlovich. Method of producing diamonds. 3,749,760, 7-31-73,Cl. 423-446.000.
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Desai, Ramesh R.; and Dohn, George D., to Balsa Ecuador Lumber Corporation. Structural light-weight panel of high strength, having thermal insulation properties and enclosures formed thereby. 3,773,604, 11-20-73, Cl. 161-37.000.
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DeSantis, Charles M.; and Gottfried, Arthur H., to United States of America, Army. Traveling wave device providing prebunched transverse-wave beam. 3,760,219, 9-18-73, Cl. 315-3.500.
DeSantis, Raymond P.: *See—*
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Smith, Joseph E.; DeTroyer, Georges D.; and DeSantis, Raymond P., 3,741,697.
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Desarzens, Dominique Patrice. Non boil-over cooking assembly. 3,730,167, 5-1-73, Cl. 126-386.000.
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Desbrandes, Robert, to Institut Francais du Petrole des Carburants et Lubrifiants. Method and devices for determining characteristics of geological formations by transmission of acoustic signals. 3,781,784, 12-25-73, Cl. 340-15.500.
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Desch, Kurt M. Cooling cosmetic cabinets for bathroom. 3,732,702, 5-15-73, Cl. 62-3.000.
Deschamps, Andre; Franckowiak, Sigismond; Gatellier, Claude; Glikmans, Georges; and Renault, Philippe, to Institut Francais du Petrole des Carburants et Lubrifiants. Hydrocarbon fermentation. 3,709,784, 1-9-73, Cl. 195-28.00r.
Deschamps, Andre; Franckowiak, Sigismond; and Renault, Philippe, to Institut Francais Du Petrole, des Carburants et Lubrifiants. Process for removing traces of hydrogen sulfide and mercaptans from gases. 3,716,620, 2-13-73, Cl. 423-228.000.
Deschamps, Nicholas H.; Stein, Bernard; and Mayo, Kenneth E., to Sanders Nuclear Corporation. Means and method for obtaining high temperature process fluids from low temperature energy sources. 3,716,099, 2-13-73, Cl. 165-135.000.
Deschamps, Nicholas H.; Fink, Charles R.; and Sullivan, John J., to Sanders Nuclear Corporation. Radioisotope means. 3,728,160, 4-17-73, Cl. 136-202.000.
Deschamps, Nicholas H.; and Bernier, Gerald L., to Sanders Nuclear Corporation. Thermal super insulation. 3,769,770, 11-6-73, Cl. 52-404.000.
Deschene, Clement F.: *See—*
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Deschenes, Pierre-Andre; Richetin, Marc; and Villeret, Michel, to Universite de Sherbrooke. Digital companded delta modulator. 3,757,252, 9-4-73, Cl. 332-11.00d.
Deschenes, Raymond J., to Data Card Corporation, mesne. Character recognition method and system. 3,714,631, 1-30-73, Cl. 340-146.3wd.
Deschenes, Raymond J.; and Macdonald, Robert N., to Data Card Corporation, mesne. Terminal unit for credit account maintenance system. 3,718,764, 2-27-73, Cl. 179-2.0dp.
Deschenes, Roger, to Compagnie des Freins et Signaux Westinghouse. Variable load valve. 3,749,452, 7-31-73, Cl. 303-22.00r.
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Desgrandchamps, Guy; Hemmer, Henri; and Haurie, Michel, to Societe Anonyme dite: Societe Nationale des Petroles d'Aquitaine. Propylene dimerization process. 3,714,286, 1-30-73, Cl. 260-683.15d.
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Desilets, Dennis W., to Standard Alliance Industries. Anti-back-up device for work carriers on power- and free-conveyor systems. 3,759,189, 9-18-73, Cl. 104-172.00s.
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Deslongchamps, Pierre, to Universite de Sherbrooke. Oxidation of sugars. 3,723,506, 3-27-73, Cl. 260-484.00r.
Desma-Werke Gesellschaft mit beschrankter Haftung: *See—*
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Wolf, Richard E.; and Gorman, Susan B., 3,729,483.
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Despain, Richard R.; and Flandro, Gary A., said Flandro assor. to said Despain, Richard R. Dispenser with flap valve. 3,726,436, 4-10-73, Cl. 222-213.000.
Despatch Industries, Inc.: *See—*
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Despres, Roger, to Compagnie Generale d'Automatisme. Transfer station. 3,734,266, 5-22-73, Cl. 198-24.000.
Desre, Pierre; Berthon, Olivier; and Jacquet, Michel, to Compagnie Pechiney. Dephosphorization of aluminum alloys by cadmium. 3,726,666, 4-10-73, Cl. 75-68.00r.
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Desvignes, Francois; and Doittau, Francois-Xavier, to U.S. Philips Corporation. Compensating arrangement for thermal detectors. 3,728,546, 4-17-73, Cl. 250-83.30h.
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Deszyck, Edward J., to Morris, Philip, Incorporated. Preparation of reconstituted tobacco. 3,760,815, 9-25-73, Cl. 131-140.00c.
Detalle, Bernard Andre Henri, to Societe Anonyme dite: Societe Europeenne de Propulsion. Self-propelled non-guided missiles. 3,752,425, 8-14-73, Cl. 244-3.210.
Detch, Lewis. Locking means for fluorescent lamps. 3,723,945, 3-27-73, Cl. 339-54.000.
Detergent Engineering Corporation: *See—*
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Detig, Robert H.; and Boyson, Bertrand, to Olivetti, Ing., C., & C., S.p.A. Electrographic printer with plural oscillating print heads. 3,752,288, 8-14-73, Cl. 197-1.00r.
Detjen, Edgar W.: *See—*
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Detmann, Walter; Meid, Gerhard; and Simon, Klaus, to Kalle Aktiengesellschaft. Semi-conductor alternating current regulating means. 3,749,884, 7-31-73, Cl. 219-501.000.
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Detterbeck, Heinrich, to Siemens-Electrogerate GmbH. Household appliance such as cooking stove or the like having ballast means. 3,713,719, 1-30-73, Cl. 312-352.000.
Detterbeck, Heinrich; Ackermann, Josef; and Schmalzgruber, Bruno, to Siemens-Electrogerate GmbH. Baking and roasting oven. 3,735,750, 5-29-73, Cl. 126-197.000.
Dettke, Manfred; Ludwig, Rolf; and Riedel, Wolfgang. Method of electrodepositing gold alloys. 3,749,650, 7-31-73, Cl. 204-44.000.
Dettling, Joseph R.; Farnham, John F., Jr.; and Gaines, Stephen T., to MB Associates. Intrusion detector. 3,771,152, 11-6-73, Cl. 340-258.00c.
Dettmer, Hans Juergen Dettmer, to Fischer & Porter Company. Variable area flowmeter. 3,712,134, 1-23-73, Cl. 73-209.000.
Dettmering, Wilhelm Heinrich. Jet engine for hypersonic intake velocities. 3,719,428, 3-6-73, Cl. 415-181.000.
Detzel, Josef; and Schragle, Walter, to Lever Brothers Company. Carrier packs. 3,750,874, 8-7-73, Cl. 206-65.00e.
Deubel, Hans D., to Crown Cork & Seal Company, Inc. Method and apparatus for altering the temperature of containers. 3,732,917, 5-15-73, Cl. 165-1.000.
Deubel, Justin A.; and Kuhn, Edward H., to Allen-Bradley Company. Contact pressure sustaining switch. 3,769,474, 10-30-73, Cl. 200-76.000.
Deubel, Reinhold; Diery, Helmut; Klinner, Wolfgang; List, Karl-Hermann; and Uhrig, Heinz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Dispersing and stabilizing agents for dyestuffs. 3,781,169, 12-25-73, Cl. 8-34.000.
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Deushane, Maurice L.; and Rohrer, David A., to Beckman Instruments, Inc. Electrochemical electrode liquid junction structure and method for producing same. 3,741,884, 6-26-73, Cl. 204-195.00f.
Deussen, Werner. Dosing closure. 3,767,088, 10-23-73, Cl. 222-205.000.
Deuter, Thomas F.; and Shafer, Dean E., to General Electric Company. Apparatus for making a molded electrical structure. 3,762,847, 10-2-73, Cl. 425-125.000.
Deuter, Thomas F., to General Electric Company. Pressure molded articles and moldable composition. 3,763,080, 10-2-73, Cl. 260-37.0sb.
Deutsch, Albert S.; and Poppo, Joseph M., to Polychrome Corporation. Light-sensitive compounds. 3,711,285, 1-16-73, Cl. 96-75.000.
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Deutsch, Friedrich. Ski edge. 3,751,054, 8-7-73, Cl. 280-11.13e.
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Deutscher, Hans-Christian; and Bauer, Kurt, to SWF-Spezialfabrik fur Autozubehor Gustav Rau GmbH. Windshield wiper blade construction. 3,735,443, 5-29-73, Cl. 15-250.360.

Deutschmann, Herbert; Kruczek, Wolfgang; and De Lazzer, Karl-Heinz, to Daimler-Benz Aktiengesellschaft. Line and/or space for receiving or conducting hot gases. 3,750,403, 8-7-73, Cl. 60-323.000.

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Dever, James A.; Tenan, Harry D.; and Finley, George R., to Green Ball Bearing Company, The. Tow bar means. 3,734,536, 5-22-73, Cl. 280-204.000.

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Dever, James L.; and Hodan, James J., to Borg-Warner Corporation, mesne. Phosphite-phosphates. 3,725,510, 4-3-73, Cl. 260-927.00r.

Dever, James L.; and Hodan, James J., to Borg-Warner Corporation. Phosphorus acid-carboxylic acid anhydrides. 3,766,303, 10-16-73, Cl. 260-927.00r.

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DeVillemeur, Philippe, to Etablissements A. Gregoire et L Basilleau. Safety outlet and plug device. 3,777,300, 12-4-73, Cl. 339-21.00r.

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Devine, Walter B., to Esso Research and Engineering Company. Icebreaking tank ship. 3,754,523, 8-28-73, Cl. 114-40.000.

DeViney, Terrence E.; and Brennan, Robert P., to Square D Company. Fault protection for DC motor thyristor power supplies. 3,755,712, 8-28-73, Cl. 317-13.00r.

DeVisser, Christian; and Myers, Donald Orville, to General Electric Company. Automatic electric power source transfer apparatus. 3,778,633, 12-11-73, Cl. 307-64.000.

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Devlin, John O.; and Matievich, William, to Standard Pressed Steel Co. Method of using twist-off nut to assemble a joint. 3,742,583, 7-3-73, Cl. 29-413.000.

Devlin, William A. Modular satellite. 3,709,447, 1-9-73, Cl. 244-1.0ss.

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DeVoghel, Raymond, to Glaverbel S.A. Device for supporting sheet materials. 3,759,397, 9-18-73, Cl. 211-50.000.

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DeVos, Ferdinand Allard; and Steege, Jan Hendrik Terter, to N.V. Werkspoor-Amsterdam. Method and apparatus for the seamless engraving of half-tone printing plates. 3,760,098, 9-18-73, Cl. 178-6.60b.

Devost, Valmore F., to United States of America, Navy. Shock absorber. 3,762,695, 10-2-73, Cl. 267-34.000.

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DeVries, Edward R., to Unifilm Corporation. Flatting agents, flatting compositions and method for their preparation. 3,737,402, 6-5-73, Cl. 260-29.2tn.

DeVries, Jaap: *See—*
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DeVries, Jan Willem, to Organon Inc. Process for extracting pancreas glands. 3,720,657, 3-13-73, Cl. 260-112.700.

DeVries, Louis; and Kennedy, Brian R., to Chevron Research Company. Oxidation inhibited lubricating oil compositions with extreme pressure properties. 3,753,908, 8-21-73, Cl. 252-47.500.

DeVries, Louis, to Chevron Research Company. Novel reactions of HCN, HF and olefins. 3,754,018, 8-21-73, Cl. 260-465.300.

DeVries, Richard Alan, to Minnesota Mining and Manufacturing Company. Apparatus for photographing a person while a document is handled at a work station. 3,739,698, 6-19-73, Cl. 95-1.100.

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Dewaele, Sylvain A. R.: *See—*
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Dewaele, Sylvain Achiel Raoul, to S.A. Texaco Belgium N.V. Method for the preparation of 1,2,4,5-tetrahydroxybenzene. 3,780,114, 12-18-73, Cl. 260-621.00h.

Dewald, Chester L.: *See—*
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DeWall, Richard A. Perfusion safety valve. 3,759,289, 9-18-73, Cl. 137-525.000.

Dewar, Bruce Ian, to De Beers Industrial Diamond Division, Limited. Process for metal coating diamonds. 3,779,873, 12-18-73, Cl. 204-20.000.

Dewar, Donald M.; and Wilseck, James. Drilling apparatus. 3,710,879, 1-16-73, Cl. 175-388.000.

Dewar, Robert Alfred; and Walliczek, Erwin Gunther, to Imperial Chemical Industries of Australia and New Zealand Limited. Process for the production and recovery of lead sulphate. 3,714,341, 1-30-73, Cl. 423-559.000.

Dewas, Raymond. Shuttleless loom. 3,734,142, 5-22-73, Cl. 139-123.000.

Dewey, C Forbes, Jr., to Xenon Corporation. Light pumped laser. 3,710,277, 1-9-73, Cl. 331-94.500.

Dewey, Clarence Forbes, Jr., to Massachusetts Institute of Technology. Laser system for producing wavelength-tunable optical radiation. 3,731,110, 5-1-73, Cl. 307-88.300.

Dewey, Clyde G., to General Electric Company. Redundant triggering means for HVDC valve. 3,729,670, 4-24-73, Cl. 321-11.000.

Dewey, Daniel, Jr., to Rogers Corporation. Method of forming a bus bar. 3,744,129, 7-10-73, Cl. 29-624.000.

Dewey, David B., Jr.; and Schofield, Norman W., to General Dynamics Corporation. Reinforced wall structure. 3,721,058, 3-20-73, Cl. 52-251.000.

Dewey, Earl K.: *See—*
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Dewey, Michael Albert Pike, to Fulmer Research Institute Limited. Cobalt-base alloys. 3,718,461, 2-27-73, Cl. 75-171.000.

Dewhirst, Fred Arlington, to Bell Telephone Laboratories, Incorporated. Lamp enclosure. 3,780,284, 12-18-73, Cl. 240-41.00r.

Dewhirst, Kenneth C., to Shell Oil Company. Rhodium halide complex catalyst compositions. 3,759,838, 9-18-73, Cl. 252-429.00r.

Dewhurst, Bert F. Meat slicing machine. 3,759,128, 9-18-73, Cl. 83-411.00r.

DeWiant Corporation: *See—*
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DeWitt, Bernard J.; and Martinsons, Aleksandrs, to PPG Industries, Inc. Method of coating an electrode. 3,720,590, 3-13-73, Cl. 204-37.00r.

Dewitt, Bernard J., to Nora International Company, mesne. Electrolytic cell including titanium hydride cathodes and noble-metal coated titanium hydride anodes. 3,737,157, 5-8-73, Cl. 204-268.000.

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DeWitt, John H., Jr., to Laser Systems & Electronics, Inc. Timing and measuring methods and means for laser distance measurements. 3,740,141, 6-19-73, Cl. 356-5.000.

Dewitt, Ray: *See—*
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DeWitt, William L. Hearing aid ear piece. 3,732,382, 5-8-73, Cl. 179-182.20r.

DeWolf, Howard E. Corrugated panel structure having vertically oriented columnar shapes. 3,743,568, 7-3-73, Cl. 161-68.000.

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Dexter, John B. External carriage adapter for aircraft parachute flare. 3,760,682, 9-25-73, Cl. 89-1.50d.

Dexter, Martin; Spivack, John D.; and Steinberg, David H., to Ciba-Geigy Corporation. Vinyl esters of dialkylhydroxyphenyl alkanoates. 3,708,520, 1-2-73, Cl. 260-473.00s.

Dexter, Martin; Knell, Martin; and Brunetti, Heimo, to Ciba-Geigy Corporation. Sulfur containing derivatives of dialkyl-4-hydroxyphenyltriazine. 3,709,883, 1-9-73, Cl. 260-248.0cs.

Dexter, Martin; and Steinberg, David Herbert, to Ciba-Geigy Corporation. 3,5-Dialkyl-4-hydroxyphenyl alkanoic acid ester of 2,4,6-tris (alkanolamino) derivatives of triazine. 3,709,884, 1-9-73, Cl. 260-249.600.

Dexter, Martin, to Geigy Chemical Corporation. Esters of (dialkyl-4-hydroxy-phenyl)malonic acid and related compounds. 3,721,704, 3-20-73, Cl. 260-473.00s.

Dexter, Martin; Spivack, John D.; and Steinberg, David H., to Ciba-Geigy Corporation. Metal derivatives of 3,5-di-t-butyl-4-hydroxyphenylpropionic acid. 3,723,489, 3-27-73, Cl. 260-429.700.

Dexter, Martin; Spivack, John D.; and Steinberg, David Herbert, to Ciba-Geigy Corporation. 3,5-Dialkyl-4-hydroxyphenylalkanoic acid esters of 3-hydroxy-2,2-dimethylpropyl 3-hydroxy-2,2-dimethylpropionate. 3,723,503, 3-27-73, Cl. 260-473.00s.

Dexter, Martin, to Ciba-Geigy Corporation. Benzophenone-3,4,3',4-tetracarboxylic acid diimides of 3,5-dialkyl-4-hydroxyphenylsubstituted amines. 3,734,926, 5-22-73, Cl. 260-326.00n.

Dexter, Martin; and Knell, Martin, to Ciba-Geigy Corporation. N, N'-Bis(3,5-di-t-butyl-4-hydroxyphenyl) adipamide. 3,754,031, 8-21-73, Cl. 260-559.00a.

Dexter, Martin; and Steinberg, David, to Ciba-Geigy Corporation. Poly alkanol esters of alkylthioalkanoic acids. 3,758,549, 9-11-73, Cl. 260-481.00r.

Dexter, Martin, to Ciba-Geigy Corporation. Polyolefins stabilized with organic hydrazine compounds and phenolic antioxidants. 3,772,245, 11-13-73, Cl. 260-45.85n.

Dexter, Martin, to Ciba-Geigy Corporation. Synthetic organic polymeric substances stabilized with alkylhydroxyphenylalkanoylhydrazines. 3,773,722, 11-20-73, Cl. 260-45.75c.

Dexter, Martin, to Ciba-Geigy Corporation. N-aroyl-N'-(alkylhydroxyphenyl)alkanoyhydrazines. 3,773,830, 11-20-73, Cl. 260-559.00h.

Dexter, Martin; Spivack, John D.; and Steinberg, David H., to Ciba-Geigy Corporation. Mixtures of 3-(3,5-dialkyl-4-hydroxy phenyl-propionic acid esters of alkanediols. 3,779,945, 12-18-73, Cl. 252-.404.000.

Dexter, Mertin; Spivack, John Denon; and Steinberg, David Herbert, to Ciba-Geigy Corporation. N N' Bis(3-(3,5-di-t-butyl-4-hydroxy phenyl) lower alkanoyl) piperazines. 3,763,166, 10-20-73, Cl. 260-268.00c.

Dexter, Russell S. Extensible zippered closure for boots. 3,763,579, 10-9-73, Cl. 36-50.000.

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Dexter, Theodore H.; and Bowen, Jonathan L., to Ciba-Geigy Corporation. Polyolefins stabilized with organic hydrazine compounds and phenolic antioxidants. 3,772,245, 11-13-73, Cl. 260-45.85n.

Dexter, Theodore H.; and Bowen, Jonathan L., to Ciba-Geigy Corporation. Synthetic organic polymeric substances stabilized with alkylhydroxyphenylalkanoylhydrazines. 3,773,722, 11-20-73, Cl. 260-45.75c.

Dexter, Theodore H.; and Bowen, Jonathan L., to Ciba-Geigy Corporation. N-aroyl-N'-(alkylhydroxyphenyl)alkanoyhydrazines. 3,773,830, 11-20-73, Cl. 260-559.00h.

Dexter, Theodore H.; and Bowen, Jonathan L., to Ciba-Geigy Corporation. Polyolefins stabilized with organic hydrazine compounds and phenolic antioxidants. 3,772,245, 11-13-73, Cl. 260-45.85n.

Dexter, Theodore H.; and Bowen, Jonathan L., to Ciba-Geigy Corporation. Synthetic organic polymeric substances stabilized with alkylhydroxyphenylalkanoylhydrazines. 3,773,722, 11-20-73, Cl. 260-45.75c.

Dexter, Theodore H.; and Bowen, Jonathan L., to Ciba-Geigy Corporation. N-aroyl-N'-(alkylhydroxyphenyl)alkanoyhydrazines. 3,773,830, 11-20-73, Cl. 260-559.00h.

Dexter, Theodore H.; and Bowen, Jonathan L., to Ciba-Geigy Corporation. Polyolefins stabilized with organic hydrazine compounds and phenolic antioxidants. 3,772,245, 11-13-73, Cl. 260-45.85n.

Dexter, Theodore H.; and Bowen, Jonathan L., to Ciba-Geigy Corporation. Synthetic organic polymeric substances stabilized with alkylhydroxyphenylalkanoylhydrazines. 3,773,722, 11-20-73, Cl. 260-45.75c.

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Dexter, Theodore H.; and Bowen, Jonathan L., to Ciba-Geigy Corporation. Polyolefins stabilized with organic hydrazine compounds and phenolic antioxidants. 3,772,245, 11-13-73, Cl. 260-45.85n.

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Dexter, Wilbur H.: *See—*
Demsky, Herbert M.; Dexter, Wilbur H.; Lever, Reginald F.; and Melzer, Paul A., 3,770,521.
Dey, Arabinda N.; and Holmes, Robert W., to Mallory, P. R., & Co. Inc. Lithium-metal molybdate organic electrolyte cell. 3,711,334, 1-16-73, Cl. 136-100.00r.
Dey, Arabinda N.; and Holmes, Robert W., to Mallory, P. R., & Co., Inc. Metal phosphate and metal arsenate organic electrolyte cells. 3,736,184, 5-29-73, Cl. 136-6.0ln.
Dey, Arabinda N.; and Holmes, Robert W., to Mallory, P. R., & Co., Inc. Hermetically sealed structures for organic electrolyte systems. 3,736,190, 5-29-73, Cl. 136-133.000.
Deye, Neil S.; and Kuhn, Richard B., to North American Rockwell Corporation. Apparatus and information processing methods for a tracking system tracker unit. 3,711,637, 1-16-73, Cl. 178-6.800.
Deye, Neil S.; and Kuhn, Richard B., to North American Rockwell Corporation. Tracking system tracker unit. 3,729,582, 4-24-73, Cl. 178-6.800.
Deyerl, Herman F.: *See—*
Reynolds, Robert J.; and Deyerl, Herman F., 3,736,484.
Deyerl, Herman F.; and Reynolds, Robert J. Roadbed apparatus for model vehicles. 3,780,235, 12-18-73, Cl. 191-13.000.
DeYoe, Jay W. De, Jr. Tether ball paddle having launching stations on each face. 3,737,164, 6-5-73, Cl. 273-98.000.
DeYoung, Simon Arden, to Karg Machine Products, Inc. Strand tension-controlling and spool release actuator mechanism. 3,756,533, 9-4-73, Cl. 242-156.200.
DeYoung, Simon Arden, to Kaig Machine Products, Inc. Spool release mechanism. 3,757,904, 9-11-73, Cl. 188-823.000.
Dezeeuw, John R.; and Tynan, Edward J., III, to Pfizer Inc. Fermentation process for the production of erythritol. 3,756,917, 9-4-73, Cl. 195-28.00r.
Dezelan, Joseph E., to Caterpillar Tractor Company. Make-up valve for hydraulic control circuit. 3,779,133, 12-18-73, Cl. 91-6.000.
Dezuba, George P.; Berger, Abe; and Selin, Terry G., to General Electric Company. Self-bonding, heat-curable silicone rubber. 3,730,932, 5-1-73, Cl. 260-29.1sb.
DeZurik Corporation: *See—*
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Dhaka, Vir A.: *See—*
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Dhaka, Vir A.; and Krolikowski, Walter F., to International Business Machines Corporation. Fabrication of diffused junction capacitor by simultaneous outdiffusion. 3,734,787, 5-22-73, Cl. 148-175.000.
Dhaka, Vir A., to Cogar Corporation. Photodetector packaging assembly. 3,757,127, 9-4-73, Cl. 250-227.000.
Dhami, Kewal Singh: *See—*
Aronoff, Elihu J.; and Dhami, Kewal Singh, 3,763,222.
Dheilly, Jacky, to U.S. Philips Corporation. Current supply comprising an asymmetric rectifier arrangement. 3,781,646, 12-25-73, Cl. 321-47.000.
Dhein, Rolf; Schnell, Hermann; and Raichle, Karl, to Bayer Aktiengesellschaft. "Water-dilutable" alkyd resins modified by radicals of drying fatty acids. 3,752,778, 8-14-73, Cl. 260-22.0tn.
Dhein, Rolf; Meissner, Hans-Jurgen; and Kuchenmeister, Rolf, to Bayer Aktiengesellschaft. Lacquer binders. 3,779,961, 12-18-73, Cl. 260-19.00u.
D'Heurle, Francois M.: *See—*
Ames, Irving; D'Heurle, Francois M.; and Horstmann, Richard E., 3,725,309.
Dhingra, Yog R., to Dow Chemical Company, The. Alpha chlorination of acid chlorides. 3,751,461, 8-7-73, Cl. 260-544.00y.
D'Hinterland, Lucien Jean Dussourd: *See—*
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DHJ Industries Inc.: *See—*
Froehlich, Monroe, Jr., 3,754,307.
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Dhooge, Jacque R., to Drive-In Theatre Manufacturing Company. Admission control system. 3,766,363, 10-16-73, Cl. 235-61.60r.
D'Hooge, Richard E.: *See—*
Crane, Burke J.; D'Hooge, Richard E.; and Roberts, Frank D., 3,729,771.
Di Battista, Anthony, to Ciba-Geigy Corporation. Chemically cross linked polyethylene stabilized with bis(dimethylphenol) sulfides. 3,763,095, 10-2-73, Cl. 260-45.85h.
Di Biago, Luciano: *See—*
Palombari, Maurizio; and Di Biago, Luciano, 3,725,591.
Di Chen, Enrique Bernal G., to Honeywell Inc. Optical mass memory. 3,781,905, 12-25-73, Cl. 346-74.0mt.
Di Drusco, Giovanni; and Galli, Paolo, to Montecatini Edison S.p.A. Purification of olefinic polymers obtained in liquid phase. 3,740,381, 6-19-73, Cl. 260-80.780.
Di Edwardo, Andrew; Dix, Robert; and Riggs, John, to Celanese Corporation. Acrylic fibers and films which particularly are suited for thermal stabilization. 3,779,983, 12-18-73, Cl. 260-45.70s.
Di Fiore, Lucio: *See—*
Barilli, Filippo; Lugo, Luigi; Di Fiore, Lucio; and Reni, Cesare, 3,725,255.
Calcagno, Benedetto; Ghirga, Marcello; and Di Fiore, Lucio, 3,779,943.
Cavenaghi, Carlo; Di Fiore, Lucio; Barilli, Filippo; and Calcagno, Benedetto, 3,725,257.
Di Fiore, Lucio; Divo, Claudio; and Ghirga, Marcello, to Societa Italiana Resine S.p.A. Method of separating vinyl acetate from liquid mixtures by extractive distillation with a glycol. 3,736,236, 5-29-73, Cl. 203-51.000.
Di Fiore, Lucio; Divo, Claudio; and Ghirga, Marcello, to Societa' Italiana Resine S.p.A. Method of separating vinyl acetate from liquid mixtures with plural distillations and side stream phase separation. 3,738,915, 6-12-73, Cl. 203-39.000.
Di Frank, Frank J.; Greiwe, Daniel L.; and Skudlarek, Walter R., to Owens-Illinois, Inc. Method and apparatus for collecting, stacking and handling sheet material. 3,761,078, 9-25-73, Cl. 271-18.000.
Di Frank, Frank J., to Owens-Illinois, Inc. Apparatus and method for controlling a machine for assembling cell-type carton fillers. 3,763,537, 10-9-73, Cl. 29-200.00a.
Di Frank, Frank J.; and Vogt, Thomas E., to Owens-Illinois, Inc. Method and apparatus for individually diverting selected sheets from a corrugator bridge. 3,768,644, 10-30-73, Cl. 209-74.00r.
Di Frank, Frank J.; and Greiwe, Daniel L., to Owens-Illinois, Inc. Corrugated board bundle stacker. 3,770,144, 11-6-73, Cl. 214-60.00k.
Di Fulvio, Anthony P.; and Wilson, William C., to Eastman Kodak Company. Adjustable sheet guide apparatus. 3,715,117, 2-6-73, Cl. 271-61.000.
Di Giovanni, Samuel J. Loading dock safety guard. 3,740,022, 6-19-73, Cl. 256-24.000.
Di Grasso, Leonard: *See—*
Good, William E.; Di Grasso, Leonard; and Hoffman, James D., 3,761,101.
Di Ianni, Daniel: *See—*
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Di Ianni, Daniel; and Brackmann, Warren A., to Rothmans of Pall Mall Canada Limited. Tobacco reclaiming method and apparatus. 3,757,799, 9-11-73, Cl. 131-96.000.
Di Lorenzo, James Vincent, to Bell Telephone Laboratories, Incorporated. Technique for the fabrication of a millimeter wave beam lead Schottky barrier device. 3,762,945, 10-2-73, Cl. 117-215.000.
Di Luca, Henry: *See—*
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Di Marco, Franco: *See—*
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Di Marco, Franco P., to Eckardt, J. C., AG. Apparatus for compensating an induction flow meter for fluctuations in the AC supply voltage. 3,764,895, 10-9-73, Cl. 324-34.0fl.
Di Marino, Ciampino: *See—*
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Di Martino, John: *See—*
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Di Matteo, Bartolo: *See—*
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Di Matteo, Vincent J., Jr.: *See—*
Di Matteo, Vincent J., Sr.; Di Matteo, Bartolo; and Di Matteo, Vincent J., Jr., 3,730,020.
Di Matteo, Vincent J., Sr.; Di Matteo, Bartolo; and Di Matteo, Vincent J., Jr. Connecting rod and cap construction. 3,730,020, 5-1-73, Cl. 74-579.00e.
Di Motta, Benito. Cylinder lock. 3,726,116, 4-10-73, Cl. 70-364.00a.
Di Nuzzi, Robert D.: *See—*
Hapgood, William H.; and Di Nuzzi, Robert D., 3,776,148.
Di Padova, Sergio; and Musso, Pietro, to Olivetti, Ing., C., & C., S.p.A. Interchangeable endless loop magnetic tape cartridges. 3,752,379, 8-14-73, Cl. 226-119.000.
Di Piazza, Gerald Charles; Onno, Peter; Oswald, Henry; and Schaible, Clifford Warren, to Bell Telephone Laboratories, Incorporated. System for resolving the sizes and centroid locations of buried objects. 3,775,765, 11-27-73, Cl. 343-5.00r.
Di Piazza, Learco: *See—*
Herzberger, Peter; and Di Piazza, Learco, 3,760,144.
Di Pietro, Joseph; and Stuetz, Dagobert E., to Celanese Corporation. Thermal stabilization of addition polymers. 3,769,262, 10-30-73, Cl. 260-45.70s.
Di Prospero, Peter. Pollution control device. 3,757,708, 9-11-73, Cl. 110-8.00r.
Di Rocco, James V., to Gordon Engineering Company. Sample and hold circuit. 3,716,800, 2-13-73, Cl. 328-151.000.
Di Russo, Ettore; Buratti, Massimo; and Conserva, Mario, to Societa per L'Esercizio Dell'Istituto Sperimentale Metalli Leggeri. Thermomechanical process for improving the toughness of the high strength aluminum alloys. 3,743,549, 7-3-73, Cl. 148-127.000.
Di Salvo, Salvatore; and Collazuol, Mario, to Fiat Societa per Azioni. Device for varying the directional setting of motor vehicle headlamps. 3,752,976, 8-14-73, Cl. 240-41.600.



Di Salvo, Salvatore; and Guglielmino, Francesco, to Fiat Societa per Azioni. Lampholders. 3,763,456, 10-2-73, Cl. 339-17.00d.
Di Santo, Bartel J. Grass guard for sprinkler heads. 3,762,642, 10-2-73, Cl. 239-201.000.
Di Settembrini, Antoine. Apparatus for mass producing hollow objects. 3,778,213, 12-11-73, Cl. 425-326.00b.
Di Stefano, Alfred. Pizza pie warming carrier. 3,721,803, 3-20-73, Cl. 219-387.000.
Di Stefano, Vincent, to Alice Jewelry Co. Earring with threadably adjustable means for gradual piercing of lobe. 3,760,604, 9-25-73, Cl. 63-12.000.
Di Tullio, Joseph G.; Sommers, Donald J.; and Wright, Windsor D., to GTE Sylvania Incorporated. Independently adjustable dual polarized diplexer. 3,731,236, 5-1-73, Cl. 333-9.000.
Di Veto, Hilliard R., to Burroughs Corporation. Transducing apparatus for scanning data recordable magnetic stripes. 3,753,255, 8-14-73, Cl. 340-174.10m.
Di Vincenti, Angelo D. Dental floss holder and dispenser. 3,759,272, 9-18-73, Cl. 132-92.00r.
Di-Coat Corporation: *See—*
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Diablo Systems, Inc.: *See—*
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Diagraph-Bradley Industries, Inc.: *See—*
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Diakides, Nicholas A.; and Sormberger, Richard L., to United States of America, Army. Method and apparatus for measuring image forming properties of an image display panel. 3,733,135, 5-15-73, Cl. 356-156.000.
Diamagnetics, Inc.: *See—*
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Diamanti, Sergio; Denti, Ennio; and Vercellone, Antonio, to SORIN S.p.A. Detector device for haemodialysis unit. 3,763,376, 10-2-73, Cl. 250-218.000.
Diamantides, Nicholas D., to Goodyear Aerospace Corporation. Drone guidance system and method. 3,742,495, 6-26-73, Cl. 343-5.0mm.
Diamantides, Nicholas D., to Goodyear Aerospace Corporation. Direct-gradient optical image correlation apparatus. 3,748,042, 7-24-73, Cl. 356-163.000.
Diamantoglou, Michael; Adelliker, Hans Peter; Staub, Alfred; Bosshard, Hans; and Karlen, Urs, to Ciba-Geigy AG. Anthraquinone dyestuffs. 3,752,831, 8-14-73, Cl. 260-376.000.
Diamler-Benz Aktiengesellschaft: *See—*
Burckhardt, Manfred H.; Florus, Hans-Jorg; Grossner, Horst; Krohn, Hellmut; and Stein, Hermann, 3,779,331.
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Diamond Electric Manufacturing Co., Ltd.: *See—*
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Diamond, Harold G.; and Gustine, Floyd L., to Allis-Chalmers Manufacturing Company. Electrostatic resin powder spray system having improved powder dispensing means. 3,724,416, 4-3-73, Cl. 118-7.000.
Diamond, Harold G.; and Gustine, Floyd L., to Allis-Chalmers Corporation. Powder-air venturi for electrostatic spray coating system. 3,724,755, 4-3-73, Cl. 239-15.000.
Diamond, Herrick R.: *See—*
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Diamond, Julius; and Auyang, King, to Rorer, William H., Inc. Phosphonium compounds. 3,742,064, 6-26-73, Cl. 260-606.50f.
Diamond, Julius, to Rorer, William H., Inc. Phenylphosphonium salts. 3,755,459, 8-28-73, Cl. 260-606.50f.
Diamond, Julius, to Rorer, William H., Inc. s-Triazines. 3,758,469, 9-11-73, Cl. 260-249.900.
Diamond, Julius; Douglas, George H.; and Burns, Bernard J., to Rorer, William H., Inc. 1-Substituted biguanides. 3,759,994, 9-18-73, Cl. 260-565.000.
Diamond, Julius; and Douglas, George H., to Rorer, William H., Inc. S-triazines. 3,767,656, 10-23-73, Cl. 260-249.900.
Diamond, Lew H., to Otis Elevator Company. Self-adjusting proximity detecting apparatus. 3,743,058, 7-3-73, Cl. 187-29.00r.
Diamond, Louis; and Lipscomb, William T., to University of Kentucky Research Foundation, The, mesne. Pneumotachograph. 3,718,135, 2-27-73, Cl. 128-2.080.
Diamond, Martin J.; and Needles, Howard L. Acryloxyacyl chlorides. 3,736,341, 5-29-73, Cl. 260-405.000.
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Woodward, Fred E.; Krasner, Dora A.; and Krefting, Sherman, 3,726,825.
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Diamond Tool & Die Company: *See—*
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Diamondhead Corporation: *See—*
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Dian, Walter, to Excel, Inc. Bicycle brake applying device. 3,719,104, 3-6-73, Cl. 74-489.000.

Dian, Walter; and Golden, Gerald, to Excel Incorporated. Side reflectors for bicycles and the like. 3,768,433, 10-30-73, Cl. 116-28.00r.

Diana, Guy D., to Sterling Drug Inc. 1-Phenyl-azacarbocyclic-2-imines. 3,717,648, 2-20-73, Cl. 260-293.780.

Diana, Guy D., to Sterling Drug Inc. 3-(substituted amino)-1H-isoindoles. 3,723,421, 3-27-73, Cl. 260-240.00f.

Diana, Guy D., to Sterling Drug Inc. 1,1'-Azinobis(1,2,3,4-tetrahydroisoquinolines). 3,753,994, 8-21-73, Cl. 260-288.00r.

Diana, Guy D., to Sterling Drug Inc. N,N'-bis[2-aryl-2-(hydroxy or oxo)-ethyl]-bridged-bis-carboxamides. 3,775,477, 11-27-73, Cl. 260-558.00a.

Diana, William D.: *See—*
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Dianetti, Joseph C.; and Swaminathan, Krishnaiyer, to American Optical Corporation. Ophthalmometer having alternative viewing and measuring systems. 3,776,620, 12-4-73, Cl. 351-13.000.

Dianetti, Joseph C., to American Optical Corporation. Ophthalmometer having alternative viewing and measuring systems and including an improved illumination system. 3,778,135, 12-11-73, Cl. 351-13.000.

Diano, Peter R.: *See—*
Peil, William; Diano, Peter R.; Marton, Roland M.; and Watkins, Brian J., 3,768,061.

Dianora, Mario D., to United States of America, Navy. Frequency step generator. 3,733,542, 5-15-73, Cl. 321-60.000.

Dianov, Evgeny Mikhailovich: *See—*
Bulygin, Nikolai Vladimirovich; Vinogradov, Evgeny. Alexandrovich; Gugel, Lev Genrikhovich; Dianov, Evgeny Mikhailovich; and Irisova, Natalia Alexandrovna, 3,728,640.

Dias, Fleming: *See—*
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Adler, Robert; DeVries, Adrian J.; and Dias, Fleming, 3,726,990.

Dias, Fleming, to Zenith Radio Corporation. SWIF's with special polarization for non-linear interactions. 3,713,048, 1-23-73, Cl. 332-52.000.

Dias, Fleming, to Zenith Radio Corporation. Surface wave integratable filter for coupling a signal source to a load. 3,732,441, 5-8-73, Cl. 307-295.000.

Dias, Gil M.: *See—*
Buchan, Norman S.; and Dias, Gil M., 3,736,177.

Dias, Jerry R.: *See—*
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Diassi, Patrick A., to Squibb, E. R., & Sons, Inc. 2,11,12,20-tetrola-a-norpregnanes and derivatives thereof. 3,708,501, 1-2-73, Cl. 260-340.500.

Diaz, Marcelino Torralba: *See—*
Aguirre, Jose-Maria Sistiaga; Diaz, Marcelino Torralba; Arribas, Juan-Jose Regidor; and Caride, Miguel Abalie, 3,759,752.

Diaz, Raul G.: *See—*
Andow, Paul; Guillen, David; and Diaz, Raul G., 3,778,052.

Diaz, Raul Ralph. Protection device for the operating member of a fire hydrant. 3,709,249, 1-9-73, Cl. 137-296.000.

Diaz, Rosendo Seoane. Pocket umbrella with rotary opening and closing meehanism. 3,726,295, 4-10-73, Cl. 135-25.000.

Diaz, Simon J. Well head casing seal. 3,722,587, 3-27-73, Cl. 166-88.000.

Dibble, Vaughn R., Jr.: *See—*
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Dibelius, Norman R.; and Johnson, Robert H., to General Electric Company. Steam injection system for a gas turbine. 3,747,336, 7-24-73, Cl. 60-39.550.

Dibelius, Norman R.; and Schiefer, Richard B., to General Electric Company. Shrouded combustion liner. 3,777,484, 12-11-73, Cl. 60-39.650.

Dibenedetto, Anthony J., to Rig Hammers, Inc. Method for welding vertically extending pipe sections together. 3,727,025, 4-10-73, Cl. 219-73.000.

DiBenedetto, Joseph D.; and Kisner, Walter M., to United States of America, Army. Method of forming rifling in a gun barrel by chemical milling. 3,751,313, 8-7-73, Cl. 156-16.000.

Dibonaventura, Alfred R.; and Ford, Leroy H., Jr., to Linemaster Switch Corporation, The. Safety foot control. 3,759,115, 9-18-73, Cl. 74-512.000.

Dibrell, James W.; Pennington, James; and Schutz, Frank C., to Nospil Limited. Non-spill drinking cup top. 3,730,399, 5-1-73, Cl. 222-482.000.

Dibrell, James W., to Microwire Corporation. Method of and apparatus for wire receiving and storing. 3,750,974, 8-7-73, Cl. 242-83.000.

Diccianni, Anthony M., to Laminar Flow, Inc. Filtering device. 3,729,905, 5-1-73, Cl. 55-490.000.

Dichiara, Anthony J. Automatic case slitting and flap folding apparatus. 3,733,772, 5-22-73, Cl. 53-167.000.

Dichiara, Anthony J. Quick-connect vent tube structure. 3,736,966, 6-5-73, Cl. 141-392.000.

Dichiro, Anthony: *See—*
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Dichter, Jakob. Machine for working articles of thermoplastic materials. 3,730,699, 5-1-73, Cl. 65-237.000.

Dicic, Zoran, to General Electric Company. Liquid cooling system for a rotating member. 3,760,603, 9-25-73, Cl. 62-505.000.

Dick, A. B., Company: *See—*
Bischoff, Vincent E.; and Keur, Robert I., 3,771,568.
Chapin, Leo N.; and Freed, Robert, 3,728,112.
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Dick, Charles E.: *See—*
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Dick, Clarence R.: *See—*
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Dick, Clarence R.; and Ward, Eldon L., to Dow Chemical Company, The. Amine-modified polyalkylene oxides. 3,746,678, 7-17-73, Cl. 260-2.00a.

Dick, Franklin; and Seckel, Peter H. Extruded fibrous liquid reservoir and method of making same. 3,767,520, 10-23-73, Cl. 161-175.000.

Dick, George Wilmer: *See—*
Bowen, Edward George; and Dick, George Wilmer, 3,780,230.

Dick, Heinrich: *See—*
Weinrich, Hellmut; Peltner, Johannes; Helfer, Friedrich; Dick, Heinrich; and Haeberle, Fritz, 3,749,209.

Dick, John M. Blood sample container. 3,741,400, 6-26-73, Cl. 210-516.000.

Dick, John O., to United States of America, Navy. Proximity fuze circuit. 3,745,573, 7-10-73, Cl. 343-7.0pf.

Dick, Lyonell P.: *See—*
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Dick, Melvin E., to General Motors Corporation. Engine mount assembly. 3,730,462, 5-1-73, Cl. 248-10.000.

Dick, Ralph A.: *See—*
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Hawkins, Harold V.; Dick, Ralph A.; and Eldridge, Allan E., 3,728,502.

Dick, Raymond S., to Hoerner-Waldorf Corporation. Carton opening means. 3,750,931, 8-7-73, Cl. 229-37.00r.

Dick, Robert M., to Ciba-Geigy Corporation. Accelerated test method for determining coating adherence and ability to withstand corrosion. 3,770,593, 11-6-73, Cl. 204-1.00t.

Dick, Rudolf: *See—*
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Dick, Rudolf, to Goltermann, Wandel u. Switching system for plural projection of traces on screen of single-beam cathode-ray tube. 3,721,856, 3-20-73, Cl. 315-25.000.

Dick, Rudolf, to Wandel u. Goltermann. System for measuring amplitude and phase distortion. 3,781,669, 12-25-73, Cl. 324-57.00r.





Dickakian, Ghazi Mourad, to Esso Research and Engineering Company. Method of preparing high softening point thermoplastics. 3,721,658, 3-20-73, Cl. 260-82.000.

Dickason, Richard T.; Ray, Donald J.; and Simmons, Charles D., to Ford Motor Company. Motor vehicle electrically heated windshield and backlight system. 3,752,348, 8-14-73, Cl. 219-203.000.

Dickason, William C.; VanSickle, Dale E.; and McIntire, John M., to Eastman Kodak Company. Textile fiber comprising an admixture of a polyester and an addition polymer having a triliromanespentyl group in the repeating unit of the addition polymer. 3,755,48, 8-28-73, Cl. 260-873.000.

Dicken, John A., Jr., to General Electric Company. Flow control device. 3,768,507, 10-30-73, Cl. 137-504.000.

Dicken, John A., Jr., to General Electric Company. Fluid control valve with improved diaphragm. 3,768,771, 10-30-73, Cl. 251-38.000.

Dickens, Lawrence E., to Westinghouse Electric Corporation. Semiconductor diode mounting and resonator structure for operation in the EHF microwave range. 3,775,701, 11-27-73, Cl. 331-96.000.

Dickensheets, Carlton O.; and Steizer, James G., to Globe Tool and Engineering Company, The. Piece part supply mechanism. 3,713,563, 1-30-73, Cl. 221-205.000.

Dickensheets, William E.; and Nowroski, Alvin P., to Ford Motor Company. Carburetor emission control device. 3,736,915, 6-5-73, Cl. 123-198.0dc.

Dickenson, Harvard G.; and Hoffman, Charles R. Top and bottom gate valve for removing and replacing renewable seating elements. 3,743,244, 7-3-73, Cl. 251-197.000.

Dickenson, Richard W.; deceased (by Dickenson, Winifred), to Anchor Hocking Corporation. Mast stabilizer for lift trucks. 3,780,831, 12-25-73, Cl. 187-9.000.

Dickenson, Winifred: *See—*
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Dicker International, Inc.: *See—*
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Dickerson, Henry F., 1/3 to Tampa Brass & Aluminum Corporation, mesne and 1/3 to Reynolds, Frank. Thread cutting attachment for lathes. 3,738,226, 6-12-73, Cl. 90-11.640.

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Dickerson, Richard T.: *See—*
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Dickert, George H. Snowless skis. 3,722,900, 3-27-73, Cl. 280-7.130.

Dickert, Joseph J., Jr., to Mobil Oil Corporation. Phosphorus derivatives of 4,4-disuccinimidobiphenyloxide and lubricant compositions containing same. 3,756,951, 9-4-73, Cl. 252-46.700.

Dickert, Joseph John, Jr.; and Heilweil, Israel J., to Mobil Oil Corporation. Imido polyphenyl oxides. 3,773,787, 11-20-73, Cl. 260-326.00n.

Dickert, Yancey J.: *See—*
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Dickert, Yancy J.; Thill, Bruce P.; and Steinhauer, Alfred F., to Dow Chemical Company, The. Non-greasy cosmetic lotions. 3,755,560, 8-28-73, Cl. 424-78.000.

Dickey, Charles R. Non-aqueous solutions of magnesium salts. 3,761,411, 9-25-73, Cl. 252-42.700.

Dickey, Frank R., Jr., to General Electric Company. Digital generation of quadrature samples. 3,740,655, 6-19-73, Cl. 328-166.000.

Dickey, James W.; and Youngblood, John B., to General Electric Company. Panel display device having unitary molded casing. 3,719,941, 3-6-73, Cl. 340-381.00r.

Dickey, John J., to Aluminum Company of America. Container closure. 3,771,683, 11-13-73, Cl. 215-39.000.

Dickey, John W., to Fifth Third Bank, The, mesne. Method of heat sealing a pair of closures with a magnetic susceptible material and high frequency alternating and steady magnetic fields. 3,730,804, 5-1-73, Cl. 156-272.000.

Dickey, Joyce Prince. Loom. 3,708,839, 1-9-73, Cl. 28-15.000.

Dickey, K. Shirlan, to Hewlett-Packard Company. Paper transport structure for recorder comprising foldable face plate. 3,731,318, 5-1-73, Cl. 346-145.000.

Dickey, Milton G., to Farmers Tractor and Equipment Company. Cultivator fender assembly. 3,743,031, 7-3-73, Cl. 172-513.000.

Dickey, Weldon G. Flow conductor coupling. 3,776,577, 12-4-73, Cl. 285-31.000.

Dickey-John Corporation: *See—*
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Fathauer, George H.; and Fathauer, David F., 3,723,989.
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Dickie, John P.; Harju, Philip H.; and Kostishack, David, to Koppers Company, Inc. Method for directly developing a relief image in a polymerizable composition. 3,732,097, 5-8-73, Cl. 96-35.100.

Dickie, Ray A.; Johnson, Olin B.; and Labana, Santokh S., to Ford Motor Company. Electrodeposition of coating materials comprising particulate elastomers. 3,761,371, 9-25-73, Cl. 204-181.000.

Dickie, Robert J.: *See—*
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Dickie, Robert J., to Singer Company, The. Gyroscope pickoff means. 3,779,087, 12-18-73, Cl. 74-5.000.

Dickinson, Bryan J., to FMC Corporation. Air motor. 3,730,054, 5-1-73, Cl. 91-491.000.

Dickinson, Bryan J., to FMC Corporation. Fill passage oil strainer. 3,749,248, 7-31-73, Cl. 210-238.000.

Dickinson, Clarance B. System for use in conducting aircraft check lists. 3,713,090, 1-23-73, Cl. 340-27.00r.

Dickinson, David J.: *See—*
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Dickinson, George Alfred, to Pilkington Brothers Limited. Manufacture of float glass. 3,771,985, 11-13-73, Cl. 65-99.00a.

Dickinson, John, & Co., Limited: *See—*
Simpson, John William; and Mayo, Arthur John, 3,756,127.

Dickinson, John D., to Westinghouse Electric Corporation. Turbine with load force determining device. 3,764,098, 10-9-73, Cl. 248-2.000.

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Dickman, Allen C.; Roess, Theodore L.; and Mathewson, George R., to Textron Inc. Multi-channel analog multiplier and systems. 3,728,535, 4-17-73, Cl. 235-194.000.

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Schuller, Eduard; Dickopp, Gerhard; and Rainer, Wolfgang, 3,767,865.

Dickore, Karlfried; and Eue, Ludwig. Triazolo triazinones. 3,759,910, 9-18-73, Cl. 260-249.500.

Dickow, Frederick P.; and Lambert, Clifford H. Expansion shell assembly. 3,726,181, 4-10-73, Cl. 85-75.000.

Dickson, Colin G.; and Wickersheim, Kenneth A., to Spectrotherm Corporation. Tiltable instrument support head. 3,740,011, 6-19-73, Cl. 248-183.000.

Dickson, Le Roy David, to International Business Machines Corporation. Diffraction grating beam splitter. 3,767,310, 10-23-73, Cl. 356-218.000.

Dickson Paper Fibre, Inc.: *See—*
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Dickstein, George. Protective helmet structure. 3,711,864, 1-23-73, Cl. 2-3.00r.

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Dicom Industries: *See—*
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Didde, Alfonsus Augustinus Maria; and Velenture, Gerard Johannes, Dieckmann, Rolf F. Stribee assembly for

Didde, Alfonsus Augustinus Maria; and Velenture, Gerard Johannes Petrus, to U.S. Philips Corporation. Connection for the signal plate of a television camera tube. 3,766,425, 10-16-73, Cl. 315-10.000.

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Didek, Stanislav; and Svec, Zdenek, to Vyzkumny Ustav Bavlnarsky. Apparatus for separating fibers from fibrous sliver. 3,762,144, 10-2-73, Cl. 57-58.910.

Dides, Robert, to Aktiengesellschaft Brown, Boveri & Cie. Gas-blast circuit breaker. 3,745,282, 7-10-73, Cl. 200-148.00b.

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Didycz, William J., to United States Steel Corporation. Process for stripping hydrogen cyanide from pyridine salt solutions. 3,745,166, 7-10-73, Cl. 260-296.00d.

Didycz, William J.; and Seabury, Almon D., to United States Steel Corporation. High service temperature pressure sensitive device. 3,780,793, 12-25-73, Cl. 165-47.000.

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Diebold, Adolf; Sinn, Richard; and Schnell, Georg, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Manufacture of abrasion-resistant magnetic recording media. 3,730,852, 5-1-73, Cl. 204-38.00b.

Diebold, Fritz. Lace tensioning device for shoes, boots and the like. 3,731,350, 5-8-73, Cl. 24-140.000.

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Dulaney, George K., 3,719,349.
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Diebold, James L.; and Wolf, Milton, to American Home Products Corporation. Novel spiro 2H-3,1-benzoxazine derivatives. 3,711,476, 1-16-73, Cl. 260-244.00r.

Diebold, James L.; and Wolf, Milton, to American Home Products Corporation. 2-Amidinohydrazono-glyoxylanilide derivatives. 3,714,253, 1-30-73, Cl. 260-562.00n.

Diebold, James L.; and Wolf, Milton. Semicarbazidopenicillin saccharimides. 3,726,860, 4-10-73, Cl. 260-239.100.

Diebold, James L.; and Wolf, Milton, to American Home Products Corporation. Ureido derivatives of 6-aminopenicillanic acid saccharimide. 3,726,861, 4-10-73, Cl. 260-239.100.

Diebold, James L.; Sanet, Joel S.; and Wolf, Milton, to American Home Products Corporation. Penicillins derived from the reaction of enamines with 6-isocyanatopenicillanic acid saccharimide. 3,734,903, 5-22-73, Cl. 260-239.100.

Diebold, James L.; and Wolf, Milton, to American Home Products Corporation. Carbamate and thiocarbamate derivatives of 6-isocyanato penicillanic acid saccharimide. 3,734,906, 5-22-73, Cl. 260-239.100.

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Diebold, James P., to United States of America, Navy. Encapsulation of nitronium perchlorate employing ammonia to form ammonium perchlorate. 3,728,169, 4-17-73, Cl. 149-5.000.

Dieckmann, Edward R. Balance board game. 3,761,084, 9-25-73, Cl. 273-1.00r.

Dieckmann, Ralf E. Striker assembly for firearms. 3,713,241, 1-30-73, Cl. 42-69.00b.

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Diederich, Warren B. Method of utilizing junk cars to produce building blocks. 3,733,675, 5-22-73, Cl. 29-403.000.

Diedrich, Bernd; and Keil, Karl Diether, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of polyolefins. 3,773,735, 11-20-73, Cl. 260-88.20r.

Dieffenbacher, George W.; and Hadcock, Harold E., to General Electric Company. Method for removing a metalized device from a surface. 3,710,432, 1-16-73, Cl. 29-426.000.

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Diehl, Elmer Paul, to General Electric Company. Process controller with gain-changing circuitry. 3,708,754, 1-2-73, Cl. 330-1.00a.

Diehl, Francis L., to Procter & Gamble Company, The. Detergent compositions containing carboxylated polysaccharide builders. 3,723,322, 3-27-73, Cl. 252-89.000.

Diehl, G., Mateer Co.: *See—*
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Diehl, H. L., Co., Inc.: *See—*
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Diehl, John A., 1/2 to Hayes, Richard H. System for measurement of volume of flow of a flowable granular-like material. 3,774,446, 11-27-73, Cl. 73-194.00r.

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Diekhoff, Hans H.; and Schrecker, Howard D., to Aluminum Company of America. Tab element. 3,741,141, 6-26-73, Cl. 113-1.00f.

Diekman, John D.: *See—*
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Dienes, Andrew; Ippen, Erich Peter; Kogelnik, Herwig Werner; and Shank, Charles Vernon, to Bell Telephone Laboratories, Incorporated. Compensated folded resonator. 3,731,224, 5-1-73, Cl. 331-94.500.





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Diepart, Paul; Gransart, Philippe; and Maitrias, Gerard, to Burroughs Corporation. Keyboard strobe filter for static keyboards. 3,749,940, 7-31-73, Cl. 307-247.00a.

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Dierolf, Arthur Jack, to United States of America, Navy. Dense propellant containing fluoropolymers and heavy metal component. 3,753,813, 8-21-73, Cl. 149-19.000.

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Diersbock, Gunther Rudolph, to Timex Corporation. Quartz controlled chronometer. 3,766,729, 10-23-73, Cl. 58-23.00d.

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Dietch, Leonard; and Lerner, Martin L., to Zenith Radio Corporation. Cathode ray tube reclamation process. 3,781,076, 12-25-73, Cl. 316-2.000.

Dieteman, Francis E.; and Coda, Nello, to Erie Technological Products, Inc. Method of making lead and solder preform assembly. 3,731,368, 5-8-73, Cl. 29-470.100.

Dietemeyer, Stanley A., to Reliance Electric Company. Electronic weighing system with digital readout. 3,777,828, 12-11-73, Cl. 177-165.000.

Dieter, Helmut. Article holding device. 3,738,551, 6-12-73, Cl. 224-26.00r.

Dieter Jaworck; Wolfgang, Gruber; and Ulrich, Bergmeyer Hans, to Boehringer Mannheim Gesellschaft mit beschrankter Haftung. Water-insoluble carrier-bound proteins. 3,775,253, 11-27-73, Cl. 195-63.000.

Dieter, Jerry A.; Wolgemuth, Larry G.; and Ryan, Thomas J., to Atlantic Richfield Company. Catalytic process for preparing foam from a nitrile carbonate and a nucleophilic compound. 3,746,667, 7-17-73, Cl. 260-2.50a.

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Dietrich, Bernhard; and Huber, Erich, to Schaltbau Gesellschaft mit beschrankter Haftung. Single switch with multiple transverse actuation. 3,737,604, 6-5-73, Cl. 200-153.0lb.

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Dietrich, Heinz J.; and Steiger, Edward L., to Owens-Illinois, Inc. Preparation of liquid-crystal compounds. 3,743,681, 7-3-73, Cl. 260-566.00f.

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Dietrich, Henri; and Lehmann, Claude, to Ciba-Geigy Corporation. p-(Acetoacetamidoalkyl)benzenesulfonamide derivatives. 3,708,493, 1a2-73, Cl. 260-309.700.
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Dietrich, Henri; and Lehmann, Claude, to Ciba-Geigy Corporation. p-Carbamoylethylphenylsulfonyl derivatives. 3,712,905, 1-23-73, Cl. 260-309.700.
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Dietrich, Henri; and Lehmann, Claude, to Ciba-Geigy Corporation. p-Aminoalkylbenzenesulfonamide derivatives. 3,729,462, 4-24-73, Cl. 260-309.700.
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Nordling, K. Fredrik; and Huey, Samuel T., 3,778,555.
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Marino, Francis C., 3,746,927.
Digneffe, Henri Joseph, to RCA Corporation. Protective switching circuit for providing power to a load from an alternating current source having peak-to-peak excursions within or above a given range. 3,742,337, 6-26-73, Cl. 323-19.000.
Dilanni, Daniel: *See—*
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Dijet Industrial Company, Limited: *See—*
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Dijkhutzen, Willem, to Schotten-Honig Research N.V. Water-extended polyester and epoxy resins. 3,726,819, 4-10-73, Cl. 260-22.0cb.
Dijkstra, Homme, to U.S. Philips Corporation. Brush construction for a small electrodynamic machine. 3,714,481, 1-30-73, Cl. 310-244.000.
Dikhoff, Johannes Aloysius Maria; De Boer, Franciscus Jacobus; and Barneveld, Dirk, to U.S. Philips Corporation. Method of recovering a rare earth phosphor. 3,763,050, 10-2-73, Cl. 252-301.40r.
Dikinis, Daumantas V.; and Yuen, Moon H., to Bechtel International Corporation. In-line motor heater circuit. 3,717,804, 2-20-73, Cl. 318-436.000.
Dikoff, Joseph K. Cordless iron apparatus. 3,745,676, 7-17-73, Cl. 38-96.000.
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Shahan, James F.; and Hofmann, Richard D., 3,760,859.
Dilay, Walter; and Zulinski, Edward J., to Ford Motor Company. Cooling apparatus for semiconductor devices. 3,768,548, 10-30-73, Cl. 165-47.000.
Dildy, Clell A., Jr., to United States of America, Navy. Waveform synthesizer. 3,778,814, 12-11-73, Cl. 340-347.0da.
Dileone, Roland Ralph: *See—*
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Diletti, Friedhelm: *See—*
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Dill, Dale R.: *See—*
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Dill, Ernest F. Toy gun. 3,727,344, 4-17-73, Cl. 46-175.000.
Dill, Hans G.: *See—*
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Dill, Hans G. Rotating ring display. 3,712,046, 1-23-73, Cl. 58-45.000.
Dill, Hans G. Three-phase rotating ring display. 3,750,151, 7-31-73, Cl. 340-379.000.
Dill, Hans G., to Hughes Aircraft Company. High frequency electronic watch with low power dissipation. 3,757,510, 9-11-73, Cl. 58-23.00r.
Dill, Hans G. Three phase rotating ring display with multistator windings. 3,760,410, 9-18-73, Cl. 340-378.00r.
Dill, Onnie R. Vibratory massaging device. 3,727,607, 4-17-73, Cl. 128-33.000.
Dill, Walter R., to Halliburton Company. Oil soluble diverting material and method of use for well treatment. 3,724,549, 4-3-73, Cl. 166-282.000.
Dillard, George M.; and Antoniak, Charles E., to United States of America, Navy. Method and means for performing distribution-free detection of signals in noisc. 3,775,770, 11-27-73, Cl. 343-100.0cl.
Dillard, John W.; Tringali, Dominick; Swartz, Richard L.; and Hinson, Ernest M., Jr. Automatic article sorting and punching machine. 3,767,113, 10-23-73, Cl. 234-40.000.
Dillard, Paul A., to TRW Inc. Folding thin-film deployable panel structure. 3,756,858, 9-4-73, Cl. 136-89.000.
Dillard, Paul A. Expandable room for portable living quarters. 3,778,100, 12-11-73, Cl. 296-23.00g.
Dillarstone, Alan, to Colgate-Palmolive Company. Device for dryer applied textile conditioners. 3,736,668, 6-5-73, Cl. 34-60.000.
Dille, Alfred; and Thamm, Udo, to Hansel, Otto, GmbH, Firma. Apparatus for insertion of sweet parts, in particular of pralines, in wrapping cases. 3,735,556, 5-29-73, Cl. 53-240.000.
Dille, Kenneth L.: *See—*
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Dille, Kenneth L.; Saines, George S.; and Arkell, Alfred, to Texaco Development Corporation, mesne. Jet fuel manufacture. 3,773,652, 11-20-73, Cl. 208-49.000.
Dille, Roger M.: *See—*
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Schlinger, Warren G.; Slater, William L.; Dille, Roger M.; and Tassoney, Joseph R., 3,764,547.
Tassoney, Joseph P.; and Dille, Roger M., 3,725,270.
Dille, Roger M.; and Schlinger, Warren G., to Texaco Inc. Synthesis gas production by partial oxidation. 3,752,771, 8-14-73, Cl. 252-373.000.
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Dillenbeck, Warren H.; Muench, Paul W.; and Walker, Elmo R., to Borg-Warner Corporation. Method and apparatus for removing moisture from a refrigeration system. 3,710,585, 1-16-73, Cl. 62-85.000.
Dillenberg, Horst. Electrolytic plating of tin-nickel, tin-cobalt or tin-nickel-cobalt on a metal base and acid bath for said plating. 3,772,168, 11-13-73, Cl. 204-43.00s.
Dillenberger, Karl, to Bosch, Robert, Elektronik G.m.b.H. Directional broadband coupler arrangement. 3,766,499, 10-16-73, Cl. 333-10.000.
Dillenburg, Helmut: *See—*
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Dillenburger, Wolfgang; and Krause, Gerhard, to Fernseh G.m.b.H. Method for delaying wide band electrical signals. 3,755,621, 8-28-73, Cl. 178-5.40r.
Dillenschneider, Jean-Paul, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Nickel-coated steel core wires and cables. 3,749,558, 7-31-73, Cl. 29-191.600.
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Dilli, Frederick H.; and Konnerth, Karl L., Jr., to International Business Machines Corporation. System for performing spectral analyses under computer control. 3,751,643, 8-7-73, Cl. 235-151.320.
Dilli, Sergio: *See—*

Garnett, John Lyndon; and Dilli, Sergio, 3,748,241.
Dillies, Pierre. Process and apparatus for the treatment of loose materials such as textile fibres. 3,729,290, 4-24-73, Cl. 8-149.200.
Dillin, Arthur J.: *See—*
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Dillinger, Lester L. Portable power driven surface finishing device. 3,758,994, 9-18-73, Cl. 51-241.00s.
Dillinger, Lester L. Non-clogging tube cleaning device. 3,771,187, 11-13-73, Cl. 15-104.10r.
Dillinger, Robert B.: *See—*
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Dillinger, Robert B.; and Payne, Howard H., to United States of America, Navy. Penetrator projectile. 3,754,507, 8-28-73, Cl. 102-52.000.
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Dillman, Ned E.; Gillund, Arden G.; Muth, Victor O.; and Recupito, Pasquale, to General Motors Corporation. Vehicle inflatable cushion actuation and monitoring circuit. 3,714,627, 1-30-73, Cl. 340-52.00h.
Dillman, Richard F.; Larsen, James L.; and Iverdoch, Richard N., to Hewlett-Packard Company. High frequency filter apparatus. 3,757,258, 9-4-73, Cl. 333-73.000.
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Dillman, Thayer L.: *See—*
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Dillmann, Eugene Roland. Vehicle overturn preventer. 3,712,405, 1-23-73, Cl. 180-104.000.
Dillmann, Eugene Roland. Vehicle overturn preventer. 3,753,474, 8-21-73, Cl. 180-104.000.
Dillon, Brian D.; and Long, Robert L., to Eastman Kodak Company. Cushioning material. 3,746,605, 7-17-73, Cl. 161-122.000.
Dillon, James J.: *See—*
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Dillon, Janus J., to FEI, Inc., mesne. Method for washing and chilling eviscerated fowl. 3,729,773, 5-1-73, Cl. 17-11.000.
Dillon, Janus J., to Food Equipment Inc. Multiple fowl carrying apparatus. 3,751,762, 8-14-73, Cl. 17-11.00r.
Dillon, Janus J., to Food Equipment, Inc. Eviscerate waste handling system. 3,760,457, 9-25-73, Cl. 17-11.000.
Dillon, John N. Catamaran. 3,742,886, 7-3-73, Cl. 114-61.000.
Dillon, John R. Method for making tubing. 3,740,284, 6-19-73, Cl. 156-171.000.
Dillon, Joseph A., to Garlock, Inc., mesne. Process for non-destructive radiation degradation of polytetrafluoroethylene. 3,766,031, 10-16-73, Cl. 204-159.200.
Dillon, Neil J.; and Sincich, Boris R., to TRW Data Systems, Inc. Digital computer and form reader for inventory control and recording cash transactions. 3,751,637, 8-7-73, Cl. 235-61.90a.
Dillon, Richard H. F. Self-propelled vehicle system for use in transfer of materials. 3,707,922, 1-2-73, Cl. 104-114.000.
Dillon, Ronald D.: *See—*
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Dillon, Tony R. Method of producing an ornamental concrete surface. 3,737,511, 6-5-73, Cl. 264-256.000.
Dillow, Dorris Leon. Fuel vaporizer for internal combustion engines. 3,780,714, 12-25-73, Cl. 123-122.0aa.
Dilo, Richard. Method of making a tubular needled web. 3,758,926, 9-18-73, Cl. 28-72.20r.
Dilts, Robert L. Blood specimen oscillator. 3,747,900, 7-24-73, Cl. 259-57.000.
Dilworth, Robert H., III, to Ortec, Incorporated. Process for particle separation. 3,712,859, 1-23-73, Cl. 204-180.00g.
Dilworth, Thomas E., Jr., to United States of America, Army. Hinge. 3,758,919, 9-18-73, Cl. 16-163.000.
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DiMarzio, Richard F. Simulated hockey goalie. 3,765,675, 10-16-73, Cl. 273-1.00b.
Dimeler, Glenn R.: *See—*
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Dimension Weld International Corporation, The: *See—*
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Kuroda, Minoru, 3,758,358.
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Dimeo, Frank N.: *See—*
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Dimick, Keene Paul, to Lifecycles, Inc. Programmed bicycle exercisor. 3,767,195, 10-23-73, Cl. 272-73.000.
Dimitracopoulos, Panayotis C. Audiovisual slides and data-record cards. 3,717,407, 2-20-73, Cl. 353-120.000.
Dimitracopoulos, Panayotis C. Audio and audiovisual apparatus with pincers-like rotating arm. 3,730,618, 5-1-73, Cl. 353-19.000.
Dimitriou, Christos: *See—*
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Dimitrov, Atanas Vasilev; and Stoilov, Nicola Demov, to DSO "ZMM". Tool magazine. 3,762,568, 10-2-73, Cl. 211-1.500.
Dimitry, Edward A., to APM Corporation. Multiple purpose sealing washer for threaded and cylindrical shanks. 3,726,178, 4-10-73, Cl. 85-1.0dp.
Dimmer, Robert P., to GTE Automatic Electric Laboratories, Incorporated. 3 to 10 port conference circuit. 3,767,861, 10-23-73, Cl. 179-1.0cn.
Dimmick, Roger F.: *See—*
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Dimmick, Roger F., to International Business Machines Corporation. Pneumatic valve. 3,724,479, 4-3-73, Cl. 137-83.000.
Dimmock, John D.: *See—*
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Dimmock, John O.; Melngailis, Ivars; and Strauss, Alan J., to Massachusetts Institute of Technology. Method and means of construction of a semiconductor material for use as a laser. 3,748,593, 7-24-73, Cl. 331-94.50h.
Dimomi, Masami. Method of making fungicidal substance against candida and candida-like, yeast-like fungi. 3,753,862, 8-21-73, Cl. 195-96.000.
Dimond, Harold L.: *See—*
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Dimond, Harold L. Teaching aid. 3,721,151, 3-20-73, Cl. 84-398.000.
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Dinaco, Inc.: *See—*
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Dinapoli, Nicholas; Friedman, Donald; Nicholls, Robin P.; Wilcox, Howard A.; and Wood, Charles E., to Minicars, Inc. Mileage recording. 3,754,122, 8-21-73, Cl. 235-92.0tn.
Dinbergs, Kornelius, to Goodrich, B. F., Company, The. Stabilization of dimethylformamide. 3,758,577, 9-11-73, Cl. 260-561.00r.
Dineen Enterprises, Inc.: *See—*
Dineen, William R., 3,710,241.
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Dinella, Donald; and Kenney, John Thomas, to Western Electric Company, Incorporated. Method of metal coating an epoxy. 3,758,332, 9-11-73, Cl. 117-47.00a.
Dinelli, Dino; and Cognigni, Franco. Preparation of fibers containing fibers. 3,715,277, 2-6-73, Cl. 195-63.000.
Dines, Martin B., to Esso Research and Engineering Company. Complexes of monovalent copper and silver salts derived from fluorocarbon substituted sulfonic acid. 3,763,200, 10-2-73, Cl. 260-430.000.
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Dinger, Leon Joel, to AMP Incorporated. Heat shrinkable preinsulated electrical connector and method of fabrication thereof. 3,708,611, 1-2-73, Cl. 174-84.00c.
Dinger, Leon Joel, to AMP Incorporated. Closure device for flexible tubing. 3,713,622, 1-30-73, Cl. 251-10.000.
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Dinges, Wolfgang, to Lacoray S.A. Apparatus for monitoring liquid flow. 3,737,886, 6-5-73, Cl. 340-244.00r.



Dingler, Helmuth: *See—*
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Dingwall, Andrew Gordon Francis; and Jorgensen, John Mulliner, to RCA Corporation. Circuit for improving operation of semiconductor memory. 3,714,638, 1-30-73, Cl. 340-173.00r.
Dinh-Nguyen, Nguyen; and Raal, Aino, to Incentive Research & Development Aktiebolag. Method for the preparation of carboxylic acids by an oxidizing decomposition of organic compounds containing longer carbon chains. 3,717,664, 2-20-73, Cl. 260-413.000.
Dinkel, Anton H. Constructional assembly, e.g. for constructing buildings, containers and vehicle bodies. 3,766,699, 10-23-73, Cl. 52-592.000.
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Dinkler, Leonard R.; and Evjen, John M., to General Electric Company. Battery cooling system. 3,745,048, 7-10-73, Cl. 136-166.000.
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Dinnerstein, Albert J., to Metaframe Corporation. Aquarium. 3,738,319, 6-12-73, Cl. 119-5.000.
Dinning, Robert W., to Brown Oil Tools, Inc. Surface operated, subsurface safety valve assembly. 3,763,932, 10-9-73, Cl. 166-72.000.
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Dinsdale, Vern Thomas; Redd, Russell, Jr.; and Meyer, Robert E., to Thiokol Chemical Corporation. Castable illuminant flare composition. 3,723,206, 3-27-73, Cl. 149-19.000.
Dinsdale, Vern Thomas; Reed, Russell, Jr.; and Meyer, Robert E., to Thiokol Chemical Corporation. Method for making a pyrotechnic device. 3,736,206, 5-29-73, Cl. 156-293.000.
Dinse, Wilhelm. Single-pole electrical connector. 3,771,099, 11-6-73, Cl. 339-16.00r.
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Diolot, Lucien, to Societe Nouvelle Spidem. Rolling mill employing non-variable prestressing. 3,733,870, 5-22-73, Cl. 72-245.000.
Dion, C. Norman; and Maruyama, Dennis T., to Memorex Corporation. Spiral recording with error checking. 3,740,736, 6-19-73, Cl. 340-174.10g.
Dion, C. Norman; and Maruyama, Dennis T., to Memorex Corporation. Method of certifying magnetic recording disc. 3,781,835, 12-25-73, Cl. 340-174.10b.
Dion, Paul A.; and Hagarman, Paul O., to Polymetallurgical Corporation. Manufacture of clad metals. 3,714,701, 2-6-73, Cl. 29-474.100.
Dion, Paul A.; and Hagarman, Paul O., to Polymetallurgical Corporation. Rotary hollow milling cutter. 3,762,007, 10-2-73, Cl. 29-103.00r.
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Dirks, Gerhard, to Dirks Electronics Corporation. Method and system for sorting without comparator. 3,714,634, 1-30-73, Cl. 340-172.500.
Dirks, Gerhard H.; and Schenck, Paul F., to Dirks Electronics Corporation. Multiport data storage transfer system. 3,763,473, 10-2-73, Cl. 340-172.500.
Dirne, Adrianus Petrus; and Raymakers, Adrianus Marinus, to U.S. Philips Corporation. Method of manufacturing a regenerator. 3,742,578, 7-3-73, Cl. 29-419.000.
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DiSalvo, Salvatore; and Guglielmino, Francesco, to Fiat Societa per Azioni. Lamp for illuminating rear license plates of motor vehicles. 3,754,131, 8-21-73, Cl. 240-7.10g.
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Dishal, Milton; and Baran, Henri, to International Telephone and Telegraph Corporation. Selection and processing system for signals, including frequency discriminator. 3,732,500, 5-8-73, Cl. 328-167.000.
Dishal, Milton; and Baran, Henri, to International Telephone and Telegraph Corporation. Selection and processing system for signals including frequency discriminator. 3,781,705, 12-25-73, Cl. 331-17.000.
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Dismore, Paden F., to Du Pont de Nemours, E. I., and Company. Preservation of polyamidic membranes. 3,710,945, 1-16-73, Cl. 210-321.000.

Dismukes, Newton B., to Mobil Oil Corporation. Method and apparatus for obtaining an improved gravel pack. 3,708,013, 1-2-73, Cl. 166-276.000.

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Disselnkotter, Hans, to Farbenfabriken Bayer Aktiengesellschaft. 3-Substituted-6-chloro-2H-1, 3-oxazine-2,4 (3H)-dione. 3,725,402, 4-3-73, Cl. 260-244.00r.

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Ditman, John L., to Penril Data Communications, Inc. Zero-lock print wheel apparatus. 3,771,442, 11-13-73, Cl. 101-99.000.

Ditscheid, Hans L., to Eastman Kodak Company. Microfilm reader. 3,720,464, 3-13-73, Cl. 353-27.000.

Ditscheid, Hans Leo, to Felten & Guilleaume Kabelwerke Aktiengesellschaft. Insulating space for high-frequency coaxial cables and electrical fittings associated with it. 3,758,700, 9-11-73, Cl. 174-28.000.

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Dittrich, Werner, to Dynamit Nobel Aktiengesellschaft. Paints and coatings. 3,778,280, 12-11-73, Cl. 106-1.000.

Dittrich, Wolfgang; and Gohde, Wolfgang. Apparatus and methods for flow photometry of particles of a dispersion. 3,738,759, 6-12-73, Cl. 356-208.000.

Dittrich, Wolfgang M.; and Gohde, Wolfgang H. Flow-through chambers for photometers to measure and count particles in a dispersion medium. 3,761,187, 9-25-73, Cl. 356-246.000.

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Divine, William T., 1/2 to Buerge, Frank Orville. Apparatus for loading particulate materials such as fescue seed from a field into hauling carriers. 3,756,003, 9-4-73, Cl. 56-344.000.

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Dix, James S.; and Reed, Jerry O., to Phillips Petroleum Company. Carbon black pigmented flame retardant thermoplastic polymer compositions stabilized against degradation at polymer melt temperatures. 3,767,613, 10-23-73, Cl. 260-41.00b.

Dix, Michael P.; and La Costa, Nicholas J., to AAI Corporation. Ammunition arrangement. 3,776,136, 12-4-73, Cl. 102-38.000.

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Dixon, Don P.; and Bertva, John T. Automobile air conditioning system. 3,724,232, 4-3-73, Cl. 62-244.000.

Dixon, George S., Jr.; Gilbert, Edward O.; and Robaszkiewicz, Gerald D., to Reliance Electric Company. Elevator electronic position device. 3,773,146, 11-20-73, Cl. 187-29.00r.

Dixon, Harold G.; and Ferrekk, Harold M., to Sperry Rand Corporation. Marine engine room monitor and control system. 3,723,750, 3-27-73, Cl. 307-64.000.

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Dixon, Harry E. Device for indicating slope of green on golf course. 3,751,819, 8-14-73, Cl. 33-389.000.

Dixon, Jack Kenneth. Facing walls of buildings. 3,731,441, 5-8-73, Cl. 52-204.000.

Dixon, James E. Cue ball direction indicating apparatus for use in playing pool. 3,711,091, 1-16-73, Cl. 273-2.000.

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Dixon, Melvyn; and Kurtzig, Arjeh Jehuda, to Bell Telephone Laboratories, Incorporated. Hydrogen annealing of substituted magnetic garnets and materials so produced. 3,759,745, 9-18-73, Cl. 117-237.000.

Dixon, Norman E., to United States of America, Atomic Energy Commission. Ultrasonic apparatus and method for nondestructively measuring the physical properties of a sample. 3,720,098, 3-13-73, Cl. 73-67.700.

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Dixon, Richard Wayne; Ralston, James Michael; and Rosenzweig, Walter, to Bell Telephone Laboratories, Incorporated. Apparatus for measuring electroluminescent device parameters. 3,752,980, 8-14-73, Cl. 250-552.000.

Dixon, Robert P., to General Electric Company. Testing arrangement for a data communication system. 3,721,958, 3-20-73, Cl. 340-146.1ba.

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Dixon, Thomas E.; Herr, Robert W.; and Sigl, Edward D., to Bowmar Instrument Corporation. Solenoid valve with nozzle. 3,731,881, 5-8-73, Cl. 239-585.000.

Dixon, Thomas P., to United Aircraft Corporation. Aerodynamic blade root end attachment. 3,734,642, 5-22-73, Cl. 416-61.000.

Dixon, Thomas P., to United Aircraft Corporation. Rotor blade construction and method. 3,768,922, 10-30-73, Cl. 416-61.000.

Dixon, William D., to Monsanto Company. Imidoylbenzenesulfonamides. 3,714,247, 1-30-73, Cl. 260-556.0ar.

Dixson, Donn Lewis, to Combustion Engineering, Inc. Ion exchange method. 3,745,114, 7-10-73, Cl. 210-33.000.

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Dobell, Curzon, to Aquavoir Holding Company S.A. Method and apparatus of collecting rainwater. 3,730,120, 5-1-73, Cl. 114-.50r.

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Dobinson, Bryan; Stark, Bernard Peter; and Young, Eric Whichell, to Ciba-Geigy AG. Curable mixture of epoxide resins and polymercaptans. 3,746,685, 7-17-73, Cl. 260-47.0ec.

Dobinson, Bryan; Massey, Derek James Rowland; Winterbottom, Kenneth; and Robinson, Brian, to Ciba-Geigy AG and I.W.S. Nominee Company, Limited. Treatment of keratinous fibres and fabrics. 3,753,649, 8-21-73, Cl. 8-127.600.

Dobinson, Frank, to Monsanto Company. Aromatic amide-hydrazide copolymer. 3,723,380, 3-27-73, Cl. 260-32.6nt.

Dobinson, Frank; and Silver, Frank M., to Monsanto Company. Aromatic polyamides derived from a mixture of aromatic diamines containing 4,4-diamino-oxanilide. 3,738,964, 6-12-73, Cl. 260-47.0cz.
Dobinson, Frank; and Pelezo, Chris A., to Monsanto Company. Aromatic-oxalic polyhydrazides and solutions thereof. 3,748,298, 7-24-73, Cl. 260-32.60n.
Dobinson, Frank, to Monsanto Company. Aromatic polyamides containing 4,4-diamino-oxanilide moieties. 3,770,704, 11-6-73, Cl. 260-78.00r.
Dobkin, Robert C., to National Semiconductor Corporation. Differential amplifier with means for balancing out offset terms. 3,742,377, 6-26-73, Cl. 330-30.00d.
Dobkowski, Raymond. Adjustable hanger for brick wall. 3,768,767, 10-30-73, Cl. 248-226.00c.
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Dobner, Richard G.; and Hebert, Donald G., to Singer Company, The. Printer paper guide which compensates for the thickness of document pack. 3,776,341, 12-4-73, Cl. 197-127.00r.
Dobo, Emerick J., to Monsanto Company. Orifice assembly for extruding and attenuating essentially inviscid jets. 3,771,982, 11-13-73, Cl. 65-1.000.
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Dobrjanskyj, Lew; Einhorn, Ruediger; Flagg, Frank D.; and Chasen, Lee Richard, to Coats & Clark, Inc. Pull knob assembly with interchangeable plug inserts. 3,758,920, 9-18-73, Cl. 16-121.000.
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Dobson, Ora B. Apparatus for removing tassels. 3,736,730, 6-5-73, Cl. 56-63.000.
Dobson Park Industries Limited: *See—*
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Dobson, Thomas A.; and Davis, Martin A., to Ayerst, McKenna and Harrison Limited. Substituted derivatives of 10,11-dihydro-5, 10-(iminomethano)-5H-dibenzo cycloheptenes and preparation thereof. 3,716,541, 2-13-73, Cl. 260-286.00r.
Dobson, Thomas A.; and Rochefort, J Guy, to American Home Products Corporation. Compositions for and method of treating inflammatory conditions. 3,728,349, 4-17-73, Cl. 424-285.000.
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Zhukevich-Stosha, Evgeny Alexandrovich; Verderevsky, Vadim Anatolievich; Cherednichenko, Genrikh Moiseevich; Dobychin, Fedor Nikolaevich; Lakernik, Rafail Moiseevich; Svidovsky, Felix Grigorievich; and Shapiro, Aron Isaakovich, 3,722,249.
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Docherty, Donald B.; and Danner, Paul L. Furniture-carrying device. 3,761,107, 9-25-73, Cl. 280-34.00b.
Dochnahl, Hans, to Draftex GmbH. Support for decorative moldings on door or window frames provided with rubber or plastic sealstrips. 3,742,649, 7-3-73, Cl. 49-441.000.
Dochnahl, Hans, to Draftex GmbH. Mounting support and seal for window panes, especially for windshields. 3,744,201, 7-10-73, Cl. 52-400.000.
Dochterman, Richard W., to General Electric Company. Dynamoelectric machine cooling arrangement. 3,719,843, 3-6-73, Cl. 310-89.000.
Dochterman, Richard W., to General Electric Company. Dynamoelectric machine assembly. 3,740,599, 6-19-73, Cl. 310-91.000.
Dochterman, Richard W., to General Electric Company. Dynamoelectric machines and assembly of same with a control device. 3,743,872, 7-3-73, Cl. 310-90.000.
Dochterman, Richard W., to General Electric Company. Dynamoelectric machine having improved, bearing and support structure. 3,745,391, 7-10-73, Cl. 310-90.000.
Dochterman, Richard W.; and Yeaman, David H., Jr., to General Electric Company. Dynamoelectric machine vibration isolator mounting. 3,746,894, 7-17-73, Cl. 310-51.000.
Dochterman, Richard W.; and Wendt, Michael E., to General Electric Company. Dynamoelectric machine. 3,758,799, 9-11-73, Cl. 310-89.000.
Dock, Everett H.; and Heilhecker, Joe R., to Esso Production Research Company. Tool assembly. 3,776,472, 12-4-73, Cl. 239-591.000.
Dock, Mortimer Russell, to H-2-O Filter Corporation, The. Filter for cigarettes. 3,762,422, 10-2-73, Cl. 131-10.100.
Docker, Leslie Thomas, to Slumberland Group Limited. Beds. 3,728,747, 4-24-73, Cl. 5-351.000.
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Dockery, Denzel J. Under-gravel aquarium filter. 3,738,491, 6-12-73, Cl. 210-169.000.
Dockins, Roy Raymond, Jr., to B&W Incorporated. Well pipe valve. 3,776,258, 12-4-73, Cl. 137-269.000.
Dockner, Toni: *See—*
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Dodd, Delwin E.; Li, Kuei-Jung; and Golding, Robert A., to Shell Oil Company. Process for the separation of polymers from a recycle stream that contains ethylene. 3,733,368, 5-15-73, Cl. 260-677.00a.
Dodd, Edwin D., to Owens-Illinois, Inc. Countertop heating apparatus. 3,773,027, 11-20-73, Cl. 126-39.00j.
Dodd, Everett A.; and Horan, Laurance J., said Dodd assor. to Horan, Laurance J. Tilt-actuated safety device. 3,772,643, 11-13-73, Cl. 340-52.00h.
Dodd, Homer C. Power driven lifting and positioning device. 3,716,151, 2-13-73, Cl. 214-77.00r.
Dodd, Jerry S. Apparatus for extracting ball bearings. 3,763,539, 10-9-73, Cl. 29-201.000.



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Dodge, Fred R. E. Marking device. 3,750,292, 8-7-73, Cl. 33-41.00d.
Dodge, Harry G., to Crawford Fitting Company. Hand operated tube bender. 3,735,621, 5-29-73, Cl. 72-156.000.
Dodge, Harry G., to Crawford Fitting Company. Measuring device. 3,745,663, 7-17-73, Cl. 33-173.000.
Dodge, Robert J., to Automatic Power Division. Sound signaling system having adjustable horizontal directivity. 3,734,053, 5-22-73, Cl. 116-137.000.
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Dodman, David; Laithwaite, Peter; Leyland, Boris Nicholas; and Quan, Peter Michael, to Imperial Chemical Industries Limited. Stabilized rubber containing 4-nitrosodiphenylhydroxylamine of derivative. 3,734,886, 5-22-73, Cl. 260-45.90r.
Dodman, David; Pearson, Kenneth William; and Woolley, John Mathers, to Imperial Chemical Industries Limited. Catalytic carbonylation of aromatic nitroso compounds to prepare corresponding isocyanates. 3,737,445, 6-5-73, Cl. 260-453.0pc.
Dodman, David; Wilkins, Malcolm; and Woolley, John Mathers, to Imperial Chemical Industries Limited. Nitrosobinzene stabilized with heavy metal compounds. 3,751,490, 8-7-73, Cl. 260-647.000.
Dodson, Arthur Edward, to Bell Canada-Northern Electric Research Limited. Generation of multilevel digital waveforms. 3,714,461, 1-30-73, Cl. 307-227.000.
Dodson, Arthur Edward, to Northern Electric Company Limited. Dial pulse and multiple frequency signalling sender/multiple frequency signalling receiver apparatus. 3,727,008, 4-10-73, Cl. 179-18.0es.
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Dodson, Merritt E.; Marsh, Richard L.; and Masters, Frank C., to Goodyear Tire & Rubber Company, The. Belt track structure. 3,781,067, 12-25-73, Cl. 305-35.0eb.
Dodson, Stanley Charles; and Hole, Kenneth James, to British Petroleum Company Limited, The. Grease composition. 3,770,634, 11-6-73, Cl. 252-29.000.
Dodsworth, Alfred Manston Heeley, to Clarkson, W. J., Limited. Method of, and apparatus for, stitching together two layers of material. 3,721,202, 3-20-73, Cl. 112-121.150.
Dodsworth, Alfred Manston Heeley, to Clarkson, W. J., Limited. Material folding and stitching aid. 3,749,038, 7-31-73, Cl. 112-121.150.
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Dodwell, Geoffrey Michael, to Ilford Limited. Photographic gelatino silver halide emulsion. 3,775,129, 11-27-73, Cl. 96-84.00r.
Doe, James B.; Niederberger, Richard P.; Curcio, Michael C.; and Forker, Michael H. Deferred action battery. 3,712,834, 1-23-73, Cl. 136-114.000.
Doe, Walter P., to Quaker Oats Company, The. Bouncing passenger vehicle toy. 3,708,912, 1-9-73, Cl. 46-204.000.
Doebel, Karl J.; and Francis, John E., to Ciba-Geigy Corporation. 3-Hydrazino-1,2,8,9-tetrazaphenalenes. 3,711,473, 1-16-73, Cl. 260-240.00g.
Doebel, Karl J.; and Watthey, W. H., to Ciba-Geigy Corporation. Certain oxy-substituted benzo quinolizinium compounds and their use. 3,712,946, 1-23-73, Cl. 424-258.000.
Doebel, Karl J.; and Francis, John E., to Ciba-Geigy Corporation. 3-Dibromomethylphthalic anhydride. 3,761,493, 9-25-73, Cl. 260-346.300.
Doelman, Jan; and Van Meurs, Hubrecht C. A., to Shell Oil Company. Process for the preparation of solid urea adducts. 3,759,818, 9-18-73, Cl. 208-25.000.
Doemen, Benno, to Papst-Motoren KG. Contactless inverter circuit particularly to supply polyphase A-C motors from a D-C source. 3,769,569, 10-30-73, Cl. 321-5.000.
Doemen, Benno; and Muller, Rolf, to Papst-Motoren KG. Brushless dynamo electric machine, particularly electric motor. 3,780,363, 12-18-73, Cl. 318-254.000.
Doenecke, Christian; and Redel, Karl-Georg, to Leybold-Heraeus-Verwaltung GmbH. Method and apparatus for refining the metal of consumable electrode. 3,744,989, 7-10-73, Cl. 75-10.00r.
Doepke, Donald G. H., to General Electric Company. Rack level adjustment apparatus in an appliance cabinet. 3,726,581, 4-10-73, Cl. 312-351.000.
Doepke, Donald G. H., to General Electric Company. Rack level adjustment apparatus in an appliance cabinet. 3,736,037, 5-29-73, Cl. 312-351.000.
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Doerfer, Richard F.; Leymaster, Homer N.; and Neebel, Richard R., to Doerfer Corporation. Apparatus for diverting articles from a path of travel. 3,739,903, 6-19-73, Cl. 198-35.000.
Doerfer, Richard F.; Leymaster, Homer N.; and Neebel, Richard R., to Doerfer Corporation. Loin knife mechanism. 3,771,196, 11-13-73, Cl. 17-1.00r.
Doerffer, Jerzy; and Milenuszkin, Walenty. Gear for braking and auxiliary steering ships on braking them. 3,780,683, 12-25-73, Cl. 114-145.00r.
Doerge, Herman P.; and Wismer, Marco, to PPG Industries, Inc. Urethane foams with reduced smoke levels and improved flame spread. 3,746,664, 7-17-73, Cl. 260-2.5am.
Doerge, Herman P.; and Wismer, Marco, to PPG Industries, Inc. Unsaturated polyesters with reduced smoke levels. 3,758,638, 9-11-73, Cl. 260-865.000.
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Doering, William E.; and Jensen, Willis J., to Chemetron Corporation. Hospital communication system. 3,767,859, 10-23-73, Cl. 179-1.00h.
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Doerman, Eryk Stefan, to Molins Limited. Testing of cigarettes and other similar rod-like articles. 3,760,631, 9-25-73, Cl. 73-45.100.
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Doerner, William A., to Du Pont de Nemours, E. I., and Company. Rotary closed rankine cycle engine with internal lubricating system. 3,744,246, 7-10-73, Cl. 60-95.000.
Doerr, Albert H., to Marmon Group, Inc., The. Shell core testing apparatus. 3,718,035, 2-27-73, Cl. 73-95.000.
Doerr Electric Corporation: *See—*
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Doerr, Marvin LeRoy, to Fiber Industries, Inc. Polycarbonate modified polyesters of reduced carboxyl groups. 3,752,866, 8-14-73, Cl. 260-860.000.
Doerr, Richard L., to Olin Corporation. Durable textile soil release agent. 3,754,859, 8-28-73, Cl. 8-115.600.
Doerr, Richard L.; and Fuzesi, Stephen, to Olin Corporation. Durable textile soil release agent. 3,759,664, 9-18-73, Cl. 8-115.600.
Doerschlag, Christian, to American Van Tongeren Corporation. Strip cyclone. 3,731,463, 5-8-73, Cl. 55-238.000.
Doester, Everett L.: *See—*
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Dogliotti, Amilcare, to Ferrero, P., & C. S.p.A. Display container. 3,768,639, 10-30-73, Cl. 206-45.190.
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Dohany, Julius Eugene; and Grigger, John Casimer, to Pennwalt Corporation. Process for polymerizing fluoroolefins. 3,709,856, 1-9-73, Cl. 260-87.700.
Dohany, Julius Eugene, to Pennwalt Corporation. Method of preparing consistently high-quality vinylidene fluoride polymer. 3,781,265, 12-25-73, Cl. 260-92.10r.
Doherty, George O. P., to Lilly, Eli, and Company. N-(2,2-Difluoroalkanoyl)-2,3-pyridinediamine compounds. 3,746,531, 7-17-73, Cl. 71-94.000.
Doherty, Norman R. Electrically actuated punch press. 3,709,083, 1-9-73, Cl. 83-575.000.
Doherty, Orval Austin: *See—*
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Doherty, William A., to Marine Protein Corporation, mesne. Water circulation system for fresh water fish husbandry. 3,771,492, 11-13-73, Cl. 119-3.000.
Doherty, William F., to Pyrotector, Incorporated. Fire detector with red and blue responsive photocells and regenerative feedback. 3,725,660, 4-3-73, Cl. 250-83.30h.
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Dohm, Daniel, Jr., to Cashin System Corporation, mesne. Meat press. 3,753,398, 8-21-73, Cl. 100-53.000.
Dohmann, Fritz; Gulden, Karl; and Lehner, Willy, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Method for making bevel gear. 3,731,516, 5-8-73, Cl. 72-354.000.
Dohmeier, Hans Otto, to Dome Inventions (Proprietary) Limited. Tires. 3,722,566, 3-27-73, Cl. 152-169.000.
Dohmori, Renzo; Kadoya, Shizuo; Takamura, Isao; Oshima, Yasuo; and Naito, Takeo, to Daiichi Seiyaku Company, Limited. 2-Substituted or non-substituted-non-thiazolo [5,4-f] quinaline-8-carboxylates compounds and their method of preparation. 3,714,170, 1-30-3, Cl. 260-283.00s.
Dohmori, Renzo; Nagasaki, Senkichi; Kadoya, Shizuo; Takamura, Isao; and Suzuki, Norio, to Daiichi Seiyaku Company, Limited. 3-Substituted-6-alkyl-2,3,6,9-tetrahydro-2, 9-dioxothiayolo [5,4-f]-quinoline-8-carboxylic acids and methods for producing same. 3,76,876, 4-10-73, Cl. 260-283.00s.
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Dohse, Rothard; Edeling, Curt; and Eisenmann, Josef, to Elektro-Thermit GmbH. Tongue device with pivotal connecting rails. 3,745,336, 7-10-73, Cl. 246-442.000.
Dohse, Ruthard; and Frank, Klaus, to Elektro-Thermit GmbH. Guide element for pivoting rails. 3,737,657, 6-5-73, Cl. 246-392.000.
Dohse, Ruthard; Edeling, Curt; and Eisenmann, Josef, to Elektro-Thermit GmbH. Deflecting device with gaps locked in a wedge-type manner. 3,737,658, 6-5-73, Cl. 246-448.000.
Dohse, Ruthard, to Elektro-Thermit GmbH. Closing device for rail gaps in the deflecting and frog areas. 3,757,113, 9-4-73, Cl. 246-468.000.
Doi, Hitoshi; Honsyo, Yoshihisa; and Uetani, Masanori, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha and Mitsubishi Denki Kabushiki Kaisha. Electric generator for spark ignited engine. 3,741,186, 6-26-73, Cl. 123-149.00r.
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Doi, Kazuo; Kato, Ryuzo; Matsumoto, Tadashi; Niizuma, Fujio; Kugumiya, Shigenori; Tanaka, Yasuo; and Kitamura, Motoharau, to Matsushita Denko Kabushiki Kaisha. Method of manufacturing electric surface heaters. 3,745,649, 7-17-73, Cl. 29-611.000.
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Doi, Tetsuo, to Hitachi, Ltd. Apparatus for automatically conveying sheets of paper by means of electrostatic adsorption. 3,726,520, 4-10-73, Cl. 271-18.00a.
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Dokoupil, Jirl, to USM Corporation. Method and apparatus for ironing leather. 3,727,437, 4-17-73, Cl. 69-48.000.
Dolamore, Charles D., to Lorain Products Corporation. Signal generator for telephone systems. 3,749,941, 7-31-73, Cl. 307-271.000.
Dolan, Daniel D. Door for box lockers and the like. 3,714,739, 2-6-73, Cl. 49-501.000.
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Dolbachian, Raymond; and Lefevre, Claude, to U.S. Philips Corporation. Electronic control device in particular for use in a variable reluctance motor. 3,769,555, 10-30-73, Cl. 318-138.000.
Dolbear, Geoffrey E., to Grace, W. R., & Co. System for removing nitrogen oxide from automotive exhaust. 3,767,764, 10-23-73, Cl. 423-213.200.
Dolby, Dale P., to Ampex Corporation. Dual magnetic tape cassette transport and carrousel apparatus. 3,720,794, 3-13-73, Cl. 179-100.2pm.
Dolby, Dale P., to Ampex Corporation. Reel-demountable cassette and reels for magnetic tape. 3,756,329, 9-4-73, Cl. 179-100.20z.
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Dolby, Ray Milton. Compressor/expander switching methods and apparatus. 3,729,693, 4-24-73, Cl. 333-14.000.
Dolby, Ray Milton; and Robinson, David Peter, to Dolby Laboratories, Inc. Limiters for noise reduction systems. 3,737,678, 6-5-73, Cl. 307-237.000.
Dolby, Ray Milton, to Dolby Laboratories, Inc. Compressor and expander circuits having control network responsive to signal level in circuit. 3,775,705, 11-27-73, Cl. 333-14.000.
Dolce, Leonard J.; Greer, Henry W.; and Martell, George E., to Smith Kline & French Laboratories. Capsule salvage machine. 3,744,214, 7-10-73, Cl. 53-381.00r.
Dolce, Samuel L. Jack and lock. 3,722,862, 3-27-73, Cl. 254-10.500.
Dolci, Gioacchino,; and Renzoni, Ruggero, to Snam Progetti S.p.A. Method of removing carbon from nuclear fuel elements in a closed system. 3,714,323, 1-30-73, Cl. 423-4.000.
Dole, James, Corporation: *See—*
Guckel, Gerhart A., 3,707,823.
Dole, John S. Painting fastener. 3,769,730, 11-6-73, Cl. 40-156.000.



Dole Refrigerating Company: *See—*
Apple, Joseph P., Jr., 3,727,422.
Raufeisen, Frank; and Lauterbach, William E., 3,756,037.
Dolejs, Ladislav; Kahovcova, Kitka; Slama, Karel; and Sorm, Frantisek, to Ceskoslovenska akademie ved. Phenyl ethers. 3,711,519, 1-16-72, Cl. 260-348.00r.
Doleman, Jack; and Hills, William H., to Monsanto Company. Continuously molded thermoplastic materials. 3,729,364, 4-24-73, Cl. 161-36.000.
Doleus, Anthony H.: *See—*
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Dolezal, Premysl Thomas: *See—*
Muir, John; Kavalir, John; and Dolezal, Premysl Thomas, 3,755,231.
Dolezal, Richard, to Sulzer Brothers Limited. Steam power plant and method of operating the same. 3,742,709, 7-3-73, Cl. 60-106.000.
Dolezal, Richard Joseph, to Sulzer Brothers Limited. Steam generator. 3,769,941, 11-6-73, Cl. 122-406.00r.
Dolfing, Thale; and Lolkema, Jan, said Lolkema assor. to Scholten-Honig Research N.V. Process for treating non-agricultural grounds. 3,736,758, 6-5-73, Cl. 61-36.00r.
Dolfini, Joseph Edward: *See—*
Welch, Arnold D.; Dolfini, Joseph Edward; and Giarrusso, Frederick F., 3,708,479.
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Dolgen, Igor E.: *See—*
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Dolgolenko, Anatoly Alexandrovich; Onokhov, Pavel Pavlovich; Makhover, Jury Meerovich; and Gudovich, Alexandr Markovich. Band conveyor on an air cushion. 3,734,271, 5-22-73, Cl. 198-184.000.
Dolgolenko, Anatoly Alexandrovich; Onokhov, Pavel Pavlovich; and Makhover, Jury Meerovich. Air cushioned belt conveyor. 3,744,619, 7-10-73, Cl. 198-184.000.
Dolgoplosk, Boris Alexandrovich; Tinyakova, Elena Ivanovna; Beilin, Solomon Isaakovich; Makovetsky, Kirill Lvovich; Chernenko, Galina Moiseevna; Ostrovskaya, Irina Yakovlevna; Garmonov, Izmail Vladimirovich; Mamontov, Boris Vasilievich; and Kon, Alexandra.Method of producing 1,4-cis-polybutadiene and cis-copolymers of butadiene. 3,723,400, 3-27-73, Cl. 260-82.100.
Dolgoplosk, Boris Alexandrovich; Tinyakova, Elena Ivanovna; Beilin, Solomon Isaakovich; Makovetsky, Kirill Lvovich; Chernenko, Galina Moiseevna; Ostrovskaya, Irina Yakovlevna; Krol, Vladimir Alexandrovich; and Khrennikova, Elena Konstantinovna. Stereospeciic synthetic rubber based on 1,3-butadiene and method of producing same. 3,740,382, 6-19-73, Cl. 260-82.100.
Dolgov, Anatoly Vladimirovich; Konovalov, Leonid Vladimirovich; Perkis, Leib Benyaminovich; Deev, Stanislav Lvovich; Dyakov, Vitaly Evgenievich; Semenov, Alexandr Efimovich; Bauer, Evgeny Teodorovich; and Suturin, Serafim Nikolaevich. Method and apparatus o refine melts from solid impurities. 3,780.864, 12-25-73, Cl. 210-152.000.
Dolhaine, Alfred W. J., to Allied Steel Products Corporation. Prestructured building and panels therefor. 3,755,976, 9-4-73, Cl. 52-93.000.
Dolidze, Vladimir Alexandrovich: *See—*
Nikolsky, Boris Petrovich; Shults, Mikhail Mikhailovich; Pisarevsky, Alexandr Moiseevich; Beljustin, Anatoly Alexandrovich; Bolkhontseva, Sofia Konstantinovna; Dolidze, Vladimir Alexandrovich; Tarasova, Valentina Mikhailovna; Karachentseva, Julia Mikhailova; and Dolmazova, Liana Iosifovna, 3,773,642.
Dolin, Stanley A.: *See—*
Krakow, Burton; Dolin, Stanley A.; and Kruegle, Herman A., 3,708,227.
Dolin, Stanley A.; Folch, Andres, Jr.; and Geiger, Dana F., to Optical Coating Laboratory, Inc. Rapid scan identifier for use in infrared absorption spectroscopy. 3,711,708, 1-16-73, Cl. 250-43.500.
Dolinski, Richard J.; De Vrieze, Jerry D.; and Nowak, Robert M., to Dow Chemical Company, The. Halogen containing esters of vinyl arlene acetic acid and polymers thereof. 3,763,127, 10-2-73, Cl. 260-86.700.
Doll, Brendan L.: *See—*
Currie, Grover C.; and Doll, Brendan L., 3,744,360.
Doll, Brendan L., to Cellu Products Company. Method of and apparatus for forming corner pads. 3,725,170, 4-3-73, Cl. 156-217.000.
Doll, Claude S.: *See—*
Sturm, Walter V.; and Doll, Claude S., 3,709,377.
Doll, Henri Georges; and Broner, Hans J., to Doll Research, Inc. Electromagnetic flowmeter. 3,759,247, 9-18-73, Cl. 128-2.05f.
Doll, Martin, to Cellu Products Company. Net-like thermoplastic material and products. 3,781,183, 12-25-73, Cl. 161-109.000.
Doll, Peter. A.; Cappotto, Samuel D.; Diamond, Herrick R.; and Lohr, Ernest F., to SCM Corporation. Typebar guide and repulser device. 3,734,262, 5-22-73, Cl. 197-43.000.
Doll Research, Inc.: *See—*
Doll, Henri Georges; and Broner, Hans J., 3,759,247.
Doll, Robert; and Berndt, Hartmut. System for contact-free, axially stabilized and radially centered positioning of a rotating shaft, particularly of an operating machine for low temperatures. 3,778,122, 12-11-73, Cl. 308-10.000.
Dollar, David L.; and Richardson, Garland D., to Ball Corporation. Method for producing patina on a zinc surface and article so formed. 3,767,478, 10-23-73, Cl. 148-6.15z.
Dollarhide, Francis E., to Dow Chemical Company, The. Consolidation of particulate materials located in earthen formations. 3,760,880, 9-25-73, Cl. 166-276.000.
Dollenmayer, William L., to International Business Machines Corporation. Miniature disc dictation machine featuring absolute synchronized disc-transducer driving arrangement. 3,729,201, 4-24-73, Cl. 274-4.00h.
Dollhausen, Manfred: *See—*
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Dollinger, Robert E., to Phillips Petroleum Company. Control of carbon black quality. 3,734,999, 5-22-73, Cl. 423-450.000.
Dollinger, Robert E., to Phillips Petroleum Company. Carbon black mixing apparatus. 3,779,683, 12-18-73, Cl. 425-222.000.
Dolly Toy Co., The: *See—*
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Dolmazova, Liana Iosifovna: *See—*
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Dolmetsch, Arnold, Limited: *See—*
Dolmetsch, Carl Frederick, 3,750,521.
Dolmetsch, Carl Frederick, to Dolmetsch, Arnold, Limited. Recorders. 3,750,521, 8-7-73, Cl. 84-380.000.
Dolph, Norman: *See—*
Berkovitz, Robert A., 3,718,773.
Dolphin, James M. Setup support. 3,709,479, 1-9-73, Cl. 269-309.000.
Dolphis Industries Pty. Ltd.: *See—*
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Dolthoff, Alvin E.: *See—*
Jones, David H.; and Dolthoff, Alvin E., 3,739,720.
Dolveck, Gilbert, to Aluminium Suisse S.A. Dispensing container. 3,721,371, 3-20-73, Cl. 222-386.500.
Dolveck, Gilbert. Process for making metallic hollow articles. 3,759,205, 9-18-73, Cl. 113-120.00h.
Domaas, Perry M., to Textron, Inc. Centrifugal clutch. 3,733,918, 5-22-73, Cl. 74-230.17e.
Domaas, Perry M., to Textron, Inc. Centrifugal clutch. 3,777,584, 12-11-73, Cl. 74-230.17e.
Domain, Helmut: *See—*
Misch, Wolfgang; Domain, Helmut; and Adler, Karl-Heinz, 3,776,322.
Domain Industries: *See—*
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Doman, Patrick A.; and Wilkie, Ronald N., to Gam Rad, Incorporated. Stain system for membrane filters. 3,768,440, 10-30-73, Cl. 118-503.000.
Domann, Helmut: *See—*
Burgholte, Alwin; Wirtz, Rainer; and Domann, Helmut, 3,731,169.
Dombro, Robert A. Flame retardent compositions of matter. 3,716,516, 2-13-73, Cl. 260-45.80a.
Dombro, Robert A., to Universal Oil Products Company. Halogenated methanonaphthalene and dimethanophenanthrene compounds. 3,737,468, 6-5-73, Cl. 260-648.00c.
Dombrowski, Anthony E.: *See—*
Bowlin, Calvin E.; and Dombrowski, Anthony E., 3,757,362.
Domco Industries Limited: *See—*
Maclaine, Ian A.; and Semeniw, Orest T., 3,723,576.
Dome Inventions (Proprietary) Limited: *See—*
Dohmeier, Hans Otto, 3,722,566.
Dome, Robert B., to General Electric Company. Single second detector system for a color television receiver. 3,751,590, 8-7-73, Cl. 178-5.40r.
Domecki, Edward H. Method of packing shrimp. 3,780,196, 12-18-73, Cl. 426-393.000.
Domego, Edward: *See—*
Niesen, George P.; and Domego, Edward, 3,753,393.
Domenico, Penelope B., to Dow Chemical Company, The. (Thio-, sulfinyl-and sulfonyl) containing pyridine compounds. 3,719,682, 3-6-73, Cl. 260-294.80f.
Domenico, Penelope B., to Dow Chemical Company, The. (Thio-,sulfinyl-and sulfonyl) containing pyridine compounds. 3,725,421, 4-3-73, Cl. 260-294.80f.
Domenico, Penelope B., to Dow Chemical Company, The. (Thio-, sulfinyl- and sulfonyl) containing pyridine compounds. 3,732,234, 5-8-73, Cl. 260-294.80f.
Domenico, Penelope B., to Dow Chemical Company, The. Halopyridyl thiocyanates. 3,758,482, 9-11-73, Cl. 260-294.80g.



Domenjoud, Paul: *See—*
Donahue, Gary M., to Reynolds Metals Company. Decorative



Donegen, Rudolf R.: *See—*

Domenjoud, Paul: *See—*
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Domer, Wolfgang: *See—*
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Domestic Fabrics Corporation: *See—*
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Domicone, Joseph J.; and Kozlowski, Theodore R., to Corning Glass Works. Safe bi-modal windshields. 3,781,184, 12-25-73, Cl. 161-165.000.
Domig, Herbert: *See—*
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Domin, Bryan E.: *See—*
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Domin, Heinz. Silent butler. 3,722,703, 3-27-73, Cl. 211-178.00r.
Dominguez, Ezekiel; Hitzrot, Henry W., Jr.; and Lynn, John D., to Bethlehem Steel Corporation. Highly fluxed iron oxide pellet. 3,754,889, 8-28-73, Cl. 75-3.000.
Dominguez-Burguette, Mario, to Minnesota Mining and Manufacturing Company. Phtalein-fluoran semiconductive polymers. 3,721,649, 3-20-73, Cl. 260-47.00c.
Dominianni, Samuel J., to Lilly, Eli, and Company. Tetracyclic aziridine and method for its preparation. 3,715,362, 2-6-73, Cl. 260-293.540.
Dominic, Paul C., to Custom Electronic Devices, Inc. Electric typewriter automatic on-off switch. 3,753,004, 8-14-73, Cl. 307-121.000.
Dominik, Erich Dietmar, to Timken Company, The. Tapered roller retainer and method of bearing assembly. 3,720,450, 3-13-73, Cl. 308-214.000.
Dominion Auto Accessories Limited: *See—*
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Dominion Engineering Works, Limited: *See—*
Bruinsma, Bote Gosse; and Shuffler, Eustace Cosmo, 3,768,437.
Field, Michael Frank, 3,733,877.
Nelson, John Edward; and Guerguerian, Laurent, 3,739,993.
Rodwin, Stephen Anthony; and Descary, John Gilbert, 3,750,306.
Shaver, Marvin Bruce, 3,742,779.
Sproule, Robert Stanley, 3,724,966.
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Domkraft AB Nike: *See—*
Flodin, Karl Borje Yngve, 3,707,886.
Domnick, Keith Raphael. Gas filters. 3,708,965, 1-9-73, Cl. 55-488.000.
Domnitch, Irving. Incinerator emissions reduction system. 3,710,555, 1-16-73, Cl. 55-225.000.
Domnitch, Irving. Portable incinerator. 3,728,976, 4-24-73, Cl. 110-8.00r.
Domnitch, Irving. Incinerator emissions reduction system. 3,772,855, 11-20-73, Cl. 55-227.000.
Domodula Uno, Inc.: *See—*
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Domokos, Jozsef; Benedek, Gyorgy; Kiss, Bela; Winkler, Laszlo; and Beller, Zoltan. Method and apparatus for coating metal workpieces with water soluble or colloidal coloring matter emulsified in water. 3,716,473, 2-13-73, Cl. 204-299.000.
Dompe' Farmaceutici S.p.A.: *See—*
Dompe', Franco, 3,732,295.
Dompe', Franco, to Dompe' Farmaceutici S.p.A. Trimethoxybenzoyl-aminoalkanoic acids. 3,732,295, 5-8-73, Cl. 260-519.000.
Domrachev, Georgy Alexeevich; Melnikov, Valery Vasilievich; Kazarinov, Georgy Borisovich; Skorik, Gleb Alexandrovich; and Fukin, Konstantin Konstantinovich. Method of depositing inorganic coatings from vapour phase. 3,729,335, 4-24-73, Cl. 117-95.000.
Domres, Franklin W. Pulp cutting and loading machine. 3,721,143, 3-20-73, Cl. 143-46.00r.
Domtar Limited: *See—*
Akkerman, Allardus A., 3,744,709.
Akkerman, Allardus A., 3,750,935.
Bodycomb, Alistair K., 3,730,061.
Bodycomb, Alistair K.; and D'Urfe, Baie, 3,773,588.
Bodycomb, Alistair Kenyon, 3,781,124.
Burgess, Norman E., 3,744,699.
Flewwelling, Herbert Martin, 3,773,587.
Gartaganis, Phoebus A.; and Harvey, Denis Michael, 3,712,843.
Holcomb, Robert T., 3,752,712.
Domulewicz, Raymond J., Sr. Rotary stopper for molten metal pouring. 3,768,708, 10-30-73, Cl. 222-557.000.
Donahue, Gary M., to Reynolds Metals Company. Decorative carton with removable band and blank therefor. 3,729,126, 4-24-73, Cl. 229-38.000.
Donahue, Gerald E. Fuel injection valve. 3,763,902, 10-9-73, Cl. 141-349.000.
Donahue, Thomas H., to International Telephone and Telegraph Corporation. Device for measurement of pulse-to-pulse carrier frequency shift. 3,723,870, 3-27-73, Cl. 324-82.000.
Donahue, William J.: *See—*
Czajkowski, Norman; Cammack, Thomas A.; Pickler, William C.; and Donahue, William J., 3,768,415.
Donahue, William J., to United States of America, Navy. Centrifugally armed fuze. 3,724,384, 4-3-73, Cl. 102-79.000.
Donahue, William J.; and Cammack, Thomas A., to United States of America, Navy. Fuze. 3,742,854, 7-3-73, Cl. 102-7.400.
Donahue, William R., Jr., to Eaton Corporation. Dispenser assembly. 3,756,473, 9-4-73, Cl. 222-129.200.
Donald, Alexander: *See—*
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Donald, Malcolm: *See—*
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Donald, Raymond George; Spofford, Walter Richardson, Jr.; and Pomerantz, Daniel Ira, to Mallory, P. R., & Co., Inc. Electronic band-pass filter or oscillator. 3,742,259, 6-26-73, Cl. 307-295.000.
Donaldson, Asa Lynn: *See—*
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Keller, Darryl E.; and Monson, Donald R., 3,713,280.
Lapple, Charles E., 3,720,313.
Swanson, Ian N.; and Wagner, Wayne M., 3,712,416.
Van Doeren, Richard E., 3,776,364.
Donaldson, Darrell J.; and Daigle, Donald J., to United States of America, Agriculture. Process for stabilizing organophosphorus solutions and imparting rot and flame resistance to organic textile materials. 3,723,057, 3-27-73, Cl. 8-116.00p.
Donaldson, Darrell J.; Daigle, Donald J.; Drake, George L., Jr.; Reeves, Wilson A.; and Beninate, John V., to United States of America, Agriculture. Flame retardant phosphorus containing fibrous products and method for production. 3,734,684, 5-22-73, Cl. -116.200.
Donaldson, Fred A. Speed control system for motor vehicles. 3,721,309, 3-20-73, Cl. 180-105.00r.
Donaldson, George R., to Universal Oil Products Company. Simultaneous production of aromatic hydrocarbons and isobutanes. 3,756,940, 9-4-73, Cl. 208-66.000.
Donaldson, Leslie W. Incontinent appliance. 3,749,096, 7-31-73, Cl. 128-295.000.
Donaldson, Tommie C. Threshold anchor device. 3,778,931, 12-18-73, Cl. 49-380.000.
Donalies, Daniel J., to Xerox Corporation. Fluidized development apparatus. 3,754,531, 8-28-73, Cl. 118-637.000.
Donan, Donald W.; Douglas, Kenneth M.; and Mason, Leroy W., to Flambeau Products Corporation. Method of making a cooling container by friction welding. 3,755,030, 8-28-73, Cl. 156-73.000.
Donat, Ralph J.: *See—*
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Donatelli, Joseph. Electrical power plant driven by ocean waves and tides. 3,746,875, 7-17-73, Cl. 290-42.000.
Donath, Ernest E., to United States of America, Interior, mesne. Gasification of carbonaceous solids. 3,746,522, 7-17-73, Cl. 48-202.000.
Donath, Hans; Beier, Hans Peter; Otto, Gottfried; Franke, Erich; Kornltzky, Gunter; Dietz, Eberhard; and Wenzel, Klaus, to Ministerium fur Verkehrswesen. Latching apparatus for removable roof of transport containers, particularly I.S.O. containers. 3,750,86, 8-7-73, Cl. 220-55.00g.
Donavan, Patrick M.: *See—*
Weiler, Gerhard H.; and Donavan, Patrick M., 3,740,817.
Doncasters Monk Bridge Limited: *See—*
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Donche, Alain: *See—*
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Donche, Alain; Thibault, Claude; Arretz, Emmanuel; and Pfister, Alain, to Societe Nationale des Petroles d'Aquitaine. Methylenedithiolans. 3,725,394, 4-3-73, Cl. 260-240.00f.
Donck, Harry A., to United Nuclear Corporation. Modular fuel rod spacer assembly for nuclear reactor fuel assemblies. 3,753,855, 8-21-73, Cl. 176-78.000.
Donecker, Frederick W.; and Lucht, Wilbert A., to United States Steel Corporation. Torque balanced cable. 3,772,454, 11-13-73, Cl. 174-113.00r.



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Donelan, James Arthur Francis, to Pirelli General Cable Works Limited. Method of and apparatus for corrugating tubing. 3,735,616, 5-29-73, Cl. 72-77.000.
Donelson, John E.; and Douglas, William M., to McDonnell Douglas Corporation. Air inlet. 3,765,623, 10-16-73, Cl. 244-53.00b.
Doner, Harvey E.: *See—*
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Donermeyer, Donald D.: *See—*
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Dongas, Albert George, Sr. Cleaning agent for textiles. 3,772,205, 11-13-73, Cl. 252-171.000.
Doniat, Denis: *See—*
Bonnemay, Maurice G.; Bronoel, Guy R.; and Doniat, Denis, 3,709,735.
Doniger, Jerry; Morse, Carson; and Knemeyer, Siegfried, to Bendix Corporation, The. Vertical flight path computer. 3,740,004, 6-19-73, Cl. 244-77.00d.
Doniger, Jerry; and Swern, Frederic L., to Bendix Corporation, The. Automatic flight control system using instrument landing system information and including inertial filtering means for reducing its noise. 3,773,281, 11-20-73, Cl. 244-77.00a.
Doniguian, Thaddeus M., to I.M.I.; division of Becton, Dickinson and Company. Fluid sensor. 3,758,398, 9-11-73, Cl. 204-195.00p.
Donjon, Jacques, to Societe de Fabrication d'Instruments de Mesure S.F.I.M. Analogue-to-digital voltage converter. 3,736,586, 5-29-73, Cl. 340-347.0nt.
Donjon, Jacques; and Marie, Gerard Joseph Marcel, to U.S. Philips Corporation. Optic relay for scanning by means of a light beam. 3,781,469, 12-25-73, Cl. 178-7.03d.
Donker, Harvey D.; and Kuiper, Warren J. Construction conveying system and components therefor. 3,717,220, 2-20-73, Cl. 182-129.000.
Donker Products, Inc.: *See—*
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Donkers, Oswald Pieter Maria: *See—*
Verhille, Henri Albert Julia; and Donkers, Oswald Pieter Maria, 3,733,439.
Donkin, Thomas R., to Automation Industries, Inc. Rotatable test device having diametrically opposed sensors and counterweights interlinked for radial movement by centrifugal force. 3,736,501, 5-29-73, Cl. 324-37.000.
Donlon, Richard H.; Close, David E.; and Loomis, Peter B., to Transportation Technology, Inc. Transportation system with docking and lane transfer apparatus. 3,710,724, 1-16-73, Cl. 104-31.000.
Donlon, Richard H.; and Hamilton, William R., to Transportation Technology, Inc. Linear electric motor propulsion system. 3,712,240, 1-23-73, Cl. 104-148.01m.
Donn, Edward S.; and Knauber, Ronald L. Digital surveillance system. 3,718,925, 2-27-73, Cl. 340-413.000.
Donnadieu, Henry, to Institut de Recherches de la Siderurgie Francaise. Testing device for inspecting an object. 3,738,159, 6-12-73, Cl. 73-67.900.
Donnald, Samuel F. Golfing aid. 3,712,623, 1-23-73, Cl. 273-183.00b.
Donnally, Robert B., to Moore, Lee C., Corporation. Oil well derrick substructure with carriages for blowout preventers. 3,718,266, 2-27-73, Cl. 214-2.500.
Donnan, Robert A.: *See—*
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Donnan, Robert G.: *See—*
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Donnarumma, Carmine; Farber, Harvey; Grimm, Charles H.; Kuramoto, Simpey; Marmo, Don; and Stein, Herbert S., to International Flavors & Fragrances, Inc. Process for flavoring rice, compositions used therewith, and products obtained thereby. 3,753,730, 8-2173, Cl. 99-83.000.
Donnell, Anne R. Methylated muconic acid hydrazides. 3,775,089, 11-27-73, Cl. 71-76.000.
Donnell, Frank R., to Spin Company. Pipeline squeegee apparatus. 3,778,859, 12-18-73, Cl. 15-104.30r.
Donnelley, R. R., & Sons Company: *See—*
McGlashan, Andrew David, Sr., 3,740,222.
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Donnelley, Reuben H., Corporation, The: *See—*
Blossom, Frank M.; and Silberbauer, John, 3,732,664.
Donnelly, Donald E.; and Krump, Robert C., to Emerson Electric Co. Oil burner control system. 3,713,766, 1-30-73, Cl. 431-69.000.
Donnelly, Harold F., to Kimberly-Clark Corporation. Method of producing absorbent paper toweling material. 3,708,366, 1-2-73, Cl. 156-209.000.
Donnelly, James J., to Mobil Oil Corporation. Process for the production of microbial cells. 3,711,372, 1-16-73, Cl. 195-1.000.
Donnelly, John F., to Donnelly Mirrors, Inc. Rearview periscope adjustment means for vehicles. 3,774,996, 11-27-73, Cl. 350-302.000.
Donnelly Mirrors Inc.: *See—*
Baumgardner, John D.; Vandenbrink, Wayne; and Yonker, Jerry A., 3,773,406.
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van Putten, James D., Jr., 3,748,025.
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Donnelly, Thomas G.; Haueter, James A.; Krisko, William J.; Schoen, Donald W.; and Lind, Chester S., to United States of America, Army, mesne. Protective system for contaminatcd atmosphere. 3,766,844, 10-23-73, Cl. 98-33.00r.
Donnelly, Thomas S.; and Seidel, William C., to American Aviation Corporation. Stall warning system utilizing an electronic time delay. 3,735,340, 5-22-73, Cl. 340-27.0ss.
Donnelly, Thomas S., to American Aviation Corporation. Circuit overvoltage protector. 3,737,725, 6-5-73, Cl. 317-16.000.
Donner, Frederic Arno; and Kronholm, Tapio Kullervo, to Etablissement Salgad. Grenade projectile. 3,731,627, 5-8-73, Cl. 102-49.200.
Donner, Frederic Arno; and Asikainen, Niilo Kalervo, to Oy Tampella AB. Fin assembly for fin-stabilized projectiles, and a process for its manufacture. 3,765,620, 10-16-73, Cl. 244-3.230.
Donner, Fredric Arno; and Kronholm, Tapio, to Oy Tampella AB. Stabilization fins for projectiles. 3,756,539, 9-4-73, Cl. 244-3.240.
Donner, Siegmar, to Kieninger & Oberfell, Firma. Electronic clock with low power consumption. 3,724,200, 4-3-73, Cl. 58-41.00r.
D'Onofrio, Anthony, to Litton Business Systems, Inc. Method for directly recording light patterns. 3,752,667, 8-14-73, Cl. 96-1.00e.
Donofrio, David J. Oral thermometer. 3,780,586, 12-25-73, Cl. 73-374.000.
Donofrio, Donald E. Stroke indicating golf club. 3,730,529, 5-1-73, Cl. 273-186.00a.
D'Onofrio, Mario L., to Turbotec, Incorporated. Tubing unit with helically corrugated tube and method for making same. 3,730,229, 5-1-73, Cl. 138-114.000.
D'Onofrio, Mario L., to Spiral Tubing Corporation. Method for forming a helically corrugated concentric tubing unit. 3,777,343, 12-11-73, Cl. 29-157.30r.
Donofrio, Nicholas M.; and Linton, Richard H., to International Business Machines Corporation. Fet address decoder. 3,718,826, 2-27-73, Cl. 307-251.000.
Donofrio, Nicholas M.; Kemerer, Douglas W.; and Raymond, John, Jr., to International Business Machines Corporation. Timed true and complement generator. 3,764,823, 10-9-73, Cl. 307-205.000.
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Gilberg, Robert C.; Donohue, James P.; and Patel, Ramesh S., 3,752,958.
Patel, Ramesh S.; Gilberg, Robert C.; and Donohue, James P., 3,761,700.
Donohue, James P.; Patel, Ramesh S.; and Gilberg, Robert C., to National Cash Register Company, The. Code reading apparatus. 3,732,401, 5-8-73, Cl. 235-61.11e.
Donohue, John, to Struthers Scientific and International Corporation. Thick walled pressure vessel. 3,762,448, 10-2-73, Cl. 138-171.000.
Donohue, Paul Christopher, to Du Pont de Nemours, E. I., and Company. Semiconducting cadmium, cadmium-zinc, and mercury phosphide halides. 3,725,310, 4-3-73, Cl. 252-518.000.
Donohue, Robert J.; and Joseph, Bernard W., to General Motors Corporation. Method of making a faceted reflector for a lighting unit. 3,710,095, 1-9-73, Cl. 240-41.360.
Donoughe, Clarence R. Sectional boat. 3,768,107, 10-30-73, Cl. 9-25.000.
Donovan, Bradford P.; and Wood, Lorin A., to McDonnell Douglas Corporation. Lift control mechanism. 3,738,594, 6-12-73, Cl. 244-76.00r.
Donovan, Bradford P., to McDonnell Douglas Corporation. Aileron controls. 3,754,727, 8-28-73, Cl. 244-90.00r.
Donovan, Daniel Joseph, Jr.; and Card, Charles Edward, Jr., to Cogar Corporation. Insertion and extraction lever for printed circuit cards. 3,767,974, 10-23-73, Cl. 317-101.0ph.



Donovan, George: *See—*
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Doran, Thomas J.; Wagner, Melvin R.; and Stevens, Henry C.

Donovan, George: *See—*
United States of America, National Aeronautics and Space Administration, 3,744,148.
Donovan, George Edward; and Mark, Charles Edward, to Technology Exchange Inc. Acoustical apparatus for treating stammering. 3,773,032, 11-20-73, Cl. 128-1.00r.
Donovan, Gerard H.: *See—*
Folsom, Lawrence R.; Gardy, Victor R.; and Donovan, Gerard H., 3,766,823.
Donovan, John C.; Krishnaiyer, Ramesh; and Esser, Frank J., to Johnson Service Company. Alarm transmission line security system utilizing pseudo random encoding. 3,735,353, 5-22-73, Cl. 340-164.00r.
Donovan, John E.: *See—*
Kieser, Robert J.; Bass, John R.; and Donovan, John E., 3,760,346.
Donovan, John S. Gas operated firearm. 3,776,096, 12-4-73, Cl. 89-174.000.
Donovan, Marion. Combined check and record-keeping book. 3,734,543, 5-22-73, Cl. 282-23.00r.
Donovan, Raymond L. Cooler and freezer failure warning system. 3,753,259, 8-14-73, Cl. 340-228.00r.
Donovan, Richard D.: *See—*
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Donovan, Thomas S.; and Surash, John J., to Eastman Kodak Company. Method of preparing an aqueous solution of a water-soluble salt of a ferric aminopolycarboxylic acid complex. 3,767,689, 10-23-73, Cl. 260-439.00r.
Donsbach, Ferdinand Philipp. Apparatus for eliminating oil slicks from large bodies of water. 3,741,391, 6-26-73, Cl. 210-123.000.
Donskikh, Petr Alexandrovich: *See—*
Sheka, Vladimir Pavlovich; Kolesnikov, Valery Afanasievich; Kuzmin, Valery Vyacheslavovich; Muzhzhavlev, Konstantin Dmitrievich; Donskikh, Petr Alexandrovich; Chistyakov, Evgeny Georgievich; and Rzyankin, Alexandr Ivanovich, 3,776,833.
Donze, Michel; Kohler, Bernard Claude; and Manoussi, Gerard Philippe, to Societe Industrielle Honeywell Bull (Societe Anonyme). Assemblage element for functional unit with card connector means. 3,736,471, 5-29-73, Cl. 317-101.00d.
Doocey, Robert J., to Standard Tool & Manufacturing Company. Clamping device for an accurately located workpiece. 3,771,780, 11-13-73, Cl. 269-153.000.
Dooley, Dan W., to McCarthy, Kenneth E.. Dispensing system. 3,734,352, 5-22-73, Cl. 222-148.000.
Dooley, David Francis, to Milprint, Inc. Flexible package with double layered walls. 3,734,394, 5-22-73, Cl. 229-55.000.
Dooley, Donald David, to Borden, Inc. Hot melt package coating method. 3,734,798, 5-22-73, Cl. 156-308.000.
Dooley, Eddie W., to General Electric Company. Latching device. 3,724,889, 4-3-73, Cl. 292-87.000.
Dooley, James L.; and Harasta, Clarence J., to McCulloch Corporation. Lightweight chain saw with engine restarting system and method and apparatus for restarting a warm internal combustion engine. 3,763,842, 10-9-73, Cl. 123-179.00s.
Dooley, John W., to Kuhlenschmidt-Dooley Corporation. Holographic depth correction. 3,774,203, 11-20-73, Cl. 343-5.00r.
Dooley, Joseph Francis, to Pfizer Inc. Diagnostic composition for the quantitative determination of glucose. 3,778,384, 12-11-73, Cl. 252-408.000.
Dooley, Philip G.; and Lambiris, Sotiris, to United Aircraft Corporation. Combustion chamber. 3,780,530, 12-25-73, Cl. 60-39.690.
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Doornbos, William A., 1/2 to Beall, Richard W., Jr. Finger mask and apparatus for polishing fingernails. 3,730,191, 5-1-73, Cl. 132-73.600.
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Dopera, Rudolph. Stringed musical instrument body construction. 3,722,345, 3-27-73, Cl. 84-291.000.
Doppelt, Mandel A. Carrying case with freely hinged closure. 3,734,250, 5-22-73, Cl. 190-48.000.
Doppelt, Mandel A. Carrying case with freely hinged closure. 3,744,601, 7-10-73, Cl. 190-48.000.
Doppelt, Mandel A. Carrying case with a trimming and reinforcement frame on the ends of case. 3,776,334, 12-4-73, Cl. 190-41.00r.
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Doran, John A., III: *See—*
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Doran, Thomas J.; Wagner, Melvin P.; and Stevens, Henry C., to PPG Industries, Inc. Vulcanized rubber comprising a siliceous pigment, a rubber and an organic coupling agent having an active olefinic linkage. 3,737,334, 6-5-73, Cl. 106-288.00q.
Doran, Wilbur J., to Lilly, Eli, and Company. Herbicidal method employing trifluoromethyl phenyl acetic acid and amides thereof. 3,729,305, 4-24-73, Cl. 71-115.000.
Doran, Wilbur R. Infinite gear ratio automatic drive transmission. 3,742,782, 7-3-73, Cl. 74-688.000.
Dorbitz, Gunter, to Dragerwerk Aktiengesellschaft. Apparatus for mixing pressure gases particularly for respirators and medical devices. 3,749,111, 7-31-73, Cl. 137-100.000.
Dorchester, Edwin B. Vernier control knob. 3,724,281, 4-3-73, Cl. 74-10.520.
Dordoni, Innocente. Component for pneumatic logical circuits with two distinct permission controls. 3,750,707, 8-7-73, Cl. 937-625.480.
Dore, Allen J. Water injection system. 3,778,039, 12-11-73, Cl. 261-18.00a.
Dore, James E.; and McNutt, Charles R., to Olin Corporation. Direct chill casting mold manifold apparatus. 3,749,152, 7-31-73, Cl. 164-283.000.
Dore, James E.; and Stauffer, William O., to Olin Corporation. Apparatus for cooling a stress sensitive continuous casting. 3,770,046, 11-6-73, Cl. 164-283.000.
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Doret, Raymond; and Doret, Michel. Portable drafting instrument. 3,775,853, 12-4-73, Cl. 33-27.00c.
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Dorey, Howard Anthony, to Solatron Electronic Group Limited, The. Analogue to digital converters. 3,729,733, 4-24-73, Cl. 340-347.0nt.
Dorey, Howard Anthony, to Solartron Electronic Group Limited, The. Triple-slope analog-to-digital converters. 3,737,892, 6-5-73, Cl. 340-347.0nt.
Dorey, Howard Anthony, to Solartron Electronic Group Limited, The. Analogue to digital converter. 3,745,556, 7-10-73, Cl. 340-347.0ad.
Dorey, Howard Anthony; and Metcalf, Eric, to Solartron Electronic Group Limited, The. Mark-space analogue to digital converters. 3,768,009, 10-23-73, Cl. 324-99.00d.
Dorey, Howard Anthony, to Solartron Electronic Group Limited, The. Analogue to digital converters. 3,772,683, 11-13-73, Cl. 340-347.0nt.
Dorfel, Gerhard Walter, to Ahlstrom, A., Osakeyhtio. Device for regulating the tension of a moving web. 3,734,371, 5-22-73, Cl. 226-109.000.
Dorffurt, Harald; and Pungs, Wolfgang, to Dynamit Nobel Aktiengesellschaft. Polyvinyl chloride molding compositions containing copolymer of vinyl chloride and fumaric acid diester for polymethacrylic acid alkyl ester, process, and articles. 3,770,676, 11--73, Cl. 260-23.0xa.
Dorflinger, Max F., to USM Corporation. Self-locking threaded insert. 3,731,724, 5-8-73, Cl. 151-7.000.
Dorflinger, Max F., to USM Corporation. Process of making self-locking threaded inserts. 3,766,584, 10-23-73, Cl. 10-86.00r.
Dorfman, Edwin: *See—*
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Dorfman, Edwin; Emerson, William E.; Bean, Claude T., Jr.; and Carr, Russell L. K., to Hooker Chemical Corporation. Halogenated triazine elastomers. 3,734,976, 5-22-73, Cl. 260-823.000.
Dorfman, Walter: *See—*
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Dorion, Francis W., Jr., to Gillette Company, The. Dual razor blade assembly. 3,724,070, 4-3-73, Cl. 30-47.000.



Dorjee, Hendrik; and Lesterhuis, Jan, to North American Philips Company, Inc. Multiple connector. 3,718,885, 2-27-73, Cl. 339-17.0lc.
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Dorler, Jack A.; Forneris, John L.; and Swiltek, Donald J., to International Business Machines Corporation. Non-volatile storage element. 3,769,559, 10-30-73, Cl. 317-234.00r.
Dorler, Jack A.; Forneris, John L.; and Swietek, Donald J., to International Business Machines Corporation. Schottky barrier diode read-only memory. 3,780,320, 12-18-73, Cl. 307-303.000.
Dorma Baubeschlag GmbH & Co., KG: *See—*
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Engelstein, Stanley; and Dorman, Isidore, 3,729,094.
Dorman, Knownly R., to United States of America, Interior. Centrifugal stower. 3,710,925, 1-16-73, Cl. 198-128.000.
Dorman, Linneaus C., to Dow Chemical Company, The. 3,5-Dihalo-4-amido-alkoxy phenols. 3,709,939, 1-9-73, Cl. 260-459.000.
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Dormehl, Erich; and Maas, Hans, to Heyligenstaedt & Company Werkgeugmaschinenfabrik GmbH. Apparatus for adjusting the tools of a multi-spindle tool machine. 3,754,178, 8-21-73, Cl. 318-572.000.
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Peterson, Alan H.; and Dormish, Frank L., 3,775,294.
Dorn, Chester, to Superior Manufacturing Company. Pump base assembly. 3,743,448, 7-3-73, Cl. 417-570.000.
Dorn, Chester, to Superior Manufacturing Company. Pump valve assembly. 3,752,604, 8-14-73, Cl. 417-511.000.
Dorn, Clifford G.; and Padilla, John R., to United States of America, Navy. Narrow band frequency modulated jammer. 3,774,208, 11-20-73, Cl. 343-18.00e.
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Dorn, Ludwig; Mengel, Manfred; and Heinze, Gerhard, to Bayer Aktiengesellschaft. Production of transition metal-containing supported catalysts. 3,779,946, 12-18-73, Cl. 252-448.000.
Dorn, Peter; and Dille, Kenneth L., to Texaco Inc. Motor fuel containing a substituted asparagine. 3,773,479, 11-20-73, Cl. 44-71.000.
Dorn, William E. Sewage disposal device. 3,714,914, 2-6-73, Cl. 110-8.00r.
Dornberger, Georg C., to Western Electric Company, Incorporated. Method of and system for measuring the speed and length of a moving elongated article. 3,739,276, 6-12-73, Cl. 324-161.000.
Dornberger, Georg C. E., to Western Electric Company, Incorporated. Methods of and systems for measuring capacitance using a constant current charging technique. 3,761,805, 9-25-73, Cl. 324-60.00c.
Dornberger, Georg Christian Ernst, to Western Electric Company, Incorporated. Apparatus including a pair of dissimilar spaced electrodes for detecting faults in insulated wires. 3,781,666, 12-25-73, Cl. 324-54.000.
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Dorr, Karl-Heinz; Grimm, Hugo; and Kola, Rolf, to Metallgesellschaft Aktiengesellschaft. System for the liquid-phase removal of a component from the gas stream especially the absorption of sulfur trioxide in sulfuric acid. 3,780,499, 12-25-73, Cl. 55-32.00.
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Dorren, Louis, to Quadracast Systems, Inc. Compatible four channel FM system. 3,708,623, 1-2-73, Cl. 179-15.0bt.
Dorril, David Trevor; and Cooper, Charles Frank, to Morganite Research and Development Limited. Forming fibrous articles with a vacuum screen former with presser plates for smoothing the outside surfaces. 3,719,553, 3-6-73, Cl. 162-227.000.
Dorris, John P., to Pré-Cast Concrete Products, Ltd. Bell-liner protector. 3,778,941, 12-18-73, Cl. 52-124.000.
Dorrow, Henry E., to Crain, R. L., Limited. Process for producing manifolded forms. 3,720,561, 3-13-73, Cl. 156-272.000.
Dorsch, Heinz. Control installation for the cooling air fan of internal combustion engines. 3,710,765, 1-16-73, Cl. 123-41.120.
Dorsch, Robert E., to Uniroyal, Inc. Reinforcing element and fitting for a flexible walled container. 3,750,730, 8-7-73, Cl. 150-8.000.
Dorsch, Robert E., to Uniroyal Inc. Method and apparatus for improving the tensile strength of a multifilament glass strand. 3,779,844, 12-18-73, Cl. 156-73.000.
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Dorschner, Kenneth P.; and Albright, James A., to SCM Corporation. Meta-ureidophenylalkyl carbamates. 3,766,250, 10-16-73, Cl. 260-482.00c.
Dorschner, Oskar; Carduck, Franz Josef; and Kuhne, Norbert, to Metallgesellschaft Aktiengesellschaft. Process for the production of staple fibers. 3,707,838, 1-2-73, Cl. 57-157.00r.
Dorschner, Oskar; Storkebaum, Christoph; Carduck, Franz Josef; and Janfeld, Johannes, to Metallgesellschaft Aktiengesellschaft. Apparatus for spreading filaments. 3,713,590, 1-30-73, Cl. 239-597.000.



Dorschner, Oskar; Gross, Hans-Werner; and Hartmann, Rainer, to



Dotani, Satoshi: *See—*

Dorschner, Oskar; Gross, Hans-Werner; and Hartmann, Rainer, to Metallurgesellschaft Aktiengesellschaft. Polymerization of olefins. 3,770,714, 11-6-73, Cl. 260-93.700.
Dorschnert, Kenneth P.; and Albright, James A., to SCM Corporation. Phenyl nitrone-containing compositions useful as antimicrobial agents. 3,767,818, 10-23-73, Cl. 424-33.00d.
Dorsett, Charles M.: *See—*
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Dorsey, Charles M.; Laurent, Harold J.; Slavin, Michael; and Stauffer, Reuben Laverne, to Bendix Corporation, The. Duplex tuning for radio receivers. 3,735,268, 5-22-73, Cl. 325-464.000.
Dorsey, Denis Peter, to RCA Corporation. Television frame storage apparatus. 3,740,465, 6-19-73, Cl. 178-6.800.
Dorsey, Edward G., Jr.; Peterson, John A.; and Lund, Robert K., to Thiokol Chemical Corporation. Gun ammunition composed of encapsulated monopropellants. 3,749,615, 7-31-73, Cl. 149-6.000.
Dorsey, Geoffrey A., Jr., to Kaiser Aluminum & Chemical Corporation. Integral color anodizing of aluminum. 3,714,000, 1-30-73, Cl. 204-58.000.
Dorsey, Geoffrey A., Jr., to Kaiser Aluminum & Chemical Corporation. Method for forming anodic oxide coatings having improved adhesive properties. 3,714,001, 1-30-73, Cl. 204-58.000.
Dorsey, Robert L., Sr.; Gross, James C.; and Myers, H. George. Electric switches. 3,725,834, 4-3-73, Cl. 337-44.000.
Dorsey, Ted C. Wire wrap tool. 3,755,872, 9-4-73, Cl. 29-203.00h.
Dorsey, William T. Corner protector. 3,762,626, 10-2-73, Cl. 229-14.00c.
Dorsman, Adrian K., to North American Rockwell Corporation. Phototransistor buffer circuit. 3,777,152, 12-4-73, Cl. 250-206.000.
Dorsman, Adrian K.; and Adams, Clark F., to North American Rockwell Corporation. Warp letoff control system. 3,781,532, 12-25-73, Cl. 235-151.320.
Dorst, Hans-Rudiger, to VEB Qualitats- und Edelstahl-Kombinat. Differential thermoelements. 3,757,206, 9-4-73, Cl. 324-32.000.
Dorst, Hans-Rudiger; and Zielinski, Helmut, to VEB Qualitats- und Edelstahl-Kombinat. Method and apparatus for thermal analysis of metallic melts. 3,774,441, 11-27-73, Cl. 73-17.00r.
Dortenzo, Alexander T., to Pennsylvania Engineering Corporation. Anti-pollution device for a metallurgical vessel. 3,724,827, 4-3-73, Cl. 266-15.000.
Dortenzo, Alexander T.; and Sczerba, Stanley T., to Pennsylvania Engineering Corporation. Gas handling system for metallurgical vessels. 3,749,116, 7-31-73, Cl. 137-255.000.
Dorton, Howard E. Bag strip for handling soiled surgical sponges. 3,749,237, 7-31-73, Cl. 206-57.00a.
Dorton, Robert H. Impression die forging method and apparatus. 3,772,906, 11-20-73, Cl. 72-374.000.
Dorwachter, Kirby D.: *See—*
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Dory, Jacques, to Realisations Ultrasoniques. Apparatus for analysing by means of ultrasonic pulses, employing the reflecting profile characteristic of each obstacle. 3,754,472, 8-28-73, Cl. 73-67.900.
Dory, Jacques, to Realisations Ultrasoniques. Process and apparatus for analyzing materials by means of ultrasonic pulses, employing the transfer function characteristic of each obstacle. 3,756,071, 9-4-73, Cl. 73-67.800.
Dorzan, Peter A. Method and device for retrieving litter. 3,778,097, 12-11-73, Cl. 294-118.000.
Dosch, Peter; Oehmann, Manfred; and Benz, Emil. Speed control of electrical motors. 3,743,907, 7-3-73, Cl. 318-271.000.
Doslik, Peter, to Morat, Franz, G.m.b.H., Firma. Apparatus and method of transferring a pattern to a programme carrier. 3,763,313, 10-2-73, Cl. 178-6.60r.
Doss, Gene E.: *See—*
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Doss, Nagib A., to GAF Corporation. Method for dyeing polyamide fibers with halotriazinylmonoazo dyestuffs. 3,708,259, 1-2-73, Cl. 8-41.00r.
Doss, Richard C., to Phillips Petroleum Company. Polymercaptan composition. 3,742,006, 6-26-73, Cl. 260-455.00a.
Doss, Richard C.; and Kuper, Donald G., to Phillips Petroleum Company. Purification of alkali metal salts of aromatic carboxylic acids. 3,780,097, 12-18-73, Cl. 260-525.000.
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Dosso, Felice: *See—*
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Dotco, Inc.: *See—*
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Snider, Philip A., 3,719,440.
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Dotson, Anderson O., Jr.; Green, Joseph; and Wolford, Lionel T., to Cities Service Company. Fire retardant polymer composition. 3,745,146, 7-10-73, Cl. 260-45.75b.
Dotson, Anderson O., Jr.; and Olechowski, Jerome Robert, to Cities Service Company. Oximino cyclic hydrocarbons. 3,752,852, 8-14-73, Cl. 260-516.00a.
Dotson, Billy R.; Morrison, Edward D.; and Williams, Robert F., Jr., to Eastman Kodak Company. Process for the solvent casting of cellulose films using radiation, and products thereof. 3,738,924, 6-12-73, Cl. 204-159.120.
Dotson, George L., to Dotson and Evans, Inc. Ring display device. 3,724,799, 4-3-73, Cl. 248-450.000.
Dotson, Ronald L.: *See—*
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Dotson, William P., Jr., to United States of America, National Aeronautics and Space Administration. Digital to analog conversion apparatus. 3,754,236, 8-21-73, Cl. 340-347.0da.
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Dotterweich, William E., to Foote Products Valley Tow-Rite; division of Scott and Fetzer Company, The. Trailer hitch. 3,741,588, 6-26-73, Cl. 280-491.00e.
Dotto, Gianni A. Automotive apparatus. 3,716,098, 2-13-73, Cl. 165-88.000.
Doty, Edward Neal; and Hogg, Walter R., to Coulter Electronics, Inc. Axial trajectory sensor having gating means controlled by pulse duration measuring for electronic particle study apparatus and method. 3,710,263, 1-9-73, Cl. 328-91.000.
Doty, Edward Neal; and Hogg, Walter R., to Coulter Electronics, Inc. Axial trajectory having gating means controlled by pulse duration measuring for electronic particle study apparatus and method. 3,710,264, 1-9-73, Cl. 328-91.000.
Doty, John T. Collar puller for metal pipe. 3,710,427, 1-16-73, Cl. 29-237.000.
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Double, Richard L. Electrical coupler. 3,736,548, 5-29-73, Cl. 339-31.00r.
Doubleday, Max; Hoffman, Robert G.; and DeCaneva, Richard, to Harsco Corporation. Gang loop wall tie holding bolt. 3,756,555, 9-4-73, Cl. 249-207.000.
Doublet, Fernand Noel, to Societe Anonyme Tubest. Process and device for producing thin walled or extra-thin walled smooth tubes by welding. 3,751,623, 8-7-73, Cl. 219-67.000.
Doubt, Leon S., to California Institute of Technology. Two terminal current limiter. 3,769,572, 10-30-73, Cl. 323-4.000.
Doucerain, Jacques; and Baumann, Bernard, 50% to Cebel and 50% to Societe de Traitements Electrolytiques et Electrothermiques. Apparatus for joint manufacture. 3,778,017, 12-11-73, Cl. 249-78.000.
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Doucette, Eugene F., to Owens-Illinois, Inc. Mechanical means to apply a plastic template to the necks of containers. 3,708,950, 1-9-73, Cl. 53-48.000.
Douchet, Charles; Grancher, Pierre; and Vecchiutti, Robert. Manufacture of dialkyl sulphoxides. 3,708,542, 1-2-73, Cl. 260-607.00a.
Doudet, Michel, to SECIM, mesne. Inverse drawing presses. 3,738,144, 6-12-73, Cl. 72-255.000.
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and apparatus for removing impurities released from staple fibers. 3,763,641, 10a9-73, Cl. 57-56.000.
Douek, Maurice: *See—*
Liu, Joseph K.; and Douek, Maurice, 3,779,992.
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Dougall, James R., to Minneapolis Electric Steel Castings Company. Connecting apparatus for tooth adapter assembly. 3,722,932, 3-27-73, Cl. 287-103.00d.
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Dougherty, Carle T. Wading pontoons. 3,758,898, 9-18-73, Cl. 9-310.00d.
Dougherty, Charles B., to TRW Inc. Image transducing system. 3,719,773, 3-6-73, Cl. 178-6.000.
Dougherty, Earle T. Fence structure with barbed wire extension. 3,771,767, 11-13-73, Cl. 256-11.000.
Dougherty, Earle T. Sliding portal and operating device therefore. 3,775,906, 12-4-73, Cl. 49-358.000.
Dougherty, Edward F.: *See—*
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Dougherty, John S., to Allied Products Corporation. Curtain wall safety panel. 3,757,471, 9-11-73, Cl. 49-2.000.
Dougherty, Lawrence W.; and Gallagher, Terence J. Collapsible vehicle. 3,770,289, 11-6-73, Cl. 280-36.00r.
Dougherty, William Edwin, Jr., to International Business Machines Corporation. Multilayer printed circuit board and method of manufacture. 3,739,469, 6-19-73, Cl. 29-625.000.
Doughty, James A. Electronic musical tone modifier for musical instruments. 3,749,837, 7-31-73, Cl. 179-1.000.
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Doughty, Robert L., to Monsanto Company. Package for holding pressurized fluent material. 3,726,429, 4-10-73, Cl. 215-1.00c.
Doughty, Robert L., to Monsanto Company. Package for holding pressurized fluent material. 3,727,782, 4-17-73, Cl. 215-1.00c.
Doughty, Robert L.; and Wheeler, Clayton A., to Monsanto Company. Double parison die head control mechanism. 3,767,345, 10-23-73, Cl. 425-326.000.
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Douglas, Bobby L., to Dresser Industries, Inc. Liquid separation in a well. 3,724,486, 4-3-73, Cl. 137-190.000.
Douglas, Bobby L., to Dresser Industries, Inc. Floating piston for selective hydraulic packer. 3,731,740, 5-8-73, Cl. 166-120.000.
Douglas, Bruce M.: *See—*
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Douglas, Burke, to Dow Chemical Company, The. Method of making lined conduit joints. 3,742,590, 7-3-73, Cl. 29-523.000.
Douglas, Colin Grahame, to Westinghouse Brake and Signal Company, Limited. Display apparatus. 3,775,740, 11-27-73, Cl. 340-23.000.
Douglas, David. Container and cover therefor. 3,719,304, 3-6-73, Cl. 220-42.00c.
Douglas, Donald J. Headgear. 3,710,393, 1-16-73, Cl. 2-14.00w.
Douglas, Donald J. Swimming headgear. 3,755,819, 9-4-73, Cl. 2-14.00w.
Douglas, Donald J. Wind actuated devices. 3,757,730, 9-11-73, Cl. 116-28.000.
Douglas, Donald J., to Nu-Pro, Inc. Jumping reflex-reflection. 3,758,190, 9-11-73, Cl. 350-97.000.
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Douglas, George W., to Cosden Oil & Chemical Company. Composition and method for treating carpets and pile fabrics. 3,734,686, 5-22-73, Cl. 8-137.000.
Douglas, Henry, to General Motors Corporation. Tool block. 3,774,484, 11-27-73, Cl. 82-36.00r.
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Douglas, Jack E., to Shaw, Arthur, Manufacturing Limited. Hinges. 3,733,650, 5-22-73, Cl. 16-160.000.
Douglas, James Bruce. Foldable table. 3,745,935, 7-17-73, Cl. 108-1.000.
Douglas, James K., to Oilgear Company, The. Pintle pump. 3,744,378, 7-10-73, Cl. 91-484.000.
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Douglas, Lawrence M., to Polaroid Corporation. Erecting linkage. 3,709,130, 1-9-73, Cl. 95-39.000.
Douglas, Lawrence M., to Polaroid Corporation. Film advancing apparatus. 3,744,386, 7-10-73, Cl. 95-11.00r.
Douglas, Lawrence M., to Polaroid Corporation. Exposure control mechanism. 3,762,299, 10-2-73, Cl. 95-56.000.
Douglas, Lawrence M., to Polaroid Corporation. Electromagnetically actuated exposure control mechanism. 3,769,893, 11-6-73, Cl. 95-53.0eb.
Douglas, Livingston C., to Colgate-Palmolive Company. Carrier-dispenser package. 3,743,084, 7-3-73, Cl. 206-42.000.
Douglas, Livingston C., to Colgate-Palmolive Company. Actuator cap with actuation disabling means. 3,749,286, 7-31-73, Cl. 222-153.000.
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Douglas, Robert A. Saddle rig bar. 3,716,965, 2-20-73, Cl. 54-46.000.
Douglas, William M.: *See—*
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Douglass, Edward T., Jr. Apparatus for storing and feeding bulky materials. 3,710,964, 116-73, Cl. 214-17.00d.
Douglass, Frank Irvin, to AMP Incorporated. Panel mounted electrical terminal. 3,760,496, 9-25-73, Cl. 29-629.000.
Douglass, James C., to H. R. Electronics Company. Coin controlled means for vending machines and the like. 3,754,629, 8-28-73, Cl. 194-1.00n.
Douglass, Miriam Lois, to Colgate-Palmolive Company. 2-Mercaptoquinoxaline-1-oxides, salts thereof and 2-(1-oxoquinoxalinyl) disulfides. 3,733,323, 5-15-73, Cl. 260-250.00r.
Douglass, Paul W.; and Koehler, Joseph E., to Gillette Company, The. Safety razor. 3,772,779, 11-20-73, Cl. 30-45.000.
Douglass, Richard W., to Norton Company. Fibered metal powders. 3,729,794, 5-1-73, Cl. 29-182.100.
Douglass, Richard W., to Norton Company. Capacitor with fibered valve metal anode. 3,740,834, 6-26-73, Cl. 29-570.000.
Douglass, Richard W. Capacitor with fibered valve metal anode. 3,742,369, 6-26-73, Cl. 317-230.000.
Douglass, Robert F. Drill guide. 3,741,671, 6-26-73, Cl. 408-114.000.
Douglass, Robert S.; and McDulin, C. Alan, to Mos Technology, Inc. Plastic encapsulation of microcircuits. 3,762,039, 10-2-73, Cl. 29-588.000.
Douklias, Nikolaos; Winzer, Gerhard; and Wolff, Ulrich, to Siemens Aktiengesellschaft. Coherent optical multichannel correlator. 3,773,401, 11-20-73, Cl. 350-162.0sf.
Douklias, Nikolaos, to Siemens Aktiengesellschaft. Coherent optical multichannel correlator. 3,776,616, 12-4-73, Cl. 350-162.0sf.
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Doumas, George C. Cigarette package with a self-contained packet of matches. 3,713,531, 1-30-73, Cl. 260-48.000.
Doumas, George C. Adjustable tobacco smoke filter device. 3,738,375, 6-12-73, Cl. 131-10.300.
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Kerst, Al F.; and Douros, John D., Jr., 3,764,677.
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Douros, John D., Jr.; and Kerst, Al Fred, to Gates Rubber Company, The. Alloxantin compounds as antibacterial and antifungal agents. 3,725,557, 4-3-73, Cl. 424-251.000.

Douros, John D., Jr.; and Kerst, Al Fred, to Gates Rubber Company, The. Dialuric acid compounds as antibacterial and antifungal agents. 3,728,453, 4-17-73, Cl. 424-251.000.

Douros, John D., Jr.; and Kerst, Al Fred, to Gates Rubber Company, The. Alloxan compounds as antibacterial and antifungal agents. 3,728,454, 4-17-73, Cl. 424-251.000.

Douros, John D., Jr.; and Kerst, Al Fred, to Gates Rubber Company, The. Use of violuric acid as a fungicide or bactericide. 3,728,461, 4-17-73, Cl. 424-251.000.

Douros, John D., Jr.; Broke, Milan; and Kerst, Al Fred, to Gates Rubber Company, The. Alloxan-5-thiosemicarbazone as an antibacterial agent. 3,773,952, 11-20-73, Cl. 424-251.000.

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Douty, Donald L., to United States Steel Corporation. Can end with bonded seal slide. 3,708,091, 1-2-73, Cl. 222-541.000.

Douty, Donald L., to United States Steel Corporation. Can end with bonded seal slide. 3,724,728, 4-3-73, Cl. 222-541.000.

Douty, Donald L., to United States Steel Corporation. Can end with bonded seal-slide. 3,727,809, 4-17-73, Cl. 222-541.000.

Douty, Donald L., to United States Steel Corporation. Can end with pivoted bonded seal slide. 3,727,810, 4-17-73, Cl. 222-541.000.

Douzon, Colette A.: *See*—
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Fauran, Claude P.; Raynaud, Guy M.; Douzon, Colette A.; and Thomas, Janine M., 3,755,370.

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Carver, Herbert K., Jr.; and Hansen, Omar, Jr., 3,754,489.
Chant, Albert H., Jr., 3,748,825.

Dove, Jack E. Electrostatic principle rotating atomic motor. 3,708,703, 1-2-73, Cl. 310-10.000.

Dove, Norman F. Steam supply apparatus. 3,777,781, 12-11-73, Cl. 137-608.000.

Dovell, Clark W.; and Winkler, Gerhard B., to United States of America, Navy. Disc brake mechanism. 3,752,267, 8-14-73, Cl. 188-171.000.

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Bernard, Arthur A.; and Bernard, Richard A., 3,746,832.
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Lemon, Stephen C.; and Murray, Robert L., 3,771,549.
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Dover, Donald Henry William, to Dover Roller Shutters Limited. Laths for roller shutters. 3,772,129, 11-13-73, Cl. 161-43.000.

Dover, Jay L., to International Travel & Transportation Company, Limited. Infusion filter. 3,764,017, 10-9-73, Cl. 210-481.000.

Dover Roller Shutters Limited: *See*—
Dover, Donald Henry William, 3,772,129.

Doversberger, Richard A., to Westinghouse Air Brake Company. Pressure modulating brake valve. 3,744,856, 7-10-73, Cl. 303-54.000.

Dow, Alden B. Choreographic musical and/or luminescent appliance. 3,749,810, 7-31-73, Cl. 84-1.240.

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Doyel, John S. Magnetic window cleaning device. 3,731,337, 5-8-73, Cl. 15-220.00a.
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Draegert, David Allison, to Bell Telephone Laboratories, Incorporated. Logitudinal mode stabilization in lasers. 3,750,045, 7-31-73, Cl. 331-94.50c.
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Drake, Noel Francis. Shaping of hollow metal articles. 3,780,410, 12-25-73, Cl. 29-155.00r.
Drake, Stevens S.; Lane, George A.; Staudacher, Gerald R.; and Girardin, Donald W., to Dow Chemical Company, The. Caseless pyrotechnic smoldering munition. 3,712,233, 1-23-73, Cl. 102-103.000.
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Dranoff, Samuel. Grasping device. 3,727,963, 4-17-73, Cl. 294-23.000.
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Drexhage, Karl H.; and Reynolds, George A., to Eastman Kodak Company. Laser dye composition. 3,781,711, 12-25-73, Cl. 331-94.500.
Drexhage, Martin G., to Textron, Inc. Reverse flow internally-cooled rocket engine. 3,712,059, 1-23-73, Cl. 60-258.000.
Drexler, Jerome, to Drexler Technology Corporation. Optical overlay method and apparatus with coincidence and non-coincidence registration feature. 3,719,801, 3-6-73, Cl. 235-61.12n.
Drexler, John J., to Montgomery Elevator Company. Monitor for phase sequence and loss. 3,764,904, 10-9-73, Cl. 324-86.000.
Drexler, John J., to Montgomery Elevator Company. Smoke and fire detector for automatic elevator system. 3,773,145, 11-20-73, Cl. 187-29.00r.
Drexler, Karl F.; and Winchester, Robert L., to General Electric Company. Generator excitation system with rotating electromagnetic energy converter and internal winding power source. 3,768,002, 10-23-73, Cl. 322-25.000.
Drexler Technology Corporation: *See—*
Drexler, Jerome, 3,719,801.
Dreyer, Gunter: *See—*
Dzimoba, Willy; Beole, Rainer; Wolf, Gerhard; and Dreyer, Gunter, 3,765,436.
Dziomba, Willy; Beule, Rainer; Dreyer, Gunter; and Wolf, Gerhard, 3,768,499.
Dreyfoos, Alex W., Jr., to Photo Electronics Corporation. Logarithmic circuit with automatic compensation for variations in conditions of operations. 3,724,954, 4-3-73, Cl. 356-175.000.
Dreyfus, Edward: *See—*
Collura, Lawrence, 3,710,111.
Dreyfus, Gaspard: *See—*
Bourgain, Louis; Dreyfus, Gaspard; Le Nabour, Marcel; and Rouquie, Georges, 3,765,735.
Dreyfus, L. A. Company: *See—*
Phillips, Michael; and Jurow, Victor A., 3,779,410.
Dreyfus, Robert L., to Grace, W. R., & Co. Plastic carrier package. 3,744,626, 7-10-73, Cl. 206-65.00c.
Dreyfus, Russell W.; and Hornberger, William P., to International Business Machines Corporation. Synthesis of photochromic sodalite by a diffusion process. 3,760,063, 9-18-73, Cl. 423-328.000.
Drezin, Gary D.; Quackenbush, Edward C.; and Ericson, Alfred E., to Tidal Sales Corporation, mesne. Co-axial connector including positive clamping features for providing reliable electrical connections to the center and outer conductors of a co-axial cable 3,761,870, 9-25-73, Cl. 339-177.00r.
Dri-Frac Limited: *See—*
Lozanski, Walter R., 3,713,487.
Driall Driers, Inc.: *See—*
Applegate, Robert D., 3,721,179.
Driard, Bertrand M.; Guyot, Lucien F.; and Roziere, Guy, to Thomson-CSF. X-ray and gamma-ray scintillators and to the detector screens which which incorporate same. 3,769,059, 10-30-73, Cl. 117-33.50r.
Dribelbis, Norman C.: *See—*
Barker, John H.; Dribelbis, Norman C.; and Stevens, Keith B., Sr., 3,779,542.
Dribnenki, Joe J. Self-contained gasoline fry pan. 3,745,987, 7-17-73, Cl. 126-38.000.
Drico Industrial Corporation: *See—*
Hansen, Elwood F.; and Goldberg, Arnold, 3,768,642.
Dries, James P., to Doerr Electric Corporation. Convertible thermal safety cut-out switch. 3,710,294, 1-9-73, Cl. 337-66.000.
Driesel, Franz: *See—*
Brichta, Franz; and Driesel, Franz, 3,740,798.
Driesenga, Edwin J.: *See—*
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Driessen, Antonius Jozephus Gerardus Cornelis: *See—*
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Driffort, Jean Pierre: *See—*
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Driggs, Leslie W., to Nutrionics Machine Corporation. Method of peeling eggs. 3,764,714, 10-9-73, Cl. 426-234.000.
Driggs, Leslie W. Apparatus for peeling eggs. 3,774,525, 11-27-73, Cl. 99-568.000.
Drill-Au-Mation, Inc.: *See—*
Sheldon, Loren B.; Cain, Lester Lee; and Dower, Ethell J., 3,728,896.
Drillick, Jacob H., to Data Card Corporation. High speed automatic card embosser. 3,757,684, 9-11-73, Cl. 101-18.000.
Drinkard, B. M.: *See—*
Allen, Paul T.; Drinkard, B. M.; and Unger, Edward H., 3,724,170.
Drinkard, William Charles, Jr.: *See—*
Chia, Yuan-Tsan; Drinkard, William Charles, Jr.; and Squire, Edward Noonan, 3,766,237.
Drinkard, William Charles, Jr., to Du Pont de Nemours, E. I., and Company. Catalytic isomerization of 2-methyl-3-butenenitrile to linear pentenenitriles. 3,739,011, 6-12-73, Cl. 260-465.900.
Drinkard, William Charles, Jr.; and Lindsey, Richard V., to Du Pont de Nemours, E. I., and Company. Hydrocyanation of olefins. 3,752,839, 8-14-73, Cl. 260-465.80r.
Drinkard, William Charles, Jr., to Du Pont de Nemours, E. I., and Company. Removal of metal cations from solution in nitriles. 3,766,241, 10-16-73, Cl. 260-465.80r.
Drinkard, William Charles, Jr., to Du Pont de Nemours, E. I., and Company. Selective hydrogenation of aromatic hydrocarbons to cycloolefins. 3,767,720, 10-23-73, Cl. 260-667.000.
Drinkard, William Charles, Jr.; and Taylor, Brian W., to Du Pont de Nemours, E. I., and Company. Hydrocyanation of olefins. 3,775,461, 11-27-73, Cl. 260-465.300.
Drinkwater, James M. Toilet-bowl disinfectant-detergent holder and dispenser. 3,736,600, 6-5-73, Cl. 4-231.000.
Drinkwater, John W.; and Evans, Albert, to Shell Oil Company. Electron capture identification apparatus. 3,714,812, 2-6-73, Cl. 73-23.100.
Driscoll, Alfred E.: *See—*
Singer, William; and Driscoll, Alfred E., 3,770,684.
Driscoll, Gary L.: *See—*
Haseltine, Marcus W., Jr.; and Driscoll, Gary L., 3,715,313.
Driscoll, Gary L.; Duling, Irl N.; Gates, David S.; and Warren, Robert W., to Sun Research and Development Co., mesne. Branched hydrocarbons in the $C_{16}$-$C_{40}$ range having maximally crowded geminal methyl groups. 3,775,503, 11-27-73, Cl. 260-676.000.
Driscoll, Gary L.; Duling, Irl N.; and Gates, David S., to Sun Research and Development Company, mesne. Polyisobutylene oil having a high viscosity index. 3,778,487, 12-11-73, Cl. 260-676.00r.
Driscoll, Hiram E., to Hercules Incorporated. Detonator assembly, and booster and blasting system containing same. 3,709,149, 1-9-73, Cl. 102-22.000.
Driscoll, James R.; Clark, Earl E.; and Haas, Thomas J., to Diamond Tool & Die Company. Sprue bushing for a single cavity or center sprued mold. 3,767,340, 10-23-73, Cl. 425-146.000.
Driscoll, John J.: *See—*
Alston, William W.; Driscoll, John J.; and Wareham, Richard R., 3,779,770.
Driscoll, John J.; and Whall, James M., to Polaroid Corporation. Photographic film processing apparatus. 3,776,118, 12-4-73, Cl. 95-89.001.
Driscoll, Richard E., to Cities Service Company, mesne. Feeding of powders. 3,733,011, 5-15-73, Cl. 222-193.000.
Driscoll, Richard P.; Lannert, James W.; and Beaver, Donald V., to All-Steel Equipment, Inc. Chair base swivel arrangement. 3,778,014, 12-11-73, Cl. 248-406.000.
Driscoll, Walter, to Warnaro Inc. Brassiere hanger and display system. 3,738,549, 6-12-73, Cl. 223-85.000.
Driscoll, William T., to Eastman Kodak Company. Process for making paper. 3,730,830, 5-1-73, Cl. 162-146.000.
Driskell, Carl R.; and Owen, Joseph R., to United States of America, Navy. Sweep generator with automatic centering. 3,713,000, 1-23-73, Cl. 315-24.000.
Driskell, Carl R., to United States of America, Navy. Shrunken raster with image insetting. 3,746,782, 7-17-73, Cl. 178-6.850.
Driskell, Carl R., to United States of America, Navy. Color electronic synthesizer. 3,769,458, 10-30-73, Cl. 178-5.20r.
Driskill, Berl. Electrical game apparatus. 3,737,168, 6-5-73, Cl. 273-156.000.
Dritron, Incorporated: *See—*
Parkinson, Martin C., 3,765,453.
Drive-In Theatre Manufacturing Company: *See—*
Dhooge, Jacque R., 3,766,363.
Driver, Wilbur B., Company: *See—*
Geissler, George N.; and Smith, Harry Clark, 3,753,817.
Gottlieb, Arnold J.; and Majesko, George A., 3,743,485.
Gottlieb, Arnold J.; and Majesko, George A., 3,762,025.
Majesko, George A., 3,726,671.
Schlenker, Juergen; and Wang, Teh Po, 3,723,106.
Starr, Carrol Dean; Steinitz, Robert; and Wang, Teh Po, 3,749,569.
Starr, Carrol Dean; and Wang, Teh Po, 3,776,781.
Drnges, Ernst; and Wagner, Fritz, to Sigri Elektrographit GmbH. Protection from laser radiation. 3,720,836, 3-13-73, Cl. 250-108.0fs.
Drnu, Claude: *See—*
Gorinas, Guy; and Drnu, Claude, 3,763,821.
Drobnick, James L.: *See—*
Daugherty, Ellsworth W.; Erhard, Albert E.; and Drobnick, James L., 3,739,057.
Droegemueller, James T.: *See—*



Johnson, Charles D.; and Droegemueller, James T., 3,709,464.
Drogen, Incorporated: *See—*
Halley, Henry H., Jr., 3,763,781.
Drogi, Dieter, to Olympia Werke AG. Escapement controlling tabulating apparatus. 3,777,870, 12-11-73, Cl. 197-94.000.
Drogin, Robert, to Esso Research and Engineering Company. Stabilizing the color of neo-carboxylic acids. 3,733,341, 5-15-73, Cl. 260-398.500.
Drogo, Pierre Louis Marie. Pin for electrical connectors as well as connectors provided with this pin. 3,720,905, 3-13-73, Cl. 339-97.00r.
Drohan, William A.; Valge, Juri; and Warner, David A., to United States of America, Air Force. Space vehicle system for determining earth's ultraviolet radiation limb. 3,715,594, 2-6-73, Cl. 250-83.3uv.
Drohomirecky, Walter. Toothbrush which dispenses toothpaste. 3,712,747, 1-23-73, Cl. 401-155.000.
Droke, Darrell W.; Ochampaugh, Donald R.; and Krumm, Andrew G., to Cragar Industries, Inc. Adjustable limit for the advance of an ignition distributor. 3,776,211, 12-4-73, Cl. 123-146.50a.
Droll, Hans. Inserting tool for inserting coils into stator grooves. 3,717,918, 2-27-73, Cl. 29-205.00r.
Droll, Hans. Apparatus for drawing in wound coils into stators of electrical machines and the like. 3,762,017, 10-2-73, Cl. 29-205.00r.
Dromsky, John A., to Texas Instruments, Incorporated. Composite material, tubing made from the material, and methods for making the material and tubing. 3,775,194, 11-27-73, Cl. 148-12.000.
Dron, Ninel Alexeevna: *See—*
Belkin, Nikolai Vasilievich; Alexandrovich, Eduard-Gely Vitalievich; Razin, Anatoly Alexandrovich; Kanunov, Mikhail Alexeevich; Tsukerman, Veniamin Aronovich; Sloeva, Galina Nikolaevna; Tsvetkov, Leonard Vasilievich; and Dron, Ninel Alexeevna, 3,716,737.
Drone, Gary A., to Allis-Chalmers Corporation. Filter system for crawler tractor final drives. 3,767,014, 10-23-73, Cl. 184-6.120.
Drost, Adrian D.; and Glanz, Ronald P., to Kimberly-Clark Corporation. Apparatus for cooling a traveling web of material. 3,714,720, 2-6-73, Cl. 34-120.000.
Drost, Albertus, to U.S. Philips Corporation. Combined data and set-reset flip-flop with provisions for eliminating race conditions. 3,751,683, 8-7-73, Cl. 307-218.000.
Droste, Theodore Carl, to Klipfontein Organic Products Corporation, Limited. Process for the production of neutral calcium hypochlorite crystals. 3,760,064, 9-18-73, Cl. 423-474.000.
Drott, Helmut: *See—*
Brumm, Karl; Moos, Jakob; Weber, Jorg; Drott, Helmut; and Stelzig, Russelsheim, 3,738,197.
Drott Manufacturing Corporation: *See—*
Tucek, Frank J., 3,727,653.
Droughton, John; and Rhodes, Robin, to Isothermics Incorporated. Method for producing heat pipes. 3,769,674, 11-6-73, Cl. 29-157.30r.
Drouhard, Alfred J., Jr.; and Weeks, John R., Jr., to Mansfield Sanitary, Inc. Soil pump sewage handling system, method and toilet apparatus adapted therefor. 3,727,241, 4-17-73, Cl. 4-10.000.
Drouin, Andre H., to Rockwell Manufacturing Company. Subsidence wellhead assembly and method. 3,738,426, 6-12-73, Cl. 166-315.000.
Drouin, Andre H., to Rockwell Manufacturing Company. Subsidence wellhead assembly and method. 3,741,297, 6-26-73, Cl. 166-89.000.
Droulin, Jean Louis: *See—*
Trubert, Georges; and Droulin, Jean Louis, 3,718,924.
Drovenkov, Evgeny Alexandrovich: *See—*
Bukhman, Aron Borukhovich; Drovenkov, Evgeny Alexandrovich; Ivaschenko, Felix Alexandrovich; Aizenshtein, Aron Meerovich; and Yanushkevich, Igor Lvovich, 3,719,950.
Drown, George C., 1/2 to Larson, Leward M. Test circuit for vehicle tire air pressure monitoring system. 3,757,295, 9-4-73, Cl. 340-58.000.
Drown, John L.; and Peppel, Howard C., to Westinghouse Electric Corporation. Metal-enclosed switchgear. 3,746,817, 7-17-73, Cl. 200-168.00k.
Droz, Francois; Petitpierre, Jean-Paul; and Tosalli, Joseph, to Reuge S.A. Ski binding. 3,778,075, 12-11-73, Cl. 180-11.35t.
Droz, Julius, to Lee, Raymond, Organization, Inc., The. Hat with ventilating means. 3,735,423, 5-29-73, Cl. 2-171.300.
Drozdov, Alexander Alexandrovich: *See—*
Borkovsky, Gennady Mikhailovich; Drozdov, Alexander Alexandrovich; Kreisburg, Vladimir Markovich; and Tsukanov, Anatoly Andreevich, 3,777,308.
Drucker, Ernest R. Modular building and service tower therefor. 3,733,763, 5-22-73, Cl. 52-126.000.
Drucker, Gerhard; and Filsinger, Reinhard, to Daimler-Benz Aktiengesellschaft. Fog rear light. 3,746,918, 7-17-73, Cl. 315-77.000.
Drucker, Kenneth G., to Bio-Consultants, Inc. Centrifuge rotor head and sample holder assembly. 3,743,174, 7-3-73, Cl. 233-26.000.
Drucker, Robert M., to Bio-Consultants, Inc. Centrifuge power head with mounting means. 3,750,941, 8-7-73, Cl. 233-26.000.
Drucker, Rubin: *See—*
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Drueger, Alan F.: *See—*
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Drufger, Archie S.: *See—*
Nystrand, Ernst Daniel; and Drufger, Archie S., 3,770,172.
Drugmand, Lester D., to Emerson Electric Co. Heating and cooling units. 3,730,262, 5-1-73, Cl. 165-46.000.
Drugmand, Lester D., to Emerson Electric Co. Electric heating elements. 3,746,838, 7-17-73, Cl. 219-512.000.
Druin, Melvin, to Celanese Corporation. Production of resin impregnated fibrous graphite ribbons. 3,723,157, 3-27-73, Cl. 117-46.0cb.
Druin, Melvin L.; Ferment, George R.; and Rao, Velliyur N. P., to Celanese Corporation. Surface modification of carbon fibers. 3,723,150, 3-27-73, Cl. 106-307.000.
Druin, Melvin L.; Ferment, George R.; and Rao, Velliyur N. P., to Celanese Corporation. Enhancement of the surface characteristics of carbon fibers. 3,754,957, 8-28-73, Cl. 106-307.000.
Drukker, Alexander E., to Colgate-Palmolive Company. Process for preparing isomer of 2-chloro-11-(3-dimethylaminopropylidine) morphanthridine. 3,770,723, 11-6-73, Cl. 260-239.00d.
Drukker, D., & Zn. N.V.: *See—*
Seal, Michael, 3,721,289.
Drum, Harvey R.; Witherill, Jeffry L.; and Rennwald, Fredrick H. Mechanical pickup device for animal droppings. 3,757,737, 9-11-73, Cl. 119-1.000.
Drumheller, Kirk. Child proof latches. 3,780,547, 12-25-73, Cl. 70-78.000.
Drumm, Arthur E. Rotary sweeper brush. 3,715,773, 2-13-73, Cl. 15-183.000.
Drumm, Arthur E. Apparatus for producing brush sections. 3,776,596, 12-4-73, Cl. 300-2.000.
Drummer, Max; Michael, Wolfgang; Munch, Werner; and Riegert, Rupert, to Schuler, L., Messrs., GmbH. Press with overhead drive. 3,719,091, 3-6-73, Cl. 74-44.000.
Drummond, Carl N.; Bybee, Richard T.; Mason, Fred L.; and Worsham, Herbert J., Jr. Nuclear reactor core monitoring system. 3,751,333, 8-7-73, Cl. 176-19.00r.
Drummond, Glenn R.; and Clutter, Barry F., to Koppers Company, Inc. Modular unit for a floating dock system. 3,760,754, 9-25-73, Cl. 114-.50f.
Drummond Instrument Company: *See—*
Drummond, Michael E.; and Robinson, John E., 3,720,354.
Drummond, Michael E.; and Robinson, John E., to Drummond Instrument Company. Dispensing micropipette apparatus having disposable parts. 3,720,354, 3-13-73, Cl. 222-386.000.
Drummond, Warren W.; and Denniston, Donald W., to PPG Industries, Inc. Glass fiber forming and coating process. 3,718,448, 2-27-73, Cl. 65-3.000.
Drummond, Warren W., to PPG Industries, Inc. Apparatus for combining textile strands. 3,730,813, 5-1-73, Cl. 156-441.000.
Drupals, Henry. Method and device for the mass manufacture of modular concrete units. 3,764,648, 10-9-73, Cl. 264-256.000.
Drury, Harvey J.: *See—*
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Drury, Raymond L., Jr.: *See—*
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Druschel, William O.; Karsch, Arthur F.; and Schneider, William C., Jr., to International Business Machines Corpofation. Mask bit error indicator. 3,745,897, 7-17-73, Cl. 95-12.000.
Drushel, Robert W., to Ex-Cell-O Corporation. Diode-capacitor charge and discharge circuit. 3,713,010, 1-23-73, Cl. 320-1.000.
Drushel, Robert W. Percentage of maximum current and threshold voltage responsive electronic control circuit and method. 3,714,005, 1-30-73, Cl. 204-129.200.
Drushel, Robert W., to Ex-Cell-O Corporation. Zener coupled amplifier circuit with feedback. 3,740,579, 6-19-73, Cl. 307-235.000.
Drushel, Robert W., to Ex-Cell-O Corporation. Voltage surge electronic control circuit and method. 3,761,366, 9-25-73, Cl. 204-129.200.
Drushel, Robert W., to Ex-Cell-O Corporation. Structure for and method of pulse amplitude detection. 3,772,603, 11-13-73, Cl. 328-108.000.
Druskin, Bernard. Snap clasp for bracelets. 3,739,433, 6-19-73, Cl. 24-230.0cf.
Druss, Barry Lewis; and Williams, Kendall Scott, to Chimera Research and Development, Inc. Ski binding. 3,727,932, 4-17-73, Cl. 280-11.35k.
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Drutchas, Gilbert H.; Clark, Hubert M.; and Melendy, Harold A., to TRW Inc. Variable delivery pump. 3,730,653, 5-1-73, Cl. 418-32.000.
Druth Packaging Corporation: *See—*
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Druzhinin, Nikolai Sergeevich: *See—*

Zarezankov, Georgy Khristovich; Khokhlov, Alexander Semenovich; Cherepnev, Valery Ivanovich; Druzhinin, Nikolai Sergeevich; and Budtolaev, Konstantin Nikolaevich, 3,713,739.
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Kahwati, Ghassan N.; Gade, John N.; Mac Kay, James D.; and Druzynski, Conrad J., 3,780,961.
Drwal, Ted H.; and Perlman, Michael J., said Drwal, Ted H., assor. to said Perlman, Jay M. Coffee brewer. 3,740,231, 6-19-73, Cl. 99-71.000.
Dryan, James J.: *See—*
Scarnato, Thomas J.; Dryan, James J.; Nicholson, James J.; and Falanga, Anthony J., 3,770,064.
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Dryden, Gale E. Unitary disposable circle absorption canister assembly. 3,738,360, 6-12-73, Cl. 128-188.000.
Dryden, Gale E., to Dryden Corporation. Venting device and method for anesthetic administration. 3,752,186, 8-14-73, Cl. 137-608.000.
Dryden, Hugh L., Jr.; and Wieczorek, Joseph, to Searle, G. D., & Co. Process for the preparation of 3-(3β, 17β-dihydroxyandrost-5-en-11α-yl) propionic acid γ-lactone. 3,738,983, 6-12-73, Cl. 260-239.570.
Dryden, Kerin Lee; and Ebrey, Roger George Anthony, to Western Electric Company, Incorporated. Crimping tool for forming peripheral grooves in cylindrical articles. 3,750,453, 8-7-73, Cl. 72-402.000.
Dryden, Paul C.: *See—*
Hansen, Gerald D.; and Dryden, Paul C., 3,757,210.
Weisstuch, Aaron; Schell, Charles E., III; and Dryden, Paul C., 3,716,460.
Dryden, Vernon W., to Xerox Corporation. Apparatus for minimizing image smear due to ion caused undercutting. 3,780,288, 12-18-73, Cl. 250-315.000.
Drydock Trailers, Inc.: *See—*
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Dryon, Jacques Max Charles, to Ateliers Heuze, Malevez et Simon Reunis Societe Anonyme. Apparatus for applying pressure to an advancing web of rigid material. 3,724,045, 4-3-73, Cl. 29-90.000.
Dryspell Industries, Inc.: *See—*
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Drysz, Piotr: *See—*
Paszek, Wladyslaw; Drysz, Piotr; Nycz, Edward; and Wycisk, Walenty, 3,771,052.
Drzewiecki, Tadeusz M., to United States of America, Army. High speed decoupled fluidic switching device. 3,720,218, 3-13-73, Cl. 137-839.000.
Drzewiecki, Tadeusz M.; and Manion, Francis M., to United States of America, Army. Pure fluidic strain gage. 3,744,303, 7-10-73, Cl. 73-88.00r.
Drzewiecki, Tadeusz M.; and Goto, John M., to United States of America, Army. Extended duration fluidic time delay device. 3,766,733, 10-23-73, Cl. 60-36.000.
DS Electro-Optical Incorporated: *See—*
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DS-Chemie GmbH & Co. KG: *See—*
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Stoytenev, Stoyteno Grigorov; Stoilov, Gueorgui Kirilov; Tsanev, Tsani Konstantinov; Gueorguiev, Zdravko Marinov; and Stoyanov, Gueorgui Yordanov, 3,710,967.
DSO "Bulgarplod": *See—*
Kafejiev, Iliya Chudomirov; Guenchev, Lubomir Nikolov; and Klyamov, Kostadin Spirov, 3,769,439.
DSO "Cherna Metalurgia i Rudodobiv: *See—*
Lambev, Yordan Gueorguiev, 3,748,920.
DSO "ZMM": *See—*
Dimitrov, Atanas Vasilev; and Stoilov, Nicola Demov, 3,762,568.
Du Bell, Thomas L.; and Taylor, Jack R., to General Electric Company. Recirculating annular slot fuel/air carbureting system for gas turbine engine combustors. 3,736,746, 6-5-73, Cl. 60-39.360.
Du Bois, Chester, to Outboard Marine Corporation. Diaphragm carburetor. 3,765,657, 10-16-73, Cl. 261-37.000.
Du Bois, Chester G.; and Hunt, Paul R., to Outboard Marine Corporation. Diaphragm valve. 3,746,036, 7-17-73, Cl. 137-496.000.
Du Bois, Edward F., to Singer Company, The. Lead straightner for axial lead components. 3,744,535, 7-10-73, Cl. 140-147.000.
Du Bois, Edward M. Press device. 3,717,022, 2-20-73, Cl. 72-386.000.
Du Bois, Paul: *See—*
Bequet, Jean Francois; Van Asbroeck, Roger; and Du Bois, Paul, 3,744,952.
Du Bois, Thomas C. Camper base and trailer. 3,719,384, 3-6-73, Cl. 296-23.0mc.
Du Bose, Charles R.; and Jessup, Harvey A., to North American Rockwell Corporation. Viscous strain gage. 3,719,913, 3-6-73, Cl. 338-2.000.
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Duckett, John C.; Ensley, Rufus Neal; Williams, Leland E.; and Logan, Arthur D., to Dayco Corporation. Rotary anvil construction. 3,739,675, 6-19-73, Cl. 83-659.000.
Duckler, Sheldon; Kennedy, David P.; and Norland, Kenneth S., to Polaroid Corporation. Flexible plastic flash illumination devices with solid pyrotechnic material. 3,751,656, 8-7-73, Cl. 240-13.000.
Duckworth, James J., to Ballantine Laboratories, Inc., mesne. True RMS to DC converters. 3,723,845, 3-27-73, Cl. 321-1.500.
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Duembgen, Gerd; and Platz, Rolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for removing carbon dioxide from acetylene. 3,775,507, 11-27-73, Cl. 260-679.00a.
Duennenberger, Max; Schellenbaum, Max; and Casagrande, Fulvio, to Ciba-Geigy AG. Quaternary ammonium aryl carboxylic acid salts. 3,708,527, 1-2-73, Cl. 260-501.159.
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Duerdoth, Winston Theodore; Hughes, Charles Joseph; Hesketh, John Frederick; and Morton, William Desmond, to Postmaster
Ziesche, Kurt; Hans, Waldemar; Duffner, Josef; Brune, Gerhard; and Grob, Alfred, 3,732,893.



Duggins, Ray B. Process for curing methyl methacrylate in the presence of peroxy catalysts. 3,775,364, 11-27-73, Cl. 260-41.00a.
Dulhunty, Philip Wellesley, to Dulmison (Australia) Pty., Limited

Duerdoth, Winston Theodore; Hughes, Charles Joseph; Hesketh, John Frederick; and Morton, William Desmond, to Postmaster General, Her Majesty's. Time disivion multiplex communication systems. 3,760,107, 9-18-73, Cl. 179-15.0by.
Duerdoth, Winston Theodore; and Hughes, Charles Joseph, to Postmaster General, Her Majesty's. Crosspoint error detection in time division multiplex switching systems. 3,760,115, 9-18-73, Cl. 179-18.0gf.
Dueringer, Heinrich, to Ediphor AG. Method and appararus for reproducing television images from a video signal. 3,774,233, 11-20-73, Cl. 178-7.50d.
Duerksen, Arnold, to Cochran Western Corporation. Tractor-trailer side tow construction. 3,722,921, 3-27-73, Cl. 280-473.000.
Duerr, Bruno A., to General Motors Corporation. Power transmission. 3,727,485, 4-17-73, Cl. 74-782.000.
Duerr, Bruno A., to General Motors Corporation. Engine turbocharger drive system. 3,739,572, 6-19-73, Cl. 60-13.000.
Duerr, Dieter; Aebi, Hans; and Ebner, Ludwig, to Ciba-Geigy AG. Bromophenylformamidines. 3,781,356, 12-25-73, Cl. 260-564.00r.
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Duerr, Francis R.: *See—*
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Duerr, Wolfgang F. Tooth brush-retractable pen. 3,749,503, 7-31-73, Cl. 401-195.000.
Duerst, Henry. Portable carcass skid. 3,771,808, 11-13-73, Cl. 280-19.000.
Duesberg, Joe D., to United States of America, Air Force. Method of preventing the plugging of liquid coolant passages of a regeneratively cooled rocket engine thrust chamber. 3,724,048, 4-3-73, Cl. 29-157.00c.
Duey, Clarence J.; Prinz, Roy H.; and Ramey, James M., to Celanese Corporation. Recovery of pentaerythitol using tert-butyl alcohol. 3,766,277, 10-16-73, Cl. 260-637.00p.
Dufault, Emmanuel Joseph; and Heeks, David Andrew, to Syron Corporation. Separation process. 3,780,075, 12-18-73, Cl. 260-412.600.
Dufayet, Jean-Pierre, to Commissariat a l'Energie Atomique. Eddy-current test apparatus for detection of flaws in a metal seal placed within an electrically conductive tube. 3,737,764, 6-5-73, Cl. 324-40.000.
Dufer, William B.: *See—*
Elder, J. Calvin; and Dufer, William B., 3,736,420.
Dufes, Bernard, to Altec-Sopitec S.A. Packaging assembly of heat-sealable film material. 3,721,383, 3-20-73, Cl. 229-63.000.
Duff, Billy E.; and Taliaferro, Gerald R., to LTV Electrosystems, Inc. Torque motor. 3,714,610, 1-30-73, Cl. 335-229.000.
Duff, Frank; and Simon, James Louis, to Bell Telephone Laboratories, Incorporated. Control arrangement for hands-free telephone operation. 3,743,791, 7-3-73, Cl. 179-81.00b.
Duff, Frank; and Simon, James Louis, to Bell Telephone Laboratories, Incorporated. Message waiting lamp arrangement. 3,743,792, 7-3-73, Cl. 179-84.00c.
Duff, Geoffrey E., to Norprint Limited. Labels. 3,764,447, 10-9-73, Cl. 161-38.000.
Duff, Harold S.: *See—*
Shefler, Sydney; and Duff, Harold S., 3,745,324.
Duff, Joseph Howard; and Smith, Paul Joseph. Paper perforating device. 3,748,737, 7-31-73, Cl. 30-358.000.
Duff, Raymond A. Cementatious material and constructions made therefrom. 3,753,849, 8-21-73, Cl. 161-162.000.
Duff-Norton Company, Inc.: *See—*
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Duffer, Edward F.; Funk, Ernest J.; Jankowski, Alfred S.; Lane, Jack C.; Lehner, William L.; Oliver, Floyd F.; and Schneider, Mark, to Fairchild Camera and Instrument Corporation. Structure for simultaneously attaching a plurality of semiconductor dice to heir respective package leads. 3,765,590, 10-16-73, Cl. 228-6.000.
Duffey, Joseph G. Dust monitoring system and method. 3,772,851, 11-20-73, Cl. 55-18.000.
Duffield, Jack J.: *See—*
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Coley, Eric Harry; and Duffield, James, 3,732,850.
Duffield, Peter L., to Mead Corporation, The. Catcher for a jet drop recorder. 3,777,307, 12-4-73, Cl. 346-75.000.
Duffield, Robert. Cargo vehicle construction. 3,731,968, 5-8-73, Cl. 296-10.000.
Duffin, George F.: *See—*
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Duffty, Bryan; Golob, Theodore B.; Jasinski, Stanley C.; and Zwart, Jack, to Eaton Yale & Towne Canada Limited. Method and apparatus for harvesting trees. 3,708,000, 1-2-73, Cl. 144-3.00d.
Duffy, Donald E., to General Electric Company. Method and apparatus for sensing surface displacement orthogonal to the line of sight. 3,767,308, 10-23-73, Cl. 356-109.000.
Duffy, James J.: *See—*
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Duffy, James J., to Ford Motor Company. Power steering mechsnism for automotive vehicles. 3,733,967, 5-22-73, Cl. 91-375.00a.
Duffy, James J., to Ford Motor Company. Power steering gear mechanism. 3,747,471, 7-24-73, Cl. 91-382.000.
Duffy, James V.: *See—*
Augl, Joseph M.; and Duffy, James V., 3,726,899.
Duffy, James V.; and Augl, Joseph M., to United States of America, Navy. Phenylated amide-quinoxaline copolymers. 3,746,687, 7-17-73, Cl. 260-50.000.
Duffy, Michael C.; Riseman, Jacob; and Wu, Bevan P. F., to International Business Machines Corporation. Coated semiconductor structures and methods of forming protective coverings on such structures. 3,760,242, 9-18-73, Cl. 317-235.00r.
Duffy, Michael C.; Schumann, Paul A., Jr.; and Yeh, Tsu-Hsing, to International Business Machines Corporation. Monolithic integrated circuits. 3,770,516, 11-6-73, Cl. 148-33.000.
Duffy, Patrick J.: *See—*
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Duffy, William, to Wiss, J., & Sons Co. Shears having clearance adjusting means between pivotal cooperating members. 3,740,846, 6-26-73, Cl. 30-267.000.
Dufour, Claude: *See—*
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Dufour, Henri: *See—*
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Dufour, Raymond James; and Rush, William F., to Gas Developments Corporation, mesne. Environmental control unit. 3,774,374, 11-27-73, Cl. 55-316.000.
Dufton, J. Peter; and Hallman, Beverley G., to GTE Automatic Electric Laboratories Incorporated. Computer having associative search apparatus. 3,729,718, 4-24-73, Cl. 340-172.500.
Dufton, John P.: *See—*
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Dufton, John Peter: *See—*
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Dufton, John Peter, to GTE Automatic Electric Laboratories Incorporated. Stored program small exchange with registers and senders. 3,749,844, 7-31-73, Cl. 179-18.0es.
Dugan, James G.; Hancock, Albert S., Jr.; Hausske, Gene W.; Huston, Kenneth G.; Rosenberg, Bernard L.; and Smith, Shirley M., to Robbins Incubator Co. Egg rack and method of handling same. 3,747,568, 7-24-73, Cl. 119-44.000.
Dugan, Kendrick W.; and Lish, Paul M., to Mead Johnson & Company. Process of treating peptic ulcer with a anticholinergic agent. 3,743,746, 7-3-73, Cl. 424-330.000.
Dugan, Robert; and Boone, Shelby J., 20% interest to Lee, Raymond, Organization, Inc., The. Balloon launching apparatus with target indicating ring. 3,769,955, 11-6-73, Cl. 124-16.000.
Dugan, Thomas J. Lock for a sliding closure. 3,756,641, 9-4-73, Cl. 292-258.000.
Dugard, C., Limited: *See—*
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Duggan, Jeremiah J., to Warner-Lambert Company. Corrosion protected razor blade. 3,736,243, 5-29-73, Cl. 204-196.000.
Duggan, Robert J.: *See—*
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Duggar, Anderson, Jr. Valve. 3,735,957, 5-29-73, Cl. 251-330.000.
Dugge, Richard H., to ACF Industries, Incorporated. Pneumatic hopper outlet for railway cars. 3,708,209, 1-2-73, Cl. 302-52.000.
Dugger, William H.; and Alexander, Wayne K., to International Telephone and Telegraph Corporation. Depositing apparatus. 3,757,833, 9-11-73, Cl. 141-186.000.
Duggi, Richard H.: *See—*
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Duggins, Ray B., to Du Pont de Nemours, E. I., and Company. Flameproof polylactam composition and process for its manufacture. 3,733,283, 5-15-73, Cl. 260-2.50n.



Duggins, Ray B. Process for curing methyl methacrylate in the presence of peroxy catalysts. 3,775,364, 11-27-73, Cl. 260-41.00r.
Dugle, Thomas E.: *See—*
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Duguid, William Richardson: *See—*
Bosworth, Clive James Arthur; and Duguid, William Richardson, 3,768,542.
Duhan, F. Wm., to Crown Cork & Seal Company, Inc. Apparatus for and method of stripping containers from metal working punches. 3,712,107, 1-23-73, Cl. 72-345.000.
Duhl, David N.: *See—*
Boone, Donald H.; Duhl, David N.; and Goward, George W., 3,754,902.
Sullivan, Cornelius P.; and Duhl, David N., 3,711,337.
Duhring, Ornolf; and Damgaard, Lavritz Gudmund, to Struers, H., Chemiske Laboratorium. Method of preparing a test sample of material for grinding or polishing. 3,763,611, 10-9-73, Cl. 51-323.000.
Duhy, Kenneth W., to Pfizer Inc. Container of treated disposable towels. 3,726,395, 4-10-73, Cl. 206-46.0st.
Duikers, Marcel, to Solvay & Cie. Trimming apparatus for rotary extrusion blow-molding machines. 3,741,705, 6-26-73, Cl. 425-311.000.
Duimelaar, Jasper Hendrik, to U.S. Philips Corporation. Transmission system for the transmission of signals between two terminal stations through a transmission line including repeater stations. 3,766,337, 10-16-73, Cl. 179-175.31r.
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Dukats, Ilmars Z.: *See—*
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Duke, Buford W. Hydrostatic shock operated, fast closing valve and sabot. 3,724,320, 4-3-73, Cl. 89-1.00r.
Duke, David A.; and Macdowell, John F., to Corning Glass Works. Glass-ceramic body. 3,720,526, 3-13-73, Cl. 106-39.0dv.
Duke, Douglas Roy; and Pearson, Asa M., to Air Guard Inc. Air purifying means. 3,750,556, 8-7-73, Cl. 98-2.00h.
Duke, Edward D.; and Marquardt, Julius F., to International Harvester Company. Rearfacing engine and rearaxle having offset drive line. 3,779,329, 12-18-73, Cl. 180-54.00f.
Duke, Jimmy R.: *See—*
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Duke, June T.; and Prem, Dorothy C., to Standard Oil Company, The. Methacrylonitrile polymerization process. 3,732,336, 5-8-73, Cl. 260-881.000.
Duke, June T.; and Prem, Dorothy C., to Standard Oil Company, The. Methacrylonitrile polymerization process. 3,742,092, 6-26-73, Cl. 260-880.00r.
Duke, Roy B., Jr.; and Echelberger, Larry M., to Marathon Oil Company. Preparation of catalysts. 3,752,773, 8-14-73, Cl. 252-454.000.
Duke University, Inc.: *See—*
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Dukek, William G.; and Caldwell, Donald A., to Esso Research and Engineering Company. Static charge tester. 3,764,894, 10-9-73, Cl. 324-32.000.
Dukelow, Donald A.; Orehoski, Michael A.; and Veselinovich, Nick, to United States Steel Corporation. Apparatus for immersing and withdrawing bath examination means into and from a molten bath. 3,717,034, 2-20-73, Cl. 73-343.00r.
Duker, Dorothy J., to Vistron Corporation. Hopper loading extrusion apparatus. 3,712,775, 1-23-73, Cl. 425-186.000.
Dukert, Andrew Anthony; and Christofas, Alkis, to Pennwalt Corporation. Polyvinylidene fluoride laminate construction and method. 3,779,854, 12-18-73, Cl. 161-156.000.
Dukes, Michael, to Imperial Chemical Industries Limited. Certain s-triazolo 1,5-a pyrimidines for preventing bronchospasm of reducing body fat. 3,773,949, 11-20-73, Cl. 427-251.000.
Dukes, Sam E.; and Maki, Edwin C., to North American Rockwell Corporation. Lubricating system for power transmitting apparatus. 3,719,253, 3-6-73, Cl. 184-6.120.
Dukette, William L., to American Associated Cybernetics, Inc. Sensor responsive cybernetics machine. 3,770,140, 11-6-73, Cl. 214-1.0bb.
Dukhovny, Rafael Gershonovich; Magarillo, Boris Lvovich; Naidenov, Alexandr Ivanovich; Ovcharov, Bladimir Vasilievich; and Potapjik, Nikolai Nikolaevich, to Chelyabinsky Traktorny Zavod. Directional control valves for the power cylinders of operating elemets of machines. 3,709,103, 1-9-73, Cl. 91-437.000.
Dulaney, George K., to Diebold, Incorporated. Shock absorbing cable connector for pallet loader head. 3,719,349, 3-6-73, Cl. 254-135.00r.
Dulat, Joseph, to United States Borax & Chemical Corporation. Method for treating surfaces of building materials. 3,715,228, 2-6-73, Cl. 117-46.0fc.
Dulebohn, Richard E.; and Gordon, Leonard W., to Elixir Industries. Closure mechanism for louver windows. 3,750,332, 8-7-73, Cl. 49-74.000.
Dulhunty, Philip Wellesley, to Dulmison (Australia) Pty., Limited. Cable vibrator damper with moveable additional weights. 3,711,624, 1-16-73, Cl. 174-42.000.
Dulin, G. N., Jr., to Malden Mills, Inc. Flocked fabric and method for making samc. 3,772,132, 11-13-73, Cl. 161-64.000.
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Thompson, Robert M.; and Duling, Irl N., 3,738,965.
Thompson, Robert M.; and Duling, Irl N., 3,753,950.
Duling, Irl N.; and Merges, John C., Jr., to Sun Oil Company. Method for preparing laminated article of cellulosic and polymeric layers. 3,717,534, 2-20-73, Cl. 156-309.000.
Dullabaun, Paul W.: *See—*
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Price, William E.; and Dullabaun, Paul W., 3,724,811.
Dulle, Bernard A., to Procter & Gamble Company, The. Proximal apex tampon. 3,766,921, 10-23-73, Cl. 128-263.000.
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Dulnker, Hans Dignus; and Leng, Eric Raymond, to U.S. Philips Corporation. Method of manufacturing display screens for cathode-ray tubes. 3,739,439, 6-19-73, Cl. 29-25.180.
Dulog, Lothar G.; and Dewaele, Sylvain A. R., to S.A. Texaco Belgium N.V. Genzo-(1,3,2-) dioxaphospholes. 3,767,733, 10-23-73, Cl. 260-937.000.
Dulpree, Hans-Werner. Apparatus for forming system components of extruded hollow chamber profiles. 3,753,640, 8-21-73, Cl. 425-392.000.
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Dumas, Christ J.; and Simovits, Stephen S., Jr., to American Plasticraft Company. Electron tube socket. 3,767,951, 10-23-73, Cl. 313-51.000.
Dumas, Christ J. Multiplier assembly. 3,777,249, 12-4-73, Cl. 321-8.000.
Dumas, William V., to General Electric Company. Laminates. 3,759,779, 9-18-73, Cl. 156-331.000.
Dumasy, Christ J., to American Plasticraft Company. Multiplier assembly with air and material dielectric barriers. 3,771,024, 11-6-73, Cl. 317-100.000.
Dumbaugh, George D., to Vibranctics, Inc. Apparatus for agitating flowable material. 3,735,963, 5-29-73, Cl. 259-72.000.
Dumbaugh, George D., to Vibranetics, Inc. Means for suspending and vibration isolating flow promoting apparatus from a flowable material container. 3,744,676, 7-10-73, Cl. 222-161.000.
Dumbaugh, William H., Jr. Infrared transmissive lead bismuthate glasses. 3,723,141, 3-27-73, Cl. 106-47.00r.
Dumbaugh, William H., Jr.; and Malmendier, Joseph W., to Corning Glass Works. Electrical lamp or tube comprising copper-coated nickel-iron alloy electrical current conductors and a glass enclosure. 3,723,790, 3-27-73, Cl. 313-221.000.
Dumbaugh, William H., Jr.; Flannery, James E.; Megles, John E.; and Smith, John A., to Corning Glass Works. Method for making multi-layer laminated bodies. 3,737,294, 6-5-73, Cl. 65-33.000.
Dumbaugh, William H., Jr., to Corning Glass Works. Method of depressing the liquidus temperature of lanthanum aluminogermanate glasses, and the glasses produced. 3,769,047, 10-30-73, Cl. 106-47.00q.
Dumeah, Peter J., to TRW Inc. Convertible rack and pinion steering gear. 3,709,099, 1-9-73, Cl. 91-54.000.
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Dumke, William P.; Rideout, Vincent L.; and Woodall, Jerry M., to
Duncan, James E. Roof standing water eliminator. 3,757,812, 9-11-

Dumke, William P.; Rideout, Vincent L.; and Woodall, Jerry M., to International Business Machines Corporation. Bipolar transistor with a heterojunction emitter and a method fabricating the same. 3,780,359, 12-18-73, Cl. 317-235.00r.
Dummer, Merlin R., to Cutler-Hammer, Inc. Off locking trigger switches. 3,746,815, 7-17-73, Cl. 200-157.000.
Dummer, Robert E., to Bucyrus-Erie Company. Synchronized control system for telescoping booms. 3,760,688, 9-25-73, Cl. 91-412.000.
Dummer, Robert E., to Bucyrus-Erie Company. Free fall circuit for hydraulic winch. 3,764,111, 10-9-73, Cl. 254-187.00r.
Dummermuth, Ernst, to Allen-Bradley Company. Numerical control servo drive signal generating system. 3,710,222, 1-9-73, Cl. 318-604.000.
Dummermuth, Ernst; and Walters, Ronnie G., to Allen-Bradley Company. Digital to analog converter. 3,754,235, 8-21-73, Cl. 340-347.0da.
Dumont, Roger, to Bernard, Louis M., mesne. Hitching attachment for a snowmobile. 3,741,578, 6-26-73, Cl. 280-24.000.
Dumont, Walter M., Jr. Line boring bar assembly. 3,767,316, 10-23-73, Cl. 408-79.000.
Dumser, John M., Jr.: *See—*
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Dunagan, Lawrence G. Integrated boat-trailer-camper apparatus. 3,755,838, 9-4-73, Cl. 9-1.00t.
Dunand, Andre; Jarry, Jacques; and Gloanec, Maurice, to Sescosem-Societe Europeenne de Semiconducteurs et de Microelectronique. Electromechanical vibration pick-ups and record pick-ups with field effect transistors. 3,740,494, 6-19-73, Cl. 179-100.41k.
Dunand, Jean Jacques, to Thomson-CSF. Gyromagnetic resonance spectrometers. 3,753,097, 8-14-73, Cl. 324-.50r.
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Dunay, Michael, to Celanese Corporation. Production of lightweight polybenzimidazole insulative material. 3,775,213, 11-27-73, Cl. 156-244.000.
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Dunbar, Elton E.: *See—*
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Dunbar, George, to ESB Incorporated. Plastic hinge for spectacles. 3,744,887, 7-10-73, Cl. 351-153.000.
Dunbar, Helen. Bobbin dispenser. 3,734,347, 5-22-73, Cl. 221-134.000.
Dunbar, Joseph E.; and Zemba, John W., to Dow Chemical Company, The. Pyridyl xanthates and methods for preparing the same. 3,764,608, 10-9-73, Cl. 260-294.80e.
Dunbar, Neil F.: *See—*
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Duncan, Cecil L.; McNelia, John F.; and Pickler, William C., to United States of America, Navy. Mechanical fuze with self-destruct mechanism. 3,707,912, 1-2-73, Cl. 102-7.400.
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Duncan, Robert L.; and Boswell, Robert F., Jr., to Robins, A. H., Company, Incorporated. Indol-2-ylphenylacetic acids and esters. 3,726,898, 4-10-73, Cl. 260-326.13r.
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Dunwald, Willi; Mielke, Karl-Heinz; Muller, Gerhard; and Merten, Rudolf, to Bayer Aktiengesellschaft. Polyisocyanates containing cyclic imide groups. 3,732,186, 5-8-73, Cl. 260-77.5am.

Dunwoodie, Duane E., to Wiltron Company. Means for shunting select signals across an unknown impedance and blocking said signals from a measuring system. 3,774,107, 11-20-73, Cl. 324-57.00r.

Duo-Flex Corporation: *See—*
Stanley, John E., 3,716,956.
Stanley, John Edwin, 3,725,568.

Duong Vinh, Louis-Andre, to Etablissements Guilliet. Method for cutting a shaped member from a wood block. 3,774,661, 11-27-73, Cl. 144-326.00r.

Dupasquier, Joseph H. Composite multiple and incrementally controlled steam chamber for applying dried steam to a pulp mat. 3,726,757, 4-10-73, Cl. 162-290.000.

Dupcak, Joseph D.: *See—*
Trasel, Johan; and Dupcak, Joseph D., 3,770,228.

Dupee, Donald E.; and Hodgson, William S., to South Shore Machine Co., Inc. Fastener attaching machine. 3,747,828, 7-24-73, Cl. 227-112.000.

Duperow, Donald E.: *See—*
Blanzy, Eugene J.; and Duperow, Donald E., 3,738,577.

Dupke, William H., to U.S. Plywood-Champion Papers Inc. Groove coater. 3,742,906, 7-3-73, Cl. 118-105.000.

Dupler, Anna Gertrude Cooley: *See—*
Dupler, Raymond R., 3,749,078.

Dupler, Raymond R. Hot water and hot air heating system. 3,742,929, 7-3-73, Cl. 126-133.000.

Dupler, Raymond R.; deceased (by Dupler, Anna Gertrude Cooley; executrix). Space heater. 3,749,078, 7-31-73, Cl. 126-121.000.

Duplessis, Gerard. Foot massaging apparatus. 3,707,961, 1-2-73, Cl. 128-33.000.

Duplomatic S.p.A.: *See—*
De Nova, Roberto, 3,770,238.

DuPont, Bertrand Georges: *See—*
Godin, Pascal Albert; Seite, Guy Henri; DuPont, Bertrand Georges; and Vidal, Max Laurent, 3,744,740.

Dupont, Lucien: *See—*
Anthony, Anne-Marie, nee Barbier; Dembinski, Krzysztof; Faucher, Michele, nee Dupre; Le Fleury, Fontenay; and Dupont, Lucien, 3,726,984.

Dupont, Michel; Lacroix, Henri; and Lagardes, Jacques, to Automobiles Peugeot and Regie Nationale des Usines Renault. Gas-removing box for a liquid circuit. 3,775,947, 12-4-73, Cl. 55-159.000.

DuPont of Canada Limited: *See—*
Whitby, Thomas Urquhart, 3,752,414.

Dupont, Peter: *See—*
Forg, Wolfgang; and Dupont, Peter, 3,721,098.

Dupont, S. T.: *See—*
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Dupoy, Harold P.: *See—*
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Dupras, Stanley: *See—*
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Duprat, Yves Jean Guy. Propulsive double-base charges, strand-like and having variable thickness. 3,729,349, 4-24-73, Cl. 149-2.000.

Dupre, Barry E., to North American Car Corporation. Modular home rack for vehicles. 3,718,363, 2-27-73, Cl. 296-14.000.

Dupre, George T.; and De Marco, Thomas M., to National Foundry Equipment Company, Inc. Mechanical agitation apparatus. 3,767,168, 10-23-73, Cl. 259-72.000.

Dupre, George T.; and Demarco, Thomas M., to National Foundry Equipment Company, Inc. Collector apparatus. 3,780,502, 12-25-73, Cl. 55-337.000.

Dupre, Victor Marie: *See—*
Soreau, Robert Frederick Michael; and Dupre, Victor Marie, 3,767,361.

Dupree, Hans-Werner. Modular shell cabinet structure. 3,717,396, 2-20-73, Cl. 312-257.00r.

Dupree Inc.: *See—*
Dupree, James N., 3,757,270.

Dupree, James N., to Dupree Inc. Lamp assembly for edge lighted panel. 3,757,270, 9-4-73, Cl. 339-17.00d.

Duprec, Paul Montgomery: *See—*
Coon, Arthur Delbert; Sheehan, Gerard Martin; and Dupree, Paul Montgomery, 3,761,298.
Sheehan, Gerard Martin; Roberts, George Leathwhite, Jr.; and Dupree, Paul Montgomery, 3,769,255.
Tredinnick, Bruce Charles; Gambale, James Richard; and Dupree, Paul Montgomery, 3,715,842.

Dupuis, Jean M., to Microsystems International Limited. Plastic support means for lead frame ends. 3,711,625, 1-16-73, Cl. 174-52.0pe.

Dupuis, Jean M., to Microsystems International Limited. Method and apparatus for manufacture of integrated circuit devices. 3,748,725, 7-31-73, Cl. 29-577.000.

Dupuis, Jean M., to Microsystems International, Limited. Transistor structure and method of manufacture. 3,750,271, 8-7-73, Cl. 29-587.000.

Dupuis, Maurice V.; and Greer, John R., to Rival Manufacturing Company. Electric brush and lead holder. 3,710,159, 1-9-73, Cl. 310-239.000.

Dupuis, Thomas E., Jr., to Honeywell Inc. Control apparatus. 3,713,335, 1-30-73, Cl. 73-178.00r.

Dupuy, Harold P.: *See—*
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Dupuy, Michel Jean-Marie, to Roussel-UCLAF. Impulse duration modulator. 3,732,506, 5-8-73, Cl. 332-9.00t.

Dupy, Jerome M., to Olin Corporation. Process for scarfing weld beads. 3,755,884, 9-4-73, Cl. 29-481.000.

Dupy, Jerome N. Apparatus for scarfing weld beads. 3,758,740, 9-11-73, Cl. 219-67.000.

Duquenne, Michel Guy Amedee: *See—*
David, Guy Albert Jules; and Duquenne, Michel Guy Amedee, 3,778,550.

Duquesne, Jean-Claude: *See—*
Constantin, Jean-Pierre; Duquesne, Jean-Claude; and Pontier, Michel, 3,712,341.

Duquesne, Victor. Apparatus for gripping a wheel to permit removal of tire. 3,710,838, 1-16-73, Cl. 157-1.240.

Duquet, Michael B. Humidifying apparatus. 3,773,306, 11-20-73, Cl. 261-92.000.

Dura Corporation: *See—*
Littmann, Joseph C., 3,715,931.
McGee, Donald J., 3,746,361.
Schick, Frederick A., 3,746,449.

Dura Tufting GmbH: *See—*
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Durakis, Manuel A.; Silver, David A.; and Destito, Frank P., to General Cable Corporation. Method of shielding high voltage solid dielectric power cables. 3,748,369, 7-24-73, Cl. 174-36.000.

Durall, David Scott; and Owczarski, William A., to United Aircraft Corporation. Method to improve the weldability and formality of nickel-base superalloys. 3,741,824, 6-26-73, Cl. 148-127.000.

Durametallic Corporation: *See—*
Adams, William V., 3,765,689.
Adams, William V., 3,773,337.
Hummer, Herbert B.; Jackson, Donald P.; and Hall, Rex E., 3,752,243.

Durand, Alex A., to Falk Corporation, The. Worktable extension and supporting structure. 3,736,840, 6-5-73, Cl. 90-58.00b.

Durand, Daniel: *See—*
Buisson, Michel; and Durand, Daniel, 3,719,615.

Durand, Jacques: *See—*
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Durand, Jean Ch.: *See—*
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Durand Machine Company, Ltd.: *See—*
Rooney, Sidney C., 3,756,912.

Durand, Michel Georges: *See—*
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Durand, Philippe, to Societe Anonyme D.B.A. Reciprocating fluid motor. 3,722,364, 3-27-73, Cl. 91-3.000.

Durand, Philippe, to Societe Anonyme D.B.A. Pneumatic antiskid braking system. 3,754,794, 8-28-73, Cl. 303-21.00f.

Durand, Pierre: *See—*
Rousselet, Andre; and Durand, Pierre, 3,748,911.

Durand, Pierre, to Societe Anonyme Richier. Traveling monotower crane base. 3,734,302, 5-22-73, Cl. 212-1.000.

Durand, Pierre, to Societe Anonyme Richier. Yard jib crane. 3,750,895, 8-7-73, Cl. 212-48.000.

Durand, Pierre; and Lartique, Gerard, to Hoffmann-La Roche Inc. Apparatus for reading while supporting information means. 3,751,641, 8-7-73, Cl. 235-61.11c.

Durand, Pierre E.; and Durand, Jean Ch. Vertically collapsible upright for lifting gantries and the like. 3,741,338, 6-26-73, Cl. 182-155.000.

Durant, Dennis J.: *See—*
Martin, Donald H.; Holmer, Donald A.; Durant, Dennis J.; Bryan, Roland J., Jr.; Saunders, James H.; and Black, William B., 3,719,547.

Durant, Donald W.: *See—*
Shaw, Clarence W.; and Smith, George R. (said Smith assor. to) , 3,719,049.

Durant, Graham John: *See—*
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Black, James Whyte; Durant, Graham John; Emmett, John Colin; and Ganellin, Charon Robin, 3,736,331.
Black, James Whyte; Durant, Graham John; Emmett, John Colin; and Ganellin, Charon Robin, 3,759,944.

Durant, Will G.; and Ball, David C., to Cherry-Burrell Corporation. Valve bag placer. 3,715,858, 2-13-73, Cl. 53-190.000.

Durante, Joseph L. Dental hand instrument. 3,727,312, 4-17-73, Cl. 32-27.000.

Duranty, Lawrence P., to M.D. Laboratories, Inc. Device for indication of bacterial sensitivity to antibiotics. 3,728,228, 4-17-73, Cl. 195-127.000.

Durdin, Peter Robert, to AMF Incorporated. Time switches. 3,777,582, 12e11-73, Cl. 74-112.000.
Dure, John D.; and Henshaw, Charles H., to Computing Devices of Canada Limited. Fluid density gauge. 3,745,811, 7-17-73, Cl. 73-30.000.
Dureau, Gabriel; Roche, Leon; and Villain, Marcel, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Magnetic keyboard. 3,740,746, 6-19-73, Cl. 340-365.00l.
Duren, John B. Vehicle carrier assembly. 3,718,225, 2-27-73, Cl. 214-450.000.
Duret, Jean: *See—*
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D'Urfe, Baie: *See—*
Bodycomb, Alistair K.; and D'Urfe, Baie, 3,773,588.
Durfee, Robert L., to United States of America, Navy. Incendiary composition containing lithium and a gelled hydrocarbon carrier. 3,755,020, 8-28-73, Cl. 149-20.000.
Durfey, Lamar E.: *See—*
Durfey, Lamar E.; and Johnson, Wells B. (said Johnson assor. to said), 3,733,281.
Durfey, Lamar E.; and Johnson, Wells B., said Johnson assor. to said Durfey, Lamar E. Method of cleaning carpets and fabrics. 3,733,281, 5-15-73, Cl. 252-544.000.
Durfold, Inc.: *See—*
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Durgarian, Sergei Garievich: *See—*
Nametkin, Nikolai Sergeevich; Durgarian, Sergei Garievich; Khotimsky, Valery Samuilovich; Kopkov, Vadim Ivanovich; and Chernyakov, Iosif Efimovich, 3,729,454.
Nametkin, Nikolai Sergeevich; Durgarian, Sergei Garievich; Kopkov, Vadim Ivanovich; Khotimsky, Valery Samuilovich; Bryantseva, Irina Sergeevna; Petrov, Gennady Nikolaevich; Tolstopyatov, Gennady Mikhailovich; Stadnichuk, Tatyana Validimirovna; Kornilova, Ttyana Alexeevna; and Shoikhet, Anna Berkovna, 3,769,266.
Durgin, George A.; and Barnabei, Philip S., to Westinghouse Electric Corporation. Internal cooling for turbine vanes. 3,767,322, 10-23-73, Cl. 416-97.000.
Durhager, Paul-Gerhard: *See—*
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Durham Associates, Inc.: *See—*
Daniels, Ruthven H.; and Zahka, Joseph G., 3,719,936.
Durham, Daniel R.; and Hamilton, William W., to Westinghouse Electric Corporation. Bus duct convertible from A.C. use to D.C. use. 3,730,971, 5-1-73, Cl. 174-68.00b.
Durham, George M., Jr. Fishing float. 3,739,513, 6-19-73, Cl. 43-17.000.
Durham, Henry B. Cable bender. 3,747,391, 7-24-73, Cl. 72-387.000.
Durham, Noel O.: *See—*
Branch, Jack P.; and Durham, Noel O., 3,764,748.
Durham, Roger Owen. Mixture control for fuel injection pumps. 3,765,388, 10-16-73, Cl. 123-139.0ac.
Duria-Werk Karl Kempf KG: *See—*
Heck, Friedrich, 3,729,292.
Durigon, Docile D.: *See—*
Sandler, Yehuda L.; and Durigon, Docile D., 3,733,221.
During, Helmut: *See—*
Muller, Fritz; Queck, Robert; Koch, Josef; Kowalski, Werner; Nolden, Werner; Selbsi, Gunter; and During, Helmut, 3,770,207.
Durkan, Gerald. Fluidic digital pneumotachometer. 3,714,828, 2-6-73, Cl. 73-194.00r.
Durkee, Earle Frederick, to Microwave Associates, Inc. Passive TR tubes. 3,781,719, 12-25-73, Cl. 333-13.000.
Durkee, Everett L.: *See—*
Lowe, Edison; and Durkee, Everett L., 3,732,911.
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Durkoppwerke GmbH: *See—*
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Nicolay, Karl; and Goldbeck, Heinz, 3,747,545.
Durkos, Larry George; Cole, Robert Wayne; and Denney, Jerry W., to American Monitor Corporation. Method and electronic control for the analyzation of scrum chemistries. 3,742,196, 6-26-73, Cl. 235-151.300.
Durland, Douglas H.; and Ehret, Robert J., to Beckman Instruments, Inc. Temperature telemetering apparatus. 3,713,124, 1-23-73, Cl. 340-209.000.
Durling, Hubert R., Jr.: *See—*
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Durmann, George J.: *See—*
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Durney, George P.: *See—*
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Shepard, Leonard F., granted to United States Atomic Energy Commission under the provisions of 42 U.S.C. 2182; Durney, George P.; Case, Melvin C.; Kenneway, A. J., III; Wisc, Robert C.; Rinehart, Dixie; Bessette, Ronald J.; and Pulling, Richard C., 3,751,77.
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Duro-Test Corporation: *See—*
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DuRocher, Daniel J.: *See—*
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DuRocher, Gideon A.; and DuRocher, Daniel J., to Essex International, Inc. Pressure sensitive stepping switches with multi layer spring contact assembly with interposed layers of lubricated non-conductive elastomeric material and conductive particles theren. 3,758,733, 9-11-73, Cl. 200-82.00r.
Durolith Corporation: *See—*
Casson, Edward A., Jr., 3,720,164.
Duron Industries, Ltd.: *See—*
Parker, Melvin A., 3,745,086.
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Duron, Paul P.; Carter, Thomas A., Jr.; and Mondok, Frank, to Airco, Inc. Freezing system. 3,733,848, 5-22-73, Cl. 62-381.000.
DuRose, Arthur H.; and Stern, Robert L., to Kewanee Oil Company. Alkaline nickel plating solutions. 3,759,803, 9-18-73, Cl. 204-49.000.
Durose, Arthur H.; and Malak, Thomas P., to Kewanee Oil Company. Copper plating process for printed circuits. 3,769,179, 10-30-73, Cl. 204-24.000.
Durr, Albert M., Jr.; and Meador, William R., to Continental Oil Company. Mixtures of mono-n-alkylbenzenes and di-n-alkylbenzenes. 3,725,280, 4-3-73, Cl. 252-59.000.
Durr, Henry H., 10% to Haller, Philip L. Trailer anti-jackknife device. 3,774,941, 11-27-73, Cl. 280-432.000.
Durr, Larry L.; and Clay, Byron Jan, to Textile Technology, Inc. Process for controlling the temperature of a dyeing mixture. 3,765,840, 10-16-73, Cl. 8-175.000.
Durr, Manfred: *See—*
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Durr, Otto, K.G.: *See—*
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Durrant, George Geoffrey; Gamon, Michael Hugh; and House, Nigel John, to Laporte Industries, Limited. Treatment of oxide pigments. 3,754,956, 8-28-73, Cl. 106-300.000.
Durrant, Morris F.: *See—*
Davis, Steven S.; and Durrant, Morris F., 3,726,510.
Durrant, Oliver W., to Babcock & Wilcox Company, The. System for controlling the injection of an inert gas into the air supplied a burner to inhibit the formation of $NO_x$. 3,760,776, 9-25-73, Cl. 122-459.000.
Durrell, Charles W., Jr., 15% to Powell, B. J. and 27% to Griffith, D. W. Amphibian vehicle. 3,741,146, 6-26-73, Cl. 115-1.00r.
Durrell, Harold, 1/2 to Peterson, Henry. Method of making nutrient promoting culture. 3,762,910, 10-2-73, Cl. 71-23.000.
Durrell, William Sandford: *See—*
Suryanarayana, Yelogondahally Subrananiam; and Durrell, William Sandford, 3,723,065.
Dursch, Friedrich; and Kocy, Octavian, to Squibb, E. R., & Sons, Inc. Water soluble N-carboxy derivatives of cephradine and cephalexin and a method for their preparation. 3,741,963, 6-26-73, Cl. 260-243.00c.
Dursi, Ladislads; and Dingler, Helmuth, to Siemens Aktiengesellschaft. Method and apparatus for controlling a heat exchanger. 3,774,396, 11-27-73, Cl. 60-106.000.
Durso, Thomas. Method and apparatus for producing an annular skinless sausage product. 3,781,447, 12-25-73, Cl. 426-513.000.
Durth, Wilfried, to Burger Eisenwerke AG. Circulating-air oven with filter. 3,780,721, 12-25-73, Cl. 126-21.00a.
Durwald, Dierk. Roller trackway construction. 3,777,867, 12-11-73, Cl. 193-35.00a.
Dury, Johanna Maria: *See—*
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Dury, Karl: *See—*
Reicheneder, Franz; Dury, Karl; Krusche, Georg; and Burger, Heinz, 3,746,726.
Dury, Russell G.: *See—*
Koeleveld, Frans P.; Ngo, Reginald Mak; and Dury, Russell G., 3,723,811.



Duryea, Charles S. Boat flanking rudder system. 3,710,749, 1-16-73, Cl. 114a163.000.
Duryea, Daniel F.: *See—*
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Dusa, Donald John: *See—*
Vdoviak, John William; and Dusa, Donald John, 3,747,855.
Dusam, Donald H., to Interlake Inc. Self adjusting track extension. 3,732,992, 5-15-73, Cl. 214-16.40b.
Dusault, Raymond A., Jr.; and Fasulo, Frank R. Security lock. 3,748,882, 7-31-73, Cl. 70-416.000.
Dusenberg, John, Company, Inc.: *See—*
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Dusenbery, John F. Apparatus for winding thin film into a roll. 3,749,328, 7-31-73, Cl. 242-67.100.
Duskin, Fred E., to McDonnell Douglas Corporation. Panel blocking. 3,742,663, 7-3-73, Cl. 52-145.000.
Duskin, Robert B. Colorless painting apparatus. 3,745,672, 7-17-73, Cl. 35-26.000.
Dusmet, Giacomo. Inflatable boat cover, for pneumatic boats, suitable to allow the boat to be towed in its capsized position. 3,748,671, 7-31-73, Cl. 9-2.00a.
Dussel, Paul E., to Wilson, Thomas C., Inc., mesne. Reversible drive tool. 3,773,117, 11-20-73, Cl. 173-4.000.
Dussia, R. Jules, to Chatham Precision, Inc. Flow control valve. 3,765,448, 10-16-73, Cl. 137-553.000.
Dussy, Paul: *See—*
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Dustex Corporation: *See—*
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Dustin, Daniel S., to Minnesota Mining and Manufacturing Company. Presensitized light-sensitive letterpress printing makeready. 3,779,761, 12-18-73, Cl. 96-38.200.
Duswalt, Allen A., to Hercules Incorporated. Thermal conditioning of "hydrox" compositions. 3,736,258, 5-29-73, Cl. 252-184.000.
Dusza, Zsigmond: *See—*
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Dutch, Emery. Thermometer spinner. 3,718,045, 2-27-73, Cl. 73-373.000.
Dutch, Paul H. Portable testing kit for narcotics and dangerous and other drugs. 3,748,098, 7-24-73, Cl. 23-253.00r.
Dutchburn, Leslie G. Means for removable attachment of a load supporting assembly to a surface. 3,730,467, 5-1-73, Cl. 248-243.000.
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Duthion, Louis; Cabassut, Andre Emile Roger; and Labussiere, Andre Julien, to Bertin & Cie and Avions Marcel Dassault. Apparatus for attenuating the noise made by fluid jets ejected from a conduit. 3,708,036, 1-2-73, Cl. 181-33.00h.
Duthion, Louis; and Doyotte, Claude Charles, to Bertin & Cie. Method and installation for braking a moving body. 3,738,282, 6-12-73, Cl. 104-249.000.
Duthion, Louis; Jacquot, Michel Jules; Amicel, Charles Gustave; Chaube, Robert Augustin; and Jean, Francis Marie, to Bertin & Cie. Device for partitioning a space between two bodies in relative motion to each other. 3,754,617, 8-28-73, Cl. 180-121.000.
Dutkewych, Oleh B.: *See—*
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Shipley, Charles R., Jr.; Shipley, Lucia H.; Gulla, Michael; and Dutkewych, Oleh B., 3,765,936.
Dutkewych, Oleh B.; and Hofman, Lebert A., to Shipley Company, Inc. Dry replenishment of electroless copper solutions. 3,770,464, 11-6-73, Cl. 106-1.000.
Dutkewych, Oleh Borys: *See—*
Gulla, Michael; and Dutkewych, Oleh Borys, 3,717,482.
Gulla, Michael; and Dutkewych, Oleh Borys, 3,719,508.
Dutkewych, Oleh Borys; and Conlan, William A., Jr., to Shipley Company, Inc. Pre-etch treatment of acrylonitrile-butadiene-styrene resins for electroless plating. 3,769,061, 10-30-73, Cl. 117-47.00a.
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Anikin, Leonid Trifonovich; Kravetsky, Gennady Alexandrovich; Dergunova, Viktoria Sergeevna; and Dutov, Valery Vasilievich, 3,717,926.
Dutra, Joseph G., Jr. Adjustable load stabilizer frame for forklift truck and method. 3,773,202, 11-20-73, Cl. 214-654.000.
Dutro, Lyle V. Counter for a stream of overlapped articles. 3,737,666, 6-5-73, Cl. 250-223.00r.
Dutro, Orville V.; and Hewson, Sherman H., 1/3 to Taylor, Mildred L. Batch stacker. 3,772,971, 11-20-73, Cl. 93-93.00c.
Dutro, Orville V.; and Hewson, Sherman H., 1/3 to Taylor, Mildred L. Stacker. 3,772,972, 11-20-73, Cl. 93-93.00c.
Dutsen, Arthur C., Jr. Power unit for plate glass handling apparatus. 3,738,518, 6-12-73, Cl. 214-650.0sg.
Dutt, Edward A.: *See—*
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Dutta, Pulin Kumar, to Plessey Handel und Investments AG. Wound-film dry capacitors. 3,731,130, 5-1-73, Cl. 317-258.000.
Dutta, Subodh Krishna; Shah, Krishnakant Girdharla; and Setalvad, Jagdish Ishwarlal, to Ahmedabad Manufacturing and Calico Printing Co., Ltd. Process for printing of fabrics consisting of synthetic fibers. 3,716,326, 2-13-73, Cl. 8-62.000.
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Easton, Harlan J. Grain drying and storage apparatus. 3,739,926, 6-19-73, Cl. 214-17.0ca.

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Easton, Roger L., to United States of America, Navy. Apparatus and method for improving sensitivity of navigation system using earth satellites. 3,763,492, 10-2-73, Cl. 343-112.00d.

Easton, Rufus, to Koppers Company, Inc. Spray cooling for continuous cast strand. 3,730,258, 5-1-73, Cl. 164-283.000.

Easton, Vivian, to Reyrolle Parsons Limited. Dynamo-electric machines. 3,719,844, 3-6-73, Cl. 310-184.000.

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Eaton, George H.; and Burton, John A. Carriage drive means for lumber stacker. 3,743,113, 7-3-73, Cl. 214-6.0dk.

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Eaves, Ronald S., to Taylor Machine Works. Logging machine. 3,731,827, 5-8-73, Cl. 214-147.00g.

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Ebbinge, Willem; and De Ruiter, Dirk Cornelis, to U.S. Philips Corporation. Arrangement for driving the drum of a washing machine. 3,764,822, 10-9-73, Cl. 307-141.000.

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Ebel, Jean Pierre; Colobert, Louis Eugene Marie; and Louisot, Pierre, to Ugine Kuhlmann. Medicaments derived from nucleic acids, processes for their preparation and their use. 3,737,524, 6-5-73, Cl. 424-180.000.

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Ebeling, Frederick A.; Johnson, Roger L.; and Goldhor, Richard S., to University of Illinois Foundation. Infrared light beam X-Y position encoder for display devices. 3,775,560, 11-27-73, Cl. 178-18.000.

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Ebendt, Volker, to Deutsche Steinzeug- und Kunstsoffwarenfabrik. Process for the production of ceramic-metal compound joints. 3,772,766, 11-20-73, Cl. 29-473.100.

Eber, Nicolas, to Aktiebolaget Electrolux. Absorption refrigeration apparatus of the inert gas type. 3,715,896, 2-13-73, Cl. 62-490.000.

Eberet, Dieter; and Hanselmann, Dieter, to SWF-Spezialfabrik fur Autozubehor Gustav Rau GmbH. Switch device for indicating the presence of a load on the seat of an automotive vehicle. 3,757,067, 9-4-73, Cl. 200-85.00a.

Eberhard, Everett, to Motorola, Inc. Variable delay, MOS, monostable pulse generating circuit. 3,719,835, 3-6-73, Cl. 307-273.000.

Eberhard, Gunter, to Siemens Aktiengesellschaft. Integrated bistable stage having MOS field effect transistors. 3,735,155, 5-22-73, Cl. 307-279.000.

Eberhardt, H. Alfred, to Hale Fire Pump Company. Suction check valve for pumps. 3,726,308, 4-10-73, Cl. 137-527.800.

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Eberle, Arthur C., to Columbia Gas System Service Corporation. Means and method for numerically displaying the timing of ignition or other repetitive. 3,753,108, 8-14-73, Cl. 324-16.00r.

Eberle, Dieter; Hanselmann, Dieter; and Prohask, Hans, to SWF-Spezialfabrik fur Autozubehor Gustav Rau GmbH. Device for indicating the loading of a vehicle seat. 3,757,065, 9-4-73, Cl. 200-85.00a.

Eberle, Dieter; Hanselmann, Dieter; and Prohaska, Hans, to SWF-Spezialfabrik fur Autozubehor Gustav Rau GmbH. Device for indicating the loading of vehicle seat. 3,761,659, 9-25-73, Cl. 200-85.00a.

Eberle, Dieter; Hanselmann, Dieter; and Prohaska, Hans, to SWF-Spezialfabrik fur Autozubehor Gustav Rau GmbH. Switch device for indicating presence of a load on the seat of an automotive vehicle. 3,769,476, 10-30-73, Cl. 200-85.00a.

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Eberle, Meinrad K.; and Klomp, Edward P., to General Motors Corporation. Rotary combustion engine power control. 3,762,376, 10-2-73, Cl. 123-8.010.

Eberle, Otto Eugen. Ring of two precious metal parts, one overlapping and embedding the other along the ring band portion. 3,712,079, 1-23-73, Cl. 63-15.000.

Eberle, Otto Eugen. Method of casting bimetallic jewellery. 3,731,726, 5-8-73, Cl. 164-7.000.

Eberle, Richard J., to Stainless, Inc. Charging door for incinerator unit. 3,742,875, 7-3-73, Cl. 110-18.00r.

Eberle, William J., to General Battery Corporation. Battery testing and crimping device. 3,729,799, 5-1-73, Cl. 29-204.000.

Eberle, William J. Method and apparatus for dispensing epoxy. 3,741,441, 6-26-73, Cl. 222-135.000.

Eberle, William J., to General Battery Corporation. Battery, components, and method of making. 3,753,783, 8-21-73, Cl. 136-134.00r.

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Eberlein, Wolfgang; Heider, Joachim; Kobinger, Walter; and Diederen, Willi, to Boehringer Ingelheim G.m.b.H. Derivatives of 3-(3 beta-tridigitoxosyl-14 beta-hydroxy-5 beta-androstan-17 beta-YL)-acrylic acid. 3,752,803, 8-14-73, Cl. 260-210.500.

Eberline, Howard C., to Kerr-McGee Corporation. Electrical cable and borehole logging system. 3,773,109, 11-20-73, Cl. 166-54.500.

Eberly, David H., Jr., to United States Banknote Corporation. Two track embossing product. 3,733,468, 5-15-73, Cl. 235-61.12r.

Eberly, David H., Jr.; and Hanke, Peter E., to United States Banknote Corporation. Document authentication method and apparatus. 3,778,598, 12-11-73, Cl. 235-61.11d.

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Eberly, Paul E., Jr., to Esso Research and Engineering Company. Hydroisomerization process with hydrogen faujacite containing a group VIII metal. 3,749,754, 7-31-73, Cl. 260-683.680.

Eberly, Paul E., Jr.; Cull, Neville L.; and Buchamann, Fred J.; deceased (by Buchmann, Cordelia Atkeson; legal representative and heir), to Esso Research and Engineering Company. Aromatization catalyst and process. 3,758,600, 9-11-73, Cl. 260-673.500.

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Ebert, Jurgen: *See—*
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Ebert, Michael: *See—*
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Ebert, Norman J. Parts and tool catching device for outboard motors. 3,738,635, 6-12-73, Cl. 269-15.000.

Ebert, Paul, to Aeropur, A.G. High-voltage ozone-free electrostatic air filter. 3,744,217, 7-10-73, Cl. 55-118.000.

Ebert, Paul, to Aeropur, A.G. Apparatus for cleaning gases through ionization. 3,744,218, 7-10-73, Cl. 55-118.000.

Ebey, Edward W., to International Harvester Company. Weld fixture and axle shaft installation guide. 3,715,935, 2-13-73, Cl. 74-607.000.

Ebin, Joseph A.; and Logan, John W., to Lockheed Aircraft Corporation. Lamp fixture and fluorescent lamp therefor. 3,735,122, 5-22-73, Cl. 240-51.120.

Ebinger, Georg. Guide picket. 3,709,112, 1-9-73, Cl. 94-1.500.

Ebinger, John W., to Thomas & Betts Corporation. Brazed seam ferrule. 3,761,872, 9-25-73, Cl. 339-276.00t.

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Eblen, Ewald, to Bosch, Robert, G.m.b.H. Fuel injection nozzle unit for internal combustion engines. 3,764,076, 10-9-73, Cl. 239-533.000.

Ebling, Hilmer F., to Smith, A. O., Corporation. Method of making steel powder articles of select electrical resistivity. 3,725,521, 4-3-73, Cl. 264-104.000.

Eblovi, Roger, to General Signal Corporation. Rate decoder with active filters. 3,715,579, 2-6-73, Cl. 246-187.00a.

Ebner, Cuno; and Schuler, Max, to Sandoz Ltd.; a/k/a Sandoz AG. 1-(m-Tryluoromelkylphenyl)-4-(N-alkyl-N-alkoxy) amino-5-halo-pyridozone-(6). 3,709,885, 1-9-73, Cl. 260-250.00a.

Ebner, Emanuel C., to Foto-Cube Inc. Picture display and storage device. 3,771,244, 11-13-73, Cl. 40-152.000.

Ebner, Emanuel C., to Foto-Cube, Inc. Picture display device. 3,771,246, 11-13-73, Cl. 40-152.100.

Ebner, George A.; and Ebner, Marjorie J. Apparatus and propeller for entraining fluid in liquids. 3,776,531, 12-4-73, Cl. 261-87.000.

Ebner, Helmut; Stumer, Bernd; and Lang, Hans, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Device for delivering a measured charge of a flowable powder. 3,750,911, 8-7-73, Cl. 222-254.000.

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Ebnother, Anton; and Rissi, Erwin, to Sandoz Ltd.; a/k/a Sandoz AG. Dihydro-3-[4-hydroxy-1-(di or tri-substituted phenethyl)-4-piperidyl]-2(3H) furanone. 3,740,406, 6-19-73, Cl. 260-293.670.

Ebnother, Anton; and Rissi, Erwin, to Sandoz Ltd.; a/k/a Sandoz AG. Dihydro-3-(4-hydroxy-1-phenethyl-4-piperidyl)-2-(3H)-furanones. 3,740,407, 6-19-73, Cl. 260-293.670.

Ebrahimi, Jalal, to Northern Electric Company Limited. Line circuit for key telephone system. 3,715,516, 2-6-73, Cl. 179-18.0fa.

Ebrahimi, Jalal, to Bell Canada-Northern Electric Research Limited. Transmission gating circuit. 3,723,760, 3-27-73, Cl. 307-203.000.

Ebregt, Johannes, to Akzo N.V. Process for preparing a concentrated collodial silicon dioxide solution. 3,770,650, 11-6-73, Cl. 252-313.00s.

Ebrey, John Alfred Charles; and Gough, George Terah, to Gough and Company (Hanley) Limited. Electrophoretic casting of pottery. 3,718,564, 2-27-73, Cl. 204-181.000.

Ebrey, Roger George Anthony: *See—*
Dryden, Kerin Lee; and Ebrey, Roger George Anthony, 3,750,453.

Ebsary, Vivan Richard, to Rockwell Manufacturing Company. Flexible vane turbine pump. 3,734,638, 5-22-73, Cl. 415-141.000.

Ebstrom, Soren E. H., to Gardner-Denver Company. Capacity control value for screw compressor. 3,738,780, 6-12-73, Cl. 417-281.000.

Ebuchi, Satoru; and Kazama, Takeo, to Okano Valve Seizo Kabushiki Kaisha. Freeze seal for sodium valves. 3,761,055, 9-25-73, Cl. 251-214.000.

Ebukuro, Rinzou: *See—*
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Eburn, William H., Jr., to Grace, W. R., & Co. Punch, bend and trim device. 3,735,627, 5-29-73, Cl. 72-324.000.

Eburn, William H., Jr. Process of preparing a printing plate for accurate registration. 3,771,440, 11-13-73, Cl. 101-1.000.

Eby, George W. Lamp mount for automotive vehicles. 3,721,374, 3-20-73, Cl. 224-42.10b.

Eby, George W. Equipment supporting rack for a police car. 3,727,813, 4-17-73, Cl. 224-42.42r.

Eby, Jack A.; and Andersen, Eugene F., to Topper Floats, Inc. Tire float and method for forming same. 3,728,749, 4-24-73, Cl. 9-8.00r.

Eby, John B. Screwdriver with screw holding attachment. 3,710,835, 1-16-73, Cl. 145-52.000.

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Eckard, Robert Lewis, to U.S. Plywood-Champion Papers Inc. Interchangeable side panel and the like for modular furniture. 3,730,605, 5-1-73, Cl. 312-257.000.
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Eckardt, Wolfgang; Tietjf, Rudolf; and Wolf, Victor, to Lever Brothers Company. Process for preparing scleroprotein-alkyl thiosulfate agents for the care of the hair. 3,751,564, 8-7-73, Cl. 424-70.000.
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Eckles; Paul N., to Aerojet-General Corporation. High density spherical modules. 3,761,678, 9-25-73, Cl. 219-343.000.
Eckman, James R.; and Keesee, Larry D. Multi-use camper. 3,743,345, 7-3-73, Cl. 296-23.00r.
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Economy, James; Frechette, Francis J.; and Wohrer, Luis C., to Carborundum Company, The. Etherified or esterified phenolic resin fibers and production thereof. 3,716,521, 2-13-73, Cl. 260-59.000.
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Edenhofer, Joseph, & Sohne: *See—*
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Edenhofer, Robert Lewis, to U.S. Plywood-Champion Papers Inc. Interchangeable side panel and the like for modular furniture. 3,730,605, 5-1-73, Cl. 312-257.000.
Edenhofer, Robert Lewis, to Champion International Corporation. Removable lock panel for cabinet and furniture. 3,738,728, 6-12-73, Cl. 312-330.000.
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Rolff, Jacob J. P.; and Di Marco, Franco, 3,757,576.
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Edenhofer, Alan C.; and Mensing, Arthur E., to United Aircraft Corporation. Deposition of power in a moving gas stream by electric discharge means. 3,777,279, 12-4-73, Cl. 331-94.500.
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Edenhofer, Oliver C. Sound absorbing device. 3,712,413, 1-23-73, Cl. 181-33.0ge.
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Edenhofer, Jack F.: *See—*
Creapo, Ralph W.; Downham, Roy E.; Edenhofer, Jack F.; Frost, John W.; and Klein, David M., 3,739,491.
Edenhofer, William C.; and Richards, Powell, to United States of America, Atomic Energy Commission. Technetium labeling. 3,725,295, 4-3-73, Cl. 252-301.10r.
Edenhofer, Robert E. Remote rock breaking method apparatus therefor. 3,741,119, 6-26-73, Cl. 102-23.000.
Edenhofer, Robert Roy: *See—*
Cross, Donald John; Edenhofer, Robert Roy; Price, Arthur Burke; and Scott, Benton Boyd, 3,710,012.
Edenhofer, Robert Roy, to GTE Sylvania Incorporated. Linearity correction apparatus in a flying spot scanner system. 3,737,570, 6-5-73, Cl. 178-7.200.
Edenhofer, Robert Roy; and Rhee, Dong Woo, to GTE Sylvania Incorporated. Vertical synchronizing circuitry. 3,751,588, 8-7-73, Cl. 178-7.30s.
Edenhofer, Robert C.: *See—*
Compoly, Albert W.; Kautz, Robert F.; Edenhofer, Robert C.; and Foerch, Francis X., 3,775,662.
Edenhofer, Robert Charles; Kautz, Robert Frederick; and Compoly, Albert William, to Bendix Corporation, The. Polyphase transformer for a variable speed constant frequency system. 3,711,762, 1-16-73, Cl. 321-57.000.
Edenrode, James H., to HMW Industries, Inc. Light control for timing displays. 3,747,322, 7-24-73, Cl. 58-50.00r.
Edenrode, James H., to HMW Industries, Inc. Light control for timing display. 3,747,323, 7-24-73, Cl. 58-50.00r.
Eder, Fred L. Retractable concrete form. 3,774,875, 11-27-73, Cl. 249-178.000.
Eder, George Franklin: *See—*
Bohrer, Thomas Carl; Eder, George Franklin; and Chen, David Hsiao Tsung, 3,723,592.
Eder, Mario Enrique, to International Business Machines Corporation. Control wipe electrical connector for circuit cards. 3,763,462, 10-2-73, Cl. 339-176.0mp.
Ederdt, George H.; and Ewald, William P., to Eastman Kodak Company. Slide holder. 3,711,905, 1-23-73, Cl. 24-263.0pc.
Ederdt, George H., to Eastman Kodak Company. Adapter for slide projector. 3,712,725, 1-23-73, Cl. 353-68.000.
Edgerle, Otto: *See—*
Edgerle, Otto; and Jung, Robert (said Jung assor. to said), 3,779,674.
Edgerle, Otto; and Jung, Robert, said Jung assor. to said Edgerle, Otto. High-pressure gear pump. 3,779,674, 12-18-73, Cl. 418-71.000.
Edgert & Ziegler GmbH, Firma: *See—*
Bielfeldt, Friedrich Bernd; and Neureuther, Jurgen, 3,773,451.
Edgert, Alton B., Jr.: *See—*
Hubbard, David W.; and Edgert, Alton B., Jr., 3,750,565.
Edgert, Alton B., Jr.; and Jones, Howell A., Jr., to Pitney-Bowes, Inc. Method and apparatus for optical code reading. 3,716,699, 2-13-73, Cl. 235-61.11e.
Edgert, Charles F.; and Pinkowski, Norman J., to Uniroyal, Inc. Bonding EPDM rubber to general purpose butadiene polymer rubber. 3,776,811, 12-4-73, Cl. 161-253.000.
Edgert, Elmer Richard: *See—*
Bartusek, Robert Joseph; and Edgert, Elmer Richard, 3,746,143.
Edgert, Frank J., to Cities Service Company. Pigment recovery. 3,713,858, 1-30-73, Cl. 106-291.000.
Edgert, George: *See—*
Cadorette, Raymond; and Edgert, George, 3,719,458.
Edgert, George W.: *See—*
Lachowicz, Donald R.; Saines, George S.; and Edgert, George W., 3,711,255.
Edgert, Guenter; Hartmann, Heinrich; Marx, Matthias; and Wuertele, Lothar, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for finishing leather and synthetic leather substitutes. 3,709,724, 1-9-73, Cl. 117-142.000.
Edgert, Hans-Werner: *See—*
Bruning, Jurgen; Edgert, Hans-Werner; and Heinz, Arnold, 3,729,416.
Edgert, Hans-Werner; Heins, Arnold; and Bellinger, Horst, to Henkel & Cie G.m.b.H. Antimicrobial and laundry softening compositions. 3,764,531, 10-9-73, Cl. 252-8.800.
Edgert, Herbert L., to Harnischfeger Corporation. Means for connecting hydraulic cylinder to movable component. 3,768,322, 10-30-73, Cl. 74-102.000.
Edgert, John C.; and Enloe, Kenneth M., to Kimberly-Clark Corporation. Prefolded disposable diaper. 3,774,610, 11-27-73, Cl. 128-287.000.
Edgert, John S., to Norton Company. Method of gas absorption and apparatus therefor. 3,739,551, 6-19-73, Cl. 55-90.000.
Edgert, Klaus-Dieter; and Roper, Hans-Joachim, to International Standard Electric Corporation. Frequency measuring method for a doppler beacon. 3,774,212, 11-20-73, Cl. 343-108.00m.
Edgert, Konrad: *See—*
Adler, Karl-Heinz; Knapp, Heinrich; and Edgert, Konrad, 3,716,035.
Knapp, Heinrich; Schwartz, Reinhard; and Edgert, Konrad, 3,739,758.
Edgert, Konrad; Knapp, Heinrich; and Engel, Gerhard, to Bosch, Robert, G.m.b.H. Apparatus for regulating the air-fuel mixture in an externally ignited internal combustion engine operating on injected fuel. 3,718,123, 2-27-73, Cl. 123-140.0cc.
Edgert, Konrad; Knapp, Heinrich; Sautter, Wilfried; and Stein, Volkhard, to Bosch, Robert, G.m.b.H. Fuel injection apparatus including an air sensor and means for the direction-dependent damping of its movement. 3,728,993, 4-24-73, Cl. 123-119.00r.
Edgert, Konrad, to Bosch, Robert, G.m.b.H. Electromagnet. 3,735,302, 5-22-73, Cl. 335-262.000.
Edgert, Konrad, to Bosch, Robert, G.m.b.H. Suspension system for a car. 3,741,582, 6-26-73, Cl. 280-124.00f.
Edgert, Rudolf J. A., to Shell Oil Company. Lubricant compositions containing terpolymers. 3,718,591, 2-27-73, Cl. 252-49.800.
Edgert, Rudolf J. A.; and Heemskerk, Jan, to Shell Oil Company. Lubricant composition. 3,752,767, 8-14-73, Cl. 252-59.000.
Edgert, Rudolf J. A., to Shell Oil Company. Lubricant compositions containing a viscosity index improver. 3,775,329, 11-27-73, Cl. 252-59.000.
Edgert, William F. Insulated plug. 3,710,287, 1-9-73, Cl. 339-195.00r.
Edges, William A.: *See—*

Eddy, Ira C.; and Taylor, William A., to General American Transportation Corporation. Systems for storing and transporting ladings. 3,718,219, 2-27-73, Cl. 214-38.00d.

Eddy Match Company, Limited: *See—*
Glen, John Wilson, 3,763,982.
McLaughlin, Gordon, 3,767,280.

Eddy, Robert T., to Reliance Electric Company. Constant velocity universal joint. 3,727,430, 4-17-73, Cl. 64-21.000.

Eddy, Thomas A.; and White, Charles E., to Abex Corporation. Locking plate for axle end cap. 3,713,686, 1-30-73, Cl. 295-36.00r.

Eddy, Thomas A.; and White, Charles E., to Abex Corporation. Railroad bearing structures. 3,727,969, 4-17-73, Cl. 295-36.00r.

Edelbrock Equipment Company: *See—*
Mc Farland, James D., Jr., 3,744,463.

Edelcreek, Gilbert. Telephone lock. 3,723,671, 3-27-73, Cl. 179-189.00r.

Edele, Reinhard; Kohler, Alfred; and Bauer, Kurt, to SWF-Spezialfabrik fur Autozubehor Gustav Rau GmbH. Device for fastening a windshield wiper arm on a drive shaft. 3,729,767, 5-1-73, Cl. 15-250.340.

Edele, Reinhard; Bauer, Kurt; and Roth, Christian, to SWF-Spezialfabrik fur Autozubehor Gustav Rau GmbH. Windscreen wiper arm for motor vehicles. 3,748,685, 7-31-73, Cl. 15-250.350.

Edele, Reinhard; and Kohler, Alfred, to SWF-Spezialfabrik fur Autozubehor Gustav Rau GmbH. Device for fastening a windshield wiper arm on a drive shaft. 3,769,654, 11-6-73, Cl. 15-250.340.

Edeleanu Gesellschaft m.b.H.: *See—*
Franz, Hermann; and Kunert, Max, 3,775,295.
Wirtz, Gerhard, 3,756,945.

Edeling, Curt: *See—*
Dohse, Rothard; Edeling, Curt; and Eisenmann, Josef, 3,745,336.
Dohse, Ruthard; Edeling, Curt; and Eisenmann, Josef, 3,737,658.

Edelman, Alfred E. Method and apparatus for tooth restoration. 3,728,794, 4-24-73, Cl. 32-15.000.

Edelman, Alfred E. Bone implant and method of implantation. 3,738,004, 6-12-73, Cl. 32-10.00a.

Edelman, Alfred E. Expansible dental implant. 3,738,008, 6-12-73, Cl. 32-10.00a.

Edelman, Irving, to Maidrite Novelty Corporation. Apparatus for the manufacture of laminated shoulder strap material. 3,758,364, 9-11-73, Cl. 156-463.000.

Edelman, Leonard E., to Westinghouse Electric Corporation. Polyether resins prepared from a diepoxide and a tris(2-hydroxyethyl) isocyanurate. 3,763,097, 10-2-73, Cl. 260-47.0ep.

Edelman, Ralph E.; and Saia, Anthony, to United States of America, Army. Process of making high strength, high density, highly ductile uranium-titanium alloy. 3,773,569, 11-20-73, Cl. 198-11.50f.

Edelman, Robert Irwin; and Swapceinski, John Peter, to Eastman Kodak Company. Grounding apparatus for electrographic copy apparatus. 3,743,410, 7-3-73, Cl. 355-15.000.

Edelmann, Carl, GmbH: *See—*
Krausser, Heinz; and Krausser, Alfred, 3,719,998.

Edelson, Andrew C. Electronic combination lock. 3,739,233, 6-12-73, Cl. 317-134.000.

Edelson, Robert B.: *See—*
Finberg, Raymond H.; Edelson, Robert B.; and De Sisto, Richard E., 3,733,640.

Edemsky, Vladimir Mikhailovich: *See—*
Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Bondarenko, Oleg Petrovich; Baglai, Vitaly Mikhailovich; Sidorenko, Mikhail Nikolaevich; Leibenzon, Semen Abramovich; Kaganovsky, Gary Petrovih; Altgauzen, Andrei Pavlovich; Nikolsky, Leonid Evgenievich; Gorynina, Zoya Alexandrovna; Safronova, Ljudmila Andreevna; Katsevich, Leonid Savvich; Volokhonsky, Lev Avramovich; Nikulin, Alexandr Alexandrovich; Artemiev, Vladimir Dmitrievich; Edemsky, Vladmir Mikhailovich; and Voronin, Georgy Alexandrovich, 3,709,283.

Eden, Jamal S., to Goodrich, B. F., Company, The. Chromium molybdate, tellurium oxide, phosphorus oxide catalyst. 3,708,434, 1-2-73, Cl. 252-435.000.

Eden, Jamal S., to Goodrich, B. F., Company, The. Catalytic process for unsaturated acids. 3,737,394, 6-5-73, Cl. 252-435.000.

Eden, Jamal S., to Goodrich, B. F., Company, The. Preparation of unsaturated aldehydes and acids. 3,776,952, 12-4-73, Cl. 260-533.00n.

Edenfield, Harrison: *See—*
Mayo, William Harold; Winters, Arthur Burnett; Davis, James Bradley, Jr.; Edenfield, Harrison; and Gainous, Aubrey Cornelius, 3,743,024.

Edenhofer, Albrecht; and Spiegelberg, Hans, to Hoffmann-La Roche Inc. Process for the preparation of [3-(4-phenyl)-1-2H-3,6-dihydro-pyridyl]-propoxy or propylthio-anilides or derivatives thereof. 3,723,445, 3-27-73, Cl. 260-295.0am.

Edenhofer, Albrecht; and Spiegelberg, Hans, to Hoffmann-La Roche Inc. 3a,12b-Dihydro-8H-dibenzo[3,4,6,7]cycloheept [1,2-d]oxazol-8-ones and processes for their preparation. 3,745,167, 7-10-73, Cl. 260-307.00d.

Edenhofer, Albrecht, to Hoffmann-La Roche Inc. Tetrahydropyridine derivatives. 3,758,483, 9-11-73, Cl. 260-295.0am.

Edenhofer, Albrecht; and Spiegelberg, Hans, to Hoffmann-La Roche Inc. 3-(4-Phenyl-1,2,6, di keto piperazinyl)-2-hydroxy-propoxy)-aniline. 3,764,602, 10-9-73, Cl. 260-268.0dk.

Edens, Ralph A. Tool holders. 3,747,946, 7-24-73, Cl. 279-81.000.

Edens, William G.; Loos, John H.; and Wark, Emerson L., to General Motors Corporation. Room air conditioner fresh air intake duct. 3,727,424, 4-17-73, Cl. 62-262.000.

Eder, Erich: *See—*
Norbert, Jorss; and Eder, Erich, 3,736,213.

Eder, Erich, to Kronseder, Hermann. Label extractor with swinging transfer members. 3,767,515, 10-23-73, Cl. 156-568.000.

Eder, Otto; and Hascic, Wladimir, to Semperit Aktiengesellschaft. Shoe and method of manufacturing same. 3,724,104, 4-3-73, Cl. 36-14.000.

Eder, Ulrich; and Sauer, Gerhard, to Schering A.G. Novel benzopyran derivatives. 3,723,471, 3-27-73, Cl. 260-345.200.

Eder, Ulrich; and Lorenz, Hans Peter, to Schering A.G. Process for the preparation of hexahydroindan-4-carboxylic acid ester derivatives. 3,761,507, 9-25-73, Cl. 260-468.00g.

Ederton, William H., to Smith Kline & French Laboratories. Poly (N-cyclo alkylaminomethyl) cyclopentanes. 3,723,526, 3-27-73, Cl. 260-563.00r.

Edes, Ferenc; and Gianatasio, Henry L., to Air-Trol Systems, Inc. Web-guiding apparatus and position-sensing and control unit therefor. 3,759,457, 9-18-73, Cl. 242-57.100.

Edeus, James A., to National Manufacturing Co. Bifold door hardware. 3,714,679, 2-6-73, Cl. 16-131.000.

Edgar, Owen Burchell; Hughes, William; Lawrence, Derek R.; Lederer, Gerald; and Ritchie, Colin Foster. Titanium dioxide pigments useful in delustring of polyamides. 3,709,710, 1-9-73, Cl. 106-300.000.

Edgar, Richard H., to Raytheon Company. Microwave applicator. 3,749,874, 7-31-73, Cl. 219-10.550.

Edgar, William: *See—*
Briggs, Edward Miles; Edgar, William; and Rimmer, Rodgers Eugene, 3,729,699.

Edgar, William D.: *See—*
Kinzler, Raymond C.; Edgar, William D.; and Sustarsic, John D., 3,709,794.

Edgar, William H., to Exhibitors Service Company. Vehicle detection and indication apparatus for overhead obstructions. 3,720,916, 3-13-73, Cl. 340-61.000.

Edge, Dick O.; Hammond, Raymond F.; and Sutton, Robert S., to Ex-Cell-O Corporation. Structure for and method of tool selection. 3,716,128, 2-13-73, Cl. 198-38.000.

Edge, Gordon Malcolm; and Lee, Peter William, to Warren, Godwin, Engineering Limited. Proximity switches. 3,761,736, 9-25-73, Cl. 307-116.000.

Edge, James, to Welwyn Electric Limited. Capacitor. 3,721,870, 3-20-73, Cl. 317-258.000.

Edgecomb, Raymond H.: *See—*
Bridwell, Billy W.; Carlson, Emery J.; Edgecomb, Raymond H.; and Watson, William E., 3,755,551.

Edgeington, James N., Jr., to IMS Corporation. End cap construction. 3,755,666, 8-28-73, Cl. 240-51.11r.

Edgell, James E.: *See—*
Bigley, James E.; and Edgell, James E., 3,766,352.

Edgell, Thomas A.; and Reagor, Robert K. Controlled directional charges. 3,762,326, 10-2-73, Cl. 102-20.000.

Edgerton, Bradford W.; Williams, Sidney B.; and Westcott, Vernon C., to United States of America, Navy. Helicopter lift margin determining system. 3,754,440, 8-28-73, Cl. 73-178.00h.

Edgerton, John L., to Omark Industries, Inc. Flexible abrasive grinders for side sharpenable cutters. 3,755,997, 9-4-73, Cl. 56-244.000.

Edhlund, Arthur J., to Minnesota Mining and Manufacturing Company. Microfiche positioning apparatus. 3,722,991, 3-27-73, Cl. 353-27.000.

Edholm, Paul Ragnvald; and Jacobson, Nils Bertil, to Medinova AB. X-ray filter device in combination with a positioning light converging means. 3,717,768, 2-20-73, Cl. 250-86.000.

Edholm, Paul Ragnvald; and Jacobson, Nils Bertil, to Medinova AB. Radiation absorbing device for radiographic apparatuses. 3,748,487, 7-24-73, Cl. 250-512.000.

Edholm, Sven Olof. Device for electric incinerator dry closets. 3,722,006, 3-27-73, Cl. 4-131.000.

Edholm, Sven Olof. Coupling means for electric incinerator lavatories. 3,723,828, 3-27-73, Cl. 317-141.00r.

Edhouse, Christopher J.: *See—*
Small, Norman J. H.; and Edhouse, Christopher J., 3,772,169.

Edinborgh, Julius A., to Shell Oil Company. Personal sound monitor. 3,778,552, 12-11-73, Cl. 179-1.00n.





Edinger, Ladislav Leslie. Self-illuminating tongue depressor and the like. 3,760,798, 9-25-73, Cl. 128-16.000.

Ediny, Jury Grigorievich: *See—*
Balaev, Oleg Gavrilovich; Ediny, Jury Grigorievich; and Korol, Nikolai Akimovich, 3,735,764.

Ediphor AG: *See—*
Dueringer, Heinrich, 3,774,233.

Edison, Lamonte R., to General Motors Corporation. Pulse length multiplier circuit. 3,712,993, 1-23-73, Cl. 307-267.000.

Ediss, Anthony Gerald Richard: *See—*
Thatcher, Raymond Richard James; Ediss, Anthony Gerald Richard; and Wheeler, Brian James, 3,732,749.

Edixhoven, Gerardus Hendrikus, to Hunter, Douglas, International N.V. Ladder mechanism for an assembling apparatus for the manufacture of completely or partly finished packages of slats for venetian blinds. 3,736,631, 6-5-73, Cl. 29-24.500.

Edixhoven, Gerardus Hendrikus, to Hunter Douglas International N.V. Apparatus for forming strip. 3,766,815, 10-23-73, Cl. 83-160.000.

Edkvist, Ake Evald. Apparatus for the manufacture of corrugated board. 3,751,325, 8-7-73, Cl. 156-550.000.

Edler & Krische: *See—*
Costard, Herbert, 3,745,681.

Edler, Bruno. Apparatus for positioning a tread band on a vehicle tyre. 3,738,893, 6-12-73, Cl. 156-394.000.

Edlin, Frank E., to International Plastics, Inc. Porous plastic structures having apertures. 3,774,648, 11-27-73, Cl. 138-177.000.

Edling, Gustaf Emanuel, to Apparatkemiska AB AKA. Wall thickness and temperature monotoring apparatus for boiler tubes. 3,721,897, 3-20-73, Cl. 324-64.000.

Edlund, Karl Knut Harry. End wall for drums and other containers for liquid or solid state products. 3,722,732, 3-27-73, Cl. 220-66.000.

Edlund, Karl-Johan, to AWAB Anderstorps Werkstads A/B. Method of destructing waste and an apparatus for carrying out said method. 3,774,852, 11-27-73, Cl. 241-3.000.

Edlund, Ove Harald; and Andreassen, Bjorn Arild, to Pharmacia Fine Chemicals AB. Substituted cellulose in grain form and a method of producing the same. 3,731,816, 5-8-73, Cl. 210-500.000.

Edlund, Sven Bertil Gosta; and Sodersten, Bo Frans Ake, to AB Hagglund & Soner. Brake controlling device. 3,780,990, 12-25-73, Cl. 254-173.000.

EDMAC Associates, Inc.: *See—*
Cupp, Frederick B.; and Camp, Gary Van, 3,737,895.
Nupp, Raymond W., 3,778,728.

Edman, Warren H.; and Patyrak, James W., to Holophane Company, Inc. Interchange and area lighting luminaire. 3,766,375, 10-16-73, Cl. 240-25.000.

Edmansson, Kurt Axel Henry; and Karlsson, Ake Gustav-Adolf, to Saab-Scania Aktiebolag. Brake device particularly for hydraulic hand brakes on railroad cars. 3,717,386, 2-20-73, Cl. 303-89.000.

Edme, Georges; Fichot, Robert; and Oberle, Georges, to Automobiles Peugeot and Regie Nationale des Usines Renault. Energy absorbing device and safety steering column for a vehicle equipped with the device. 3,769,851, 11-6-73, Cl. 74-492.000.

Edmisson, Russell C.: *See—*
Starr, Stanley R.; and Edmisson, Russell C., 3,712,538.

Edmond, William G. Mass transfer device and method of making same. 3,738,813, 6-12-73, Cl. 23-258.500.

Edmonds, James T., Jr.: *See—*
Hill, Harold Wayne, Jr.; and Edmonds, James T., Jr., 3,728,313.

Edmonds, James T., Jr., to Phillips Petroleum Company. Treatment of the alkali metal sulfide reactant to reduce impurities and its reaction with a polyhalo-substituted aromatic compound. 3,763,124, 10-2-73, Cl. 260-79.100.

Edmonds, John O., to General Motors Corporation. Transmission and control with shift engagement timing devices. 3,754,483, 8-28-73, Cl. 74-753.000.

Edmonston, William H.; and Carter, Efton T. Carburetor. 3,709,469, 1-9-73, Cl. 261-44.00r.

Edmore Tool and Ginding, Inc.: *See—*
Hundey, Doran J.; and Naru, Robert B., 3,759,624.

Edmund, Everett W. Adjustable size wet suit. 3,771,169, 11-13-73, Cl. 2-2.10r.

Edmund, James Mitchell. Safety ski binding. 3,730,543, 5-1-73, Cl. 280-11.35t.

Edmunds, Alvin M.; and Fay, Russell H., to Dow Chemical Company, The. Electroless nickel plating of hollow containers. 3,709,715, 1-9-73, Cl. 117-50.000.

Edmunds, Edward, Jr.: *See—*
Lowenhaupt, Edward Harris, III; and Edmunds, Edward, Jr., 3,743,585.

Edmunds, John O.: *See—*
Landrus, James D.; Norris, Allan S.; and Edmunds, John O., 3,739,807.

Edmunds, John O., to General Motors Corporation. Transmission and control. 3,713,354, 1-30-73, Cl. 74-732.000.

Edmunds, John O., to General Motors Corporation. Lock up clutch control. 3,719,093, 3-6-73, Cl. 74-645.000.

Edmunds, John O., to General Motors Corporation. Charging pressure control for fluid unit. 3,774,400, 11-27-73, Cl. 60-358.000.

Edmunds, Louis Henry, Jr.; and Braley, Silas A., to University of California, The Regents of the. Adjustable implantable artery-constricting device. 3,730,186, 5-1-73, Cl. 128-325.000.

Edo Corporation: *See—*
Bernstein, Julius, 3,748,502.

Edo Western Corporation: *See—*
Lapetina, Robert A., 3,744,013.
Waterman, Glenn Noble, 3,719,923.

Edoco Technical Products, Inc.: *See—*
Worson, Lee, 3,712,188.

Edon Industrial Products Co.: *See—*
Kantarian, Edward T.; Bearde, John N.; and Staub, Donald F. (said Bearde assor. to), 3,708,160.

EDP Limited, mesne: *See—*
McGourty, Thomas K., 3,707,778.

Edrich, Jochen, to United States of America, Navy. Non-degenerative parametric amplifier. 3,718,866, 2-27-73, Cl. 330-4.900.

Edrinn, Roger C., to Hewlett-Packard Company. Automatic paper loading and guiding mechanism. 3,779,473, 12-18-73, Cl. 242-54.00r.

Edsall, Bruce M., to General Motors Corporation. Vehicle brake system. 3,749,451, 7-31-73, Cl. 303-6.00c.

Edsall, Robert N., to Owens-Illinois, Inc. Corrugated bathtub package. 3,773,171, 11-20-73, Cl. 206-46.00h.

Edson, Alden P., to International Nickel Company, Inc., The. Operation of magnetrostrictive apparatus. 3,753,058, 8-14-73, Cl. 318-118.000.

Edson, David D., to Raytheon Company. Directional transducer system. 3,737,841, 6-5-73, Cl. 340-2.000.

Edson Enterprises, Inc.: *See—*
Tremarco, Paul, 3,781,494.

Edstrand, Torsten Karl Ivar Bernhard; Munksgaard, Asger; Ronlan, Alvin; and Wickberg, Borje Vilhelm, to Erco Lakemedel AB. X-Ray contrast agents. 3,772,376, 11-13-73, Cl. 260-518.00a.

Edstrom, Gene H.: *See—*
Breitenbach, Richard C.; Edstrom, Gene H.; and Keffeler, James R., 3,711,691.

Edstrom, Gene H.; and Irwin, John W., to International Business Machines Corporation. Branch control for a digital machine. 3,713,108, 1-23-73, Cl. 340-172.500.

Edstrom, Gene H.; Elwell, Russell M.; and Irwin, John W., to International Business Machines Corporation. Data processing subsystems. 3,721,961, 3-20-73, Cl. 340-172.500.

Edstrom, Gene H.; and Lutter, Edward P., to International Business Machines Corporation. Media transport performance measurements. 3,725,655, 4-3-73, Cl. 235-151.320.

Edstrom, Soren E. H.; and Seckman, John E., to Gardner-Denver Company. Screw compressor. 3,734,653, 5-22-73, Cl. 418-88.000.

Educated Vehicle Systems, Inc.: *See—*
Colsen, Frank Thomas; Kaufman, Peter; and Townsend, Robert L., 3,710,317.
Kaufman, Peter; Colsen, F. Thomas; and Townsend, Robert L., 3,781,854.

Educational Sound Systems, Inc.: *See—*
MacNeill, John H.; Bellinger, James E.; Lidkea, Harrison B.; and Seib, Kenneth L., 3,777,417.

Eduj Corporation: *See—*
De Toma, Samuel M., 3,739,654.

Edward & Scott, mesne: *See—*
Scott, Edward E.; and Sullivan, Maurice David, 3,754,119.

Edwards, Albert, to Baker Perkins Limited. Feed arrangements for a mixer or mixer-conveyor unit. 3,715,106, 2-6-73, Cl. 259-25.000.

Edwards, Albert, to Baker Perkins Limited. Mixing chamber construction. 3,779,520, 12-18-73, Cl. 259-151.000.

Edwards, Alfred Gerald, to Albright & Wilson Limited. Cellular polymeric materials. 3,755,210, 8-28-73, Cl. 260-2.50f.

Edwards, Arnold Glen; and Jenkins, Charles J., to Halliburton Company. Pressure responsive auxiliary disc valve and the like for well cleaning, testing, and other operations. 3,779,263, 12-18-73, Cl. 137-68.000.

Edwards, Arrie Wood: *See—*
Edwards, George Wheeler; and Edwards, Arrie Wood, 3,780,183.

Edwards, Beverly C. D., Jr.: *See—*
Carstens, Daniel K.; and Edwards, Beverly C. D., Jr., 3,736,760.

Edwards, Bryant, to Illinois Tool Works Inc. Insect rearing tray. 3,750,625, 8-7-73, Cl. 119-1.000.

Edwards, Carl D.: *See—*
Lummus, James L.; Anderson, Duane B.; and Edwards, Carl D., 3,718,585.
Lummus, James L.; and Edwards, Carl D., 3,723,311.

Edwards, Carson Penrod, to Sierra Research Corporation. Data message repeater system. 3,772,596, 11-13-73, Cl. 325-13.000.

Edwards Company Inc.: *See—*
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Berns, Charles, 3,781,877.
Burnett, James H., 3,728,703.







Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,844, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,845, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,846, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,847, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,848, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,849, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,850, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,851, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,852, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,853, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,854, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,855, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,856, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,857, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,858, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,859, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,860, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,861, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,862, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,863, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,864, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,865, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,866, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,867, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,868, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,869, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,870, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,871, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,872, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,873, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,874, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,875, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,876, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,877, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,878, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,879, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,880, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,881, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,882, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,883, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,884, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,885, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,886, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,887, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,888, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,889, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,890, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,891, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,892, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,893, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,894, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,895, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,896, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,897, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,898, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,899, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,900, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,901, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,902, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,903, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,904, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,905, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,906, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,907, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,908, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,909, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,910, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,911, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,912, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,913, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,914, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,915, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,916, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,917, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,918, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,919, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,920, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,921, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,922, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,923, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,924, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,925, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,926, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,927, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,928, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,929, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,930, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,931, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,932, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,933, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,934, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,935, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,936, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,937, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,938, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,939, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,940, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,941, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,942, 3-27-73, Cl. 251-58.000.

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Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,944, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,945, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,946, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,947, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,948, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,949, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,950, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,951, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,952, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,953, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,954, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,955, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,956, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,957, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,958, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,959, 3-27-73, Cl. 251-58.000.

Edwards, Charles Lee, to Edwards Company, Inc. Valve actuator. 3,722,960, 3-27-73, Cl. 251-58.

Edwards, Coy W.; and Laborde, Enos J., Jr., to McVean and Barlow, Inc. Apparatus for internally welding pipe joints. 3,764,056, 10-973, Cl. 228-4.000.
Edwards, Derek Reginald: *See—*
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Edwards, Donald W., to Commercial Solvents Corporation. Gelled nitromethane compositions. 3,765,966, 10-16-73, Cl. 149-18.000.
Edwards Enterprises of Orlando, Inc.: *See—*
Edwards, Paul R., 3,739,997.
Edwards, Evan A.; and Tone, Frederick F., to Eastman Kodak Company. Film record card. 3,718,471, 2-27-73, Cl. 96-75.000.
Edwards, Evan A., to Eastman Kodak Company. Gear drive for a camera and film cartridge. 3,728,949, 4-24-73, Cl. 95-31.00r.
Edwards, Evan A., to Eastman Kodak Company. Device for winding a filmstrip. 3,767,132, 10-23-73, Cl. 242-71.200.
Edwards, Evan A.; Sutliff, Robert C.; and Tucker, Archie J., to Eastman Kodak Company. Cartridge takeup core and core-mounting system. 3,768,747, 10-30-73, Cl. 242-71.200.
Edwards, Evan A., to Eastman Kodak Company. Photographic apparatus. 3,776,114, 12-4-73, Cl. 95-31.0fm.
Edwards, Floyd F. Chain links. 3,750,390, 8-7-73, Cl. 59-78.000.
Edwards, Frank M., to McGaw Division of American Hospital Supply Corporation. Filtering unit for medical liquids. 3,726,795, 4-10-73, Cl. 210-233.000.
Edwards, Frank M., to American Hospital Supply Corporation. Continuous feed medical nebulizer. 3,746,000, 7-17-73, Cl. 128-194.000.
Edwards, Frank M., to American Hospital Supply Corporation. Ultrasonic nebulizer for inhalation therapy. 3,774,602, 11-27-73, Cl. 128-194.000.
Edwards, Gayle Dameron; and Moss, Philip Hotchkiss, to Jefferson Chemical Company, Inc. Chain extenders for urethane elastomers. 3,736,296, 5-29-73, Cl. 260-77.5aq.
Edwards, George Wheeler; and Edwards, Arrie Wood. Plant protein product and process. 3,780,183, 12-18-73, Cl. 426-50.000.
Edwards, Gordon C.: *See—*
Marrese, Richard J.; Edwards, Gordon C.; and Zielinski, James, 3,741,746.
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Arff, Uwe F.; and Edwards, Gordon J., 3,777,401.
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Albers, Edwin W.; and Edwards, Grant C., 3,730,910.
Albers, Edwin W.; Edwards, Grant C.; and Vaughan, David E. W., 3,755,538.
Edwards, Harrison F. Ionic wind machine. 3,751,715, 8-7-73, Cl. 317-4.000.
Edwards, Harrison F.; and Bottorf, Stewart F., to Lewis Engineering Company, The. Servo apparatus. 3,767,992, 10-23-73, Cl. 318-640.000.
Edwards, Harrison F.; and Bottorf, Stewart F., to Lewis Engineering Company, The. Photosensitive control apparatus with movable light control member. 3,770,965, 11-6-73, Cl. 250-201.000.
Edwards, Harry L.: *See—*
Allinger, Hubert B.; and Edwards, Harry L., 3,778,631.
Edwards, Haze D.; and Peck, William L. Lantern holder. 3,730,471, 5-1-73, Cl. 248-274.000.
Edwards, Howard W., Jr., to Sanders Associates, Inc. Program branching and register addressing procedures and apparatus. 3,728,689, 4-17-73, Cl. 340-172.500.
Edwards, Hugh Jeremy Willis, to C.C.L. Systems Limited. Anchorage assembly for prestressing cables. 3,757,390, 9-11-73, Cl. 24-126.000.
Edwards, James B.: *See—*
Woodie, Paul E.; and Edwards, James B., 3,757,685.
Edwards, James D.; and McQuinn, Max R., to Scott & Fetzer Company, The. Rotary switch with retaining clip for grounding shaft for chassis terminal. 3,710,042, 1-9-73, Cl. 200-17.00r.
Edwards, James D. Apparatus for loading and unloading printing machines. 3,738,519, 6-12-73, Cl. 214-652.000.
Edwards, John A.: *See—*
Ackrell, Jack; Edwards, John A.; and Fried, John H., 3,716,529.
Cross, Alexander D.; and Edwards, John A., 3,728,336.
Edwards, John A., to Syntex Corporation. Novel 17β-(tetrahydropyran-4-yloxy)steroids. 3,733,316, 5-15-73, Cl. 260-239.55r.
Edwards, John A., to Syntex Corporation. Preparation of C-17α alkyl substituted propadienyl steroids. 3,758,517, 9-11-73, Cl. 260-397.400.
Edwards, John A., to Syntex Corporation. Novel 17β-tetrahydropyran-4-yloxy) steroids. 3,763,146, 10-2-73, Cl. 260-239.55r.
Edwards, John A.; and Fried, John H., to Syntex Corporation. Novel phenanthrene-2-carboxylic acids and derivatives thereof. 3,775,471, 11-27-73, Cl. 260-514.500.
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Captain, Khushroo M.; Edwards, John H.; and Russell, David B., 3,773,597.
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Edwards, Laurren C., Sr.: *See—*
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Edwards, Lowell N.: *See—*
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Edwards, Miles Lowell: *See—*
Huthcins, Thomas B., IV; and Edwards, Miles Lowell, 3,710,781.
Edwards, Norman W.; Derr, Vincent H.; and Mattson, Richard A., to Pittsburgh-Des Moines Steel Company. Floating roof having uniformly distributed buoyancy means. 3,724,704, 4-3-73, Cl. 220-26.00r.
Edwards, Norman W., to Pittsburgh-des Moines Steel Company. Storage tank for offshore storage of liquid and method of constructing and installing same. 3,777,497, 12-11-73, Cl. 61-46.500.
Edwards, Paul R., to Edwards Enterprises of Orlando, Inc. Square pattern strip winding means. 3,739,997, 6-19-73, Cl. 242-67.10r.
Edwards, Raymond Montague; and Tierney, Patrick Joseph. Thermoplastic sheet material. 3,753,938, 8-21-73, Cl. 260-28.50d.
Edwards, Raymond S.; and Guy, Thomas L. Planing apparatus. 3,724,517, 4-3-73, Cl. 144-116.000.
Edwards, Reginald Harold: *See—*
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Edwards, Richard N. Sewage treatment apparatus and method. 3,772,188, 11-13-73, Cl. 210-15.000.
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Hopkins, Walker L.; and Edwards, Richard R., 3,720,730.
Hopkins, Walker L.; Chvatal, Leland A.; and Edwards, Richard R., 3,729,624.
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Edwards, Robert E.; and McKee, Donald H., to Moffitt, Roy M., Company, The. High pressure plate washer. 3,760,824, 9-25-73, Cl. 134-144.000.
Edwards, Robert F.: *See—*
Beitzel, Stuart W.; and Edwards, Robert F., 3,775,314.
Edwards, Robert L., to National Seating Company. Vehicle seat. 3,778,103, 12-11-73, Cl. 297-331.000.
Edwards, Robert S.: *See—*
Rigdon, Orville W.; Edwards, Robert S.; and Holst, Edward H., 3,717,561.
Rigdon, Orville W.; Edwards, Robert S.; and Holst, Edward H., 3,775,275.
Edwards, Samuel L. Aircraft with vertical take off and landing capability. 3,750,980, 8-7-73, Cl. 244-12.00c.
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Edwards, Webster H.: *See—*
Armstrong, William M., Jr.; Edwards, Webster H.; and Vining, Roy H., 3,712,745.
Edwards, William F. Roll gate latch. 3,747,967, 7-24-73, Cl. 292-104.000.
Edwards, William M., to McCall Printing Company, The. Reversible tip-on machine. 3,776,543, 12-4-73, Cl. 270-53.000.
Edwards, William R., to United States of America, Navy. Apparatus for quick-blossoming chaffe ejection. 3,730,098, 5-1-73, Cl. 102-34.400.
Edwards, William R., to United States of America, Navy. Laser boresight kit and method of alignment. 3,734,627, 5-22-73, Cl. 356-153.000.
Edwards, William Sterling; Kahn, Paul; and Goodenough, Samuel H., to Cutter Laboratories, Inc. Fabricating equipment for tissue type heart valve. 3,709,175, 1-9-73, Cl. 112-262.000.
Edwards, William Sterling; Kahn, Paul; and Goodenough, Samuel H., to Cutter Laboratories, Inc. Tissue-type heart valve with a graft support ring or stent. 3,714,671, 2-6-73, Cl. 3-1.000.
Eebuisser, Jean-Claude A.: *See—*
Castets, Michel G. M.; Colin, Jean-Marie H.; and Eebuisser, Jean-Claude A., 3,713,152.
Ef Ka-Werke Fritz Kiehn GmbH: *See—*
Kappeler, Otto; and Messner, Rudolf, 3,746,011.
Efanov, Boris Fedorovich: *See—*
Maksutov, Rafkhat; Asfandiyarov, Khalim Akhmetovich; Pashin, Vasily Fedorovich; Gubarev, Yakov Fedorovich; Sadykov, Rifgat Suleimanovich; Akhunov, Albert Musagitovich; Vakhitov, Gadel Galyautdinovich; Graifer, Valery Isaakovich; Zyalyaev, Vagiz Murzakhanovch; Kostrjukov, Gennady Vasilievich; and Efanov, Boris Fedorovich, 3,729,803.
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Eff, Christian A., to General Electric Company. Solid waste incinerator. 3,742,874, 7-3-73, Cl. 110-8.00a.
Effinger, Cecil S. Free platen typewriter. 3,767,023, 10-23-73, Cl. 197-127.00r.
Effinger, David D.: *See—*
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Effinger, David D.; Evans, Norol T.; and Estrick, Vaughn H., to Hughes Aircraft Company. Dynamic range control system having amplitude restoration. 3,781,883, 12-25-73, Cl. 343-7.00a.
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Ehrat, Kurt, to Ciba-Geigy AG. Apparatus for monitoring the action of electromagnetically operated printing hammers. 3,742,310, 6-26-73, Cl. 317-123.000.
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Ehrenberg, Milton F., Jr., to Cory Corporation. Beverage brewing apparatus. 3,771,431, 11-13-73, Cl. 99-295.000.
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Ehrhardt, Henry B. Manually operated unlatching anchor. 3,762,357, 10-2-73, Cl. 114-208.00a.
Ehrich, Felix Frederick; and Jaffe, Edward E., to Du Pont de Nemours, E. I., and Company. 2,9-Dicarboxyquinacridone and methods for its production. 3,752,817, 8-14-73, Cl. 260-279.00r.
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Ehringer, Hermann O., to Westinghouse Electric Corporation. Method of making greatly elongated tungsten or molybdenum members. 3,777,111, 12-4-73, Cl. 219-105.000.
Ehrlich, Benjamin. Tiller attachment for power mowers. 3,744,569, 7-10-73, Cl. 172-42.000.
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Ehrlich, Nathan, to Bell Telephone Laboratories, Incorporated. Electronic lock. 3,717,866, 2-20-73, Cl. 340-147.0md.
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Robinson, Ernest B.; Ehrlich, Shelton; and Bishop, John W., 3,763,830.
Robison, Ernest B.; Ehrlich, Shelton; and Bishop, John W., 3,717,700.
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Ehrlichmann, Merlin W.; and Bjorklund, John R., Jr., to West Creek Co., Inc. Smoke control device. 3,749,032, 7-31-73, Cl. 110-8.00a.
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Ehrmann, Karl: *See*—
Brammer, Harmut; Hohne, Gerd; Jakob, Gert; Kalippke, Harold; Sohner, Gerhard; Ehrmann, Karl; and Brand, Gunter, 3,744,466.
Ehrreich, John E.; and Reti, Adrian R., to Graham Magnetics, Inc. Process for making small particles. 3,725,036, 4-3-73, Cl. 75-.50a.
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Wilson, Robert Laverne, 3,753,488.
Eibe, Werner W., to Blaw-Knox Company. Combination rolling mill. 3,712,102, 1-23-73, Cl. 72-238.000.
Eibensteiner, Walter, to U.S. Philips Corporation. Recording and/or playback apparatus with tape engagement means resiliently urged to an operating position. 3,735,053, 5-22-73, Cl. 179-100.2za.
Eibl, Hans: *See*—
Schwarz, Otto; and Eibl, Hans, 3,729,556.
Eich, Eckart; and Rochelmeyer, Hans. Manufacture of lysergols. 3,709,891, 1-9-73, Cl. 260-285.500.
Eich, Edmund; Muller, Walter; and Freitsch, Bruno. Device for the automatic replacement and adjustment of tool carriers, more particularly angular milling heads on the milling support of a machine tool. 3,757,637, 9-11-73, Cl. 90-17.000.
Eichardt, Wolfgang: *See*—
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Eichbaum, Barlane R. Apparatus for vaporizing a fuel-air mixture in the induction system of a combustion engine. 3,741,180, 6-26-73, Cl. 123-122.00a.
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Eichelberger, Edward Baxter, to International Business Machines Corporation. Method of level sensitive testing a functional logic system. 3,761,695, 9-25-73, Cl. 235-153.0ac.
Eichelberger, Robert J.: *See*—
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Eichelberger, William E.; and Wood, Lawrence H., to Corning Glass Works. Projection storage-display system having dynamic graphic capability. 3,781,846, 12-25-73, Cl. 340-324.00a.
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Eichenberger, Kurt; Egli, Christian; and Hedwall, Roberta, to Ciba-Geigy Corporation. Treating hypertension with β-aminoalkane carboxylic acids. 3,740,439, 6-19-73, Cl. 424-319.000.
Eichenhofer, Josef, to Automatic Bar Feed Ltd. Facing stop system. 3,720,123, 3-13-73, Cl. 82-34.00a.
Eichenhofer, Josef, to Automatic Bar Feed Ltd. Pneumatic bar feeder control for multiple spindle screw machines. 3,760,661, 9-25-73, Cl. 82-2.700.
Eichenhofer, Josef, to Automatic Bar Feed Ltd. Automatic bar feeder attachment for multiple spindle screw machines. 3,780,924, 12-25-73, Cl. 226-155.000.
Eicher, Karl: *See*—
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Eichers, Orsula; Hahmann, Otto; Meyer, Heinz-Hermann; Rombusch, Konrad; and Rossbach, Manfred, to Chemische Werke Huls Aktiengesellschaft. Thermoplastic compositions. 3,756,997, 9-4-73, Cl. 260-88.20s.
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Eichhorn, Robert Milne, to Union Carbide Corporation. Bonding plastics with plasma arc radiation. 3,740,287, 6-19-73, Cl. 156-272.000.
Eichhorst, Ingo: *See*—
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Eichhorst, Ingo, to Licentia Patent-Verwaltungs-G.m.b.H., mesne. Switch spring for a relay. 3,723,688, 3-27-73, Cl. 200-166.00c.
Eichinger, Hans, to Schottel-Werft Josef Becker KG. Rudder propeller for ships and amphibian vehicles. 3,752,112, 8-14-73, Cl. 115-35.000.
Eichinger, John W., to Gulf & Western Industrial Products Company. Closure member for metal containers and method of assembly. 3,757,986, 9-11-73, Cl. 220-39.00r.
Eichinger, Le Roy J.: *See*—
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Eichler, Norbert; and Urban, Kurt, to Gebr. Bohler Aktiengesellschaft. Apparatus for cutting of fiber strands. 3,735,661, 5-29-73, Cl 83-675.000.
Eichman, Ellis V. Curtain wall system with vents. 3,720,025, 3-13-73, Cl. 52-204.000.
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Eichmann, Dieter; Heyer, Gunter; Schaff, Ulrich; and Voigt, Gunter, to Siemens Aktiengesellschaft. Digital compact control module. 3,731,120, 5-1-73, Cl. 307-213.000.
Eichner, Don W., to Outboard Marine Corporation. Method of making flexible waste receptacle for marine toilets. 3,713,937, 1-30-73, Cl. 156-245.000.
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Eickhorst, Melvin F.: *See*—
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Eickmann, Karl. Balancing arrangement for a control body having ports. 3,747,639, 7-24-73, Cl. 137-625.240.
Eickmann, Karl. Fluid-borne vehicle. 3,768,757, 10-30-73, Cl. 244-17.230.



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Eidinov, Sergei Matveevich: *See—*
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Eidt, Scott Hubert, to Texas Alkyls, Inc. Novel process for the preparation of alkyl-aluminum halides or alcoholates and trialkylboranes. 3,719,695, 3-6-73, Cl. 260-448.00a.

Eidus, William. Moisture indicating strip for diapers and surgical dressings. 3,731,685, 5-8-73, Cl. 128-284.000.

Eifrid, Stephen. Container. 3,738,563, 6-12-73, Cl. 229-23.0bt.

Eig, Lev Samuilovich: *See—*
Avilov, Ernest Alexeevich; Vasilievich, Nikolai; Galtsov, Vladimir Vasilievich; Zykov, Anatoly Petrovich; Kanunov, Mikhail Alexeevich; Kiselev, Jury Vladimirovich; Mityaev, Mikhail Vladimirovich; Nikitin, Vyacheslav Vladimirovich; Razin, Anatoly Alexandrovch; Stankevich, Jury Leonidovich; Tsukerman, Veniamin Aronovich; and Eig, Lev Samuilovich, 3,758,804.

Eig, Merrill, to United States of America, Army. Non-metallic rotary bands. 3,760,736, 9-25-73, Cl. 102-93.000.

Eigenbrod, Lester Hurt, to Union Carbide Corporation. Intransit liquefied gas refrigeration system. 3,714,793, 2-6-73, Cl. 62-62.000.

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Eigenmann, Ludwig. Reflective road marking means and aggregate. 3,746,425, 7-17-73, Cl. 350-109.000.

Eigenmann, Ludwig. Light reflecting system. 3,781,083, 12-25-73, Cl. 350-105.000.

Eiger, William H. Practice device. 3,740,053, 6-19-73, Cl. 273-194.00b.

Eigner, Horst: *See—*
Pfeifer, Josef; Eigner, Horst; and Hofmann, Wilfried, 3,773,409.

Eikevik, Arne. Gate valve and method of making the same. 3,718,314, 2-27-73, Cl. 251-329.000.

Eilenberger, Stanley D., to Progressive Products Corporation. Electric grill with a thin film heating element. 3,737,624, 6-5-73, Cl. 219-525.000.

Eilenberger, Stanley D., to Progressive Products Corporation. Making disposable electric devices. 3,739,464, 6-19-73, Cl. 29-592.000.

Eiler, Peter, to Gottwald, Leo K.G. Multi-axled vehicle chassis. 3,720,280, 3-13-73, Cl. 180-64.00r.

Eiler, Peter, to Gottwald, Leo, K.G. Vehicle chassis frame. 3,738,442, 6-12-73, Cl. 180-64.00r.

Eiler, Peter, to Gottwald, Leo, KG. Overload safety device for a crane. 3,754,665, 8-28-73, Cl. 212-39.0ms.

Eiler, Peter; and Weiskopf, Hans, to Gottwald, Leo, K.G. Travelling crane. 3,768,665, 10-30-73, Cl. 212-38.000.

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Eilers, George J., to Stanford Research Institute. Compound lens for converting the effect of large-area sonic transducer to one of small-area. 3,754,208, 8-21-73, Cl. 340-8.001.

Eilers, Kenneth I.: *See—*
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Root, Roland L.; and Eilers, Louis H., 3,734,188.

Eilers, Louis H.; and Parks, Christ F., to Dow Chemical Company, The. Water-soluble carbamoyl polymer compositions used as cements. 3,746,725, 7-17-73, Cl. 260-334.00r.

Eilers, Louis H., to Dow Chemical Company, The. Soil sealing method. 3,772,893, 11-20-73, Cl. 61-36.00r.

Eilers, Louis Hugh: *See—*
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Eilertson, Earl E., 1/3 to Eilertson, Eugene E. and 1/3 to Vie, Arnold M. Extinguishing ashtray. 3,760,817, 9-25-73, Cl. 131-235.00r.

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Eilhauer, Friedrich Walter; and Krug, Ernst Walter, to Jager, Emil, KG, mesne. Loom. 3,762,449, 10-2-73, Cl. 139-127.000.

Eilingsfeld, Heinz: *See—*
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Eilingsfeld, Heinz; and Scheuermann, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of hydroxybenzonitriles. 3,737,449, 6-5-73, Cl. 260-465.000.

Eimer, Johannes; Windemuth, Erwin; Berndt, Gerhard; and Koch, Hans-Joachim, to Bayer Aktiengesellschaft. Polyurethane based coating compositions. 3,726,838, 4-10-73, Cl. 260-77.5aq.

Eimers, Erich; Rudolph, Hans; and Kloker, Werner, to Bayer Aktiengesellschaft. Polyesters containing tertiary nitrogen atoms. 3,758,556, 9-11-73, Cl. 260-485.00g.

Einaga, Hisahiko: *See—*
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Einarsson, Einar. Pneumatic anti-skid vehicle tire. 3,712,358, 1-23-73, Cl. 152-208.000.

Eineck, Mathew F.; and Mahorney, Kenneth R., to Danly Machine Corporation. Electrical control system for a power press. 3,749,005, 7-31-73, Cl. 100-53.000.

Einhorn, Ruediger: *See—*
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Eino, Ernest Moloney, William F., Jr.; and Toledo, Emil, to United States of America, Navy. Use of lead in a nonorganic-containing copper pyrophosphate bath. 3,775,268, 11-27-73, Cl. 204-52.00r.

Einstein, Bernard Caesar, to Litton Systems, Inc. Light amplifier device having an ion and low energy electron trapping means. 3,742,224, 6-26-73, Cl. 250-213.0vt.

Einstein, Bernard Caesar, to Litton Systems, Inc. Light amplifier tube having an ion and low energy electron trapping means. 3,777,201, 12-4-73, Cl. 313-65.00r.

Einstein, Bernard Ceasar: *See—*
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Einthoven, Willem Gerard; and Wheatley, Carl Franklin, Jr., to RCA Corporation. Semiconductor device employing Darlington circuit. 3,751,726, 8-7-73, Cl. 317-235.00r.

Einwiller, Andreas: *See—*
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Eirich, Gustav Josef: *See—*
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Eise, Edwin E.; and Hefermehl, Hans-Peter, to Gebrueder Buhler AG and Hefermehl, H. P., S.A. Method for the drying of high-moisture waste products of living organismus. 3,707,774, 1-2-73, Cl. 34-14.000.

Eisele, Andrew. Spindle for dial indicator gauge. 3,732,624, 5-15-73, Cl. 33-174.00q.

Eisele, Hermann; and Lewis, Robert R., to Westinghouse Electric Corporation. Control system for individually driven vehicles in a train of such vehicles. 3,745,933, 7-17-73, Cl. 105-61.000.

Eisele, Hermann; and Eichardt, Wolfgang, to Bosch, Robert, G.m.b.H. Load dependent control circuit for a gasoline fuel injection unit. 3,747,575, 7-24-73, Cl. 123-32.0ea.

Eisele, Max; and Wilhelm, Gunter, to Siemens Aktiengesellschaft. Automotive vehicle equipped with an alternating-current drive. 3,756,335, 9-4-73, Cl. 180-6.280.

Eisele, Nancy E.: *See—*
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Eisele, Walter H.: *See—*
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Eisele, Wolfgang; Hohe, Heinz; Von Ammon, Hans; Beck, Fritz; and Suter, Hubert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Electrolytic cell including bipolar electrodes having two spaced chambers in each electrode for feeding and withdrawing elctrolyte from the cell. 3,775,283, 11-27-73, Cl. 204-268.000.

Eiselstein, Herbert L.; and Hosier, James C., to International Nickel Company, Inc., The. Iron nickel chromium alloys. 3,729,308, 4-24-73, Cl. 75-128.00e.





Eiseman, Fred S.; and Schenek, Leslie M., to GAF Corporation. Fabric treatment with halogenated carbamate antistatic agents. 3,741,801, 6e26-73, Cl. 117-139.5cq.

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Eisen- und Drahtwerk Erlau AG: *See—*
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Eisenacher, Werner; and von Roda, Eckart, to Bosch, Robert, G.m.b.H. Separator for maintenance-free cells. 3,753,784, 8-21-73, Cl. 136-145.000.

Eisenberg, Alvin S., to Q-TV, Inc. Closed circuit television prompting device. 3,748,384, 7-24-73, Cl. 178-7.200.

Eisenberg, Bernard J.: *See—*
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Eisenberg, Earnold J.: *See—*
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Eisenberg, Eugene: *See—*
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Eisenberg, Harold, to Webster Electric Company, Inc. Intrusion detection device utilizing low frequency sound waves and phase detection techniques. 3,754,222, 8-21-73, Cl. 340-258.00a.

Eisenberg, Mark F.; and Holz, George E., to Burroughs Corporation. Low power display driver having brightness control. 3,778,673, 12-11-73, Cl. 315-169.000.

Eisenberg, Melvin I. Container with self-closing one-way valve. 3,724,461, 4-3-73, Cl. 128-227.000.

Eisenberg, Robert M., to Singer Company, The. Pulsed selectable delay system. 3,728,635, 4-17-73, Cl. 328-55.000.

Eisenberg, Robert M., to Singer Company, The. Loran signal synthesizer. 3,743,754, 7-3-73, Cl. 35-10.200.

Eisenberger, Peter M.; and McCall, Samuel Leverte, Jr., to Bell Telephone Laboratories, Incorporated. Nonlinear device for frequency shifting X-rays. 3,720,843, 3-13-73, Cl. 307-88.300.

Eisenberger, Peter Michael; and Schmidt, Paul Herman, to Bell Telephone Laboratories, Incorporated. Magnetic devices irradiated by penetrating electromagnetic radiation. 3,714,420, 1-30-73, Cl. 250-42.000.

Eisendrath, David C.; and Klykun, Peter, to Colborne Manufacturing Company. Lattice pie-topping apparatus. 3,744,404, 7-10-73, Cl. 99-450.100.

Eisenhardt, Fred W., to Alloway Manufacturing Inc. Incorporator. 3,741,137, 6-26-73, Cl. 111-6.000.

Eisenhauer, Elroy C. Jack construction. 3,765,650, 10-16-73, Cl. 254-133.000.

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Eisenmann, Rolf, to Durr, Otto, K.G. Apparatus for separating paint or the like from water. 3,764,013, 10-9-73, Cl. 210-205.000.

Eisenmann, Rolf, to Durr, Otto, K.G. Method for purifying water. 3,772,190, 11-13-73, Cl. 210-44.000.

Eisenstadt, Marvin E., to Cumberland Packing Corporation. Artificial sweetener composition. 3,743,518, 7-3-73, Cl. 99-141.00a.

Eisentraut, Anna M., to Nuclear-Medical Laboratories, Inc. Method and apparatus for determining thyroid function. 3,743,482, 7-3-73, Cl. 23-230.00b.

Eisentraut, Anna M., to Nuclear-Medical Laboratories, Inc. Method of determining thyroid function. 3,775,615, 11-27-73, Cl. 250-303.000.

Eisentraut, Anna M., to Nuclear-Medical Laboratories, Inc. Test for thyroid hormone. 3,776,698, 12-4-73, Cl. 23-230.00b.

Eisenwerk-Gesellschaft Maximilianshutte m.b.H.: *See—*
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Eisfeld, Wolfgang: *See—*
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Eising, John P., to Smith, A. O., Corporation. Back pressure valve for thermal compensating dip tube. 3,726,475, 4-10-73, Cl. 236-102.000.

Eising, John P., to Smith, A. O., Corporation. Direct fired water heater thermal compensating dip tube. 3,776,456, 12-4-73, Cl. 236-93.000.

Eisler, Paul. Electrical heating film. 3,721,800, 320-73, Cl. 219-213.000.

Eisler, Paul. Combined demisting and defrosting heating panel for windows and other transparent areas. 3,736,404, 5-29-73, Cl. 219-203.000.

Eisler, Paul. Surface heating device. 3,751,629, 8-7-73, Cl. 219-201.000.

Eislers, Visvaldis, to Comalco Limited. Railway wagon. 3,776,144, 12-4-73, Cl. 105-406.00r.

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Eisner, Steve; and Rowe, Carl H., to Norton Company. Water purification with porous abrasives. 3,728,255, 4-17-73, Cl. 210-15.000.

Eisner, Steve, to Norton Company. Multiple metal electrodeposition. 3,734,838, 5-22-73, Cl. 204-43.00r.

Eisner, Steve, to Norton Company. Crack-free hard chrome. 3,749,652, 7-31-73, Cl. 204-105.00r.

Eisner, Steve, to Norton Company. Multi-hardness electrodeposits. 3,753,871, 8-21-73, Cl. 204-35.00r.

Eisner, Steve, to Norton Company. Vibratory apparatus. 3,753,889, 8-21-73, Cl. 204-198.000.

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Ekeland, Thomas C. Coded filing and retrieval system. 3,727,327, 4-17-73, Cl. 35-24.00r.

Ekelund, Christer. Hosiery slitter. 3,710,663, 1-16-73, Cl. 83-156.000.

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Ekey, William J., to McNeil Corporation. Stage for a centrifugal pump. 3,779,668, 12-18-73, Cl. 415-199.000.

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Ekornes, Jostein. Readjustable chair. 3,773,383, 11-20-73, Cl. 297-320.000.
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El-Hindi, Ahmad M.; and Jaeggli, Ralph G. Method of separating solids from liquids. 3,752,758, 8-14-73, Cl. 210-21.000.
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Elder, Frederick A., to Westinghouse Electric Corporation. Timing means for use in a portable circuit breaker tester. 3,742,304, 6-26-73, Cl. 317-141.00r.
Elder, Gerald Brent; and Lewis, Armand Francis, to American Cyanamid Company. Composite laminate with a thin, perforated outer layer and cavitated bonded backing member. 3,770,560, 11-6-73, Cl. 161-112.000.
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Elder, James H., to General Electric Company. Receiver selecting arrangement. 3,729,681, 4-24-73, Cl. 325-304.000.
Elder, James H., to General Electric Company. Audio signal quality indicating circuit. 3,729,682, 4-24-73, Cl. 325-304.000.
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Elders, Gerald W.; Schneider, Thomas E.; deceased (by Schneider, Thomas R.; administrator); and Alongi, John R. Machine for driving mine roof pins. 3,734,380, 5-22-73, Cl. 227-140.000.
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Electrovac Fabrikation elektrotechnischer Spezialartikel Gesellschaft m.b.H.: *See*—
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Elek, Sandor: *See*—
Kasztreiner, Endre; Vargha, Laszlo; Huszti, Zsuzsanna; Borsi, Jozsef; Szilagyi, Geza; Szakaly, Judit; Elek, Sandor; and Polgari, Istvan, 3,758,546.
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Elektro-Ion, Inc.: *See*—
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Elektro-Physick, Hans Nix & Dr.-Ing. E. Steingroever KG: *See*—
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Dohse, Rothard; Edeling, Curt; and Eisenmann, Josef, 3,745,336.
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Dohse, Ruthard; Edeling, Curt; and Eisenmann, Josef, 3,737,658.
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Gell, Philip Anthony Maunsell; Merritt, Frederick Maynard; and Steitz, William Richards, 3,777,040.
Steitz, William R.; Bradley, Robert O.; and Waterworth, Thomas H., 3,757,020.
Elenberger, Richard V. Steering wheel mounted clipboard. 3,739,478, 6-19-73, Cl. 33-75.00r.
Elenburg, Wayland D. Method and apparatus for isolating the bottom of a borehole from an upper formation. 3,713,488, 1-30-73, Cl. 166-285.000.
Elenburg, Wayland D. Formation chip sampling method. 3,774,702, 11-27-73, Cl. 175-66.000.
Elerdashvilli, Georgy Vasilievich: *See*—
Korshak, Vasily Vladimirovich; Gribova, Irina Alexandrovna; Krasnov, Alexandr Petrovich; Sergeev, Vladimir Alexandrovich; Shitikov, Valentin Kuzmich; and Elerdashvilli, Georgy Vasilievich, 3,756,982.
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Moyldew, Oraham Edward; and Shemack, John Lindsay, 3,777,855.
Elevitch, Franklin R. Gel for electrophoresis. 3,766,047, 10-16-73, Cl. 204-299.000.
Elevitch, Franklin R. Method and apparatus for forming electrophoresis apparatus and the like. 3,767,560, 10-23-73, Cl. 204-299.000.
Eley, Edgar R., and Horton, William L., III, to Westinghouse Electric Corporation. Dual-voltage transformer with coordinated fusing. 3,746,928, 7-17-73, Cl. 317-15.000.
Eley, Edgar R., to Westinghouse Electric Corporation. Stress relieving member for encapsulated transformer windings. 3,750,071, 7-31-73, Cl. 336-84.000.
Eley, Edgar R., to Westinghouse Electric Corporation. Method of constructing a transformer winding assembly. 3,774,298, 11-27-73, Cl. 29-605.000.
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Elf Union and Ateliers des Charmilles S.A.: *See*—
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Elfe, Thomas B., Jr., to Sperry Rand Corporation. High-impedance slow-wave propagation circuit having band width extension means. 3,715,616, 2-6-73, Cl. 315-3.500.
Elfers, Gunther, to BASF Wyandotte Corporation. Acrylamide-styrene phosphonic acid copolymers as paper additives. 3,763,122, 10-2-73, Cl. 260-80.30n.
Elfes, Lee Eugene; and Lorenz, John, to Massey-Ferguson, Inc. Tractor counter weight assembly. 3,758,132, 9-11-73, Cl. 280-150.00e.
Elfline, Robert J., to Research and Safety Devices Corporation. Safety closure. 3,710,970, 1-16-73, Cl. 215-9.000.
Elfstrom, Ingvar B.; and Osterlund, Dennis E. Diving suit. 3,740,764, 6-26-73, Cl. 2-2.100.
Elgar Corporation: *See*—
Elliston, Robert O., 3,715,652.
Elgenstierna, Reinhold Magnus, to Tegelindustriens Centralkantor AB. Method for forming composite building. 3,770,863, 11-6-73, Cl. 264-261.000.
Elger, Gerald W.: *See*—
Stickney, William A.; Hunter, Willard L.; Elger, Gerald W.; and Rhoads, Stanley C., 3,739,061.
Elgert, Albert H.; and Harmes, Lee D., to Kaiser Aluminum & Chemical Corporation. Bridling attachment for a rolling mill. 3,733,869, 5-22-73, Cl. 72-205.000.
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Elhen, Karl C., to Modernfold of Canada Limited-Modernfold du Canada Limitee. Bottom edge seal for movable space divider panels. 3,762,460, 10-2-73, Cl. 160-40.000.
Eliahou, Elie S.: *See*—
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Elias & Brugarolas: *See*—
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Elias, Elias G.: *See*—
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Elias, James A., and Hook, Rollin E., to Armco Steel Corporation. Columbium treated, low carbon steel. 3,761,324, 9-25-73, Cl. 148-36.000.
Elias, James A., and Hook, Rollin E., to Armco Steel Corporation. Vacuum degassed, interstitial-free, low carbon steel and method for producing same. 3,765,874, 10-16-73, Cl. 75-123.00h.



Elias, Jiri: *See*—
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Elias, William; Valdes, Silverio Antonio; and Waybright, George Cleveland, to GTE Sylvania Incorporated. Signal generating circuit for a deflection system. 3,731,138, 5-1-73, Cl. 315-29.000.
Eliason, Carl E.: *See*—
Merrow, George W.; West, Robert F.; Eliason, Carl E.; and Guarnaccia, Joseph J., 3,762,453.
Eliason, Carlyle R., to Eliason Corporation. Insulated wall construction. 3,729,880, 5-1-73, Cl. 52-232.000.
Eliason Corporation: *See*—
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Eliason, Kay E.; and James, James R., to Atlantic Richfield Company. Distribution device. 3,741,482, 6-26-73, Cl. 239-296.000.
Eliason, Kay E., to Atlantic Richfield Company. Method of insulating a pipeline. 3,774,281, 11-27-73, Cl. 29-157.00r.
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Elin, Ake Lennart, to Svenska Ackumulator Aktiebolaget Jungner. Method for producing an electrochemically active material for nickel hydroxide electrodes. 3,752,706, 8-14-73, Cl. 136-24.000.
Elineau, Hubert, to Etablissements R. Senard & Fils. Automatic distributor of long objects such as bars or similar items. 3,712,458, 1-23-73, Cl. 198-219.000.
Elingsen, Raymond L., to Brunswick Corporation. Integrated spark advance and carburetors valve control mechanism. 3,769,949, 11-6-73, Cl. 123-99.000.
Elingsen, Raymond L., to Brunswick Corporation. Cowl for outboard motor. 3,773,010, 11-20-73, Cl. 115-17.000.
Elion, Gertrude B.; and Strelitz, Robert A., to Burroughs Wellcome Co. and Wellcome Foundation, Ltd. Treating DNA virus infections with amino purine derivatives. 3,758,684, 9-11-73, Cl. 424-180.000.
Eliseev, Alexandr Jurievich: *See*—
Nikolaev, Vasily Ilich; Eliseev, Alexandr Jurievich; Bogachev, Vladimir Petrovich; Prosvirin, Artem Petrovich; Konstantinopolsky, Vladimir Tonovich; and Belousov, Anatoly Nikolaevich, 3,735,912.
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Indra, Jaromir; and Opatril, Vaclav, 3,722,552.
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Eljay Hospital Products Corporation, mesne: *See*—
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Vesei, Laszlo M., 3,751,870.
Elkin, Samuel; and Lieberman, Hillel, to Temple University. Amine substituted methylene quinuclidone anti-bacterial agents. 3,726,877, 4-10-73, Cl. 260-293.530.
Elkington, Ronald William: *See*—
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Elkins, Bobby L., to Lear Siegler, Inc. Shelf divider. 3,780,876, 12-25-73, Cl. 211-184.000.
Elkins, Carlos D. Transparent slide for the examination of liquid specimens. 3,777,283, 12-4-73, Cl. 331-94.500.
Elkins, Jack D. Inflatable warning device for roadways. 3,720,181, 3-13-73, Cl. 116-63.00p.
Elkins, James H.: *See*—
Odum, William T.; Elkins, James H.; and Coggins, Thomas M., 3,730,122.
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Elkins, Lujene, to Bunker Ramo Corporation, The. Electronic circuit assemblies and method of manufacture. 3,771,101, 11-6-73, Cl. 339-17.00c.
Elkins, Perry E.: *See*—
Mee, Jack E.; Besser, Paul J.; Pulliam, George R.; Heinz, David M.; and Elkins, Perry E., 3,728,152.
Mee, Jack E.; Besser, Paul J.; Pulliam, George R.; Heinz, David M.; and Elkins, Perry E., 3,745,046.
Elkins, Perry E.; and Austerman, Stanley B., to North American Rockwell Corporation. Single crystal beryllium oxide growth from calcium oxide-beryllium oxide melts. 3,768,983, 10-30-73, Cl. 23-301.0sp.
Elkins, Samuel M. Water-immersible electrical heating device. 3,737,621, 6-5-73, Cl. 219-318.000.
Elkins, William; and Connele, Eugene W., to Garrett Corporation, The. Sealed bearing. 3,743,368, 7-3-73, Cl. 308-187.200.
Elko, William F.: *See*—
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Elks, Joseph, to Glaxo Laboratories Limited. Novel process for the preparation of 17α-hydroxy-pregna-1,4,9,(11)-triene-3,20-dione. 3,715,376, 2-6-73, Cl. 260-397.450.
Elks, Joseph; Phillipps, Gordon Hanley; and May, Peter John, to Glaxo Laboratories Limited. 3-Keto-Δ⁴-9a-halo-1'-oxygenated-16-methyl or methylene-17d-acyloxy-20-keto-21-halo-pregnenes. 3,721,687, 3-20-73, Cl. 260-397.450.
Elks, Joseph; May, Peter John; and Phillipps, Gordon Hanley, to Glaxo Laboratories Limited. 21-Phosphate esters of 17α-acyloxy-21-hydroxy steroids of the pregnanes series. 3,764,616, 10-9-73, Cl. 260-397.450.
Elksnis, Artur Yanovich: *See*—
Abramov, Viktor Petrovich; Junga, Yan Petrovich; Berzin, Gunard Valdemarovich; Skrupsky, Voldemar Petrovich; Frolov, Petr Nikolaevich; Lugovskoi, Andrei Lukyanovich; Shilgorin, Felix Alexandrovich; Dalbinsh, Yan Yanovich; Rotsen, Karl Arturovich; Ziemelis,Andris Eduardovich; Elksnis, Artur Yanovich; and Priede, Bruno Andreevich, 3,709,270.
Elkuch, Franz, to Etablissement Procor. Electrostatic system for generating periodical mechanical vibrations. 3,769,531, 10-30-73, Cl. 310-6.000.
Ellanin Investments, Ltd.: *See*—
Lowry, John D., 3,716,670.
Lowry, John D., 3,752,906.
Lowry, John D.; and Holland, Kenneth F., 3,752,916.
Lowry, John D., 3,778,543.
Ellefson, Charles R.: *See*—
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Ellen, Leonard William; and Davies, Gordon Thomas, to Postmaster General, Her Majesty's. Digital control apparatus. 3,781,867, 12-25-73, Cl. 340-347.0ad.
Ellenberger & Poensgen GmbH: *See*—
Ellenberger, Jakob, 3,729,607.
Ellenberger, Jakob, 3,731,239.
Ellenberger, Jakob, 3,750,074.
Ellenberger, Jakob. Push-button actuated excess current switch. 3,708,776, 1-2-73, Cl. 337-66.000.
Ellenberger, Jakob, to Ellenberger & Poensgen GmbH. Pushbutton reset circuit breaker having peripheral contact condition indicator means. 3,729,607, 4-24-73, Cl. 200-167.00r.
Ellenberger, Jakob, to Ellenberger & Poensgen GmbH. Excess current switch. 3,731,239, 5-1-73, Cl. 335-167.000.
Ellenberger, Jakob, to Ellenberger & Poensgen GmbH. Plunger type relay. 3,750,074, 7-31-73, Cl. 337-77.000.
Ellenburg, George W., to Westinghouse Electric Corporation. Reverse osmosis module. 3,712,473, 1-23-73, Cl. 210-321.000.
Eller, Kyle Clifton, Jr. Instrument for checking and determining the grade and slope of a surface. 3,751,818, 8-14-73, Cl. 33-375.000.
Eller, Timothy S.: *See*—
Lockitt, John A.; and Eller, Timothy S., 3,761,809.
Eller, Timothy S., to GTE Sylvania Incorporated. AGC system for communications system. 3,755,737, 8-28-73, Cl. 325-62.000.
Ellersick, Russell R. Articulated radiant heating modules. 3,731,051, 5-1-73, Cl. 219-162.000.
Ellert, Frederick J.; and Leete, Bernard D., to General Electric Company. Light conduit with double cladding. 3,732,425, 5-8-73, Cl. 250-217.00s.
Ellerton, Norman V.; Paradise, William F.; and Sanford, Peter E., to Glaxo Laboratories Limited. Method of producing 7β-acylamido-3-methylceph-3-em-4-carboxylic acid ester. 3,725,399, 4-3-73, Cl. 260-243.00c.

Ellestad, George Alfred; and McGahren, William James, to American Cyanamid Company. Antimicrobial metabolite S491 beta and S491 Nu and chemical derivatives. 3,775,433, 11-27-73, Cl. 260-343.300.
Ellett Copper and Brass Company Ltd.: *See—*
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Ellicott Machine Corporation: *See—*
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Ellicott, Olin S., Jr. Cutting tool. 3,709,627, 1-9-73, Cl. 408-204.000.
Ellies, Alan David; and Cone, Richard E., II. Interlockable sticks for confections. 3,748,778, 7-31-73, Cl. 46-28.000.
Ellinger, Karl-Georg; and Schumacher, Henning, to Sterwin A.G. Carbon disulfide disinfectant for coccidia oocysts and worm eggs. 3,781,416, 12-25-73, Cl. 424-44.000.
Ellinger, Rudolph H.: *See—*
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Ellinghause, Edgar A.; and Johnson, George B., to Interstate Drop Forge Co. Power control circuit for resistance heating moving conductors. 3,739,132, 6-12-73, Cl. 219-50.000.
Elliot, David R.: *See—*
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Elliot, Ian Robertson, to Rank Organisation Limited, The. Apparatus for manufacturing a multi-filament light coordinating cable. 3,767,372, 10-23-73, Cl. 65-13.000.
Elliot; Raymond William: *See—*
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Elliott, Bentley W., to Milprint, Inc. Nylon packaging film with thermally developable slip. 3,763,082, 10-2-73, Cl. 260-37.00n.
Elliott, Brantford G., to Harrington Manufacturing Co., Inc. Mowing device. 3,777,459, 12-11-73, Cl. 56-15.300.
Elliott Brothers (London) Limited: *See—*
Barltrop, Richard Kenneth, 3,708,735.
Catford, John Russell; and Brotton, James, 3,732,739.
Chapman, Peter Frederick, 3,729,698.
Colston, John Matthew; and Machin, James Robert, 3,725,723.
Jablonski, Jan, 3,722,279.
Laverick, Elizabeth, 3,771,160.
Lundberg, Derek Anthony, 3,781,564.
Machin, James Robert; Colston, John Matthew; and Jibb, David John, 3,761,765.
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Whitehead, Eric A. N.; Carpenter, Henry G.; and Chinn, Peter D., 3,716,784.
Elliott, Charles G.; and Mazzur, Richard P., to Armstrong Cork Company. Process for producing a decorative surface covering. 3,778,291, 12-11-73, Cl. 117-21.000.
Elliott, Charles Henry. Apparatus for producing aluminum from alumina. 3,723,287, 3-27-73, Cl. 204-243.00r.
Elliott, Charles Henry. Aluminum-production apparatus. 3,761,379, 9-25-73, Cl. 204-225.000.
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Elliott, Eldon G. Magnetic article sorting apparatus. 3,759,367, 9-18-73, Cl. 198-41.000.
Elliott, Ernest A.; and Pasen, Randolph A., to Detroit Edison Company, The. Tubular deadend supports. 3,715,460, 2-6-73, Cl. 174-158.00r.
Elliott, Everett: *See—*
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Elliott, Franklin P., to Honeywell Inc. Flash apparatus with automatic light termination using a number of storage capacitors. 3,758,817, 9-11-73, Cl. 315-151.000.
Elliott, George E.: *See—*
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Elliott, Gilbert Leslie, to Northern Electric Company Limited. Crossbar switches. 3,713,054, 1-23-73, Cl. 335-112.000.
Elliott, Harold V.: *See—*
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Elliott, Herbert; and Simons, Frank A., to Dow Chemical Company, The. Apparatus for removal of coolant from metal surfaces. 3,758,913, 9-18-73, Cl. 15-38.000.
Elliott, Jack G.: *See—*
Weidman, Joseph S.; Yee, Henry C.; Elliott, Jack G.; and Margosian, Zaven, 3,725,921.
Elliott, John Scotchford; Crail, Ian Robert Henry; and Jayne, Gerald John Joseph, to Castrol Limited. Reaction products of a polyalkylene amine sulfonic acid and an alkenyl succinic acid or anhydride. 3,725,434, 4-3-73, Cl. 260-326.300.
Elliott, Kenneth F., to GTE International Incorporated. Rotary switch. 3,720,893, 3-13-73, Cl. 335-138.000.
Elliott, Michael; and Janes, Norman F., to National Research Development Corporation. Insecticides. 3,720,703, 3-13-73, Cl. 260-468.00h.
Elliott, Orrin M., to Great Canadian Oil Sands Limited. Freeze-thaw separation of solids from tar sands extraction effluents. 3,751,358, 8-7-73, Cl. 208-17.000.
Elliott, Phillip Mitchell. Drawing instruments. 3,768,166, 10-30-73, Cl. 33-27.00b.
Elliott, Ralph K.: *See—*
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Elliott, Richard M., to Associated Electrical Industries Limited. Mass spectrometer ion source having means for rapidly expelling ions from the source and method of operation. 3,731,089, 5-1-73, Cl. 250-41.9sb.
Elliott, Richard M.; and Newton, Albert E., to USM Corporation. Adhesive extruders. 3,743,142, 7-3-73, Cl. 222-146.0he.
Elliott, Robert E., to FWI, Inc. Pump station. 3,746,027, 7-17-73, Cl. 137-1.000.
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Elliott, Roy Lee. Index card means. 3,708,066, 1-2-73, Cl. 209-80.500.
Elliott, Royston David, to Lansing Bagnall Limited. Electrical motor circuits. 3,764,873, 10-9-73, Cl. 318-252.000.
Elliott, Stanley B. Visual-type hygrometer. 3,776,038, 12-4-73, Cl. 73-335.000.
Elliott, William G., to SpectraMetrics, Incorporated. Spectrometer system containing an interchangeable encoding cassette. 3,752,585, 8-14-73, Cl. 356-98.000.
Ellis, Alan F.; and Sabourin, Edward T., to Gulf Research & Development Company. Process for converting an olefin to a product containing higher and lower olefins. 3,775,509, 11-27-73, Cl. 260-683.00d.
Ellis, Alfred Brian Edwin; and Bunton, Geoffrey Vernon, to Marconi Company Limited, The. Keyboard. 3,737,668, 6-5-73, Cl. 250-220.00r.
Ellis, Alfred Brian Edwin, to Marconi Company, Limited, The. System for processing slope and duration information, contained in complex waveforms. 3,749,834, 7-31-73, Cl. 178-66.000.
Ellis, Belvin B.: *See—*
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Scanlon, Joseph C.; Brauer, Alfred; Carvalho, Robert; and Ellis, Cecil B., 3,740,559.
Ellis, Charles A. Blood culture apparatus. 3,764,780, 10-9-73, Cl. 219-430.000.
Ellis, Charles B.; and Parker, Sidney A., to Lennox Industries, Inc. Refrigerant compressor construction. 3,762,837, 10-2-73, Cl. 417-360.000.
Ellis, Charles W., to Lorain Products Corporation. Phase responsive control circuit. 3,723,888, 3-27-73, Cl. 328-134.000.
Ellis, Charles W., to Lorain Products Corporation. Variable frequency pulse generating circuit. 3,736,516, 5-29-73, Cl. 328-134.000.
Ellis, Claude E. Bowling game counter. 3,710,080, 1-9-73, Cl. 235-92.0ga.
Ellis, Colin R. G.: *See—*
Lilly, Rodger H.; and Ellis, Colin R. G., 3,753,286.
Ellis Corporation: *See—*
Toth, Alex, 3,712,089.
Toth, Alex; and Fesmire, Robert H., 3,712,090.
Toth, Alex, 3,718,013.
Toth, Alex, 3,737,140.
Toth, Alex, 3,751,947.
Ellis, Donovan Russell, Jr.; and Markiewicz, Bernard Frank, to Becton, Dickinson and Company. Resealable ampoule closure. 3,749,271, 7-31-73, Cl. 215-32.000.
Ellis, George S.; Finn, Bernard J.; and Pinx, Charles H., to General Motors Corporation. Height control valve for vehicle leveling. 3,754,768, 8-28-73, Cl. 280-6.00r.
Ellis, George W.: *See—*
Wilson, Ronald H.; Possin, George E.; and Ellis, George W., 3,763,476.
Ellis, George W.; Possin, George E.; and Wilson, Ronald H., to General Electric Company. Method and apparatus for storing and reading out charge in an insulating layer. 3,761,895, 9-25-73, Cl. 340-173.60r.
Ellis, Gordon Milburn, Jr.: *See—*
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Ellis, Greer, to Vishay Intertechnology, Inc. Calibrator for determining the magnitude of strains in rigid articles. 3,779,065, 12-18-73, Cl. 73-1.00r.
Ellis, James B.: *See—*
Lux, George K.; Ellis, James B.; and Schulze, John J., 3,708,161.
Ellis, John D., Jr.: *See—*
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Ellis, John Douglas, Jr.: *See—*
Saccomano, Joseph Michael; Ellis, John Douglas, Jr.; Choulet, Richard Jay; and Death, Frank Stuart, 3,754,894.
Ellis, John L.; Mal, N. Kumar; and Tarkan, Stuart E., to Chromalloy American Corporation. Plasma sprayed titanium carbide tool steel coating. 3,779,720, 12-18-73, Cl. 29-195.00a.
Ellis, John R., Jr.: *See—*
Langlois, Leo L.; Tadaki, Ralph T.; Ellis, John R., Jr.; Stevens, Roy W., Jr.; and Leech, Robert H., 3,735,668.
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Ellis, Leonard C.: *See—*
Kise, Mearl A.; and Ellis, Leonard C., 3,773,679.
Ellis, Lonnie T. Pump and folding support arrangement therefor. 3,730,651, 5-1-73, Cl. 417-554.000.
Ellis, Lynn W., to International Telephone and Telegraph Corporation. Multiplex out-of-band signaling system. 3,718,767, 2-27-73, Cl. 179-15.0bm.
Ellis, Myron P.; Czubak, Albin S.; and McDonald, Keith A., to Micromatic Hone Corporation. Gear honing machine. 3,728,829, 4-24-73, Cl. 51-215.00h.
Ellis, Myron P.; and Gavasso, Richard J., to Micromatic Industries, Inc. Combined plating and honing method and apparatus. 3,751,346, 8-7-73, Cl. 204-26.000.
Ellis, Myron P.; and Kaake, Karl H., to Micromatic Industries, Inc. Honing and plating apparatus and method embodying bore gauging means. 3,772,164, 11-13-73, Cl. 204-26.000.
Ellis, Peter H., to Rohr Industries, Inc. Drive mechanism. 3,724,759, 4-3-73, Cl. 239-265.290.
Ellis, Ray G., to Atlas Tool & Manufacturing Company. Snow thrower. 3,742,626, 7-3-73, Cl. 37-43.00r.
Ellis, Robert. Means for more conveniently peruse from a large sheet of paper. 3,734,809, 5-22-73, Cl. 161-17.000.
Ellis, Robert. Foot-ball game employing a number of balls equal to the number of goals. 3,746,340, 7-17-73, Cl. 273-95.00h.
Ellis, Robert C., Jr.: *See—*
Boynton, Richard P.; and Ellis, Robert C., Jr., 3,719,880.
Ellis, Robert C., Jr., to Sperry Rand Corporation. Rotational transducer using hall effect devices. 3,751,691, 8-7-73, Cl. 310-10.000.
Ellis, Robert J.: *See—*
Cohen, Leonard H.; Zweidler, Alfred; Hafner, William F.; and Ellis, Robert J., 3,750,964.
Ellis, Robert O., to Atlas Pacific Engineering Company. Apple orientor. 3,738,474, 6-12-73, Cl. 198-33.0aa.
Ellis, Robert P. Refrigerator cabinet. 3,734,588, 5-22-73, Cl. 312-247.000.
Ellis, Robert S.: *See—*
Williams, Arthur L.; and Ellis, Robert S., 3,771,215.
Ellis, Rollo G.; and Ditty, Allan V., 1/3 to Gilleran, Gerald T. Nail extracting device. 3,746,306, 7-17-73, Cl. 254-19.000.
Ellis, Rutherford L., Jr.: *See—*
Sasnett, Bolling H., Jr.; and Ellis, Rutherford L., Jr., 3,771,697.
Ellis, Sloan E., to San Saba Development Association. Thermostatically controlled water supply system. 3,741,195, 6-26-73, Cl. 126-362.000.
Ellis, Sloan E., 50% to San Saba Development Association. Litter pick-up machine. 3,777,327, 12-11-73, Cl. 15-84.000.
Ellis, Wayne Philip; Foster, George Washington Elkins, Jr.; and Allen, James Roy, to Amchem Products, Inc. Protective coated thermal insulation. 3,755,029, 8-28-73, Cl. 156-71.000.
Ellis, William L. Holddown fastening clip with grating and sub-support structures. 3,742,671, 7-3-73, Cl. 52-507.000.
Ellis, William R.: *See—*
Ribe, Fred L.; Burnett, Sibley C.; and Ellis, William R., 3,748,226.
Ellis, William R., Jr. Lift truck side shifting means. 3,734,327, 5-22-73, Cl. 214-730.000.
Ellison, Donald E.: *See—*
Chomet, Marc; and Ellison, Donald E., 3,781,468.
Ellison, Donald E., to Inland Container Corporation. Multi-ply container. 3,744,702, 7-10-73, Cl. 229-23.00r.
Ellison, Donald E., to Inland Container Corporation. Container having improved bellows closure and blank for making same. 3,750,932, 8-7-73, Cl. 229-37.00r.
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Ellison, Donald G.; as receiver for Baker, John O.: *See—*
Cole, George S.; and Ritzenthaler, Richard L., 3,774,643.
Ellison, John E.; and Flink, Herbert M., to Skinner Precision Industries, Inc. Electromagnetic valve assembly. 3,707,992, 1-2-73, Cl. 137-625.650.
Ellison, Paul E.; and Koehn, Richard R., to Dunham Associates Inc. Building load structure. 3,727,362, 4-17-73, Cl. 52-648.000.
Elliston, Robert O., to Elgar Corporation. High speed buck-boost alternating current regulator. 3,715,652, 2-6-73, Cl. 323-45.000.
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Ellman, Irving A. Electrosurgical apparatus for dental use. 3,730,188, 5-1-73, Cl. 128-303.140.
Ellman, Irving A. Pain-alleviating apparatus for dental drilling. 3,745,654, 7-17-73, Cl. 32-27.000.
Ellman, Julius; and Lerner, George. Liquid eliminating doll with valve means actuated by external magnetic device. 3,775,901, 12-4-73, Cl. 46-239.000.
Ellman, Julius; and Lerner, George. Magnetic game construction. 3,781,015, 12-25-73, Cl. 273-153.00r.
Ellner, Edwin, to Better Packages, Inc. Digital readout scale with actuated poise. 3,738,438, 6-12-73, Cl. 177-25.000.
Ellner, Edwin, to Better Packages, Inc. Strip material dispenser feed-out control. 3,749,013, 7-31-73, Cl. 101-227.000.
Ellstrom, Johas Ragnar, to Junkers & Co., G.m.b.H. Control apparatus for a cooling device. 3,778,591, 12-11-73, Cl. 219-279.000.
Ellsworth, James P.; and Yorgin, Nick, to Westinghouse Electric Corporation. Circuit breaker with improved barrier means. 3,748,620, 7-24-73, Cl. 337-20.000.
Ellsworth, James P.; and Majcher, John, to Westinghouse Electric Corporation. Multi-pole circuit breaker with single trip adjustment for all poles. 3,758,887, 9-11-73, Cl. 335-8.000.
Ellsworth, James P.; and Wallace, James B., to Westinghouse Electric Corporation. Enclosed device with cover interlock switch. 3,760,132, 9-18-73, Cl. 200-50.00a.
Ellul, Joseph M., to International Business Machines Corporation. Centralized security system employing a magnetic checking device. 3,781,845, 12-25-73, Cl. 340-306.000.
Ellwanger, Charles G.; and Pedersen, Peter H., to Gleason Works, The. Machine for lapping gears. 3,717,958, 2-27-73, Cl. 51-26.000.
Ellwanger, Hans; Kraisel, August; Kraus, Walter; and Zirps, Wilhelm, to Bosch, Robert, G.m.b.H. Hydraulic adjusting apparatus for hospital beds or the like. 3,724,003, 4-3-73, Cl. 5-68.000.
Ellzey, Floyd P. Railway vehicle height controlling system. 3,707,926, 1-2-73, Cl. 104-1.00r.
Ellzey, Samuel E., Jr.: *See—*
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Elmaleh, Leonard R., to Scheiner, Solly. Manual suction corettage instruments. 3,721,244, 3-20-73, Cl. 128-304.000.
Elman, Daniel L. Process for finishing steel bars. 3,750,438, 8-7-73, Cl. 72-39.000.
Elmatic Corporation: *See—*
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Elmedix Limited: *See—*
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ELMEG Elektro-Mechanik GmbH: *See—*
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Reuting, Hans Werner, 3,757,069.
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Zielke, Alfred, 3,775,596.
Elmendorp, Jan; and De Rooij, Abraham H., to Stamicarbon N.V. Process for the preparation of oximes. 3,729,304, 4-24-73, Cl. 71-34.000.
Elmer, Arthur Ernest Henry, to Dynair Limited. Wax capsule valves. 3,738,571, 6-12-73, Cl. 236-100.000.
Elmer, Arthur Ernest Henry, to Dynair Limited. Fan drives. 3,757,914, 9-11-73, Cl. 192-48.300.
Elmer, Arthur Ernest Henry, to Dynair Limited. Fluid pressure released clutch for fans. 3,777,866, 12-11-73, Cl. 192-91.00a.
Elmer, Ben R.; and Eklund, Melvin H., to Honeywell Information Systems, Inc. Two-phase three-clock MOS logic circuits. 3,755,689, 8-28-73, Cl. 307-205.000.
Elmer, Gary W.; and Muller, Karl A., Jr., to Standard Oil Company. Means for reducing foam accumulation in a separation drum. 3,747,304, 7-24-73, Cl. 55-178.000.
Elmer, James W.; and Reschke, Donald C., to Inventors Engineering Inc. Indexing tool table. 3,735,470, 5-29-73, Cl. 29-208.00f.
Elmer, James W., to Inventors Engineering Inc. Continuous motion two part assembly machine. 3,750,256, 8-7-73, Cl. 29-208.00b.
Elmer, Otto C.: *See—*
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Elmer, Thomas H.; and Malmendier, Joseph W., to Corning Glass Works. Devitrification-resistant coating for high-silica glasses. 3,754,978, 8-28-73, Cl. 117-124.00a.
Elmer, Thomas H.; and Meissner, Helmuth E., to Corning Glass Works. Process for making carbon-containing ceramics. 3,775,078, 11-27-73, Cl. 65-32.000.
Elmhurst, Richard F.; Farina, John S.; Davis, David C., Jr.; and Elmhurst, William A., to Honeywell Information Systems, Inc. Line printer time shared electronics. 3,728,688, 4-17-73, Cl. 340-172.500.

Elmhurst, William A.: *See—*
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Elmore, Lester C.; and Broxholn, Thomas M., to Pulsepower Systems Inc. Pulsed high pressure liquid propellant combustion powered gas generators. 3,756,763, 9-4-73, Cl. 431-1.000.
Elmore, William C.: *See—*
Walraven, Thomas A.; Maropis, Nicholas; Elmore, William C.; and Devine, Janet, 3,765,589.
Elms, Robert T.: *See—*
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Engel, Joseph C.; and Elms, Robert T., 3,753,071.
Elms, Robert T., to Westinghouse Electric Corporation. Rectifier operable from dual input voltages for use with ballasted discharge lamps. 3,733,541, 5-15-73, Cl. 321-47.000.
Elms, Robert T., to Westinghouse Electric Corporation. Electronic wattmeter including a solid-state logarithmic multiplier. 3,764,908, 10-9-73, Cl. 324-142.000.
Elmslie, Keith W.: *See—*
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Elonanta, Vaito K.; and Ruggles, Benjamin C., to Polaroid Corporation. Manually operable film-advancing apparatus. 3,757,657, 9-11-73, Cl. 95-13.000.
Eloranta, Vaito K.: *See—*
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Eloranta, Vaito K., to Polaroid Corporation. Headlamp polarizing attachment. 3,731,080, 5-1-73, Cl. 240-9.500.
Eloranta, Vaito K.; and Shenk, Edwin K., to Polaroid Corporation. Focus responsive exposure control system. 3,750,543, 8-7-73, Cl. 95-10.0ce.
Eloranta, Vaito K.; and Ruggles, Benjamin C., to Polaroid Corporation. System for uniformly coating exposed motion picture film with processing fluid. 3,759,609, 9-18-73, Cl. 352-72.000.
Elorus, Hans-Jorg: *See—*
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Elsaesser, Dieter, to Grundig E.M.V. Elektro-Mechanische Versuchsanstalt Inh. Max Grundig. Stabilizing circuit for standing currents. 3,766,410, 10-16-73, Cl. 307-255.000.
Elsas, Norman E., to Nemo Industries, Inc. Cloth cutting and hemming method and apparatus. 3,722,435, 3-27-73, Cl. 112-121.110.
Elsbett, Gunter; and Elsbett, Ludwig, to Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Method and apparatus for forming ring grooves and piston lands on a stell piston, especially for internal combustion engines. 3,712,099, 1-23-73, Cl. 72-107.000.
Elsbett, Gunter; and Elsbett, Ludwig, to Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Piston for injection type internal combustion engines. 3,730,163, 5-1-73, Cl. 123-193.00p.
Elsbett, Gunter; and Elsbett, Ludwig, to Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Piston, especially for compression ignition engines. 3,733,973, 5-22-73, Cl. 92-159.000.
Elsbett, Ludwig: *See—*
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Elsbett, Gunter; and Elsbett, Ludwig, 3,733,973.
Elsel, Karl Heinz, to Huller, Karl, Gesellschaft mit beschrankter Haftung. Transmission for the feeding movement of mechanical carriage units of machine tools. 3,709,058, 1-9-73, Cl. 74-661.000.
Elser, Dieter, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Selective assembly power steering mechanism. 3,754,479, 8-28-73, Cl. 74-499.000.
Elsing, John W., to Control Data Corporation. Thermal expansion compensator. 3,720,930, 3-13-73, Cl. 340-174.10b.
Elsner, Bertram F.; and Elsner, Frank, Jr., to Elsner Engineering. Roll banding machine. 3,775,939, 12-4-73, Cl. 53-212.000.
Elsner, Edwin C., 29% to Fink, Max., 10% to Hahn, Floyd C. and 10% to Littlebury, Hugh W., Sr. Device for releasably gripping an elongate flexible member. 3,716,115, 2-13-73, Cl. 188-65.100.
Elsner, Edwin C. Combination night light and liquid vaporizer. 3,780,260, 12-18-73, Cl. 219-271.000.
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Elsner, Raymond F.; Husty, James J.; and Tumarkin, Sam, to United States of America, Navy. Apparatus for detecting natural nonlinearities in antennas. 3,728,631, 4-17-73, Cl. 325-67.000.
Elsner, Raymond F.; and Lancaster, William F., to United States of America, Navy. Method for locating nonlinear mechanical junctions of metallic electrical conductors. 3,733,545, 5-15-73, Cl. 324-52.000.
Elsner, Uwe; and Wochnowski, Waldemar, to Hauni-Werke Korber & Co., KG. Method and apparatus for comminuting and drying of tobacco leaves. 3,736,942, 6-5-73, Cl. 131-22.00r.
Elsner, Uwe; and Komossa, Werner, to Hauni-Werke Korber & Co., KG. Apparatus for sharpening rotary cutters for tobacco or the like. 3,748,786, 7-31-73, Cl. 51-5.000.
Elson, Edward E.; McQuary, Kenneth L.; Karlin, George H.; and Lane, Bert, to Automatic Helium Balloon Systems Inc. Gas dispenser and inflation gauge. 3,724,516, 4-3-73, Cl. 141-95.000.
Elson, Edward E.; Isenberg, Don L.; Schnauss, Edwin R.; Sie, Edward H. C.; Wagoner, Earl V., Jr.; and Weisbart, Melvin S., to North American Rockwell Corporation. Microorganism culture apparatus. 3,728,227, 4-17-73, Cl. 195-127.000.
Elson, Edward E.; and Lane, Bert, to Automatic Helium Balloon Systems, Inc. Inflatable article valve. 3,768,501, 10-30-73, Cl. 137-231.000.
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Elstow, William Rupert Brooke; and Witt, Anthony Ronald, to Pains-Wessex Limited. Pyrotechnic devices. 3,735,706, 5-29-73, Cl. 102-34.100.
Elsworth, Robert M., to General Electric Company. Reeling and unreeling device. 3,746,273, 7-17-73, Cl. 242-75.510.
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Elton, Robert L., to Minnesota Mining and Manufacturing Company. Method for preparing a microporous sheet by heat-farming, annealing and leaching. 3,770,537, 11-6-73, Cl. 156-77.000.
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Elvrum, Don S. Curing and pretannage of hides. 3,751,221, 8-7-73, Cl. 8-94.160.
Elwart, Bruce J., to Royal Seven Inc. Flashing for roof vent pipes. 3,731,952, 5-8-73, Cl. 285-3.000.
Elwell, Robert M.; Kruse, Jurgen M.; and Michelove, Leon, to Itek Corporation. Method of producing low-scatter surfaces on metal substrates. 3,738,858, 6-12-73, Cl. 117-64.00r.
Elwell, Russell M.: *See—*
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Ely, Donald A., to Beloit Corporation. Web dryer. 3,753,298, 8-21-73, Cl. 34-116.000.
Ely, John W.; Chatterji, Jiten; Holtmyer, Marlin D.; and Tinsley, John M., to Halliburton Company. Methods for fracturing high temperature well formations. 3,768,566, 10-30-73, Cl. 166-308.000.
Ely, William Edwin, to Goodrich, B. F., Company, The. Friction member assembly. 3,731,769, 5-8-73, Cl. 188-218.0xl.
Ely, William G.; and Sinclair, John C., to Zenith Radio Corporation. Hearing aid with directional microphone system. 3,749,853, 7-31-73, Cl. 179-107.00h.
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Emanuel, Giovanni; and Bertoni, Lucio, to Emanuel-Fi.s.mec. S.p.A. and Ferom S.n.c. di Bertoni Lucio e Ferretti Mario. Apparatus for static and dynamic wheel balancing. 3,731,540, 5-8-73, Cl. 73-457.000.
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Emerson, Carl D.; and Aichenegg, Paul C., to Baychem Corporation, mesne. Sulfur containing carboxylic acids. 3,718,687, 2-27-73, Cl. 260-479.00r.
Emerson, Carl D.; and Aichenegg, Paul C., to Chemagro Corporation. α-(Dichlorovinylthio)-acetophenone. 3,742,046, 6-26-73, Cl. 260-542.000.
Emerson, Carl D.; and Aichenegg, Paul C., to Chemagro Corporation. Polyhalo disulfide alcohols and derivatives. 3,760,002, 9-18-73, Cl. 260-608.000.
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Emerson, Frank W., to General Time Corporation. Drive arrangement for timekeeping system. 3,729,925, 5-1-73, Cl. 58-23.00d.

Emerson, L. Frank, to GTE Sylvania Incorporated. Frequency to voltage converter employing Hall effect cell with signal hysteresis and normalizing. 3,776,606, 12-4-73, Cl. 303-21.0cf.

Emerson, Lucian F., to GTE Laboratories, Incorporated. DC signal processing circuit. 3,781,605, 12-25-73, Cl. 317-5.000.

Emerson, Paul D.; Davis, S Jack; Oatfield, John C.; Engelman, Fred H.; and Bartee, Charles E., said Emerson, said Oatfield, said Engelman and said Bartee assors. to Monsanto Company. Circular weaving apparatus product and process. 3,719,210, 3-6-73, Cl. 13-13.000.

Emerson, Paul D.; Davis, S. Jack; Oatfield, John C.; Engelman, Fred H.; and Bartee, Charles E., said Emerson, Oatfield, Engelman and said Bartee assors. to Monsanto Company. Circular weaving apparatus product and process. 3,719,212, 3-6-73, Cl. 139-387.000

Emerson, Reginald Stanley, to Hartridge, Leslie, Limited. Apparatus for assessing the damping performance of vehicle suspension systems. 3,774,439, 11-27-73, Cl. 73-11.000.

Emerson, S. Thomas; Simpson, W. Dwain; and Sutter, Richard J., to Periphonics Corporation. Analog signal recording and playback method and system. 3,745,264, 7-10-73, Cl. 179-100.2md.

Emerson, Thomas, to Periphonics Corporation. Analog signal recording and playback method and system. 3,743,793, 7-3-73, Cl. 179-100.2md.

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Emerson, William E.; and Dorfman, Edwin, to Hooker Chemical Corporation. Process for preparing triazines and crosslinked polymers of copolymers. 3,728,344, 4-17-73, Cl. 260-248.0cs.

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Emery, Dan D. Plant cistern. 3,755,965, 9-4-73, Cl. 47-27.000.

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EMI-Varian, Limited: *See—*
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Emicke, Klaus; and Goralczyk, Wilhelm, to Norddeutsche Affinerie. Method of separating copper from nickel. 3,744,994, 7-10-73, Cl. 75-101.00r.

Emidy, Thomas J.; Northrop, Donald P.; Thorington, Luke; and Olsen, Andrew Henry, to Duro-Test Corporation. Fluorescent lamps and method of manufacturing the same. 3,749,467, 7-31-73, Cl. 316-19.000.

Eminger, Robert J., to Essex International, Inc. Apparatus for winding two pole dynamoelectric machine field coils. 3,724,515, 4-3-73, Cl. 140-92.100.

Eminger, Robert J.; and Tyson, Clayton L., to Essex International, Inc. Apparatus for forming concentric, multi-turn, nested dynamoelectric machine field coils. 3,734,145, 5-22-73, Cl. 140-92.100.

Emken, Edward A., to United States of America, Agriculture. Hydroxy-conjugated fatty acids. 3,729,379, 4-24-73, Cl. 195-30.000.

Emley, Edward Frederick; and Brant, Malcolm Victor, to British Aluminium Company, Limited, The. Treatment of liquid metal. 3,753,690, 8-21-73, Cl. 75-68.00r.

Emley, Frank, to Pfizer Inc. Method of roll bonding to form a titanium clad aluminum composite. 3,711,937, 1-23-73, Cl. 29-487.000.

Emmasingel, Eindhoven: *See—*
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Emmerson, Calvin E.; Griffin, Robert A.; and Meginnis, George B., to General Motors Corporation. Seal structure. 3,719,365, 3-6-73, Cl. 277-53.000.

Emmerson, Calvin W.; and Schwedland, Ronald P., to General Motors Corporation. Blade tip closure. 3,709,632, 1-9-73, Cl. 416-97,000.

Emmerson, John O. Welding programmer. 3,715,560, 2-6-73, Cl. 219-131.00r.

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Emmet, Robert T., to United States of America, Navy. Sensor for a variable-pressure rolling ball viscometer. 3,707,871, 1-2-73, Cl. 73-57.000.

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Emmons, Robert J.; and Boissonneault, Maurice L., to Dynamics Corporation of America. Can opener cutter assembly release. 3,768,159, 10-30-73, Cl. 30-4.00r.

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Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,222, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,223, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,224, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,225, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,226, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,227, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,228, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,229, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,230, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,231, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,232, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,233, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,234, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,235, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,236, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,237, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,238, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,239, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,240, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,241, 11-27-73, Cl. 148-175.000.
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Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,243, 11-27-73, Cl. 148-175.000.
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Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,246, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,247, 11-27-73, Cl. 148-175.000.
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Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,250, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,251, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,252, 11-27-73, Cl. 148-175.000.
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Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,254, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,255, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,256, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,257, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,258, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,259, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,260, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,261, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,262, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,263, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,264, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,265, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,266, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,267, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,268, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,269, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,270, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,271, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,272, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,273, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,274, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,275, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,276, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,277, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,278, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,279, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,280, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,281, 11-27-73, Cl. 148-175.000.
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Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,283, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,284, 11-27-73, Cl. 148-175.000.
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Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,775,286, 11-27-73, Cl. 148-175.000.
Engelhardt, Hans Dieter, to Siemens Aktiengesellschaft. Method for the production of a semi

Engelfried, Werner, to Terrot, C., Sohne Maschinenfabrik. Electromagnetically-operated pattern control mechanism for circular knitting machines. 3,771,327, 11-13-73, Cl. 66-50.00r.

Engelhard, Bruno; and Steude, Heinrich, to Bayer Aktiengesellschaft. Recovery of pure cyclopentene. 3,763,254, 10-2-73, Cl. 260-666.00a.

Engelhard, Helmut: *See—*
Rinkler, Heinrich; Wieden, Horst; Engelhard, Helmut; and Nogaj, Alfred, 3,720,733.

Engelhard, Helmut; Bentz, Francis; Brokmeier, Dieter; and Nischk, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Acrylonitrile copolymers. 3,749,701, 7-31-73, Cl. 260-80.720.

Engelhard, Helmut; Rinkler, Heinrich-August; and Nischk, Gunther, to Bayer Aktiengesellschaft. Process for the production of acrylonitrile copolymers containing tertiary aliphatic or cycloaliphatic amino functions. 3,767,631, 10-23-73, Cl. 260-80.730.

Engelhard Minerals & Chemicals Corporation: *See—*
Adlhart, Otto J.; and Terry, Peter L., 3,709,736.
Adlhart, Otto J.; and Terry, Peter L., 3,716,416.
Baker, Kenneth D., 3,776,821.
Baker, Kenneth D., 3,776,822.
Cecil, Tom A., 3,754,712.
Horzepa, John P., 3,746,659.
Horzepa, John P., 3,752,772.
Keith, Carl D.; Kaley, Alfred J., Jr.; and Kero, Robert M., 3,755,107.
Kuo, Charles C. Y.; and Angel, Henry S., 3,769,382.
Miller, Barry S., 3,736,285.
Puskar, Victor, 3,765,921.
Rylander, Paul N.; Karpenko, Irene M.; and Pond, George R., 3,715,397.
Sawyer, Edgar W., Jr., 3,736,165.
Sawyer, Edgar W., Jr., 3,737,333.
Swanson, David B.; and Miller, Barry S., 3,723,174.
Zentz, William E., Jr., 3,725,100.

Engelhard, Otto, to Tarnoff, Mark and Tarnoff, Fleurette. Warp knit foot covering. 3,733,860, 5-22-73, Cl. 66-195.000.

Engelhard, William E., to Owego Heat Treat, Inc. Thermally activated control system. 3,770,194, 11-6-73, Cl. 236-15.00b.

Engelhardt, Albrecht: *See—*
Koppe, Herbert; Engelhardt, Albrecht; Ludwig, Gerhard; and Zeile, Karl, 3,740,443.
Koppe, Herbert; Engelhardt, Albrecht; and Zeile, Karl, 3,740,444.
Koppe, Herbert; Engelhardt, Albrecht; Ludwig, Gerhard; and Zeile, Karl, 3,742,023.
Koppe, Herbert; Kummer, Werner; Stahle, Helmut; Zeile, Karl; Engelhardt, Albrecht; and Traunecker, Werner, 3,755,413.
Schromm, Kurt; Mentrup, Anton; Zeile, Karl; Renth, Ernst-Otto; Engelhardt, Albrecht; and Traunecker, Werner, 3,769,430.

Engelhardt, Alvin, to Technicon Instruments Corporation. Self-locating sample receptacle having integral identification label. 3,781,120, 12-25-73, Cl. 356-244.000.

Engelhardt, Edward L., to Merck & Co., Inc. Preparation of 2-phenethyl-5-trifluoromethyl benzoic acid. 3,714,239, 1-30-73, Cl. 260-515.00a.

Engelhardt, Friedrich; Heid, Christian; Gunzert, Willi; Krusche, Erwin; and Meyer, Artur, to Cassella Farbwerke Mainkur Aktiengesellschaft. Water-soluble sulfur dyestuffs. 3,716,525, 2-13-73, Cl. 260-128.000.

Engelhardt, Friedrich; and Ribka, Joachim, to Cassella Farbwerke Mainkur Aktiengesellschaft. Process for the production of polymers in the presence of a redox catalyst system. 3,781,254, 12-25-73, Cl. 260-85.50r.

Engelhardt, Gunther: *See—*
Heider, Joachim; Eberlein, Wolfgang; and Engelhardt, Gunther, 3,740,392.

Engelhardt, Helmut, to Krohne, Ludwig. Flow meter housing construction. 3,778,091, 12-11-73, Cl. 285-238.000.

Engelhardt, John S., to Anaconda Company, The, mesne. Pothead termination comprising a vapor condenser and a tubular conductor extension containing a vaporizable liquid, and method. 3,767,835, 10-23-73, Cl. 174-11.0bh.

Engelhardt, John Sherman; and Ebel, Lawrence Charles, to Anaconda Company, The, mesne. Temperature monitored cable system with telemetry read-out. 3,748,655, 7-24-73, Cl. 340-207.00p.

Engelhardt, Manfred: *See—*
Baumer, Wilhelm; Fruhstorfer, Wolfgang; Hesse, Reiner; Engelhardt, Manfred; and Dennler, Bernd, 3,717,611.

Engelhardt, Manfred; Fruhstorfer, Wolfgang; Hesse, Reiner; Dennler, Bernd; and Baumer, Wilhelm, to Merck, E., A.G. 4-Hydroxy-3,5 ditertiary phenones. 3,711,554, 1-16-73, Cl. 260-591.000.

Engelhart, John E.: *See—*
Litt, Arnold D.; and Engelhart, John E., 3,780,051.
Lundberg, Charles A., Jr.; and Engelhart, John E., 3,776,924.

Engelhart, John E., to Esso Research and Engineering Company. Urea derivatives of 2-aminobenzothiazoles. 3,714,177, 1-30-73, Cl. 260-305.000.

Engelhart, John E., to Esso Research and Engineering Company. Herbicidal fluorinated phenyl ureas and thioureas. 3,734,961, 5-22-73, Cl. 260-553.00a.

Engelhart, John E., to Esso Research and Engineering Company. Malononitrile oxime derivatives. 3,780,085, 12-18-73, Cl. 260-465.400.

Engelhorn, Robert: *See—*
Kruger, Gerd; Zipp, Otmar; Keck, Johannes; Nickl, Josef; Machleidt, Hans; Ohnacker, Gerhard; Engelhorn, Robert; and Puschmann, Sigfrid, 3,712,924.
Kruger, Gerd; Zipp, Otmar; Keck, Johannes; Nickl, Josef; Machleidt, Hans; Ohnacker, Gerhard; Engelhorn, Robert; and Puschmann, Sigfrid, 3,769,408.
Schmidt, Gunther; Engelhorn, Robert; and Leitold, Matyas, 3,743,734.
Schmidt, Gunther; Engelhorn, Robert; and Leitold, Matyas, 3,749,785.

Engelke, Helmut: *See—*
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Engelke, Helmut, to International Business Machines Corporation. Method of testing the continuity of an electrical conductor by use of an electron beam converted from high to low energy. 3,763,425, 10-2-73, Cl. 324-51.000.

Engelking, Uwe K., to Organisation Europeenne de Recherches Spatiales. Universal nutation damper. 3,728,900, 4-24-73, Cl. 74-5.500.

Engelman, Fred H.: *See—*
Emerson, Paul D.; Davis, S Jack; Oatfield, John C.; Engelman, Fred H.; and Bartee, Charles E., 3,719,210.
Emerson, Paul D.; Davis, S. Jack; Oatfield, John C.; Engelman, Fred H.; and Bartee, Charles E., 3,719,212.

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Engelman, Valentine R.: *See—*
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Engelmann, Fitz; Knoch, Johannes; and Viehweger, Christoph, to Dynamit Nobel Aktiengesellschaft. Process and apparatus for controlling the spacing of the electrodes of electrolytic cells. 3,763,024, 10-2-73, Cl. 204-1.00r.

Engelmann, Herbert F., to Engelmann Microwave Company. Coaxial attenuator assembly having cross-shaped alternator element. 3,739,305, 6-12-73, Cl. 333-81.00a.

Engelmann Microwave Company: *See—*
Engelmann, Herbert F., 3,739,305.

Engelmann, Reinhart, to Licentia Patent-Verwaltungs-G.m.b.H. Semiconductor arrangement for nonreciprocal amplification or generation of oscillations in the microwave range. 3,728,637, 4-17-73, Cl. 330-5.000.

Engelmann, Roger F., to Case, J. I., Company. Flow divider valve. 3,722,524, 3-27-73, Cl. 137-101.000.

Engels, Kaspar, to Draiswerke GmbH, Firma. Device for continuous mixing of solids with liquids. 3,734,471, 5-22-73, Cl. 259-6.000.

Engels, Siegfried: *See—*
Stosberg, Herbert; Fleischmann, Horst; Reinhards, Gunter; and Engels, Siegfried, 3,751,757.
Stosberg, Herbert; Reinhards, Gunter; Engels, Siegfried; and Sauer, Hans-Jurgen, 3,772,733.

Engelskirchen, Konrad; and Galinke, Joachim, to Henkel & Cie G.m.b.H. Process for the preparation of cellulose derivatives containing carbamoylethyl groups. 3,726,859, 4-10-73, Cl. 260-232.000.

Engelsmann, Dieter; Kessler, Fritz; Mass, Dieter; and Zattler, Kurt, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with braking means for roll film. 3,707,904, 1-2-73, Cl. 95-31.00r.

Engelsmann, Dieter; Hackenberg, Hubert; and Karl, Horst, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus for use with light generating devices which are responsive to mechanical impulses. 3,714,874, 2-6-73, Cl. 95-11.50r.

Engelsmann, Dieter; and Schroder, Rolf, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus for use with percussive multilamp photoflash units. 3,719,126, 3-6-73, Cl. 95-110.500.

Engelsmann, Dieter; and Karl, Horst, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus for use with percussive flash devices. 3,750,548, 8-7-73, Cl. 95-11.00r.

Engelstein, Stanley; and Dorman, Isidore, to Bell & Howell Company. Automatic card selector for random-access card file system. 3,713,535, 1-30-73, Cl. 209-80.500.

Engelstein, Stanley; and Dorman, Isidore, to Bell & Howell Company. Random-access card file system. 3,729,094, 4-24-73, Cl. 209-80.500.

Engerbretsen, Einar O., to Hobart Manufacturing Company, The. Compactor and drive assembly. 3,734,009, 5-22-73, Cl. 100-229.000.

Engert, Heinz: *See—*
Tupaj, Manfred Paul; and Engert, Heinz, 3,710,035.
Tupaj, Manfred Paul; and Engert, Heinz, 3,718,777.

Engesa-Engenheiros Especialigados S.A.: *See—*





Ribeiro, Jose Luiz Whitaker, 3,753,376.

Engesser, Rudolf, to Oxy Metal Finishing Corporation, mesne. Method of producing chemical conversion coatings on metal surfaces. 3,758,349, 9-11-73, Cl. 148-6.150z.

Engfer, Ortwin, to Bosch, Robert, G.m.b.H. Pneumatic suspension for a motorcar. 3,729,211, 4-24-73, Cl. 280-124.00f.

Engfer, Ortwin, to Bosch, Robert, G.m.b.H. Apparatus for maintaining the pressure in a pneumatic suspension. 3,747,949, 7-24-73, Cl. 280-124.00f.

Engh, James T.: *See—*
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Engholdt, Richard K., to Erie Manufacturing Company. Method and apparatus for detecting the hardness level of water. 3,729,263, 4-24-73, Cl. 356-184.000.

Engineered Data Peripherals Corporation: *See—*
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Engineered Foam Plastics, Inc.: *See—*
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Engineered Products Company, The: *See—*
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Engineered Products, Inc.: *See—*
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Engineered Products, Inc. (EPI): *See—*
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Engins Matra, mesne: *See—*
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England, Charles John, to Monotype Corporation Limited, The. Photocomposing apparatus. 3,733,979, 5-22-73, Cl. 95-4.500.

England, David Charles, to Du Pont de Nemours, E. I., and Company. 3,4-Difluoro-α-pyrones having a 6-aromatic substituent. 3,723,470, 3-27-73, Cl. 260-343.500.

England, David Charles, to Du Pont de Nemours, E. I., and Company. Perfluoromalonyl fluorides. 3,733,357, 5-15-73, Cl. 260-544.00f.

England, Forrest E.; and Gifford, Joseph H., to Westinghouse Electric Corporation. Solid state power supply activated by a pyrotechnic chain. 3,756,157, 9-4-73, Cl. 102-70.20r.

England, George; and Warner, Dwight Allen, to Daedalus Enterprises, Inc. Method and apparatus for making a color strip map of thermal variations. 3,752,914, 8-14-73, Cl. 178-6.70r.

Englander, Sol. Clamp-on mirror assembly. 3,747,891, 7-24-73, Cl. 248-475.00r.

Engle, Gary W. Mini-wire control-system. 3,761,945, 9-25-73, Cl. 340-147.00t.

Engle, Jack F., to Borg-Warner Corporation. Differential mechanism. 3,742,784, 7-3-73, Cl. 74-710.500.

Engle, Roger E., to Trivex, Inc. Trouble alarm device for transmission system. 3,745,529, 7-10-73, Cl. 340-146.10e.

Engle, Stewart E.: *See—*
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Engle, Thomas H., to General Signal Corporation. Deceleration controller for railway brake systems. 3,751,116, 8-7-73, Cl. 303-20.000.

Englehard, Helmut: *See—*
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Englehardt, William H.: *See—*
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Engler, Clifford E., to Gilwin Corporation, mesne. Display apparatus for vehicle wheels. 3,769,729, 11-6-73, Cl. 40-129.00b.

Engler, Joseph P.; and Paulsen, Glen E., to T. O. Plastics, Inc. Plate dispenser. 3,724,719, 4-3-73, Cl. 221-279.000.

Englert, Merton L. Adjustable conveyor bracket assembly. 3,746,144, 7-17-73, Cl. 198-91.000.

Englert, Ralph A.; Fasano, Ronald F.; and Palmer, Darrell D., to International Business Machines Corporation. Head carriage assembly for magnetic disk storage drive. 3,721,967, 3-20-73, Cl. 340-174.10c.

Englesberg, Julius L.: *See—*
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English Calico Limited: *See—*
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English Clays Lovering Pochin & Company Limited: *See—*
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Ainsworth, John Desmond, 3,775,603.
Braikeviich, Michael, 3,756,744.
Eccles, Arnaud Michael; and Potter, Norman Leonard, 3,723,768.
Gunnell, Geoffrey Herbert Arthur; and Shaw, Frank Derek, 3,722,269.
Lorch, Hugh Olaf, 3,745,389.
Preston, Thomas William; and Reece, Albert Benjamin John, 3,777,197.
Simpson, Michael Charles Stephen; and Felton, Barrie, 3,717,796.

English Electric Valve Company Limited: *See—*
Brady, Michael Barry, 3,761,764.
Cooper, Brian Frederick, 3,727,097.
Lewis, Peter Frederick, 3,731,140.
Pickering, Alan Hugh, 3,729,646.
Pickering, Alan Hugh, 3,748,592.
Wreathall, William Michael, 3,761,615.

English, Gary L.: *See—*
Curtis, Ronald E.; English, Gary L.; and Hense, James R., 3,728,781.

English, Jackson Pollard: *See—*
Miller, Bernard; and English, Jackson Pollard, 3,708,580.

English, James H., to General Motors Corporation. Motor vehicle exterior light system control circuit. 3,775,640, 11-27-73, Cl. 315-83.000.

English Numbering Machines Limited: *See—*
Cook, John Hayward, 3,761,015.
Cook, John Hayward, 3,774,841.
Georghallis, Constantine Andreas, 3,771,443.

English, Paul Everitt: *See—*
Veltze, Stanislaw Marian; and English, Paul Everitt, 3,745,834.

English, Richard A., to Carrier Corporation. Absorption refrigeration system. 3,742,726, 7-3-73, Cl. 62-476.000.

English, Roy. Flying toy. 3,765,122, 10-16-73, Cl. 46-74.00d.

English, William A.; and Young, Robert R., to Westinghouse Electric Corporation. Room air conditioner having compressor with variable capacity and control therefor. 3,759,057, 9-18-73, Cl. 62-196.000.

English, William H.: *See—*
Kapalko, Erwin J.; and English, William H., 3,730,865.
Kapalko, Erwin J.; and English, William H., 3,772,227.

Englund, Gosta R.; and Myren, Rune L., to Svenska Dataregister A.B. Indicating device for use in optical data sensing equipment. 3,748,483, 7-24-73, Cl. 250-219.00d.

Englund, Gosta Roland; Israelson, Rolf B.G.; Mattsson, Mats E.; Lindelow, Claes-Goran; and Maxe, Sven-Erik, to Svenska Dataregister AB. Counting machine having means to prevent operation when more than one or no keys are depressed in the same key row. 3,77,090, 7-17-73, Cl. 340-365.00r.

Englund, Gosta Roland; Lindelow, Claes-Goran; and La Motte, Bengt Ragnar, to Svenska Dataregister AB. Cash register mechanism. 3,761,694, 9-25-73, Cl. 235-153.00r.

Englund, Robert M., to Sperry Rand Corporation. Search memory. 3,742,460, 6-26-73, Cl. 340-172.500.

Engman, George E., to Midland Capital Corporation. Linear bidirectional scanning system. 3,717,772, 2-20-73, Cl. 250-235.000.

Engrenages et Reducteurs: *See—*
Henriot, Georges, 3,766,796.

Engrenages et Reducteurs (Engrenages Citroen et Etablissements R. Messian reunis): *See—*
Messian, Philippe R., 3,757,902.

Engrenages et Reducteurs (Engrenages Citroen et Etablissements Robert Messian Reunis): *See—*
Henriot, Georges; and Engrenages et Reducteurs (Engrenages Citroen et Etablissements Robert Messian Reunis), 3,738,190.

Engstrom, John Bertil, to Praestmark, T. Fastening device for detachably securing two members together. 3,718,950, 3-6-73, Cl. 24-217.000.

Engstrom, Oscar L. Relief valve mechanism for flushometers. 3,741,518, 6-26-73, Cl. 251-44.000.

Engstrom, William A., to Case, J. I., Company. Mounting and drive for a hydraulic pump on an engine. 3,781,137, 12-25-73, Cl. 417-360.000.

Enishev, Ivan Dimitrov; Kunishev, Nikola Izanov; Haralampiev, Alexandrov; and Petrov, Dimitar Andreev, to NIIZM. Method for electrorefining of nickel. 3,755,113, 8-28-73, Cl. 204-113.000.

Enivar Enterprised, Inc.: *See—*
Florsheim, Leonard S., Jr.; Archer, Harold B.; Lo Presti, Philip F.; and Sutherland, Thurlow J., 3,712,730.

Enjoji, Hideo: *See—*
Nitta, Haruo; Sagawa, Natoshi; Enjoji, Hideo; Niwa, Kakuo; and Kume, Shinji, 3,748,074.

Enk, Albert T.; and Franks, David B., to Midland-Ross Corporation. High temperature furnace and conveyor therefor. 3,713,631, 1-30-73, Cl. 263-6.00a.

Enka Glanzstoff AG: *See—*
Werner, Helmut; and Stapp, Hans, 3,723,238.
Enke, Kurt; and Altmann, Werner, to Daimler-Benz Aktiengesellschaft. Installation for producing a rotary movement of a valve in an internal combustion engine. 3,717,133, 2-20-73, Cl. 123-90.300.
Enke, Kurt, to Daimler-Benz Aktiengesellschaft. Installation for cooling internal combustion engines. 3,727,593, 4-17-73, Cl. 123-41.120.
Enke, Kurt; Bauer, Klaus; and Saftien, Udo, to Daimler-Benz Aktiengesellschaft. Installation for stabilizing the vehicle body against curve-tilting. 3,752,497, 8-14-73, Cl. 280-112.00a.
Enloe, Kenneth M.: *See—*
Eckert, John C.; and Enloe, Kenneth M., 3,774,610.
Enloe, Kenneth M., to Kimberly-Clark Corporation. Prefolded disposable diaper. 3,724,464, 4-3-73, Cl. 128-284.000.
Enneking, Heinrich, to Industrie-Werke Karlsruhe Augsburg Aktiengesellschaft. Apparatus for false-twisting multifilament threads and the like. 3,777,467, 12-11-73, Cl. 57-77.400.
Enneking, Heinz: *See—*
Zeyns, Johannes; and Enneking, Heinz, 3,738,343.
Ennelin, Kullervo: *See—*
Ruohola, Tuomo; Nyberg, Pauli Unto Juhani; Joutsen, Ero Oskari; and Ennelin, Kullervo, 3,747,542.
Ennis, Bobbey G. Aquarium aerator. 3,738,620, 6-12-73, Cl. 261-6.000.
Ennis, Brian, to Asquith, William, Limited. Hydrostatic bearings. 3,711,167, 1-16-72, Cl. 308-500.00r.
Ennis, Brian, to Asquith, William, Limited. Relating to hydrostatic bearings. 3,717,392, 2-20-73, Cl. 308-5.00r.
Ennis, Brian, to Asquith, William, Limited. Hydrostatic bearings. 3,736,818, 6-5-73, Cl. 82-1.00r.
Ennis, Charles W., Jr. Garage construction. 3,739,540, 6-19-73, Cl. 52-175.000.
Ennis, George Thomas. Vehicle spraying and scrubbing device. 3,711,883, 1-23-73, Cl. 15-97.00r.
Ennis, George Thomas. Vehicle wrap-around cleaning apparatus. 3,720,972, 3-20-73, Cl. 15-21.00d.
Ennis, George Thomas. Vehicle wrap-around cleaning apparatus. 3,755,844, 9-4-73, Cl. 15-21.00d.
Ennis, Joseph C.: *See—*
Winn, Ray; and Ennis, Joseph C., 3,775,614.
Ennis, Philip James; and Parry, Philip James, to International Nickel Company, Inc., The. Chromium-nickel alloys and articles and parts made therefrom. 3,758,299, 9-11-73, Cl. 75-171.000.
Ennis, Warren H. Resilient harness device for a walking cast. 3,739,772, 6-19-73, Cl. 128-80.00g.
Enochain, Samuel H., to Unarco Industries, Inc. Pneumatic vehicle lading system mounted on swingable door. 3,747,954, 7-24-73, Cl. 280-179.00r.
Enochian, Samuel H., to Unarco Industries, Inc. Interlocking device for inflatable bulkheads. 3,724,395, 4-3-73, Cl. 105-369.0ba.
Enochian, Samuel H., to Unarco Industries, Inc. Latch operating mechanism for bulkheads. 3,731,962, 5-8-73, Cl. 292-34.000.
Enochian, Samuel H., to Unarco Industries, Inc. Air manifold system for inflatable bulkheads. 3,753,414, 8-21-73, Cl. 114-75.000.
Enody, Emil; Kovacs, Sandor; Gelanyi, Istvan; Kacsmarek, Bela; and Karoly, Bela, to Csavaripari Vallalat. Automatic quick press for manufacturing small-diameter short-shank bolts. 3,755,839, 9-4-73, Cl. 10-13.000.
Enoguchi, Yuji: *See—*
Tanaka, Susumu; Inoue, Masayoshi; Enoguchi, Yuji; Wada, Kenichi; and Fujiwara, Takao, 3,733,124.
Enoki, Hiroshi: *See—*
Wada, Moriyasu; Enoki, Hiroshi; and Kumagai, Katsuya, 3,736,278.
Enoki, Kichiji: *See—*
Yamagami, Kisaburo; Enoki, Kichiji; Tani, Toshiyuki; Akimoto, Shiro; Futakuchi, Jiro; and Tayagaki, Hajimo, 3,769,322.
Enokido, Nobuo: *See—*
Yamaguchi, Kazuo; Tanaka, Toru; Okano, Shigeaki; Enokido, Nobuo; and Sarurvatari, Hidetoshi, 3,766,158.
Enomoto, Akihiro: *See—*
Araya, Kenji; Enomoto, Akihiro; Nishina, Akira; and Yamaguchi, Masahiro, 3,722,490.
Enomoto, Koji, to Nissan Motor Company, Limited. Line pressure regulating system for automatic power transmission. 3,731,558, 5-8-73, Cl. 74-867.000.
Enomoto, Koji, to Nissan Motor Company, Limited. Kickdown unit for an automotive automatic power transmission. 3,774,629, 11-27-73, Cl. 137-116.300.
Enomoto, Koji; Akaishi, Takayuki; and Ishimaru, Wataru, to Nissan Motor Company, Limited. Automatic power transmission control system. 3,776,048, 12-4-73, Cl. 74-866.000.
Enomoto, Satoru; Wada, Hisayuki; Fujioka, Mikio; and Koguro, Masao, to Kureha Kagaku Kogyo Kabushiki Kaisha. Water resisting and anticorrosive paint vehicle. 3,714,020, 1-30-73, Cl. 208-14.000.
Enomoto, Satoru; Wada, Hisayuki; Fujioka, Mikio; and Koguro, Masao, to Kureha Kagaku Kogyo Kabushiki Kaisha. Oxidative curing resin composition consisting essentially of an oil-modified alkyl resin and a naphtheidic hydrocarbon compound. 3,726,818, 4-10-73 Cl. 260-22.0cq.
Enomoto, Satoru; Wada, Hisayuki; Fujioka, Mikio; and Koguro, Masao, to Kureha Kagaku Kogyo Kabushiki Kaisha. Hardener composition for urethane resin. 3,770,645, 11-6-73, Cl. 252-182.000.
Enomoto, Takamichi: *See—*
Tanaka, Tetsuo; Kojima, Akio; and Enomoto, Takamichi, 3,764,314.
Enomoto, Takamiti; Kawanishi, Toshiyuki; Yasumori, Akiyoshi; Shiga, Tsuyoshi; Hirosawa, Yujiro; and Kubota, Tomio, to Ricoh Co., Ltd. Photosensitive material comprising benzopyrylum dye sensitizer. 3,775,130, 11-27-73, Cl. 96-90.00r.
Enosawa, Kazuo: *See—*
Ohsawa, Hiroji; Enosawa, Kazuo; Hayami, Heijiro; and Sasabe, Kaoru, 3,752,912.
Enrich: *See—*
Horine, David A.; and Clement, Carl J., 3,714,723.
Enrich, mesne: *See—*
Horine, David A., 3,735,502.
Enright, Dennis J.; Kahabka, Richard D.; and Miller, Donald F., to Minnesota Mining and Manufacturing Company. Wire-splicing apparatus and method. 3,708,779, 1-2-73, Cl. 339-99.00r.
Enright, Dennis J.; Kahabka, Richard D.; and Miller, Donald F., to Minnesota Mining and Manufacturing Company. Wire splice assembly station. 3,713,214, 1-30-73, Cl. 29-628.000.
Enright, Dennis J. Chain snubbing and pole-gripping device for pole-raising apparatus. 3,734,463, 5-22-73, Cl. 254-30.000.
Enright, James H.: *See—*
Karls, Robert F.; and Enright, James H., 3,772,984.
Enrique, Bernal G., to Honeywell Inc. Optical polarization. 3,753,608, 8-21-73, Cl. 350-150.000.
Enshu Limited: *See—*
Sakamoto, Toemon, 3,732,900.
Ensign-Bickford Company, The: *See—*
Zilcosky, Hector Joseph, 3,724,382.
Zilcosky, Hector Joseph, 3,761,329.
Enskat, Albert G.: *See—*
Watson, Donald W.; and Enskat, Albert G., 3,776,544.
Enskat, Albert G., to Xerox Corporation. High speed labeling system. 3,751,324, 8-7-73, Cl. 156-521.000.
Ensley, Michael W.: *See—*
Thompson, Darrell R.; and Ensley, Michael W., 3,752,782.
Ensley, Rufus N.: *See—*
Cooper, Jerry W.; Williams, Leland E.; Haley, John S.; and Ensley, Rufus N., 3,721,477.
Ensley, Rufus Neal: *See—*
Duckett, John C.; Ensley, Rufus Neal; Williams, Leland E.; and Logan, Arthur D., 3,739,675.
Ensmann, Burt; and Nielsen, Edwin, to Ideal Toy Corporation. Spring wind-up mechanism. 3,735,526, 5-29-73, Cl. 46-202.000.
Ensmann, Burt W.; and Davis, Robert E., to Ideal Toy Corporation. Clamoring doll. 3,728,816, 4-24-73, Cl. 46-116.000.
Enso-Gutzeit Osakeyhtio: *See—*
Paakkinen, Ilmari, 3,729,215.
Ensor, Gordon Roy, to Monsanto Chemicals Limited. Monoalkylation of alkylidene bis(phenol). 3,711,559, 1-16-73, Cl. 260-619.00a.
Ensslin, Fritz; Frenzel, Gerhard; and Lobermann, Erich, to Preussag Aktiengesellschaft-Metall. Disposal of plastics. 3,776,147, 12-4-73, Cl. 410-7.00a.
Enterante, Frank V. Mixing valve. 3,770,017, 11-6-73, Cl. 137-625.170.
Enterprise de Recherches et d'Activites Petrolieres: *See—*
Liautaud, Jean, 3,716,107.
Enterprise Machine and Development Corporation: *See—*
Hoffsommer, Walter A.; and Bartnicki, Wieslaw J., 3,743,202.
Enterprise Wire Products, Inc.: *See—*
Jensen, Jens S.; Hamrock, Edward M.; and Lookabaugh, Clair E., 3,750,894.
Enterprises International, Inc.: *See—*
Booth, Bruce F.; Veilleux, Pierre; and Hall, Richard William, 3,776,378.
Hall, Richard W.; and Young, James W., 3,767,065.
Enters, Edward W.; Detjen, Edgar W.; and Rubin, Robert M., to Gilson Bros. Co. Combined lawn mower, lawn vacuum and debris collector. 3,708,968, 1-9-73, Cl. 56-16.500.
Enters, Edward W.; and Price, Warren H., to Gilson Bros. Co. Load limiter for self-energizing drive. 3,720,112, 3-13-73, Cl. 74-196.000.
Enters, Edward W., to Gilson Bros. Co. Impeller. 3,736,674, 6-5-73, Cl. 37-43.00r.
Enters, Edward W.; Price, Warren H.; and Hochwitz, Lynn E., to Gilson Bros. Co. Snow-handling implement with belt-driven impeller and coacting labyrinthian baffle. 3,774,322, 11-27-73, Cl. 37-43.00r.
Entex Industries, Inc.: *See—*
Clowes, Garth A.; and Nagaoka, Masamitsu, 3,742,341.
Maeda, Taketora, 3,743,291.



Enthone, Incorporated: *See—*
Brindisi, Frank A., Jr., 3,717,520.
Fadgen, Earl Joseph, Jr.; and Saubestre, Edward Basil, 3,767,583.
Kampe, Marcis M., 3,709,799.
Saubestre, Edward B.; and Durney, Lawrence J., 3,725,108.
Saubestre, Edward B.; and Durney, Lawrence J., 3,741,905.
Stone, Frank E.; and Saubestre, Edward B., 3,736,156.
Szilagy, Paul J., 3,751,348.
Szilagyi, Paul J.; and Hajdu, Juan, 3,745,099.
Wieczorek, Theophil J., 3,715,292.
Entin, Leonard P.: *See—*
Ross, Thorvald S., Jr.; and Entin, Leonard P., 3,779,157.
Entine, Gerald; Cocks, Franklin H.; and Mitchell, Carl Rice, to Tyco Laboratories, Inc. Cadmium telluride devices with non-diffusing contacts. 3,721,938, 3-20-73, Cl. 338-15.000.
Entler, Richard W.: *See—*
Russell, Robert C.; and Entler, Richard W., 3,734,765.
Entner, Bernard J.: *See—*
Fischer, Leonard G.; Sherain, Monroe B.; Cornacchio, Nancy A.; Entner, Bernard J.; and Pettinato, Ferdinand E., 3,723,137.
Entoleter, Inc.: *See—*
Reynolds, Donald R., 3,749,322.
Reynolds, Donald R.; Young, James L.; and Jones, Robert N., 3,756,519.
Young, James L.; and Conley, Kurt H., 3,755,870.
Entrekin, David A., to Cutler-Hammer, Inc., mesne. Interface system having photo responsive matrix. 3,727,189, 4-10-73, Cl. 340-166.00r.
Entremont, John C. D.; and Taylor, Charles R., to Armco Steel Corporation. Process for making stainless steel. 3,728,101, 4-17-73, Cl. 75-11.000.
Entrepose: *See—*
Tamboise, Maurice Paul Jean Joseph, 3,759,006.
Entreprise de Recherches et d'Activites Petrolieres (Elf): *See—*
de LaJarte, Guy; and de Saint Palais, Jacques, 3,760,877.
Laffont, Maurice, 3,756,179.
Laffont, Maurice; and Houot, Jean-Jacques, 3,768,268.
Soulie, Guy; and Lozach, Gerard, 3,764,176.
Entreprise de Recherches et d'Activites Petrolieres Elf: *See—*
Marchal, Philippe Albert Hippolyte; Simonnet, Jacques Louis Paul; Mordchelles Regnier, Georges; and Verrien, Jean Prudent Fernand Rene, 3,748,826.
Entreprise d'Equipements Mecaniques et Hydrauliques E.M.H.: *See—*
Lecomte, Claude M., 3,774,253.
Entreprise Generale de Chauffage Industriel Pillard Freres et Cie: *See—*
Pillard, Marcel T., 3,775,038.
Pillard, Marcel T., 3,775,039.
Entringer, Michel, to Societe Wendel Sidelor S.A. Heat treatment of hot rolled steel wire rods. 3,720,544, 3-13-73, Cl. 148-14.000.
Entron, Inc.: *See—*
Ross, Joseph I.; and Sears, Kay G. (said Sears assor. to said), 3,760,130.
Entryown Patents Ltd.: *See—*
Parsons, Rodney, 3,777,674.
Entschel, Roland; and Kaeppeli, Viktor, to Sandoz Ltd. Heterocyclic immonium group containing azo dyes. 3,763,140, 10-2-73, Cl. 260-158.000.
Entwisle, John Hubert: *See—*
Colchester, John Edward; and Entwisle, John Hubert, 3,717,646.
Entwisle, John Hubert; and Griffiths, Robert William, said Entwisle assor. to Imperial Chemical Industries Limited. Process for the recovery of mercury from waste brine from mercury cells. 3,718,457, 2-27-73, Cl. 75-108.000.
Entwisle, John Hubert; Scrutton, Anthony; and Moss, Keith Graham, to Imperial Chemical Industries, Limited. Stripping of coated titanium electrodes. 3,761,312, 9-25-73, Cl. 134-2.000.
Entwisle, John Hubert; Scrutton, Anthony; and Moss, Keith Graham, to Imperial Chemical Industries, Limited. Stripping of coated titanium electrodes. 3,761,313, 9-25-73, Cl. 134-3.000.
Entwistle, Ian D.; Williams, Peter J.; and Devlin, Barry R. J., to Shell Oil Company. Herbicidal 1H-indazole-4,7-diones and benzimidazole-4,7-diones. 3,780,055, 12-18-73, Cl. 260-309.000.
Entwistle, Robert J., to United States of America, Navy. Forward observer trainer. 3,742,618, 7-3-73, Cl. 35-25.000.
Entz, Alexis Charles: *See—*
Hammer, Alfred Paul; Entz, Alexis Charles; and Levaire, Claude, 3,715,451.
Entzminger, John N., Jr.: *See—*
Bush, Henry J.; Entzminger, John N., Jr.; and Richard, Walter R., 3,736,587.
Envir-O-Tab, Inc.: *See—*
Spraker, Dick; and Baker, Paul E., 3,768,693.
Envirco Corporation: *See—*
Benson, Harvey S., Jr., 3,724,181.
Enviro-Acoustic R & D Inc.: *See—*
Hoffman, Edward H.; and Kennedy, Clifford F., 3,779,340.
Enviro-Labs, Inc.: *See—*
Ladine, Duane A.; and McCullough, Lester E., 3,745,312.
Environeering, Inc.: *See—*
Hassett, James W.; and Ihde, William M., 3,712,412.
McIlvaine, Robert L., 3,738,624.
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Skala, George F., 3,756,720.
Environment/One Corporation: *See—*
Coffey, Peter E., 3,711,248.
Kawahata, Masayuki, 3,719,573.
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Peters, Philip H., Jr., 3,710,062.
Peters, Philip H., Jr.; and Matrone, John L., 3,740,513.
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Peters, Philip H., Jr., 3,777,094.
Prehmus, George F.; and Verch, Richard R., 3,775,551.
Rich, Theodore A., 3,715,809.
Rich, Theodore A., 3,738,751.
Environmental Control Products, Inc.: *See—*
Clements, Richard F., 3,708,078.
Environmental Control Systems, Inc.: *See—*
Nelson, Charles E., 3,712,286.
Environmental General Corporation, mesne: *See—*
Matthews, Frank E., 3,709,210.
Environmental Industries, Inc.: *See—*
Morton, Bernard W.; and Morton, Willard E., 3,724,180.
Environmental Metrology Corporation: *See—*
Brown, Verne R., 3,780,311.
Environmental Pollution Research Corporation: *See—*
Ippolito, Amos D.; and Ma, William Y. L. (said Ippolito assor to), 3,734,340.
Ippolito, Amos D.; and Ma, William Y. L., 3,765,143.
Ippolito, Amos D.; and Ma, William Y. L., 3,765,147.
Ippolito, Amos D.; and Ma, William Y. L., 3,765,148.
Environmental Research & Technology, Inc.: *See—*
Blau, Henry H., Jr., 3,723,731.
Environmental Structures, Inc., mesne: *See—*
Pierson, Robert M., 3,762,108.
Environmental Technology Corporation: *See—*
Halloran, John J., 3,744,216.
Environmental Technology, Inc.: *See—*
Hansen, Lars J., 3,745,207.
Environmetrics Inc.: *See—*
Shaw, Manuel; and Perkins, Wayne E., 3,755,125.
Environs Development Inc.: *See—*
Boatright, Donald E., 3,774,840.
Envirotech Corporation: *See—*
Davis, Steven S.; and Durrant, Morris F., 3,726,510.
Davis, Steven S., 3,760,945.
Davis, Steven S., 3,762,561.
Davis, Stevens S.; and Cottam, Spencer, 3,770,131.
Emmert, Robert C., Jr.; and Dahlstrom, Donald A., 3,744,543.
Gelfand, Peter C., 3,719,031.
Hunt, William Allen, 3,712,385.
McCay, Frank V., Jr.; and Knopp, Rolf A., 3,756,095.
Richter, Paul D.; Janchus, Robert M.; and Shen, Shih C., 3,776,386.
Rinecker, Ulf F., 3,722,582.
Envirotech Corporation, mesne: *See—*
Drew, John; and Marks, Robert Elliott, 3,753,336.
Drew, John; and Marks, Robert Elliott, 3,763,020.
Gallaer, Charles A., 3,733,785.
Gallaer, Charles A., 3,745,752.
Gelfand, Peter C., 3,745,749.
Hoon, Harry E., Jr., 3,758,087.
Envopak Limited: *See—*
Adamson, Donald; and Arthur, Frank Henry, 3,724,890.
Enyeart, Raymond J.: *See—*
Leonard, George Hamlin; and Enyeart, Raymond J., 3,730,424.
Leonard, George Hamlin; and Enyeart, Raymond J., 3,752,391.
Enz, John H. F.: *See—*
Trier, James J.; and Enz, John H. F., 3,734,017.
Enz, Ulrich Ernst: *See—*
Verhulst, Antonius Gerardus Hendrikus; Holtwijk, Theodoor; Lems, Willem; and Enz, Ulrich Ernst, 3,751,663.
Enzetti, Eugenio. False fingernail classifier. 3,722,104, 3-27-73, Cl. 33-174.00d.
Enzmann, Franz H.: *See—*
Folkers, Karl; and Enzmann, Franz H., 3,746,697.
Epel, Joseph N.; and Hugh, Michael. Thermosetting composition. 3,742,086, 6-26-73, Cl. 260-836.000.
Ephraim, Max, Jr.; and Koci, Ludvik F., to General Motors Corporation. Engine crankcase ventilation. 3,754,538, 8-28-73, Cl. 123-41.860.
Epic Metals Corporation: *See—*
Landis, Donald H.; and Pfaff, Richard C., 3,713,261.
Epis, James J., to GTE Sylvania Incorporated. Broadband cup-dipole and cup-turnstile antennas. 3,740,754, 6-19-73, Cl. 343-797.000.
Epis, James J., to GTE Sylvania Incorporated. Broadband antenna polarizer. 3,754,271, 8-21-73, Cl. 343-756.000.

Epley, John M. Implantable piezoelectric hearing aid. 3,712,962, 1-23-73, Cl. 179-107.00r.

Epoch Company, Ltd.: *See—*
Maeda, Taketora, 3,730,525.
Maeda, Taketora, 3,756,598.
Matsumoto, Teruo, 3,735,500.
Matsumoto, Teruo, 3,758,961.
Matsumoto, Teruo, 3,760,511.
Matsumoto, Teruo, 3,777,411.
Matsumoto, Teruo, 3,781,010.

Epperson, Charles N.; and Human, Roy A. Grill-heater for restaurant table. 3,745,303, 7-10-73, Cl. 219-218.000.

Eppich, Robert E., to General Motors Corporation. Method of producing graphitic aluminum castings. 3,758,298, 9-11-73, Cl. 75-138.000.

Epple, Donald G., to Nalco Chemical Company. Method for producing acrylamide from acrylonitrile. 3,755,100, 8-28-73, Cl. 204-74.000.

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Eppley, Dewey W.: *See—*
Howard, Donald W.; Eppley, Dewey W.; and Steininger, Hugh D., 3,710,385.

Eppstein, Anthony D.: *See—*
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Eprad Incorporated: *See—*
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Epsco Incorporated: *See—*
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Epshtein, Yakov Veniaminovich: *See—*
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Epstein, Aaron M.: *See—*
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Epstein, David J.; and Bullock, David C., to Massachusetts Institute of Technology. Single and polycrystalline semiconductors. 3,714,633, 1-30-73, Cl. 340-166.00r.

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Mallozzi, Philip J.; Epstein, Harold M.; Walters, Craig T.; Applebaum, David C.; and Gallagher, William J., 3,778,585.

Epstein, Harry, to Kastar, Inc. Electrician's combination tool. 3,733,627, 5-22-73, Cl. 7-5.400.

Epstein, Harry, to Kastar, Inc. Convertible plier-type tool. 3,762,019, 10-2-73, Cl. 29-229.000.

Epstein, Howard C., to Becton, Dickinson Electronics Company. Compression accelerometer utilizing a lithium niobate piezoelectric crystal. 3,714,476, 1-30-73, Cl. 310-9.500.

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Epstein, Martin: *See—*
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Epstein, Martin F.: *See—*
Parliment, Thomas H.; Epstein, Martin F.; Clinton, William P.; Scarpellino, Richard; and Soukup, Robert J., 3,767,425.

Epstein, Martin F., to General Foods Corporation. Flavor compositions and processes. 3,754,936, 8-28-73, Cl. 99-140.00r.

Epstein, Marvin A.: *See—*
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Epstein, Maurice J.: *See—*
Jacobson, Allen G.; and Epstein, Maurice J., 3,743,763.
Kritz, Albert H.; and Epstein, Maurice J., 3,761,880.

Epstein, Michael M.; and Cooper, Charles W., to Standard Pressed Steel Co. Fastener improvement. 3,737,355, 6-5-73, Cl. 156-293.000.

Epstein, Norman. False eyelash applicator. 3,722,519, 3-27-73, Cl. 132-88.700.

Epstein, Paul: *See—*
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Epstein, Paul; Wernikoff, Robert E.; Cunningham, James E.; and Rosen, George, to Electronic Image Systems Corporation. Run length coding technique. 3,748,379, 7-24-73, Cl. 178-6.000.

Epstein, Peter F.: *See—*
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Epstein, Peter F.; Caffrey, Joseph R.; and Yu, Pyung Kyung, to Chemagro Corporation. Quaternary thenyl ammonium salts. 3,748,343, 7-24-73, Cl. 260-332.500.

Epstein, Philip L., to Quindar Electronics, Inc. Voltage controlled crystal oscillator. 3,740,681, 6-19-73, Cl. 331-177.00r.

Epstein, Philip L., to Quindar Electronics, Inc. Crystal controlled variable frequency oscillator. 3,760,290, 9-18-73, Cl. 331-40.000.

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Epsztein, Bernard: *See—*
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Guenard, Pierre; and Epsztein, Bernard, 3,708,764.

Epsztein, Bernard, to Thomson-CSF. High frequency electronic devices. 3,750,043, 7-31-73, Cl. 330-43.000.

Epting, Roy W.: *See—*
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Epton, Roger; McLaren, John Vincent; and Thomas, Trevor Henry, to Koch-Light Laboratories, Limited. Bonding of enzymes to polymeric materials. 3,761,357, 9-25-73, Cl. 195-63.000.

Equipment Systems, Inc.: *See—*
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Eraco Engineering Corporation: *See—*
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Eranosian, John. Pendulum actuated electrical switch structure. 3,761,653, 9-25-73, Cl. 200-61.510.

Eraser Company, Inc., The: *See—*
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Erasmus, Albert, to Bengkiser-Knapsack GmbH. Thinner for drilling fluids. 3,720,610, 3-13-73, Cl. 252-8.50c.

Erazier, George E., to Carborundum Company, The. Electrode nipple drilling machine. 3,761,191, 9-25-73, Cl. 408-13.000.

Erb, Edgar; Habiger, Walter; Kramer, Willi; Pfeil, Wolfgang; and Weigele, Reinhold, to Fortuna-Werke Maschinenfabrik Aktiengesellschaft. Offset printing machine. 3,715,979, 2-13-73, Cl. 101-144.000.

Erb, Edward R.; and Maass, Richard L., to GAF Corporation. Embossed foamed sheet materials. 3,741,851, 6-26-73, Cl. 161-2.000.

Erb, Edward Renninger; and Maass, Richard Leroy, to GAF Corporation. Surface gloss of vinyl coatings. 3,773,545, 11-20-73, Cl. 117-64.00r.

Erb, Fred: *See—*
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Erb, George H., to American Velcro, Inc. Hooked surface of a hook and loop type fastener. 3,708,382, 1-2-73, Cl. 161-48.000.

Erb, George H., to American Velcro Inc. Method for the manufacture of a separable fastener. 3,715,415, 2-6-73, Cl. 264-25.000.

Erb, George H., to American Velcro, Inc. Method of severing pile loops in the preparation of separable fasteners. 3,732,604, 5-15-73, Cl. 28-76.00p.





Erb, George H., to American Velcro, Inc. Apparatus for making flexible strips of material having a pile of hook-shaped elements. 3,735,468, 5-29-73, Cl. 29-207.50r.

Erb, George H., to American Velcro, Inc. Hook fastener element and method of manufacture. 3,781,398, 12-25-73, Cl. 264-146.000.

Erb, Gilbert E.: *See—*
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Erb, Roger L.; and Wesdock, James F., to Brockway Glass Company, Inc. Squeeze tester for glass containers. 3,765,231, 10-16-73, Cl. 73-94.000.

Erb, Theodor: *See—*
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Erb, Wick D. Walking beam conveyor and eccentric construction therefor. 3,776,351, 12-4-73, Cl. 198-219.000.

Erb, William B., to Erb Plastics, Inc. Shock absorbing safety helmet. 3,758,889, 9-18-73, Cl. 2-3.00b.

Erba, Carlo, S.p.A.: *See—*
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Erben, Ernst: *See—*
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Erbert, Virgil, to Rolamite, Incorporated. Meter movements. 3,777,264, 12-4-73, Cl. 324-146.000.

Erbstein, Robert Stephen, to Leesona Corporation. Digitalized speed sensitive moving strand detection apparatus. 3,772,524, 11-13-73, Cl. 250-219.00s.

Erck, Karl, to Volkswagenwerk Aktiengesellschaft. Connection of a window pane to a frame. 3,728,832, 4-24-73, Cl. 52-400.000.

Erco Envirotech Ltd.: *See—*
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Erco Envirotech Ltd., mesne: *See—*
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Erco Industries Limited: *See—*
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Erco Lakemedel AB: *See—*
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Ercole Marelli & C. S.p.A.: *See—*
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Ercoli, Alberto; Gardi, Rinaldo; and Vitali, Romano, to Warner-Lambert Pharmaceutical Company. Process for the production of 17-monoesters of 17α-21-dihydroxy-steroids and products thereof. 3,755,302, 8-28-73, Cl. 260-239.550.

Ercoli, Alberto; Gardi, Rinaldo; and Vitali, Romano, to Warner-Lambert Company. Disteroidyl-ethers. 3,766,223, 10-16-73, Cl. 260-397.100.

Ercoli, Alberto; and Gardi, Rinaldo, to Warner-Lambert Company. 17-Butyrate, 21-ester derivatives of 6α,9α-difluoroprednisolone, compositions and use. 3,780,177, 12-18-73, Cl. 424-243.000.

E.R.D. Corporation: *See—*
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Erdell, John Buckland. Process for producing selected color photographs. 3,709,686, 1-9-73, Cl. 96-2.000.

Erdely, Alexander; and Capps, David B., to Parke, Davis & Company. 3-(5-Chloro-2-pyridyl)rhodanine and 3-(5-chloro-2-pyridyl)-5-(lower alkyl) rhodanines. 3,761,485, 9-25-73, Cl. 260-294.80d.

Erdely, Ladislas, to Agence Nationale de Valorisation de la Recherche (ANVAR). Apparatus for recording swell frequency and propagation direction of waves. 3,765,236, 10-16-73, Cl. 73-170.00a.

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Erdelyi, Lujza: *See—*
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Erdman, John G., to Phillips Petroleum Company. Detection of reducing conditions in a formation as in oil prospecting. 3,719,453, 3-6-73, Cl. 23-230.0ep.

Erdman, Leon Paul, to Deere & Company. Transmission control mechanism. 3,763,952, 10-9-73, Cl. 180-65.00r.

Erdman, William Charles; and Miller, Paul, to Bell Telephone Laboratories, Incorporated. Removal of projections on epitaxial layers. 3,718,514, 2-27-73, Cl. 156-17.000.

Erdman, William Charles; and Schmidt, Paul Felix, to Bell Telephone Laboratories, Incorporated. Anisothropic etching of silicon and germanium. 3,738,881, 6-12-73, Cl. 156-17.000.

Erdmann, David P., to Honeywell Inc. Magnetic line sensor. 3,747,036, 7-17-73, Cl. 336-84.000.

Erdmann, Dietrich: *See—*
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Erdmann, Hans; and Miller, Franz Friedrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Complex trinuclear metal salts. 3,714,211, 1-30-73, Cl. 260-438.500.

Erdmann, Hans, to Waldes Kohinoor, Inc. Hand-operated plier-like tools. 3,756,064, 9-4-73, Cl. 72-410.000.

Erdmann, M. Otto: *See—*
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Erdolchemie Gesellschaft mit beschrankter Haftung: *See—*
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E.R.E. Laboratory, Inc.: *See—*
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Erekson, Arthur B., to Borden Inc. Method for making absorbent pads. 3,745,081, 7-10-73, Cl. 156-264.000.

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Erevanskoe otdelenie vsesojuz-nogo proektnoissledovatelsko-go proekton-konstruktorskogo i-tekhnologicheskogo institutakabelnoi promyshlennosti: *See—*
Markosian, Marlen Mamukovich; Shermazanian, Yakov Tigranovich; Kazanxhian, Grigory Paravonovich; Avakian, Jury Vardkesovich; and Vartanian, Albert Vartanovich, 3,713,727.

Erfeling, Arthur, to Lohmann-Apparatebau Kommanditgesellschaft. Floor grate in cages or batteries of cages for keeping poultry. 3,760,769, 9-25-73, Cl. 119-78.000.

ERG Industrial Corporation Limited: *See—*
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Ergenc, Mehmet Sahabettin; and Hartmann, Fortunat, to Sulzer Brothers Limited. Process and apparatus for abstracting heat from a flow of gas. 3,745,050, 7-10-73, Cl. 165-1.000.

Ergene, Mehmet T., to Stanley Works, The. Method for forming foamed concrete structures. 3,758,319, 9-11-73, Cl. 106-88.000.

Erhard, Albert E.: *See—*
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Erhard, Werner: *See—*
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Erich, Malcolm: *See—*
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Erickson, Albin; Richards, William R.; and Deschene, Clement F., to Textron Inc. Speed controlled belt transmission. 3,727,478, 4-17-73, Cl. 74-230.17e.

Erickson, Albin R., to Textron, Inc. Front suspension for snowmobiles. 3,724,578, 4-3-73, Cl. 180-5.00r.

Erickson, Allen M. Frustrated total internal reflection laser Q-switch. 3,711,791, 1-16-73, Cl. 331-94.50q.

Erickson, Alve J.; and Mix, Thomas W., to Merix Corporation. Vapor-liquid contacting. 3,722,839, 3-27-73, Cl. 261-111.000.

Erickson, Arlen J.; and Tall, Leonard H., to CX Processing Laboratories, Inc. Processor's method and apparatus for packing photographs. 3,733,770, 5-22-73, Cl. 53-29.000.

Erickson, Arlen J.; and Carlstedt, Paul A., to CX Processing Laboratories, Inc. Selective article director multiposition gate. 3,776,546, 12-4-73, Cl. 271-64.000.

Erickson, Billy Arthur, to Procter & Gamble Company, The. Clear cooking and salad oils having hypocholesterolemic properties. 3,751,569, 8-7-73, Cl. 424-173.000.

Erickson, Clifford W.: *See*—
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Erickson, Clifford W., to Honeywell Inc. Omnidirectional ultraviolet radiation detector. 3,771,005, 11-6-73, Cl. 313-101.000.

Erickson, Cornelius James: *See*—
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Erickson, Dennis E., to Clark Equipment Company. Combined battery case, counterweight and overhead guard. 3,721,353, 3-20-73, Cl. 214-38.0ca.

Erickson, Dennis E., to Clark Equipment Company. Lift truck. 3,762,761, 10-2-73, Cl. 296-107.000.

Erickson, Donald G.: *See*—
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Erickson, Donald Henry: *See*—
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Erickson, Donald P.; and Overway, Roy E., to Sealed Power Corporation. Method and machine for making a slip latch in a piston ring expander. 3,727,281, 4-17-73, Cl. 29-200.00b.

Erickson, Donald V.; and Palusky, Eugene L., to United States Steel Corporation. Bentonite binder composition. 3,779,782, 12-18-73, Cl. 106-72.000.

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Erickson, Fred W., to Litton Systems, Inc. Linearity correction for magnetically deflectable cathode ray tubes. 3,714,501, 1-30-73, Cl. 315-24.000.

Erickson, Fred William, to Litton Systems, Inc. Differential magnetic deflection amplifier. 3,778,671, 12-11-73, Cl. 315-27.0td.

Erickson, Gastav F., to U.M.C. Industries, Inc. Money-handling device. 3,767,080, 10-23-73, Cl. 221-13.009.

Erickson, George F.; and Stratton, Thomas F., to United States of America, Atomic Energy Commission. Electrodes for obtaining uniform discharges in electrically pumped gas lasers. 3,745,481, 7-10-73, Cl. 331-94.500.

Erickson, Gerald L.; Jaszkowiak, David A.; and Kaveckis, Joseph E., to United States of America, Atomic Energy Commission. Sensing element response time measuring system. 3,759,083, 9-18-73, Cl. 73-1.00f.

Erickson, Gordon W., to Atwood Vacuum Machine Company. Two-way ventilator. 3,763,760, 10-9-73, Cl. 98-2.000.

Erickson, Harold E.: *See*—
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Brookhyser, Byron B.; Erickson, Harold E.; and Perry, Glenn R., 3,725,183.
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Erickson, Henry: *See*—
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Erickson, John S.; Curran, Patrick M.; and Owczarski, William A., to United Aircraft Corporation. Mold for casting single crystal articles. 3,724,531, 4-3-73, Cl. 164-361.000.

Erickson, John W., to Erickson Electrical Equipment Co. High-current switch with contact pressure booster. 3,708,643, 1-2-73, Cl. 200-170.00a.

Erickson, John W.; and Brown, Francis Barton, to Kobe, Inc. Free turbine pump. 3,758,238, 9-11-73, Cl. 417-408.000.

Erickson, John W., to Kobe, Inc. Pitot tube for pitot pump. 3,776,658, 12-4-73, Cl. 415-88.000.

Erickson, Kent E., to Keuffel & Esser Company. Electro-optical incremental motion and position indicator. 3,768,911, 10-30-73, Cl. 356-169.000.

Erickson, Kent E., to Keuffel & Esser Company. Electro-optic displacement device. 3,778,158, 12-11-73, Cl. 356-28.000.

Erickson, Lloyd A., to Illinois Tool Works Inc. Blue lateral and purity magnet structure. 3,742,406, 6-26-73, Cl. 335-212.000.

Erickson, Lloyd A., to Illinois Tool Works Inc. Key ejector lock. 3,748,881, 7-31-73, Cl. 70-388.000.

Erickson, Raymond Curry, to Squibb, E. R., & Sons, Inc. α-Ureidocyclohexadienylalkylene-penicillins. 3,720,664, 3-13-73, Cl. 260-239.100.

Erickson, Raymond Curry, to Squibb, E. R., & Sons, Inc. Alpha-urcidocyclohexadienylalkylene carboxylic acids. 3,780,088, 12-18-73, Cl. 260-468.00j.

Erickson, Raymond Kenneth: *See*—
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Erickson, Richard L.: *See*—
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Erickson, Robert W.; and Lindell, John F., to Koehring Company. Vehicle for underground installation of flexible utility lines and the like. 3,747,357, 7-24-73, Cl. 61-72.600.

Erickson, Rodney R.: *See*—
Cryder, John R.; Erickson, Rodney R.; Lohbauer, Kenneth R.; and Scheidt, James E., 3,771,310.

Erickson, Rodney R.; and Matthews, Ralph W., to Caterpillar Tractor Company. Null and gain adjustment mechanism and procedure for hydrostatic control systems. 3,772,964, 11-20-73, Cl. 91-411.000.

Erickson, Stephen C.; and Bennett, Foster C., to Dow Chemical Company, The. Transfer line and valve assembly combination for handling molten liquids. 3,726,305, 4-10-73, Cl. 137-341.000.

Erickson Tool Company: *See*—
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Almegard, Svante G.; and Ericson, Harry A. H., 3,734,108.

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Ericsson, Nils Olof: *See*—
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Erie Technological Products, Inc.: *See*—
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Eriksson, Olle: *See*—
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Erk, Amir; Tessmann, Ottomar; and Schirrich, Klaus, to Fischer & Kreck KG. Bag. 3,734,395, 5-22-73, Cl. 229-58.000.

Erkelens, Hendrik J.: *See*—
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Tramontano, Frank, 3,732,372.

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Erma, Eero Antero. Elastic pressure fluid driven motor. 3,740,960, 6-26-73, Cl. 60-542.000.

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Ernest, Michael Vance: *See*—
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Ernisse, Paul J.; and Poweska, Joseph V., to Eastman Kodak Company. Battery receiving mechanism for camera. 3,754,453, 8-28-73, Cl. 95-11.000.

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Ernst, Max. Outboard driving device for toy and model ships. 3,714,919, 2-6-73, Cl. 115-17.000.

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Kusenberg, Eugen; Hubler, Ernst; Aus der Au, Hans-Rudolf; and Ernst, Otto, 3,777,000.

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Ernst, Richard J., to Xerox Corporation. Label stacking apparatus. 3,739,667, 6-19-73, Cl. 83-92.000.

Ernst, Richard R., to Varian Associates. Noise excited resonance apparatus. 3,711,764, 1-16-73, Cl. 324-.50r.

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Ernst, Robert R., to Sybron Corporation. Method and apparatus for continuous ethylene oxide sterilization. 3,761,224, 9-25-73, Cl. 21-58.000.

Ernst, Theodor: *See*—
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Ernstoff, Michael N.; Fehr, Eric R.; Hoffman, William C.; and Winner, Richard N., to Hughes Aircraft Company. Field sequential color television systems. 3,781,465, 12-25-73, Cl. 178-5.4bd.

Erny, Daniel Richard; and Brandle, Merrill, to Van Dyk Research Corporation. Scanning apparatus. 3,753,615, 8-21-73, Cl. 355-8.000.

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Erpenbach, Heinz: *See*—

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Errani, Deo; and Bucci, Roberto, to S.p.A. C.I.S.A.-Costruzioni Italiane Serrature Affini. Padlock with laminated body and removable cylinder. 3,750,432, 8-7-73, Cl. 70-38.00r.
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Errede, Louis A.: *See—*
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Errede, Louis A., to Minnesota Mining and Manufacturing Company. Toxicant compositions for aquatic use. 3,761,238, 9-25-73, Cl. 71-67.000.
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Ersek, Robert A., to University of Minnesota, The Regents of the. Method of repairing bone fractures with expanded metal. 3,710,789, 1-16-73, Cl. 128-92.0bc.
Ersilio, Levati, to Mattel, S.p.A. Chassis for a miniature toy vehicle. 3,720,017, 3-13-73, Cl. 46-221.000.
Erskine, Donald O.: *See—*
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Erskine, James Brian, to Imperial Chemical Industries Limited. Silencer. 3,722,620, 3-27-73, Cl. 181-57.000.
Ersson, Ronnie; and Sander, Nils Borje Lennart. Clutch-release linkage automatic axially-acting slack adjuster. 3,756,361, 9-4-73, Cl. 192-111.00a.
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Erteszek, Olga, to Olga Company. Underwire bra having self-adjusting fit. 3,722,513, 3-27-73, Cl. 128-465.000.
Ertl, Stefan; and Oehme, Friedrich, to Zellweger, Ltd. Process and apparatus for measuring and controlling the concentration of chemical compounds in solutions. 3,717,435, 2-20-73, Cl. 23-230.00r.
Ertsgaard, Byron L.; and Hunter, Edwin J., to Toro Manufacturing Corporation. Agricultural sprinkler head. 3,727,842, 4-17-73, Cl. 239-232.000.
Ertsgaard, Edwin P., to United States of America, Navy. Gaseous optical filter. 3,744,423, 7-10-73, Cl. 102-70.20p.
Eruchart, Robert: *See—*
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Erwin, Curtis L., Jr. Fuel measuring system for vehicles. 3,750,463, 8-7-73, Cl. 73-113.000.
Erwin, Donald S. Portable grain dryer. 3,726,024, 4-10-73, Cl. 34-236.000.
Erwin, Floyd Dennis, to Hughes Aircraft Company. Modular digital processing equipment. 3,745,532, 7-10-73, Cl. 340-172.500.
Erwin, Floyd Dennis; and Postma, William S., to Hughes Aircraft Company. Digital data storage register modules. 3,745,533, 7-10-73, Cl. 340-172.500.
Erwin, Henry P., Jr., to Precision Field Coil Company. Dual purpose coil for automobile starter motors. 3,708,682, 1-2-73, Cl. 290-37.000.
Erwin, Henry P., Jr. Replacement coil set for automobile starter motors. 3,733,494, 5-15-73, Cl. 290-38.000.
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Erwin, John R.; Staub, Anthony F.; and Staub, Norman T. Fiber reinforced racket. 3,755,037, 8-28-73, Cl. 156-185.000.
Erwin, Rudy, to Aerojet-General Corporation. Carbide-metal composites. 3,725,055, 4-3-73, Cl. 75-134.00f.
Erwood, Charles William. Method of making an electrochemical timing member. 3,734,836, 5-22-73, Cl. 204-15.000.
Esaki, Leo; and Tsu, Raphael, to International Business Machines Corporation. Superlattice harmonic generator and mixer for elctromagnetic waves. 3,746,879, 7-17-73, Cl. 307-88.300.
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Esanu, Andre. Salts of pyridoxine mono-esters. 3,717,636, 2-20-73, Cl. 260-268.00h.
Esashi, Hanjiro; and Kawamata, Katsuyoshi, to Sony Corporation. Reel driving device. 3,739,998, 6-19-73, Cl. 242-68.003.
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Beckman, Milo H., 3,736,655.
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Esbenshade, Aaron M., Jr. Intermittent positive pressure breathing apparatus. 3,769,973, 11-6-73, Cl. 128-145.800.
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Esch, Robert E., to Bendix Corporation, The. Coordinate measuring machine. 3,774,312, 11-27-73, Cl. 33-174.001.
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Eschbach, Robert C.; and Colligan, John B., to Aztec Manufacturing Company. Extrusions for partitions, walls and enclosures. 3,712,005, 1-23-73, Cl. 52-210.000.
Eschbaugh, John T.; and Grahl, Darwin R., to Parker-Hannifin Corporation. Expansion valve. 3,738,573, 6-12-73, Cl. 236-92.00b.
Eschborn, Heinrich Winter; and Schuster, Wilhelm. Method of producing metal particles. 3,761,548, 9-25-73, Cl. 264-8.000.
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Eschenbach, Paul W., to Deering Milliken Research Corporation. Package doffer mechanism. 3,747,421, 7-24-73, Cl. 74-89.000.
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Esclamadon, Christian; Labat, Yves; and Signouret, Jean-Baptiste, to Societe Anonyme dite: Societe Nationale des Petroles d'Aquitaine. Mercapto-methyl sulphides. 3,716,588, 2-13-73, Cl. 260-609.00r.
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Esco Manufacturing Company: *See—*
Butcher, Robert E., 3,767,934.
McClain, James E.; and Darnell, Byron G., 3,739,115.
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Escoa Fintube Corporation: *See—*
Boose, Robert Carl; Weaver, Henry; and Moore, Harry, 3,723,693.
Bosse, Robert Carl, 3,752,228.
Escobedo, Francisco, to Fresco Industries, Inc. Self-adjusting extensible gear train and assemblies containing same. 3,762,272, 10-2-73, Cl. 90-11.580.
Escoffier, Raymond P., to Collins Radio Company. Switching circuit apparatus. 3,781,692, 12-25-73, Cl. 328-138.000.
Escolano, Serrano Antonio; and Bouhou, Andre. Frame for supporting classification and filling drawers. 3,765,540, 10-16-73, Cl. 211-126.000.
Escoli, Uri Z.: *See—*
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Escoubas, Thomas A.: *See—*
Park, Raymond E.; and Escoubas, Thomas A., 3,730,482.
Escudero, Angel Navarro. Safety steering gear for automotive vehicles. 3,773,137, 11-20-73, Cl. 180-103.000.
ESE Limited: *See—*
Longstaff, Fred McColl; and Petrie, John Malcolm, 3,766,335.
ESGE-Marby Gesellschaft mit beschrankter Haftung & Co., Firma: *See—*
Niemann, Heinz, 3,779,435.
Eshelman, Robert W.; and Ohar, Waysl, to Chrysler Corporation. Thermostatic vacuum valve. 3,734,403, 5-22-73, Cl. 236-87.000.
Eshler, Donald C., to United States Gypsum Company. Unit platform. 3,744,204, 7-10-73, Cl. 52-671.000.
Eskeli, Michael. Rotary ejector compressor. 3,719,434, 3-6-73, Cl. 417-78.000.
Eskeli, Michael. Rotary compressor with cooling. 3,748,057, 7-24-73, Cl. 415-116.000.
Eskeli, Michael. Mixed fluid turbine. 3,756,021, 9-4-73, Cl. 60-39.020.
Eskeli, Michael. Reaction rotor turbine. 3,758,223, 9-11-73, Cl. 415-1.000.
Eskeli, Michael. Compressing centrifuge. 3,761,195, 9-25-73, Cl. 415-1.000.
Eskelli, Michael. Reaction turbine. 3,748,054, 7-24-73, Cl. 415-80.000.
Esken, Robert L., to Bendix Corporation, The. Fluid pressure operated digital display. 3,739,165, 6-12-73, Cl. 235-201.0fs.
Eskijian, Luther. Dustless sand blaster. 3,753,318, 8-21-73, Cl. 51-11.000.
Eskijian, Luther. Wet film thickness gauge. 3,758,957, 9-18-73, Cl. 33-169.00r.
Eskijian, Luther. Earthquake resistant system. 3,762,114, 10-2-73, Cl. 52-167.000.
Eskimo Pie Corporation: *See—*
Bruschke, Joost M. M.; and Minor, Ronald E., 3,776,671.
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Eskin, Ilia Jurievich; Zak, Ilia Samuilovich; Kuznetsov, Sergei Vasilievich; Khlebalin, Vladimir Sergeevich; and Lozovsky, Mikhail Srulevich, to Tsentralny Nauchno-Issledovatelsky Institut Shveinoi Promyshlennosti. Semi-automatic sewing machine for operatig on garment belts having belt-loops. 3,726,242, 4-10-73, Cl. 112-121.270.
Eskola, Kai; and Tyllinen, Yrjo, to Oy E. Sarlin AB. Method and device for protecting a pump motor intended to be immersed in liquid. 3,759,634, 9-18-73, Cl. 417-32.000.
Eskridge, Marshall: *See—*
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Esmay, Paul O.; and Derr, Carl B., to Esmay Products, Inc. Portable seed planter. 3,774,557, 11-27-73, Cl. 111-82.000.
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Esmond, William G. Exchange device. 3,738,495, 6-12-73, Cl. 210-321.000.
Esmond, William G. Artificial body member. 3,780,870, 12-25-73, Cl. 210-321.000.
Esner, Mark Edward, to Dynasafe Equipment Limited and Howard Wall Limited. Vehicle safety belts and harnesses and buckles for them. 3,722,909, 3-27-73, Cl. 280-150.0sb.
Espana, Salvador; and Font, Brunson Bert, to McCulloch Corporation. Hard faced chain saw guide bar. 3,744,363, 7-10-73, Cl. 143-32.00h.
Espana, Salvador; and Funt, Brunson Bert, to McCulloch Corporation. Method for applying hard facing to an object. 3,760,141, 9-18-73, Cl. 219-77.000.
Espanion, Gunther: *See—*
Feltgen, Karl-Heinz; and Espanion, Gunther, 3,781,393.
Espasa, Arcadio. Locking head. 3,753,570, 8-21-73, Cl. 279-2.000.
Espasa, Arcadio. Device for imparting reciprocatory motion to a moving element. 3,760,641, 9-25-73, Cl. 74-57.000.
Espe Fabrik Pharmazeutischer Praparate GmbH: *See—*
Schmitt, Werner; Purrmann, Robert; Jochum, Peter; and Zahler, Wolf-Dietrich, 3,751,395.
Espe, Roy H.; to Motorola, Inc. Squench circuit with time delay variable in accordance with strength of received signal. 3,769,592, 10-30-73, Cl. 325-478.000.
Espeel, Frans Joris; and Ackermann, Ernst. Pneumatic dust collection system. 3,729,903, 5-1-73, Cl. 55-283.000.
Espenschied, Helmut; Kadelbach, Volker; Rothfuss, Georg; Scheyhing, Hans; Mattes, Bernhard; Burkel, Rainer; Erben, Ernst; Hupfeld, Karl-Otto; and Weyer, Herbert, to Bosch, Robert, G.m.b.H. Interrelated controls for gearing, clutch, brakes and engine. 3,756358, 9-4-73, Cl. 192-.090.
Espenschied, Helmut, to Bosch, Robert, G.m.b.H. Gear shifting assembly for change-speed transmission. 3,776,056, 12-4-73, Cl. 74-364.000.
Espenshied, Helmut, to Bosch, Robert, G.m.b.H. Clutch with plural fluid releasing means. 3,752,282, 8-14-73, Cl. 192-91.00r.
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Espino, Ramon L.; Sherwin, Martin B.; and Sugerman, Gerald, to Chem Systems, Inc. Butane cracking. 3,761,538, 9-25-73, Cl. 260-683.00r.
Espinosa, Francisco Gutierrez: *See—*
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Espinosa, Rene Jose. Method for preparing measured lengths of dental floss. 3,769,396, 10-30-73, Cl. 264-157.000.
Espinoza, Charles. Motor rotated and timed cue chalker. 3,781,008, 12-25-73, Cl. 273-19.000.
Esposito, Frank J.; Pallas, Michael J.; and Martin, Robert W., to United States of America, Air Force. Unfurlable isotropic antenna. 3,715,759, 2-6-73, Cl. 343-792.500.
Esposito, Vincent J., Jr., 50% to Barnett, Erwin M. Poolside swing having a seat with an ejection slide mechanism. 3,778,054, 12-11-73, Cl. 272-85.000.
Espriu, Francisco O. Ignition system for internal combustion engines. 3,773,024, 11-20-73, Cl. 123-148.0ds.
Espy, Herbert H., to Hercules Incorporated. Polyamine-acrylamide-polyaldehyde resins having utility as wet and dry strengthening agents in papermaking. 3,728,214, 4-17-73, Cl. 162-167.000.
Espy, Herbert H., to Hercules Incorporated. Aminopolyamide--acrylamide--polyaldehyde resins employing an alpha, beta-unsaturated monobas . carboxylic acid or ester to make the aminopolyamide and their utility as wet and dry strengthening agents in papermakng. 3,728,215, 4-17-73, Cl. 162-167.000.
Espy, Melvin P. Sonic boom reduction. 3,709,446, 1-9-73, Cl. 244-1.00n.
Espy, Ronald H., to Armco Steel Corporation. Ferritic-austenitic stainless steel. 3,736,131, 5-29-73, Cl. 75-126.00b.
Espy, Ronald H., to Armco Steel Corporation. Chromium-nickel-manganese-nitrogen austenitic stainless steel. 3,753,693, 8-21-73, Cl. 75-128.00a.
Esquire, Inc.: *See—*
Hernandez, Jose A., 3,745,326.
Landrum, Leon L.; and Holder, Robert L., 3,781,539.
McFarlin, Ralph M., 3,710,096.
Ess, John O., to United States of America, Navy. Low frequency wave absorbing device. 3,739,411, 6-19-73, Cl. 9-8.00r.
Essar Corporation: *See—*
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Essco, Inc.: *See—*
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Esseiva, Roger Marcel; Perrin, Louis R.F.J.; and Romang, Lucien Willy, to Seitz & Co. Method of removing portions of coating by glow discharge. 3,711,311, 1-16-73, Cl. 117-8.000.



Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,439, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,440, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,441, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,442, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,443, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,444, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,445, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,446, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,447, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,448, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,449, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,450, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,451, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,452, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,453, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,454, 11-27-73, Cl. 73-194.00r.
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Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,474, 11-27-73, Cl. 73-194.00r.
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Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,479, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,480, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,481, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,482, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,483, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,484, 11-27-73, Cl. 73-194.00r.
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Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,515, 11-27-73, Cl. 73-194.00r.
Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,516, 11-27-73, Cl. 73-194.00r.
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Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus for measuring the velocity of a moving object. 3,774,520, 11-27-73, Cl. 73-194.00r.
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Essen, Lars Erik, to Telefonaktiebolaget L M Ericsson. Method and apparatus

Esselborn, Fred H., to Timex Corporation. Device to stop timepiece balance wheels. 3,765,164, 10-16-73, Cl. 58-63.000.

Esselborn, Reiner: *See—*
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Esser, Ernst S., to Eaton Corporation. Variable capacity lift truck. 3,734,326, 5-22-73, Cl. 214-674.000.

Esser, Frank J.: *See—*
Donovan, John C.; Krishnaiyer, Ramesh; and Esser, Frank J., 3,735,353.

Esser, George William; and Jury, Webster W., to North American Equipment Corporation. Pallet retrieving system. 3,731,790, 5-8-73, Cl. 198-219.000.

Esser, Harold Herman; and Olson, Ralph Brent, to Schneider Metal Manufacturing Co. Water distribution control for automatic ice cube maker. 3,722,227, 3-27-73, Cl. 62-347.000.

Esser, Klaus; Schurmann, Helmut; Heitner, Alfred; and Hildebrandt, Norbert, to Esser, Klaus, KG. Mounting rims. 3,749,908, 7-31-73, Cl. 240-78.00h.

Esser, Klaus, KG: *See—*
Esser, Klaus; Schurmann, Helmut; Heitner, Alfred, and Hildebrandt, Norbert, 3,749,908.

Esser, Leonard Jan Maria: *See—*
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Esser, Paul: *See—*
Kuntz, Egon; Esser, Paul; and Muschelknautz, Egar, 3,778,907.

Essery, John Michael; and Cheney, Lee Cannon, to Bristol-Myers Company. 7-[D-(α-Amino-α-phenyl-, 2-thienyl- and 3-thienylacetamido)]-3-methylisoxazol-5-yl) -carbanylthiomethyl-3-cephem-4-carboxylic acids. 3,741,965, 6-26-73, Cl. 260-243.00c.

Essery, John Michael; and Cheney, Lee Cannon, to Bristol-Myers Company. 7-[D-(α-amino-α-phenyl-,2-thienyl- and 3-thienylacetamido)]-3-[S-(isothiazol-3-, 4-, and 5-yl) carbonyl] thiomethyl-3-cephem-4-carboxylic acids. 3,743,644, 7-3-73, Cl. 260-243.00c.

Essery, John Michael; and Cheney, Lee Cannon, to Bristol-Myers Company. 7-[D-(α-Amino-α-phenyl-, 2-thienyl- and 3-thienylacetamido)]-3-(1,2,5-thiadiazol-3-yl)carbonylthiomethyl -3-cephem-4-carboxylic acids. 3,776,906, 12-4-73, Cl. 260-243.00c.

Essery, John Michael; and Cheney, Lee Cannon, to Bristol-Myers Company. 7-[D-(α-Amino-α-phenyl-, 2-thienyl- and 3-thienylacetamino)]-3-(1,2,3-thiadiazol-4- or 5-yl)-carbonylthiomethyl-3-cephem-4-carboxylic acids. 3,776,907, 12-4-73, Cl. 260-243.00c.

Essery, John Michael; and Cheney, Lee Cannon, to Bristol-Myers Company. 7-[D-(α-Amino-α-phenyl-, 2-thienyl- and 3-thienylacetamido]-3-[S-(1-methyl-1,2,3-triazol -4-yl)carbonyl]-thiomethyl-3-cephem-4-carboxylic acids. 3,780,032, 12-18-73, Cl. 260-243.00c.

Essex Chemical Corporation: *See—*
De Santis, G. William, 3,779,794.

Essex International, Inc.: *See—*
Alten, Ralph W., 3,723,925.
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Dennis, Herman W.; and Birko, Arnold, 3,713,944.
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Prouty, Robert E.; and Bear, Herman G., 3,760,342.
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Vogel, Ralph A.; and Bratt, Harold F., 3,745,807.
Zinser, Frederick M., Jr.; and Connelly, Joseph, 3,775,548.

Essig, Erich, to Muller, Jakob. Weaving of ribbons. 3,727,648, 4-17-73, Cl. 139-291.000.

Essig, Karl, to Stoll, H., and Company. Apparatus for reversing the traverse of the cam carriage of an automatically operating flat knitting machine. 3,728,901, 4-24-73, Cl. 74-27.000.

Essilor International (Compagnie Generale d'Optique): *See—*
Boudet, Jean; Wajs, Georges; Gomond, Gerard; and Billault, Pierre, 3,761,208.
Gentils, Marcel, 3,745,662.

Essilor International Compagnie Generale d'Optique: *See—*
Gomond, Gerard, 3,750,272.

Essmann, Carl J. Writing implement for persons with greatly impaired or lost eyesight. 3,713,230, 1-30-73, Cl. 35-38.000.

Essner, Howard. Surgical stick. 3,777,760, 12-11-73, Cl. 128-269.000.

Esso Production and Research Company: *See—*
Matthews, Jamie F., Jr., 3,724,224.

Esso Production and Research Corporation: *See—*
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Esso Production Company: *See—*
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Estabrook, Mark R., to Barnes Drill Co. Cyclone separator. 3,777,788, 12-11-73, Cl. 141-279.000.

Esteban, Daniel J.: *See—*
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Esteban, Daniel Jacques, to International Business Machines Corporation. Narrow band digital filter. 3,737,636, 6-5-73, Cl. 235-152.000.

Esteban, Daniel Jacques, to International Business Machines Corporation. Series-parallel multiplication device using modified two's complement arithmetic. 3,737,638, 6-5-73, Cl. 235-164.000.

Estep, Alton W. Interference controlled communications cable. 3,735,022, 5-22-73, Cl. 174-117.00f.

Esterdahl, Richard B. Casket lid. 3,735,457, 5-29-73, Cl. 27-19.000.

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Esterly, Henry N. Key switch. 3,719,902, 3-6-73, Cl. 331-117.00r.

Esters, Ernie B. Plural stator dynamoelectric machine. 3,729,642, 4-24-73, Cl. 310-112.000.

Estes, Bay E., III: *See—*
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Estes, Day E., III; and Anderson, Robert L., Jr., to Essex International Inc. Engine member position predictor. 3,767,902, 10-23-73, Cl. 235-151.320.

Estes, James; and Laird, George A., to Aeration Septic Tank Company. Aeration septic tank. 3,741,393, 6-26-73, Cl. 210-195.000.

Estes, James D.: *See—*
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Estes, James M.: *See—*
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Estes, James W.; Geiger, Lewis J., Jr.; and Shepherd, Thomas L., to Airco Inc. Oxy-fuel process for melting aluminium. 3,734,719, 5-22-73, Cl. 75-65.000.

Estes, John H.: *See—*
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Suggitt, Robert M.; Estes, John H.; and Kravitz, Stanley, 3,709,817.
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Estes, John H.; Herbstman, Sheldon; and Kravitz, Stanley, to Texaco Inc. Aromatic hydrogenation. 3,711,566, 1-16-73, Cl. 260-667.000.

Estes, John Harold; Kravitz, Stanley; and Suggitt, Robert M., to Texaco Inc. Selective hydrocracking and isomerization of paraffin hydrocarbons. 3,711,399, 1-16-73, Cl. 208-112.000.

Estes, Marvin F.: *See—*
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Estes, Timothy K.; De Winter, Frank G. V.; Doss, John L.; and Higgins, James J., to Packaging Corporation of America. Cast in situ deck construction and core unit for use therein. 3,708,929, 1-9-73, Cl. 52-98.000.

Esteve, Antonio, to Laboratorios Del Dr. Esteve S.A. Anti-inflammatory dicarboxylic acid ester composition and methods of using same. 3,752,894, 8-14-73, Cl. 424-273.000.

Esteve, Antonio, to Laboratorios Del Dr. Esteve S.A. Anti-inflammatory compositions containing dioxypyrazolidine derivatives and methods of use. 3,755,576, 8-28-73, Cl. 424-240.000.

Esteve-Subirana, Antonio, to Laboratoires OM Societe Anonyme. Treatment of the circulatory system with the lithium salt of hydroquinone sulfonic acid. 3,764,700, 10-9-73, Cl. 424-315.000.

Esteves, Joao De Assuncao. Automatic brake actuator. 3,726,369, 4-10-73, Cl. 192-3.0tr.

Estex Packaging, Inc.: *See—*
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Estienne, Pierre, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Numerical display distortion meter. 3,727,130, 4-10-73, Cl. 324-77.00a.

Estienne, Pierre, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Distortion meter providing polygon pattern indication of distortion level. 3,745,247, 7-10-73, Cl. 178-69.00a.

Estin, Hans H.: *See—*
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Merrill, Edward W., 3,774,623.

Estkowski, Michael H., to V-M Corporation. Record changer spindle. 3,759,531, 9-18-73, Cl. 274-10.00s.

Estlick, Raymond J., to Raytheon Company. Joint having force converting means. 3,781,042, 12-25-73, Cl. 285-339.000.

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Estrem, Malcolm J., to Cornelius Company, The. Coin controlled adjustable timer. 3,713,522, 1-30-73, Cl. 194-9.000.

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Esty, Joseph J. Method of preserving perishable products. 3,715,860, 2-13-73, Cl. 53-22.00b.

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Esveldt, Cornelis Jacobus; and Slijkerman, Petrus Nicolaas, to U.S. Philips Corporation. Annular core consisting of a ferromagnetic ferrite and to be used as a magnetic memory element and of manufacturing such a magnetic core. 3,708,423, 1-2-73, Cl. 252-62.610.

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Etablissements A. Gregoire et L Basilleau: *See—*
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Etchellis, Arthur William, III: *See—*
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Etchells, Arthur William, III, to Du Pont de Nemours, E. I., and Company. Process of treating microcellular polymeric staple fibers to render them postinflatable. 3,730,916, 5-1-73, Cl. 260-2.50n.

Etcheverry, John P.; and Doolittle, James B., to International Telephone and Telegraph Corporation. Pneumatic dump valve. 3,734,128, 5-22-73, Cl. 137-596.200.

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Etessam, Alexander Hossen. Gas generator. 3,774,398, 11-27-73, Cl. 60-248.000.

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Etherton, Daniel: *See—*
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Etherton, Ivor Howard, to Lucas, Joseph, (Industries) Limited. Preparation of layout sheets for printed wiring. 3,723,211, 3-27-73, Cl. 156-63.000.

Etienne, Pierre, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Numerical display distortion meter. 3,727,130, 4-10-73, Cl. 324-77.00a.

Etienne, Pierre, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Distortion meter providing polygon pattern indication of distortion level. 3,745,247, 7-10-73, Cl. 178-69.00a.

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Eto, Yoshizumi; and Hibi, Masao, to Hitachi, Ltd. Striped filters for color video signal generators. 3,719,771, 3-6-73, Cl. 178-5.4st.
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Etra, Richard Henry, to Bell Telephone Laboratories, Incorporated. Traffic data gathering apparatus. 3,732,547, 5-8-73, Cl. 340-172.500.
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Ettinger, James P.; and Otteson, Christian S., to Electric Regulator Corporation. Power supply for A.C. and D.C. drive. 3,721,890, 3-20-73, Cl. 321-8.00r.
Ettischer, Helmut; Ort, Wolfgang; Simon, Horst; and Steisslinger, Kurt, to Eastman Kodak Company. Film movement prevention means. 3,730,066, 5-1-73, Cl. 95-31.00r.
Ettischer, Helmut; Ort, Wolfgang; Simon, Horst; and Steisslinger, Kurt, to Eastman Kodak Company. Transport metering and shutter cocking mechanism for cameras. 3,768,389, 10-30-73, Cl. 95-31.0ac.
Ettischer, Helmut; Ort, Wolfgang; Simon, Horst; and Steisslinger, Kurt, to Eastman Kodak Company. Device for preventing film movement in cameras. 3,774,513, 11-27-73, Cl. 95-31.0fm.
Ettischer, Helmut; Steisslinger, Kurt; and Huschle, Peter, to Eastman Kodak Company. Film movement preventing means for cameras. 3,779,145, 12-18-73, Cl. 95-31.0fm.
Ettl, Michael F. Ski carrier. 3,747,815, 7-24-73, Cl. 224-45.00s.
Ettlinger, Adrian B., to Columbia Broadcasting System, Inc. Method and apparatus for automatically editing television information. 3,721,757, 3-20-73, Cl. 178-6.60a.
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Etzold, Gerhard; Hintsche, Rainer; and Langen, Peter, to Deutsche akademie der Wissenschaften Zu Berlin. Novel cytostatic 2',3'-didesoxy-3'-fluoro-pyrimidine-nucleosides. 3,775,397, 11-27-73, Cl. 260-211.50r.
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Evans, James P. Mud flaps. 3,713,669, 1-30-73, Cl. 280-154.50r.

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Evans, James P.; and Avey, William R., Jr. Ratchet-type speed wrench. 3,745,859, 7-17-73, Cl. 81-119.000.

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Evans, James R.; Krewson, Neil N.; and Roossien, John W., to International Business Machines Corporation. Method and apparatus for data form modification. 3,772,654, 11-13-73, Cl. 370-172.500.

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Evans, Michael C. Holding units. 3,740,085, 6-19-73, Cl. 287-52.080.

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Evans, Pat E.; Miller, Meryl E.; and Muller, Michael, to Dantanetics Corporation. Key assembly diaphragm switch actuator with overtravel and feel mechanisms. 3,773,997, 11-20-73, Cl. 200-159.00b.

Evans, Paul R.; and Graham, Donald H., to AWT Systems, Inc. Fluidized bed system for solid wastes. 3,776,150, 12-4-73, Cl. 110-8.00r.

Evans, Philip Henry; and Lane, Norman, to BSR Limited. Automatic record players. 3,773,332, 11-20-73, Cl. 274-10.00r.

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Evans, Reginald. Rotary coupling. 3,732,706, 5-15-73, Cl. 64-31.000.

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Evans, Rubert V.; Stiles, Thomas M.; and Ploeger, Kenneth C., to Rupert Manufacturing Company, Inc. One piece triangular signal device. 3,759,214, 9-18-73, Cl. 116-63.00p.

Evans, Sidley O., to Babcock & Wilcox Company, The. Method of and apparatus for producing a straight bore cold drawn tube. 3,709,020, 1-9-73, Cl. 72-283.000.

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Evans, William L., to Du Pont de Nemours, E. I., and Company. Flexible high-velocity explosive. 3,723,204, 3-27-73, Cl. 149-19.000.

Evans, William R., to ACF Industries, Incorporated. Apparatus and method for fabricating a container. 3,718,803, 2-27-73, Cl. 219-158.000.

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Everest, Frank Geoffrey; and Veasey, Thomas Patrick, to British Aircraft Corporation Limited. Rangefinder. 3,752,581, 8-14-73, Cl. 356-5.000.

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Everitt, Scott F.; Croup, Robert E.; and Strawn, Alvin A., to Acoustic Fiber Sound Systems, Inc. Sound reproduction system. 3,749,198, 7-31-73, Cl. 181-31.00b.

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Evers, Harry G.: *See—*
Czarnecki, Stephen J.; Evers, Harry G.; Kellogg, Frank; Newcum, William W.; Vogel, Richard F.; and Woodward, John W., 3,760,117.

Evers, John J.; Jones, Ralph E.; and Boyce, Alvie E., to Gebhardt, Robert C., Co. Earth moving and screening equipment. 3,732,980, 5-15-73, Cl. 209-421.000.

Evers, King W.; and Larsen, George H. Structural shape based on waste paper and method of providing the same. 3,736,221, 5-29-73, Cl. 161-170.000.

Evers, William J.: *See—*
Katz, Ira; Wilson, Richard A.; Evers, William J.; Vock, Manfred H.; and Verhoeve, Gerrit W., 3,726,692.
Katz, Ira; Evers, William J.; and Sanderson, Anne, 3,773,524.

Evers, William J.; and McCracken, Philip G., to Ciba-Geigy Corporation. Apparatus for producing a solution of cyanuric chloride from gaseous cyanuric chloride. 3,741,729, 6-26-73, Cl. 23-267.00r.

Evers, William J.; and Vock, Manfred H., to International Flavors & Fragrances Inc. Cyclopentapyrimidines. 3,764,601, 10-9-73, Cl. 260-251.00a.

Evers, William J.; Katz, Ira; Wilson, Richard A.; and Theimer, Ernst T., to International Flavors & Fragrances Inc. Heterocyclic pyrazine flavoring compositions and processes. 3,767,426, 10-23-73, Cl. 426-222.000.

Evers, William John, to International Flavors & Fragrances Inc. Method of making 2-alkylfuran-3-thiol and alkyl, (2-alkyl-3-furyl) di and trisulfides. 3,723,475, 3-27-73, Cl. 260-347.200.

Evers-Euterneck, Ernst T., to United States of America, Army. Angular sensing system using a pair of strapped-down rate gyros. 3,718,292, 2-27-73, Cl. 244-3.110.

Evers-Euterneck, Ernst T., to United States of America, Army. Cruise control for non-ballistic missiles by a special arrangement of spoilers. 3,759,466, 9-18-73, Cl. 244-3.210.

Eversberg, Gerhard: *See—*
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Lewis, Richard L.; Ewald, Jerome T.; and Shields, Martin A.,

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Eversheim, Paul: *See—*
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Eversman Mfg. Company, The: *See—*
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Eversole, James F.; and Berriman, Lester P., to Dresser Industries, Inc. Method and apparatus for mixing and modulating liquid fuel and intake air for an internal combustion engine. 3,778,038, 12-11-73, Cl. 261-50.00r.
Everson, Charles W.: *See—*
Danner, Wilson E.; Hammes, Paul A.; and Everson, Charles W., 3,780,192.
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Everson, Peter O.: *See—*
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Eversteijn, Franciscus Cornelis; and Peek, Hermanus Leonardus, to U.S. Philips Corporation. Vapor deposition reactor. 3,750,620, 8-7-73, Cl. 118-48.000.
Everton, Deloss W.; and Meacham, David D., to Pearson Electronics, Inc. Means for sampling transmissions in telecommunication systems. 3,736,386, 5-29-73, Cl. 179-175.300.
Evertz, Egon: *See—*
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Every, Peter: *See—*
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Every, Richard L., to Continental Oil Company. Method of transporting sulfur by pipeline. 3,761,136, 9-25-73, Cl. 302-66.000.
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Ross, Gerald F.; Susman, Leon; and Eves, Ellis E., II, 3,763,318.
Eves, Ellis E., II, to Sperry Rand Corporation. Circuit for detecting coincidence between low energy short rise signals. 3,743,864, 7-3-73, Cl. 307-302.000.
EVG Entwicklungs- u. Verwertungs-Gesellschaft m.b.H., Firma: *See—*
Schmidt, Gerhard; Ritter, Klaus; and Gott, Hans (said Schmidt and said Ritter assors. to), 3,760,851.
EVG Entwicklungs- und Verwertungsgesellschaft m.b.H: *See—*
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Evrard, Willy. Cleaning mechanism for vehicle headlamps. 3,772,729, 11-20-73, Cl. 15-250.220.
Evvard, John C.; McGannon, William J.; and Vargo, Donald J., to United States of America, National Aeronautics and Space Administration. Ophthalmic method and apparatus. 3,736,938, 6-5-73, Cl. 128-305.000.
Evzlin, Volf Nakhimovich: *See—*
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Ewald, Herbert J., Jr. Fish farm. 3,773,014, 11-20-73, Cl. 119-3.000.
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Lewis, Richard L.; Ewald, Jerome T.; and Shields, Martin A., 3,761,140.
Ewald, Ronald F. Valve button. 3,711,031, 1-16-73, Cl. 239-601.000.
Ewald, Ronald F., to Seaquist Valve Company. Safety closure. 3,770,167, 11-6-73, Cl. 222-153.000.
Ewald, Ronald F., to Seaquist Valve Company. Safety closure adaptor. 3,779,427, 12-18-73, Cl. 222-153.000.
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Ewald, William P.; and Metzger, Lenard M., to Eastman Kodak Company. Optical-to-electrical signal transducer apparatus. 3,721,761, 3-20-73, Cl. 178-7.880.
Ewald, William Philip, to Eastman Kodak Company. Camera battery checker. 3,736,852, 6-5-73, Cl. 95-10.00c.
Ewale, Thomas Matthew: *See—*
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Ewell, Joseph R. Rotary abrasive tool. 3,731,437, 5-8-73, Cl. 51-361.000.
Ewen, Joel J. Battery feed and ring trip relay circuit. 3,723,663, 3-27-73, Cl. 179-84.00r.
Ewert, Bruno, to General Motors Corporation. Motor vehicle suspension systems. 3,709,516, 1-9-73, Cl. 280-96.20r.
Ewing, Alvin L. Remotely controlled mining machine. 3,776,592, 12-4-73, Cl. 299-1.000.
Ewing, Donald D., to Goodrich, B. F., Company, The. Flexible actuator. 3,713,685, 1-30-73, Cl. 294-99.00r.
Ewing, James O. Modular heat pump. 3,731,497, 5-8-73, Cl. 62-160.000.
Ewing, Joseph B., Jr. Cantilever support. 3,708,038, 1-2-73, Cl. 182-150.000.
Ewing, Robert L., to Holophane Company, Inc. Door and hinge assembly. 3,778,932, 12-18-73, Cl. 49-388.000.
Ewoldt, Robert, to Outboard Marine Corporation. Seat cover. 3,765,039, 10-16-73, Cl. 5-353.100.
Ex-Cell-O Corporation: *See—*
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Kraus, Charles E., 3,776,051.
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Exitec, Inc.: *See—*
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Exley, John T., to Avco Corporation. Channel diffuser with splitter vanes. 3,765,792, 10-16-73, Cl. 415-181.000.
Exmet Corporation: *See—*
Felsenthal, Robert M., 3,760,470.
Exner, Emil August, to U.S. Philips Corporation. Arrangement including an electronic flash tube. 3,716,753, 2-13-73, Cl. 315-241.00p.





Exner, Emil August, to U.S. Philips Corporation. Electric switching device including thyristors. 3,743,859, 7-3-73, Cl. 307-252.00k.
Exner, Fritz; and Leidig, Theodor, to Haarmann & Reimer Gesellschaft mit beschrankter Haftung. 4-Methyl-2-pentanol crotonate. 3,709,929, 1-9-73, Cl. 260-486.00r.
Exner, Jurgen H.; Sheetz, David P.; and Steiner, Edwin C., to Dow Chemical Company, The. Cyclic polyethers as catalyst activators in the alkalicatalyzed reaction of alkylene oxides. 3,760,005, 9-18-73, Cl. 260-615.000.
Exner, Jurgen H.; Larsen, Eric R.; and Gunsher, Jeffrey A., to Dow Chemical Company, The. Halogenated carbonates as fire retardants for polyesters. 3,779,984, 12-18-73, Cl. 260-457.00r.
Exomet, Incorporated: *See—*
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Hall, James M.; and Clipp, Louis L., 3,708,121.
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Eyb, Wolfgang, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Headlight for vehicles, especially motor vehicles. 3,758,772, 9-11-73, Cl. 240-7.10a.
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Eyles, Leonard William, to Lucas, Joseph, (Industries) Limited. Control arrangement for hydraulic transmission system. 3,717,992, 2-27-73, Cl. 60-19.000.
Eyman, Charles W., Jr.; Moody, Floyd O.; and Snyder, Harold M.; to General Motors Corporation. Automatic freezer. 3,727,427, 4-17-73, Cl. 62-353.000.
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Eymans, Jacobus Johannes Antonius; Holman, Egbert Willem; and Jaspers, Hans, to Koninklijke Industrieele Maatschappij Noury & van der Lande N.V. Stabilized dibenzoyl peroxides polymer initiator compositions. 3,723,336, 3-27-73, Cl. 252-186.000.
Eymery, Rene, to Commissariat a l'Energie Atomique. Collimation device for irradiation apparatus. 3,710,119, 1-9-73, Cl. 250-106.00s.
Eynon, George Thomas; Shoesmith, Terry; and Standen, Desmond Leonard Ernest, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Gyroscope processing apparatus. 3,763,709, 109-73, Cl. 74-5.470.
Eynon, John E., to Abitibi Paper Company, Ltd. Log carrier or bunk. 3,710,969, 1-16-73, Cl. 214-130.00r.
Eynon, John E. Limbing boom. 3,712,350, 1-23-73, Cl. 144-2.00z.
Eynon, John E. Limbing head. 3,763,904, 10-9-73, Cl. 144-2.00z.
Eyre, Frank W.; and Groundwater, Fergus M., to United States of America, Navy. Sabot for sub-calibre projectile. 3,738,279, 6-12-73, Cl. 102-94.000.
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Eyzat, Pierre; Ecomard, Andre; Stephant, Claude; and Ghersi, Jean-Claude, to Institut Francais du Petrole des Carburants et Lubrifiants. Compression-ignition engine. 3,738,332, 6-12-73, Cl. 123-32.00r.
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Ezell, Melvin H.; and Talley, Troy B. Hosiery inspection apparatus. 3,730,405, 5-1-73, Cl. 223-72.000.
Ezhkov, Alexandr Borisovich: *See—*
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Ezquerra, Raymond. Vehicle passenger safety device. 3,722,951, 3-27-73, Cl. 297-390.000.
Ezra, Arthur A.; Howell, William G.; Glick, Herbert S.; and Kaplan, Michael A., to Denver Research Institute. Method and apparatus for explosive autofrettage. 3,751,954, 8-14-73, Cl. 72-56.000.
Ezzell, Bobby R.; Fluck, Eugene R.; and Haefele, Louis R., to Reynolds, R. J., Tobacco Company. Hypocholesterolemic compounds. 3,781,444, 12-25-73, Cl. 424-331.000.
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Faber, Kurt Heinrich Albert Erich, to Sandvik Aktiebolag. Guide pad mounting on a drill bit. 3,751,177, 8-7-73, Cl. 408-200.000.
Faber, Kurt Heinrich Albert Erich, to Sandvik Aktiebolag. Drill with guide device. 3,762,828, 10-2-73, Cl. 408-83.000.
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Faber, Marcel D.: *See—*
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Faber, Saul L.; and Jurek, Dennis J., said Jurek assor. to said Faber, Saul L. Golf ball retriever. 3,770,308, 11-6-73, Cl. 294-19.00a.
Fabert, Herman A., Jr., to Abex Corporation. Hammer for hammer mills. 3,738,586, 6-12-73, Cl. 241-195.000.
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Fabian, Hans, to NUKEM Nuklear-Chemie und- Metallurgie Gesellschaft mit beschrankter Haftung. Target for neutron production in accelerator installations. 3,766,390, 10-16-73, Cl. 250-499.000.
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Fabian, Wolfgang, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Isolation of finely divided dyes from liquid dispersions. 3,730,750, 5-1-73, Cl. 106-309.000.
Fabianic, William S.; Jancowskis, Benno B.; and Lannerd, Robert P., to United States of America, Navy. Gridding and printout device for meteorological data receiver/recorder. 3,740,758, 6-19-73, Cl. 346-23.000.
Fabiano, Anthony J. Garden kaddy. 3,759,538, 9-18-73, Cl. 280-47.350.
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Fabre, Arthur Fernand, to Nobel-Bozel. Cutting-off machines. 3,745,713, 7-17-73, Cl. 51-34.00c.
Fabre, Pierre Jacques Louis; and D'Hinterland, Lucien Jean Dussourd, to Investigations Scientifiques Pharmaceutiques. Preparation of a hormonal duodenum extract. 3,769,402, 10-30-73, Cl. 424-104.000.
Fabregat, Manuel Punsola. Manufacture of a wiping or piston ring. 3,758,929, 9-18-73, Cl. 29-156.600.
Fabri, Ernest S., to Rosenblad Corporation. Fixture for forming heating elements by hydraulic pressure. 3,736,783, 6-5-73, Cl. 72-57.000.
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Fabricant, Norman, to Quaker Oats Company, The. Obstacle toy. 3,747,937, 7-24-73, Cl. 273-153.00r.
Fabricant, Norman. Pneumatic board game apparatus. 3,752,481, 8-14-73, Cl. 273-131.0ba.
Fabricius, John H.; and Maher, John P., to Sprague Electric Company. Concentric shaft encased variable electronic component. 3,760,321, 9-18-73, Cl. 338-134.000.
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Fabris, Hubert J.; Maxey, Edwin M.; and Uelzmann, Heinz. Urethane adhesive having improved sag resistance. 3,714,127, 1-30-73, Cl. 260-77.5am.
Fabris, Hubert J.; Maxey, Edwin M.; and Uelzmann, Heinz, to General Tire & Rubber Company, The. Catalyst system for use in water-blown flexible polyetherurethane foams and foams made therefrom. 3,726,816, 4-10-73, Cl. 260-2.5ac.
Fabris, Hubert J.; and Maxey, Edwin M., to General Tire & Rubber Company, The. Latex reinforced flexible polyurethane foam. 3,755,211, 8-28-73, Cl. 260-2.5be.
Fabris, Hubert Jakob; Maxey, Edwin Morgan; and Schmucker, Arden Everett, to General Tire & Rubber Company, The. Temperature stable flexible isocyanate-terminated polymers and polyisocyanurate polymers therefrom. 3,725,357, 4-3-73, Cl. 260-77.5nc.
Fabrizio, Gerardo, to Pierrel S.p.A. Erythromycin aspartate salt. 3,764,595, 10-9-73, Cl. 260-210.00g.
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Faccou, Armand L., to FMC Corporation. Pipe swivel joint with a cartridge-type packing unit. 3,715,134, 2-6-73, Cl. 285-276.000.
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Fackler, Chester M.; and Lenderking, David H., to International Business Machines Corporation. Record medium driving arrangements for sound transducing apparatus. 3,721,451, 3-20-73, Cl. 274-4.00j.
Fackre, John S. Extensible camping trailer. 3,737,191, 6-5-73, Cl. 296-27.000.
Factor, Arnold, to General Electric Company. Color-stabilized polycarbonate composition containing a cadmium or cerium salt of an alkanoic acid, an alkanoic acid and an organic phosphite. 3,763,063, 10-2-73, Cl. 260-18.0tn.
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Fader, Marshall Lloyd, to Miles Laboratories, Inc. Test composition and device for ascorbic acid determination. 3,771,964, 11-13-73, Cl. 23-253.0tp.





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Faessler, Adelmar; and Engle, Stewart E., to Sybron Corporation. Rotary filling machine. 3,780,847, 12-25-73, Cl. 198-25.000.
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Falconer, Errol Linton, to Canadian Industries Limited. Nitrocellulose-nitric ester explosives composition containing hydroxyalkyl ether of a polysaccharide. 3,723,208, 3-27-73, Cl. 149-94.000.

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Falk, Henry Joseph, to Union Carbide Corporation. Spray refrigeration system for low temperature-sensitive product. 3,734,169, 5-22-73, Cl. 165-28.000.

Falk, John D., to Allied Chemical Corporation. Sterilization of biological fluids. 3,743,480, 7-3-73, Cl. 21-2.000.

Falk, Joseph H.; and Burnett, Lauren W. Rotary dryer. 3,713,633, 1-30-73, Cl. 263-33.00r.





Falk, Mervin L.; and Denk, Joseph P., to Newell Industries Inc. Tape transport apparatus with end of tape sensing control. 3,759,462, 9-18-73, Cl. 242-186.000.

Falk, Morris, to Fort Lock Corporation. System for master keying axial pin tumbler locks. 3,738,136, 6-12-73, Cl. 70-363.000.

Falk, Richard A. Device for taking a molten sample. 3,748,908, 7-31-73, Cl. 73-354.000.

Falk, Richard A. Molten metal sampler. 3,774,453, 11-27-73, Cl. 73-425.40r.

Falk, Richard B., to General Electric Company. Heating unit. 3,740,529, 6-19-73, Cl. 219-535.000.

Falk, Robert Allan; and Kleiner, Eduard Karl, to Ciba-Geigy Corporation. Free radical polymerization using perfluoroalkyl mercaptans as chain transfer agents. 3,758,447, 9-11-73, Cl. 260-78.50b.

Falk, Sidney, to Fort Lock Corporation. Rekeyable axial pin tumbler lock. 3,728,880, 4-24-73, Cl. 70-363.000.

Falk, Willi, to Deutschne Edelstahlwerke Aktiengesellschaft. Insert for cutting tool. 3,707,747, 1-2-73, Cl. 29-95.000.

Falkehag, Sten I.; and Dilling, Peter, to Westvaco Corporation. Process for producing cationic lignin amines. 3,718,639, 2-27-73, Cl. 260-124.00a.

Falkehag, Sten I.; Bills, Alan M.; and Hintz, Harold L., to Westvaco Corporation. Digestion of lignocellulosic material with cyanide and bisulfate ions at a pH below 7. 3,762,990, 10-2-73, Cl. 162-83.000.

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Falkenberg, Dieter; and Winkler, Josef, to Siemens Aktiengesellschaft. Thermogenerator with thermoelectric elements in exhaust ducts. 3,719,532, 3-6-73, Cl. 136-208.000.

Falkenstein, Albert J. Advertising display device. 3,763,584, 10-9-73, Cl. 40-125.00m.

Falkiner-Muttall, George Robert, to Tracked Hovercraft Limited. Electric current collector arrangements. 3,752,274, 8-14-73, Cl. 191-49.000.

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Faller, Edwin; and Faller, Hermann, to Gebr. Faller GmbH, Fabrik Feiner Modellspielwaren. Toy railroad vehicle and switching section. 3,729,866, 5-1-73, Cl. 46-216.000.

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Fallon, Herbert J., to Bendix Corporation, The. Automatic workpiece loading arrangement for a grinder feed wheel. 3,765,524, 10-16-73, Cl. 198-59.000.

Fallon, William H.; Rieger, Paul P.; and Richards, Donald K., to General Battery Corporation. Battery charger with voltage comparator control circuit which is insensitive to line voltage variations. 3,736,490, 5-29-73, Cl. 320-39.000.

Fallotico, John P., to Lee, Raymond, Organization, Inc., The. Reserve full system for an automotive vehicle. 3,754,569, 8-28-73, Cl. 137-572.000.

Fallows, John; and Worthington, John Edward, to Polygram Casting Co., Limited. Method of making shell-moulded articles therefor. 3,741,276, 6-26-73, Cl. 164-72.000.

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Fallwell, William F., Jr., to Monsanto Company. Ethylene/vinyl chloride/N-methylol acrylamide. 3,758,429, 9-11-73, Cl. 260-17.400.

Fally, Jacques; Lazennec, Yvon; and Lasne, Claude, to Compagnie Generale d'Electricite. Electrochemical generator of the sulphur-sodium type. 3,748,178, 7-24-73, Cl. 136-6.00f.

Fally, Jacques; Richez, Jacques; Lasnf, Claude; and Lazennec, Yvon, to Compagnie Generale d'Electricite. Sodium-sulphur accumulator with temperature controlling means. 3,758,337, 9-11-73, Cl. 136-6.0fs.

Faltens, Andris; Hartwig, Edward C.; and Avery, Robert T., to United States of America, Atomic Energy Commission. Beam current position, intensity and profile monitoring by resistive detection of beam image wall currents. 3,733,546, 5-15-73, Cl. 324-71.00r

Falterman, Charles W.; Griffith, William J.; and Fletcher, Perry L., to United States of America, Navy. Underwater repeating shotgun. 3,721,031, 3-20-73, Cl. 42-1.001.

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Fammler, Karl, to Rheinmetall G.m.b.H. Automatic firearm disposed in a gun turret and pivotable in the vertical direction. 3,759,136, 9-18-73, Cl. 89-33.0bb.

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Fancher, Llewellyn W., to Stauffer Chemical Company. Phosphonamido thiazoles and their utility as insecticides. 3,723,450, 3-27-73, Cl. 260-306.80r.

Fancher, Llewellyn W., to Stauffer Chemical Company. Certain 2-iminothiazol phosphates and phosphonates. 3,729,478, 4-24-73, Cl. 260-306.700.

Fancher, Llewellyn W., to Stauffer Chemical Company. Insecticidal active composition and process for manufacturing the same. 3,743,728, 7-3-73, Cl. 424-200.000.

Fancher, Llewellyn W., to Stauffer Chemical Company. Substituted cinnamyl thiocyanates and their isomers. 3,749,747, 7-31-73, Cl. 260-454.000.

Fancher, Llewellyn W., to Stauffer Chemical Company. Insecticidal 2-aminothiazole phosphates and phosphonates. 3,749,775, 7-31-73, Cl. 424-200.000.

Fancher, Llewellyn W.; and Kalbeeld, Jules, to Stauffer Chemical Company. Process of manufacturing organo-phosphorous derivatives. 3,759,949, 9-18-73, Cl. 260-326.00e.

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Fanciullo, Salvatore; Gagnon, Richard N.; and Summers, Warren S., to United Aircraft Corporation. Proportional action electronic fuel control for fuel cells. 3,745,047, 7-10-73, Cl. 136-86.00b.

Fandrich, Helmut E., to Dueck Building Supplies Ltd. Internal combustion two-stroke power unit. 3,731,662, 5-8-73, Cl. 123-50.00b.

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Fannon, Robert D., Jr., to Harsco Corporation. Automatic window washer. 3,715,774, 2-13-73, Cl. 15-302.000.

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Fanslow, Ronald J., to International Harvester Company. Mounting blocks in vehicle frame and method of installation therein. 3,713,203, 1-30-73, Cl. 29-428.000.

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Farr, Andrew F., to Farr Devices Inc. Instrument for measurement of hemoglobin content of whole blood. 3,764,267, 10-9-73, Cl. 23-253.00r.
Farr Company: *See—*
Farr, Richard S., 3,738,334.
Labadie, Paul A., 3,708,957.
Farr Devices Inc.: *See—*
Farr, Andrew F., 3,712,794.
Farr, Andrew F., 3,764,267.
Farr, Emory W. Linear load cell bridge including a non-linear strain sensitive element. 3,759,093, 9-18-73, Cl. 73-141.00a.
Farr, Glyn Philip Reginald, to Girling Limited. Shoe-drum brakes. 3,779,348, 12-18-73, Cl. 188-106.00a.
Farr, Glyn Phillip Reginald, to Girling Limited. Load transmitting struts. 3,750,853, 8-7-73, Cl. 188-196.00r.
Farr, Glyn Phillip Reginald, to Girling Limited. Brake adjusters. 3,774,733, 11-27-73, Cl. 188-196.00d.
Farr, John B., to Amoco Production Company. Earth holography with special reference wave. 3,729,704, 4-24-73, Cl. 340-15.5ds.
Farr, John P. G.; and Harris, Ivor Rex, to National Research Development Corporation. Hydrogen diffusion membranes. 3,713,270, 1-30-73, Cl. 55-16.000.
Farr, Marvin Paul, to Ralston Purina Company. Electrical apparatus for measurement of moisture content by measurement of radio frequency power absorption utilizing a power limiting capacitor. 3,714,560, 1-30-73, Cl. 324-61.000.



Farr, Richard S., to Farr Company. Emission reduction system. Farrell, Thomas H.: *See—*

Farr, Richard S., to Farr Company. Emission reduction system. 3,738,334, 612-73, Cl. 123-34.00a.

Farr, Roderick Peter, to Girling Limited. Automatic adjusters. 3,762,513, 10-2-73, Cl. 188-196.00d.

Farrah, Harry Robert; Marom, Emanuel; and Mueller, Rolf K., to Bendix Corporation, The. Holographic system for forming images of both stationary and moving objects. 3,717,843, 2-20-73, Cl. 340-1.00r.

Farrah, Harry Robert, to Bendix Corporation, The. Method and apparatus for imaging stationary and moving objects. 3,771,116, 11-6-73, Cl. 340-5.00h.

Farran, Charles F.: *See—*
Wolfarth, Eugene F.; Smith, Donald A.; Farran, Charles F.; and Dappen, Glen M., 3,725,063.

Farran, Charles F.; and Wolfarth, Eugene F., to Eastman Kodak Company. Color developer scavenger layer for diffusion transfer dye image-receiving elements and systems. 3,779,756, 12-18-73, Cl. 96-29.000.

Farrand, Clair L., to Inductosyn Corporation. Position-measuring transformer and scale member. 3,732,513, 5-8-73, Cl. 336-129.000.

Farrand, Clair L.; and Foster, Vincent F., to Inductosyn Corporation. Position measuring transformer. 3,772,587, 11-13-73, Cl. 323-46.000.

Farrand Optical Co., Inc.: *See—*
Brenholdt, Irving R., 3,741,654.
Kallet, Eli A., 3,719,410.
Kallet, Eli A., 3,740,147.
La Russa, Joseph, 3,711,826.

Farrand, Roy; and Hull, Roy, to Imperial Chemical Industries Limited. 1-(α-Cyanomethylene-hydrazino)-phenoxy-3-aminopropan-2-ols. 3,718,678, 2-27-73, Cl. 260-465.00d.

Farrar, Gervase Bernard, to Sir James Farmer Norton & Co. Limited. Vacuum impregnating apparatus for treating webs. 3,766,756, 10-23-73, Cl. 68-19.100.

Farrar, Jack R.: *See—*
Pachmayr, Frank A.; Farrar, Jack R.; and Gerick, John, 3,710,496.
Pachmayr, Frank A.; and Farrar, Jack R., 3,769,731.

Farrar, Ralph C.: *See—*
Naylor, Floyd E.; and Farrar, Ralph C., 3,734,972.
Naylor, Floyd E.; and Farrar, Ralph C., 3,776,893.

Farrar, Ralph C., to Phillips Petroleum Company. Multifunctional polymerization initiators from diisopropenyl-benzene. 3,734,973, 5-22-73, Cl. 260-665.00r.

Farrar, Ralph C., to Phillips Petroleum Company. Random copolymerization of conjugated dienes with monovinyl aromatic monomers. 3,763,126, 10-2-73, Cl. 260-83.700.

Farrar, Trevor Alfred; Hodson, David George; and Peat, Derek, to National Research Development Corporation. Guiding apparatus for a stitching machine. 3,736,895, 6-5-73, Cl. 112-203.000.

Farrauto, Robert J.; and Haynes, William L., to Corning Glass Works. Fast setting hydraulic cements from glass powders. 3,720,527, 3-13-73, Cl. 106-85.000.

Farrauto, Robert J.; and Haynes, William L., to Corning Glass Works. Hydraulic cements from glass powders. 3,743,525, 7-3-73, Cl. 106-74.000.

Farre, Jacinto Fort: *See—*
Jorda, Jose Mas; Farre, Jacinto Fort; and Espinosa, Francisco Gutierrez, 3,744,529.

Farrell, George J.; Lyon, Walter R.; Mills, Loring K.; and Shaw, Reginald O., to Polaroid Corporation. Photographic focus adjustment apparatus. 3,709,132, 1-9-73, Cl. 95-45.000.

Farrell, Guy M., to Chicago Switch Inc. Spring loaded pushbutton switch. 3,711,667, 1-16-73, Cl. 200-159.00r.

Farrell, James P., to Fastmask Company. Protecting structure. 3,722,470, 3-27-73, Cl. 188-505.000.

Farrell, John C.; and Balfanz, Thomas L., to Select Systems, Inc. Valve and seal means. 3,729,034, 4-24-73, Cl. 141-332.000.

Farrell, John J. Time saver plastic draw back valve assembly. 3,709,644, 1-9-73, Cl. 425-160.000.

Farrell, John J. Apparatus for making plastic articles of irregular design. 3,765,809, 10-16-73, Cl. 425-109.000.

Farrell, John M., to General Motors Corporation. Permanent magnet armature valve. 3,738,578, 6-12-73, Cl. 239-585.000.

Farrell, John P.; and O'Connell, Edward P., to United States of America, Air Force. Gross leak vacuum and pressure chamber assembly. 3,738,158, 6-12-73, Cl. 73-40.700.

Farrell, Richard, to United States of America, National Aeronautics and Space Administration. Wide temperature range electronic device with lead attachment. 3,742,316, 6-26-73, Cl. 317-234.00r.

Farrell, Robert C., to General Motors Corporation. Transmission control. 3,744,337, 7-10-73, Cl. 74-484.000.

Farrell, Robert C.; Skelley, John W.; Milton, Thomas J.; and Piziks, Henry I., to General Motors Corporation. Transmission shift control. 3,748,921, 7-31-73, Cl. 74-484.000.

Farrell, Robert C., to General Motors Corporation. Energy absorbing steering column. 3,748,922, 7-31-73, Cl. 74-492.000.

Farrell, Robert G.; and Binkley, Carl R., to Sperry Rand Corporation. Power transmission. 3,774,635, 11-27-73, Cl. 137-614.200.

Farrell, Thomas H.: *See—*
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Farrey, Harold E.: *See—*
Bessen, Irwin I.; and Farrey, Harold E., 3,761,302.

Farrier, Ernest G.: *See—*
Elbert, Raymond J.; and Farrier, Ernest G., 3,773,549.

Farrington, Allan P., to Johnson & Johnson. Method of forming webs and apparatus therefor. 3,740,797, 6-26-73, Cl. 19-156.300.

Farrington Business Machines Corporation: *See—*
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Patterson, James M., Jr., 3,707,911.

Farrington, Floyd G. Debeaking, vaccinating and culling wheel and panel for poultry. 3,759,229, 9-18-73, Cl. 119-97.00r.

Farrington, Frederick: *See—*
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Nicklin, Thomas; and Farrington, Frederick, 3,717,699.

Farrington, Gerald K.: *See—*
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Farris, Joseph P.: *See—*
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Farris, Kenneth Barton. Process for producing yeast. 3,751,338, 8-7-73, Cl. 195-82.000.

Farris, Robert E.; and Hicks, James C., to Kaiser Aluminum & Chemical Corporation. Production of mullite refractory. 3,758,318, 9-11-73, Cl. 106-65.000.

Farris, Russell E., Jr.: *See—*
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Farrissey, William J., Jr.: *See—*
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Abbate, Franklin W.; and Farrissey, William J., Jr., 3,721,674.
Albcrino, Louis M.; Farrissey, William J., Jr.; and Rose, James S., 3,708,458.
Von Doering, William E.; Farrissey, William J., Jr.; Frulla, Floro F.; and Sayigh, Adnan A. R., 3,717,683.

Farrissey, William J., Jr.; Rose, James S.; and Sayigh, Adnan A. R., to Upjohn Company, The. Process for the anionic polymerization of caprolactam. 3,714,130, 1-30-73, Cl. 260-78.001.

Farron, John R.; Seleno, Andrew A.; Slavin, Matthew; and Teitelbaum, Bernard R., to United Geophysical Corporation. Method of producing underwater seismic waves an apparatus therefor. 3,711,824, 1-16-73, Cl. 340-7.00r.

Farrow and Jackson Limited: *See—*
Nicholls, Arthur Ernest, 3,776,285.

Farrow, Roger M.; Kimber, Anthony B.; Colf, John Barrington; Miles, John Walter; and Griffiths, Graham Ernest, to Balston, W. & R., (Industrial) Limited. Filter tube containing a self-sealing filter tube. 3,767,054, 10-23-73, Cl. 210-232.000.

Farrow, Vernon J. Dual propulsion tricycle. 3,759,339, 9-18-73, Cl. 180-27.000.

Farstad, Arnold J.: *See—*
Linfield, Robert F.; Farstad, Arnold J.; Allen, James W.; and Ball, Lawrence, 3,740,488.

Farthing, Winfield H.; and Frisbie, Herbert F., to United States of America, National Aeronautics and Space Administration. Device for determining relative angular position between a spacecraft and a radiation emitting celestial body. 3,744,913, 7-10-73, C. 356-141.000.

Farukhi, Mohammed R.: *See—*
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Farwell, Harry Russell: *See—*
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Black, James A.; and Farwell, Harry Russell, 3,780,651.
Black, James A.; and Farwell, Harry Russell, 3,780,652.

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Fasano, Ronald F.: *See—*
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Fasano, Ronald F.; Hatch, Michael R.; and Riggins, James E., to International Business Machines Corporation. Arm vibration damper. 3,713,121, 1-23-73, Cl. 340-174.10e.

Fasching, George E.; and Patton, George H., to United States of America, Atomic Energy Commission. Pulse processing system. 3,747,001, 7-17-73, Cl. 328-116.000.

Fasching, Herman J.; and Kasel, John A., to Sperry Rand Corporation. Method of thin coating a memory stack. 3,775,215, 11-27-73, Cl. 156-208.000.

Faschinger, Franz: *See—*
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Fasciati, Alfred: *See—*
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Fasco Industries, Inc.: *See—*
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Hire, Charles John; and Luke, George C., 3,720,899.
Hire, Charles John, 3,747,039.
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Fashion Tress, Inc.: *See—*
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Fassbender, Frederick A., to Frank, S. M., & Co., Inc. Smokers pipe. 3,774,624, 11-27-73, Cl. 131-201.000.

Fassbinder, Hans Georg: *See—*
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Fassbinder, Hans-Georg: *See—*
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O'Connor, Donald J.; and Fast, Clarence R., 3,713,393.

Fast, Clarence R.; and Mallinger, Morton A., to Amoco Production Company. Plugging of fractures in underground formations. 3,713,489, 1-30-73, Cl. 166-292.000.

Fast, Clarence R., to Amoco Production Company. Thickened nitromethane explosive containing encapsulated sensitizer. 3,713,915, 1-30-73, Cl. 149-2.000.

Fast, Clarence R.; Wilder, Lawrence B.; and Veatch, Ralph W., Jr., to Amoco Production Company. Use of fluidic pressure fluctuation generator to stimulate underground formations. 3,743,017, 7-3-73, Cl. 166-249.000.

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Fastener Corporation: *See—*
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Mosetich, Ronald J.; and Mosetich, Joseph, 3,729,885.
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Fastmask Company: *See—*
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Fastnacht, Guido: *See—*
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Fastner, Thorwald; and Papp, Gerhard, to Vereinigte Osterreichische Eisen-und Stahlwerke Aktiengesellschaft. Method for the production of killed, unalloyed or low-alloy, aluminum containing steel with low carbon content. 3,730,704, 5-1-73, Cl. 75-129.000.

Fastway Fasteners, Inc.: *See—*
Ptak, Wilbur F., 3,765,295.
Schuplin, Jerome T., 3,720,395.
Schuplin, Jerome T., 3,737,128.
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Fathauer, George H.; and Fathauer, David F., to Dickey-john Corporation. Electronic planter monitor. 3,723,989, 3-27-73, Cl. 340-259.000.

Fathauer, George H., to Masco Corporation, mesne. Signal-selecting radio receiver. 3,725,788, 4-3-73, Cl. 325-469.000.

Fathauer, George H., to Dickey-john Corporation. Slow rotational speed alarm. 3,739,367; 6-12-73, Cl. 340-271.000.

Fathauer, George H., to Burrows Equipment Company. Moisture tester having temperature controlled variable time delay circuit. 3,743,930, 7-3-73, Cl. 324-61.00r.

Fathauer, George H., to Burrows Equipment Company. Digital reading moisture tester. 3,761,810, 9-25-73, Cl. 324-61.00r.

Fathauer, Jack E.; and Gottlieb, Carl R., to Midland-Ross Corporation. Container-spreader spacing apparatus. 3,747,970, 7-24-73, Cl. 294-81.0sf.

Fatt, Irving; and Kitrilakis, Sotiris. Conjunctival device. 3,769,961, 11-6-73, Cl. 128-2.00t.

Fattore, Vittorio; Milanese, San Donato; Mazzei, Marcello; and Notari, Bruno, to Snam Progetti S.p.A. Process for disproportionating the olefins. 3,764,635, 10-9-73, Cl. 260-685.00d.

Fattori, Lazzaro A. Manufacture of plastic bottles by injection and blow molding. 3,754,068, 8-21-73, Cl. 264-97.000.

Fatula, James J., to Ryman Engineering Company. Indexing apparatus. 3,733,929, 5-22-73, Cl. 74-822.000.

Fau, Maurice. Partitions. 3,765,342, 10-16-73, Cl. 105-376.000.

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Faul, Joseph C.: *See—*
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Faulbecker, Gerd, to Gelenkwellenbau GmbH. Roller bearing, especially for the bearing of the star pin of a universal joint. 3,726,577, 4-10-73, Cl. 308-212.000.

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Faulhaber, Paul W., to Eastman Kodak Company. Chemical composition and process. 3,747,223, 7-24-73, Cl. 34-9.000.

Faulk, Joseph H., to Atlantic Richfield Company. Well drilling. 3,722,608, 3-27-73, Cl. 175-65.000.

Faulkner, Arthur M., to Plessey Company Limited, The. Jointing clips for insulated electric wires. 3,715,456, 2-6-73, Cl. 174-84.00c.

Faulkner, Doris Clay; and Swann, Hal R., Jr. Knock-down sofa. 3,774,966, 11-27-73, Cl. 297-440.000.

Faulkner, Douglas W.: *See—*
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Faulkner Engineering Limited: *See—*
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Faulkner, Hubert D.; and Requa, Stanley D., to Recognition Equipment Incorporated. Bar/half-bar optical code reader. 3,780,270, 12-18-73, Cl. 235-61.11e.

Faulkner, Richard Dale: *See—*
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Faulstich, Eugene W. Support mounting assembly. 3,750,845, 8-7-73, Cl. 182-127.000.

Faulstich, Marga; and Neuroth, Norbert, to Jenaer Glaswerk Schott & Gen. Glass compositions for ultrasonic delayed action lines. 3,723,143, 3-27-73, Cl. 106-53.000.

Faulstich, Marga; and Ritze, Willy. Optical glasses. 3,740,242, 6-19-73, Cl. 106-54.000.

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Fauquembergue, Jean G.; Lingrand, Michel; Peltier, Henri; and Chatourel, Pierre, to Regie Nationale des Usines Renault. Centrifugal casting apparatus with chill mold holding furnace. 3,749,153, 7-31-73, Cl. 164-295.000.

Fauran, Claude P.; Eberle, Jeannine A.; Raynaud, Guy M.; Gouret, Claude J.; Thomas, Janine M.; and Huguet, Gerard J., to Delalande S.A. Dibenzo (a-d) cycloheptad (or tri) ene-5:2'-dioxalanes (i,z). 3,726,900, 4-10-73, Cl. 260-340.900.

Fauran, Claude P.; Turin, Michel J.; Raynaud, Guy M.; and Pourrias, Bernard M., to Delalande S.A. Pyrrolidinocarbonylmethyl piperazino methyl indole. 3,733,324, 5-15-73, Cl. 260-268.0bc.

Fauran, Claude P.; Turin, Michel J.; Raynaud, Guy M.; and Pourrias, Bernard M., to Delalande S.A. Amides derived from the esters of 1-piperazine propionic acids, their method of preparation and their application to therapeutics. 3,753,984, 8-21-73, Cl. 260240.00j.

Fauran, Claude P.; Douzon, Colette A.; Huguet, Gerhard J.; Raynaud, Guy M.; and Gouret, Claude J., to Delalande S.A. Derivatives of 3-aminocarbonyl-2-oxazolidinone and their process of preparation. 3,754,000, 8-21-73, Cl. 260-307.00c.

Fauran, Claude P.; Eberle, Jeannine A.; Raynaud, Guy M.; and Thomas, Janine M., to Delalande S.A. Novel-2-acryloyl benzimidazoles, their process of preparation and their therapeutic application. 3,755,314, 8-28-73, Cl. 260-240.00j.

Fauran, Claude P.; Raynaud, Guy M.; Douzon, Colette A.; and Thomas, Janine M., to Delalande S.A. 2-Substituted-4-propargyloxymethyl-y-butyrolactones. 3,755,370, 8-28-73, Cl. 260-343.000.

Fauran, Claude P.; Eberle, Jeannine A.; Raynaud, Guy M.; and Bailly, Yves G., to Delalande S.A. Novel derivatives of 1-cinnamyl benzimidazole, their process of preparation and their therapeutic application. 3,758,459, 9-11-73, Cl. 260-240.00k.

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Faure, Alphonse W.; and Caldwell, Harold L., to C.S.S. Machine and Tool Company, Inc. Safety valve system for glassware forming machine. 3,737,296, 6-5-73, Cl. 65-159.000.
Fauri, Jose Ramon. Lamp shade. 3,780,287, 12-18-73, Cl. 240-108.00d.
Fauroux, Jean Philippe, to Societe Anonyme dite: Societe Nationale des Petroles d'Aquitaine. Electric gas-discharge lamp. 3,740,604, 6-19-73, Cl. 313-220.000.
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Fausel, Charles A.; and Lorenz, Allan A., to Teletype Corporation. Digitizer. 3,758,949, 9-18-73, Cl. 33-1.00m.
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Faust, John P.; Jache, Albert W.; and Klanica, Andrew J., to Olin Mathieson Chemical Corporation. Preparation of alkali metal hexafluorochlorates. 3,733,396, 5-15-73, Cl. 423-466.000.
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Faust, Werner, to Aktiengesellschaft Brown, Boveri & Cie. Compound electrical circuit unit comprising a main power type thyristor and auxiliary control semiconductor elements structurally and electrically united to form a compact assembly. 3,708,732, 1-2-7, Cl. 317-235.00r.
Faust, Werner; Beriger, Conrad; and Bossi, Hans Jurg, to Aktiengesellschaft Brown, Boveri & Cie. Pulse transformer for controlled rectifier. 3,771,042, 11-6-73, Cl. 321-11.000.
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Fehling, Hans-Reinhard; Hase, Horst; and Kutzer, Hans-Joachim, to Didier-Werke A.G. Method of remelting a frozen metal plug in the ceramic nozzle of a metallurgical vessel. 3,779,742, 12-18-73, Cl. 75-46.000.

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Fehrn-Christensen, Vagn Christian Albert. Pressure-sensitive adhesive tape. 3,732,122, 5-8-73, Cl. 117-122.0pf.

Fehrs, Hellmuth, to Friedrich, Joh. Behrens. Safety device on a compressed air-operated drive-in apparatus to drive-in fasteners. 3,713,573, 1-30-73, Cl. 227-8.000.

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Feigel, Harold J.; Reizenstein, Harry S.; and Bloch, Gilbert, to FMC Corporation, mesne. Device for feeding and folding the trailing top flap of a container for closing the container. 3,714,757, 2-6-73, Cl. 53-75.000.

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Feiler, William A.; and Shen, Chung Yu, to Monsanto Company. Solid nitrilotriacetate-iron and zinc metal complexes. 3,719,694, 3-6-73, Cl. 260-429.900.

Feiler, William A., Jr., to Monsanto Company. Process for the prevention of corrosion. 3,738,806, 6-12-73, Cl. 21-2.700.

Fein, Harry. Asynchronous data transmission apparatus and method. 3,708,752, 1-2-73, Cl. 325-38.000.

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Fein, Marvin M.; and Paustian, John E., to Thiokol Chemical Corporation. Process for preparing hydrozinium diperchlorate. 3,739,059, 6-12-73, Cl. 423-386.000.

Fein, Marvin Michael; and Roderick, John James, to Dart Industries, Inc. Metal halide-ester reaction process and compositions. 3,721,693, 3-20-73, Cl. 260-448.00r.

Feinberg, Irving; and Heine, Henry, to Presto Lock Co.; division of Kidde, Walter, & Company, Inc. Combination padlock. 3,720,082, 3-13-73, Cl. 70-25.000.

Feinberg, Jacob Howard. Photopolymerizable epoxy systems containing substituted cyclic amides or substituted ureas as gelation inhibitors. 3,711,390, 1-16-73, Cl. 204-159.110.

Feinberg, Jacob Howard, to American Can Company. Photopolymerizable epoxy systems containing sulfoxide gelation inhibitors. 3,711,391, 1-16-73, Cl. 204-159.110.

Feinberg, Sheldon N. Method for preparing a specimen. 3,737,335, 6-5-73, Cl. 117-72.000.

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Feiner, Alfred, to Strabag Bau-A.G. Dam having an internal apron and means for indicating leakage of apron. 3,779,022, 12-18-73, Cl. 61-31.000.

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Feinleib, Julius, to Energy Conversion Devices, Inc. Data storage system with coarse and fine directing means. 3,737,877, 6-5-73, Cl. 340-173.0lt.

Feinler, Raimund, to Maschinen-Konstruktions-Gesellschaft mit beschrankter Haftung, Firma. Adjustable mounting for shaft-supported elements. 3,730,569, 5-1-73, Cl. 287-52.080.

Feinstein, Sumner Sheldon; Golner, Jerold Julius; D'Amato, Salvatore; and Trunk, Eugene John, to Borden, Inc. Traversing film cutter. 3,748,939, 7-31-73, Cl. 84-370.000.

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Feist, Wieland; and Von Chamier, Busso, to Jenoptik Jena G.m.b.H. Angle-measuring device. 3,732,015, 5-8-73, Cl. 356-139.000.

Feistel, Karl Heinz, to Goltermann, Wandel u. Noninductive equalizing network. 3,743,957, 7-3-73, Cl. 330-85.000.

Feistel, Karl Heinz, to Goltermann, Wandel u. Equalizing network. 3,753,140, 8-14-73, Cl. 335-109.000.

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Feit, Leo. Water resistant and water repellent paint compositions containing a latex of a vinyl ester polymer. 3,715,327, 2-6-73, Cl. 260-17.00r.

Feit, Peter Werner; and Nielsen, Ole Bent Tvaermose, to Lovens Kemiske Fabrik Produktionsaktieselskab. Sulfamyl-anthranilic acids. 3,755,383, 8-28-73, Cl. 260-397.700.

Feit, Peter Werner; and Nielsen, Ole Bent Ivaermose, to Lovens Kemiske Fabrik Produktionsaktieselskab. Certain sulfamylbenzoic acids, esters thereof, and pharmaceutically acceptable salts thereof. 3,758,522, 9-11-73, Cl. 260-397.700.

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Fekete, Frank; and Pulman, Leonard J., to Koppers Company, Inc. Production of composite fiber reinforced resin articles. 3,730,808, 5-1-73, Cl. 156-332.000.

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Fekete, Imre, to Thomas & Betts Corporation. Semi-automatic tying and cutting tool for harnessing and wire bundling. 3,752,199, 8-14-73, Cl. 140-123.600.

Fekete, Joseph. Collapsible hat with retaining means. 3,739,401, 6-19-73, Cl. 2-175.000.

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Fekete, Lancelot A. Condensate withdrawal from vortex tube in gas liquification circuit. 3,775,988, 12-4-73, Cl. 62-23.000.

Felbarg, Hector. Endotracheal tube means. 3,754,554, 8-28-73, Cl. 128-351.000.

Felber, Norbert, to Pretema AG. Apparatus for dyeing textile material. 3,756,045, 9-4-73, Cl. 68-189.000.

Felcheck, Marvin; Kirschner, Wallace; Jarosik, Robert J.; and Capes, Charles W., to Pitney Bowes-Alpex, Inc. Parallel-access data file system. 3,725,870, 4-3-73, Cl. 340-172.500.



Felciai, Laurent. Tower-construction with overhangs to support lights

Felciai, Laurent. Tower-construction with overhangs to support lightweight dwellings. 3,719,012, 3-6-73, Cl. 52-73.000.
Felczak, Theodore F., to Kendall Company, The, mesne. Eccentric locking device for surgical drainage members. 3,765,420, 10-16-73, Cl. 128-347.000.
Feldberg, Leonard H., to Burndy Corporation. Connector for integrated package. 3,725,842, 4-3-73, Cl. 339-17.0cf.
Feldcamp, Edward George. Manufacture of extrusion tools. 3,768,344, 10-30-73, Cl. 76-107.00r.
Felder, John W., Jr.; and Barnett, J. Sterling, to L.S. Associates, Inc. Method and apparatus for fabricating glass fiber cushioning material. 3,736,215, 5-29-73, Cl. 161-36.000.
Felder, Winfried; and Kuhn, Walter, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Gear shift control for automotive transmissions and the like. 3,718,056, 2-27-73, Cl. 74-865.000.
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Feldman, David; Lesh, Nathan George; and Worobey, Walter, to Bell Telephone Laboratories, Incorporated. Manufacture of beam-crossovers for integrated circuits. 3,769,108, 10-30-73, Cl. 156-3.000.
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Feldman, Fritz K., to Pacific Technica Corporation. Tracer projectiles. 3,750,585, 8-7-73, Cl. 102-87.000.
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Feldman, Julian; and Thomas, Martin, to National Distillers and Chemical Corporation. 2-Methylene glutarimide and process for preparing the same. 3,720,679, 3-13-73, Cl. 260-281.000.
Feldman, Julian; and Saffer, Bernard A., to National Distillers and Chemical Corporation. Acrylonitrile dimers. 3,732,281, 5-8-73, Cl. 260-465.80d.
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Feldman, Nicholas, to Esso Research and Engineering Company. Middle distillate fuel containing additive combination to increase low temperature flowability. 3,773,478, 11-20-73, Cl. 44-62.000.
Feldman, Robert G., to Pyroil Company, Inc. Engine block heater. 3,766,356, 10-16-73, Cl. 219-208.000.
Feldman, Rubin, to Tsi, Inc. Apparatus for sealing and shrinking plastic film. 3,721,804, 3-20-73, Cl. 219-388.000.
Feldman, Sidney, to United States of America, Navy. Sextant with digital readout and night viewing capability. 3,752,591, 8-14-73, Cl. 356-247.000.
Feldman, Sol, to Oxford Metal Products Co., Inc. Bed frame with headboard support brace. 3,763,508, 10-9-73, Cl. 5-131.000.
Feldmann, Fritz K., to Pacific Technica Corporation. Discarding sabot projectiles. 3,714,900, 2-6-73, Cl. 102-93.000.
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Feldstein, Nathan; and Weiner, Joel Ana, to RCA Corporation. Electroless copper plating solutions with accelerated plating rates. 3,720,525, 3-13-73, Cl. 106-1.000.
Feldstein, Nathan, to RCA Corporation. Electroless cobalt plating bath and process. 3,745,039, 7-10-73, Cl. 117-47.00r.
Feldstein, Nathan; and Law, Harold Bell, to RCA Corporation. Method of repairing or depositing a pattern of metal plated areas on an insulating substrate. 3,753,816, 8-21-73, Cl. 156-11.000.
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Felicetta, Vincent F.; and King, Ellis Gray, to Georgia-Pacific Corporation. Fractionation by gel permeation. 3,759,826, 9-18-73, Cl. 210-31.00c.
Felix, Ernst, to Zellweger Ltd. Method and apparatus for regularizing the output of drawing frames of the kind used in textile spinning. 3,744,093, 7-10-73, Cl. 19-240.000.
Felix, Ernst, to Zellweger Ltd. Method of and an apparatus for determining the cross-section of products of the textile industry, especially that of yarns, rovings and slivers. 3,750,461, 8-7-73, Cl. 73-67.500.
Felix, Ernst, to Zellweger A.G. Electronic monitoring apparatus and monitoring method for textile materials. 3,756,524, 9-4-73, Cl. 242-36.000.
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Fell, Ferol S.; and Long, William D., to Hesston Corporation. Gear transmission having mechanism for reverse grinding. 3,732,740, 5-15-73, Cl. 74-15.200.
Fell, Ferol S.; Long, William D.; and McMillen, Kenneth R., to Hesston Corporation. Three-row crop header for forage harvesters. 3,736,733, 6-5-73, Cl. 56-98.000.
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Feller, Arthur G. Latch-lock mechanism for cabinet door. 3,713,682, 1-30-73, Cl. 292-80.000.
Feller, Gilbert, to Metalem S.A. Ring member for a watch dial. 3,724,202, 4-3-73, Cl. 58-127.00r.
Feller, Gilbert, to Metalem S.A. Method for attaching applique or applied chapters formed of metal and equipped with circular-cylindrical foot portion to a dial. 3,769,676, 11-6-73, Cl. 29-177.000.
Feller, Jay M., to FMC Corporation. Regenerated cellulose filaments containing a flame-retardant phosphonitrilate polymer and an organic phosphate salt to reduce filament to metal friction. 3,732,683, 5-15-73, Cl. 57-140.00r.



Feller, Raymond L.; and Franklin, David W., to United States Steel Corporation. Strip uncoiling device. 3,746,229, 7-17-73, Cl. 226-91.000.
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Felser, Joseph, Jr. Bearing removal fixture. 3,742,570, 7-3-73, Cl. 29-201.000.
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Felten, Edward J.; and Pearson, Kipp G., to United Aircraft Corporation. Method of making fuel cell electrode. 3,765,947, 10-16-73, Cl. 136-120.0fc.
Felter, John V. Turbine ventilators. 3,739,708, 6-19-73, Cl. 98-72.000.
Feltgen, Karl-Heinz; and Espanion, Gunther, to Bayer Aktiengesellschaft. Process for the continuous production of a random-filament fleece. 3,781,393, 12-25-73, Cl. 264-89.000.
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Feltzin, Joseph; Kuehn, Erich; and Rudkin, George O., Jr., to ICI America Inc. Photoconductive compositions and elements employing polyoxyalkylene bisphenol a fumarates as binders. 3,709,684, 1-9-73, Cl. 96-1.500.
Feltzin, Joseph; and Tehrani, Nadji, to ICI America Inc. Polyethers and polyurethanes. 3,737,391, 6-5-73, Cl. 252-182.000.
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Fendrich, Charles Nelson, Jr., to AMP Incorporated. Power supply protection circuit. 3,714,511, 1-30-73, Cl. 317-22.000.
Fendrich, Charles Nelson, Jr., to AMP Incorporated. Regulated floating output. 3,745,363, 7-10-73, Cl. 307-34.000.
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Fendt, X., and Co., Maschinen- und Schlepperfabrik: *See—*
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Fenne, Ivor, to C.A.V. Limited. Fuel injection systems. 3,747,857, 7-24-73, Cl. 239-90.000.
Fenne, Ivor, to C.A.V. Limited. Injection system for an internal combustion engine. 3,763,832, 10-9-73, Cl. 123-25.00c.
Fenne, Ivor, to C.A.V. Limited. Fuel injection systems. 3,780,716, 12-25-73, Cl. 123-139.0as.
Fenne, Kenneth R., to Motorola, Inc. Sound balancing apparatus. 3,746,788, 7-17-73, Cl. 179-1.0gq.
Fennekers, Johan Barthus, to N.V. Industrieele Handelscombinatie Holland. Boat hull and method of constructing the same. 3,747,551, 7-24-73, Cl. 114-79.00w.
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Fennell, Joseph W. Subsoil aerator for depositing and detonating explosive pellets. 3,716,005, 2-13-73, Cl. 111-1.000.
Fennell, Marcus W. Golf club attachment for determining optimum club head weight. 3,733,077, 5-15-73, Cl. 273-186.00a.
Fennelly, Richard P. Process and apparatus for containment of aqueous pollutants. 3,744,254, 7-10-73, Cl. 61-1.000.
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Fenske, Horst, to VEB Polygraph Leipzig. Method and apparatus for

Fenske, Horst, to VEB Polygraph Leipzig. Method and apparatus for initiating counting and/or disconnecting processes, in particular for printing presses. 3,746,841, 7-17-73, Cl. 235-92.0pk.
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Fentiman, Allison F., Jr.; and Vite, Jean P., to Thompson, Boyce, Institute for Plant Research, Inc. Heterobicyclic compounds and process for their preparation. 3,755,365, 8-28-73, Cl. 260-340.900.
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Fenton, Donald M., to Union Oil Company of California. Hydration of amines to alcohols. 3,714,270, 1-30-73, Cl. 260-632.00r.
Fenton, Donald M., to Union Oil Company of California. Preparation of ortho-substituted aryl phosphines and metal complexes. 3,720,697, 3-13-73, Cl. 260-429.00r.
Fenton, Donald M., to Union Oil Company of California. Conversion of chloroformates to an aldehyde. 3,720,718, 3-13-73, Cl. 260-601.00r.
Fenton, Donald M., to Union Oil Company of California. Decomposition of carbonates to form aldehydes. 3,721,714, 3-20-73, Cl. 260-601.00r.
Fenton, Donald M., to Union Oil Company of California. Alkylation of condensed ring arylols. 3,721,715, 3-20-73, Cl. 260-624.00c.
Fenton, Donald M., to Union Oil Company of California. Preparation of trialkylamines. 3,726,925, 4-10-73, Cl. 260-583.00r.
Fenton, Donald M., to Union Oil Company of California. Catalyzed reaction of an arylamine with an alkylamine to form an N-alkyl substituted arylamine. 3,737,459, 6-5-73, Cl. 260-577.000.
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Fenton, Donald M., to Union Oil Company of California. Production of alcohols. 3,766,279, 10-16-73, Cl. 260-638.00b.
Fenton, Donald M., to Union Oil Company of California. Alcohol amine interchange. 3,767,709, 10-23-73, Cl. 260-583.00r.
Fenton, Donald M., to Union Oil Company of California. Oxidation of alpha aryl alcohols. 3,769,325, 10-30-73, Cl. 260-476.00r.
Fenton, Donald M., to Union Oil Company of California. Preparation of alpha-hydroxyamides. 3,781,351, 12-25-73, Cl. 260-559.00r.
Fenton, Donald M., to Union Oil Company of California. Saturation of unsaturated aldehydes. 3,781,364, 12-25-73, Cl. 260-601.00r.
Fenton, James E.; Samson, Rogelio G.; and Sebestyeh, Thomas M., to Ford Motor Company. Flame sensing system for a turbine engine. 3,747,340, 7-24-73, Cl. 60-223.000.
Fenton, Sidney Desmond, to Storey Brothers and Company Limited. Vehicle seats and other upholstered items. 3,774,968, 11-27-73, Cl. 297-452.000.
Fenton, Sydney Desmond, to Storey Brothers and Company, Limited. Vehicle seats. 3,770,318, 11-6-73, Cl. 297-453.000.
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Ferguson, David E., to Programmatics, Inc. Pre-conditioned division trial quotient dividers. 3,736,413, 5-29-73, Cl. 235-156.000.
Ferguson, Don E.; Haas, Paul A.; and Leuze, Rex E., to United States of America, Atomic Energy Commission. Quantitative recovery of krypton from gas mixtures mainly comprising carbon dioxide. 3,742,720, 7-3-73, Cl. 62-17.000.
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Ferm, Richard L., to Chevron Research Company. White mulch composition. 3,775,147, 11-27-73, Cl. 106-271.000.
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Ferrari, Leonard A., to Bell & Howell Company. Method for distinguishing pauses in recorded features during replay thereof. 3,723,666, 3-27-73, Cl. 179-100.20s.
Ferrari, Patrick T.; and Farnsworth, Clinton E., to Xerox Corporation. Sheet separating apparatus. 3,713,645, 1-30-73, Cl. 271-18.00r.
Ferrari, Rodolfo: *See—*
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Ferraris, Enrico, to Officine Precisione Luserna S.p.A. Friction coupling, particularly for the collecting reel of a cinematographic projector or the like. 3,734,255, 5-22-73, Cl. 192-36.000.
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Ferraro, Ralph J., to Ward Leonard Electric Co., Inc., mesne. Synchronization of static inverters. 3,710,133, 1-9-73, Cl. 307-66.000.
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Ferrell, James K., to Sanders Associates, Inc. Unilateral heat transfer apparatus. 3,754,594, 8-28-73, Cl. 165-32.000.
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Ferrentino, Antonio, to Industrie Pirelli S.p.A. Oil compensation system for electric power cables impregnated with insulating oil. 3,739,803, 6-19-73, Cl. 137-255.000.
Ferrentino, Antonio, to Industrie Pirelli S.p.A. Pumping apparatus with two separated fluid systems. 3,749,526, 7-31-73, Cl. 417-390.000.
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Ferrer-Salat, Carlos; Ferrer-Batlles, Jorge; and Colome-Riera, Juan, to Laboratorios Ferrer S.L. Certain diisoniazid methane sulfonate complexes. 3,718,655, 2-27-73, Cl. 260-294.80h.
Ferreri, Vincent: *See—*
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Ferrier, Noel Henri, to Societe d'Etudes et de Realisations Electroniques. Device for measuring the position of a receding moving object in relation to a reference system. 3,768,909, 10-30-73, Cl. 356-138.000.
Ferrier, Ted L., Jr. Combined magazine receptacle for used blades and protective cover for safety razor heads having blades therein. 3,760,938, 9-25-73, Cl. 206-16.0bc.
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Ferris, De Lacy F., to United States of America, Navy, mesne. Expulsion bladder. 3,720,389, 3-13-73, Cl. 244-135.00b.
Ferris, Donald L., to United Aircraft Corporation. Helicopter blade folding and locking mechanism. 3,743,441, 7-3-73, Cl. 416-143.000.
Ferris, Donald L.; and Zincone, Robert, to United Aircraft Corporation. Helicopter rotor with redundant load carrying capability. 3,761,199, 9-25-73, Cl. 416-134.000.
Ferris, Donald L.; and Vacca, Luigi, to United Aircraft Corporation. Helicopter blade pitch lock. 3,764,229, 10-9-73, Cl. 416-114.000.
Ferris, Donald L.; and Worrell, Robert J., to United Aircraft Corporation. Helicopter rotor blade. 3,765,124, 10-16-73, Cl. 416-226.000.
Ferris, Donald L., to United Aircraft Corporation. Elastomeric helicopter rotor head with dynamic and static blade coning and droop stops. 3,778,189, 12-11-73, Cl. 416-140.000.
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Ferstenberg, Charles, to Tenneco Chemicals, Inc. Method for continuously forming elongated cylinder of polyurethane form. 3,729,534, 4-24-73, Cl. 264-54.000.
Fertig, Glenn Howard, to Mine Safety Appliances Company. Non-dispersive infrared fluid analyzer with compensation for absorptive and mechanical effects of ambient conditions. 3,770,974, 11-6-73, Cl. 250-344.000.
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Fertik, Ira J.; Huck, Charles M.; and Ashley, Charles R., to Vernitron Medical Products, Inc. Aspiration device for body fluids. 3,768,478, 10-30-73, Cl. 128-276.000.
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Fertl, Walter H., to Continental Oil Company. Abnormal pressure detection during drilling of a well. 3,766,994, 10-23-73, Cl. 175-50.000.
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Fest, Christa; and Hammann, Ingeborg, to Farbenfabriken Bayer Aktiengesellschaft. Pyrazolo-(thiono) phosphoric (phosphonic) acid esters. 3,723,456, 3-27-73, Cl. 260-310.00r.
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Fetzer, Gustav, to Zinser-Textilmaschinen Gesellschaft mit beschrankter Haftung. Electromagnetic brake incorporated in spinning or twisting spindles. 3,749,955, 7-31-73, Cl. 310-93.000.
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Fibreboard Corporation: *See—*
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Ficalora, Peter J.: *See—*
Margave, John L.; Bautista, Renato G.; Ficalora, Peter J.; and Badachhape, Ramachandra B., 3,711,595.

Fichaux, Henri, to Battelle Memorial Institute. Process and apparatus for descaling oxidized sheet metal. 3,712,833, 1-23-73, Cl. 134-1.000.

Fichels, Harry A.; and Grandbouche, Emil A. Trailer hitch guide. 3,773,356, 11-20-73, Cl. 280-477.000.

Ficholz, Arthur H.; and McCambridge, James E., to Central Quality Industries, Inc. Vacuum cleaner. 3,775,951, 12-4-73, Cl. 55-417.000.

Fichot, Robert: *See—*
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Fichte, Frank: *See—*
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Schulz, Horst, 3,709,341.
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Wossner, Felix, 3,709,517.

Fichtel, Dieter, to American Store Equipment Corporation. Wall easel. 3,719,766, 3-6-73, Cl. 35-63.000.

Fichteman, William Lee, to Du Pont de Nemours, E. I., and Company. Viscosity stable chloroprene/sulfur polymer and its preparation. 3,766,121, 10-16-73, Cl. 260-29.7so.

Fichter, Barry S. Fluidic flushing mechanism. 3,714,954, 2-6-73, Cl. 137-829.000.

Fichter, Barry S., to American Standard, Inc. Spray nozzle. 3,776,460, 12-4-73, Cl. 239-101.000.

Fichter, Kenneth L., to United States of America, Army. Method for melt loading explosives. 3,726,182, 4-10-73, Cl. 86-1.00r.

Fichter, Manfred: *See—*
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Fichter, Walter; Armbruster, Otto; and Assmus, Friedrich, to Gebruder Junghans G.m.b.H., Firma. Starting control device for running events. 3,724,843, 4-3-73, Cl. 272-59.00a.

Fichter, Walter; Armbruster, Otto; and King, Josef, to Gebruder Junghans G.m.b.H., Firma. Track mounted rail and adjustable starting block therefor. 3,746,335, 7-17-73, Cl. 272-59.00a.

Fichtner, Roland H., to Electrohome Limited. Stereophonic FM receivers having decoders employing field effect transistors. 3,728,491, 4-17-73, Cl. 179-15.0bt.

Fichtner, Rudi: *See—*
Giebel, Gerhard; and Fichtner, Rudi, 3,715,768.
Muhlbach, Anton; and Fichtner, Rudi, 3,715,767.

Fick, Robert L.; and Markey, Allen H., to Dow Chemical Company, The. Sampling device. 3,751,967, 8-14-73, Cl. 173-23.000.

Ficken, Geoffrey Ernest: *See—*
Brown, David Sydney; Ficken, Geoffrey Ernest; and Treherne, Elizabeth Joan, 3,759,931.

Ficken, Geoffrey Ernest; and Squire, Elaine Josephine, to Ilford Limited. Super-sensitized photographic silver halide material. 3,772,033, 11-13-73, Cl. 96-126.000.

Fickenscher, William E.: *See—*
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Fico, Louis; Sheker, Roger N.; Ballou, Raymond J.; and Cosman, David C., to Comtec Industries, Inc. Numerical base translator. 3,748,450, 7-24-73, Cl. 235-155.000.

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Fico, Sally S.; and Manthey, Joseph W., to Eastman Kodak Company. Sensitized photosensitive compounds and elements. 3,772,028, 11-13-73, Cl. 96-88.000.

Fiddler, Theodore E. Clustered molds for injection molding two or more parts in pivotal condition in a frame. 3,737,270, 6-5-73, Cl. 425-242.000.

Fiddler, Theodore E. Self attaching coupling. 3,752,032, 8-14-73, Cl. 85-80.000.

Fidelity Electric Co., Inc.: *See—*
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Fidelity File Box, Inc.: *See—*
Pfaffendorf, James L.; and Johnson, Marlyn D., 3,740,109.

Fiderer, Leo. Method of making printed circuit boards. 3,740,225, 6-19-73, Cl. 96-43.000.

Fiderer, Leo. Apparatus for fabricating a printed circuit board photomaster. 3,756,129, 9-4-73, Cl. 95-1.00r.

Fidi, Werner: *See—*
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Fidi, Werner, to AKG Akustische u. Kino-Gerate Gesellschaft m.b.H. Device for creating artificial reverberation. 3,719,908, 3-6-73, Cl. 333-30.000.

Fidi, Werner, to AKG Akustische u. Kino-Gerate Gesellschaft m.b.H. Arrangement for the mechanical damping of coil springs in devices for the production of artificial reverberation. 3,754,745, 8-28-73, Cl. 267-136.000.



Fidler, Carl E.; and Yancey, John W., to Caterpillar Tractor Company. Flexible seal. 3,773,338, 11-20-73, Cl. 277-95.000.

Fidler, Robert Charles, to McCulloch Corporation. Starter spring assembly tool and method. 3,748,716, 7-31-73, Cl. 29-228.000.

Fidos, Henryk: *See—*
Schreiner, Horst; and Fidos, Henryk, 3,774,427.
Schreiner, Horst; and Fidos, Henryk, 3,780,698.

Fiebelmann, Peter; Neu, Helmut; and Buzzi, Umberto, to European Atomic Energy Community (Euratom). Space nuclear plant. 3,709,781, 1-9-73, Cl. 176-39.000.

Fiebiger, Erich, to Seitz-Werke G.m.b.H. Dosing installation. 3,773,222, 11-20-73, Cl. 222-57.000.

Fiedler, Berhard, to Maschinenfabrik Buckau R. Wolf Aktiengesellschaft. Method and apparatus for processing soluble crystals. 3,730,769, 5-1-73, Cl. 127-19.000.

Fiedler, Dolores E.: *See—*
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Fiedler, Hans J.: *See—*
Fiedler, Vivian G., 3,711,090.

Fiedler, Helmut, to Siemens Aktiengesellschaft. Teleprinter subscriber station apparatus for single current operation with back potential at the subscriber station. 3,773,970, 11-20-73, Cl. 178-3.000.

Fiedler, Horst; Fricker, Ludwig; and Renz, Willi, to Daimler-Benz Aktiengesellschaft. Installation for venting a fuel tank of a motor vehicle provided with expansion tank. 3,769,952, 11-6-73, Cl. 123-136.000.

Fiedler, Martin, to Arrow Pneumatics, Inc. Refrigerated air dryer. 3,722,583, 3-27-73, Cl. 165-156.000.

Fiedler, Max G. Piston structure. 3,742,823, 7-3-73, Cl. 92-219.000.

Fiedler, Vivian G., 50% to Fiedler, Hans J. and 50% to Watanabe, Richard M. Conveyor belt and system having low friction contact surfaces. 3,711,090, 1-16-73, Cl. 272-69.000.

Fiedler, William S., to United States of America, Air Force. Disappearing-reappearing radar chaff and method for production. 3,725,927, 4-3-73, Cl. 343-18.00r.

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Field, Bernard H. Skimmer trap. 3,774,767, 11-27-73, Cl. 210-169.000.

Field, Crosby; deceased (by Hole, Dorothy); Berg, Charles H.; and Norbeck, Margaret R.; executors. Laminated frozen food product. 3,732,114, 5-8-73, Cl. 99-192.000.

Field, Crosby. Ice making machine and method. 3,775,991, 12-4-73, Cl. 62-72.000.

Field, Fred Walker; and Cayon, David Walter, to Deere & Company. Electronically controlled row crop thinning machine. 3,732,931, 5-15-73, Cl. 172-6.000.

Field, Gregory A., to S and R Associates, Inc. Two-way cam cleat. 3,750,611, 8-7-73, Cl. 114-218.000.

Field, Gregory A., to S and R Associates, Inc. Sliding wedge cleat. 3,758,922, 9-18-73, Cl. 221-115.00r.

Field, J. Paul. Apparatus and process for mixing chemicals. 3,743,598, 7-3-73, Cl. 210-49.000.

Field John H., to Sigma Instruments, Inc. Low-inertia synchronous inductor motor. 3,777,196, 12-4-73, Cl. 310-156.000.

Field, Lamar; and Barbee, Robert B., to United States of America, Army. Organic disulfide sulfinic acid compounds. 3,723,513, 3-27-73, Cl. 260-513.700.

Field, Lars. Slalom sled. 3,734,523, 5-22-73, Cl. 280-16.000.

Field, Michael Frank, to Dominion Engineering Works, Limited. Mill roll changing arrangement. 3,733,877, 5-22-73, Cl. 72-239.000.

Field, Milton M.: *See—*
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Belknap, Donald J., 3,762,900.
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Field, Nathan D.: *See—*
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Kiesel, Robert J.; Randall, David I.; Field, Nathan D.; and Rudoff, Stanley, 3,728,319.

Field, Nathan D.; Randall, David I.; and Vogel, Calvin, to GAF Corporation. Preparation of phosphonyl dihalides. 3,711,541, 1-16-73, Cl. 260-543.00p.

Field, Nathan D.; and Williams, Earl P., to GAF Corporation. Novel anhydride interpolymers. 3,723,375, 3-27-73, Cl. 260-29.6ta.

Field, Nathan D.; and Freyermuth, Harlan B., to GAF Corporation. Photosensitive propargyl polymer composition and method of using. 3,725,064, 4-3-73, Cl. 96-35.100.

Field, Nathan D.; and Daniels, Wiley Edgar, to GAF Corporation. Terpolymer latices based on vinyl ether/vinyl chloride copolymers grafted with acrylate esters. 3,770,851, 11-6-73, Cl. 260-884.000.

Field Queen, Incorporated: *See—*
Long, William D.; Fell, Ferol S.; Wells, Bernard L.; and Prichard, John P., 3,739,559.

Field, Thomas R.; and Beckwith, Clinton H., to Jenn-Air Corporation. Dishwasher. 3,709,236, 1-9-73, Cl. 134-104.000.

Field, Thomas R. Ventilated open-air indoor broiler having damper means and control therefor. 3,712,819, 1-23-73, Cl. 99-400.000.

Field, Thomas R., to Jenn-Air Corporation. Power roof exhauster or heat relief vent. 3,715,967, 2-13-73, Cl. 98-42.000.

Field, Thomas R., to Jenn-Air Corporation. Smoke and heat relief vent. 3,728,956, 4-24-73, Cl. 98-86.000.

Field, Thomas R., to Jenn-Air Corporation. Broiler with heat sink means. 3,745,912, 7-17-73, Cl. 99-446.000.

Field, Thomas R., to Jenn-Air Corporation. Damper for ventilating air flow control for indoor open-air cooking device. 3,756,217, 9-4-73, Cl. 126-37.00r.

Field, William E.: *See—*
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Lawson, Lonnie Gravely, 3,748,843.
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Sherrill, Ernest Kohn; and Taylor, John Paul, 3,721,274.
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Fielder, Foreman F. Dental floss tool. 3,766,931, 10-23-73, Cl. 132-92.00a.

Fielder, James C., to Diamond National Corporation. Tabulating type ballot. 3,708,656, 1-2-73, Cl. 235-61.12r.

Fieldhome Equipment Corporation: *See—*
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Fielding, George H.: *See—*
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Fielding, Gordon Wilder. Telephone handset shutter attachment. 3,715,525, 2-6-73, Cl. 179-187.000.

Fielding, Harold Crosbie, to Imperial Chemical Industries Limited. Fluorinated compounds containing functional groups. 3,742,013, 6-26-73, Cl. 260-465.50r.

Fielding, John C., to General Research Corporation. Air-traffic regulating systems. 3,775,767, 11-27-73, Cl. 343-6.50r.

Fielding, John O.: *See—*
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Fielding, Max Jac, to Du Pont de Nemours, E. I., and Company. 2-Fluoro-3-phenyl-2-cyclobutenone as plant auxin. 3,737,298, 6-5-73, Cl. 71-77.000.

Fielding, Michael: *See—*
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Fielding, Sol B. Sheath assembly for douche nozzle. 3,709,224, 1-9-73, Cl. 128-239.000.

Fielding, Sol B. Vaginal treatment assembly. 3,731,682, 5-8-73, Cl. 128-239.000.

Fields, Charles E.: *See—*
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Fields, Donald L.: *See—*
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Fields, Ellis K.: *See—*
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Fields, Gary D., to Eastman Kodak Company. Negative-positive, positive-positive exposure station. 3,761,171, 9-25-73, Cl. 355-3.000.

Fields, Gary D., to Eastman Kodak Company. Method and apparatus for making multiple copies from an original. 3,778,149, 12-11-73, Cl. 355-16.000.

Fields, Grover G., to Columbia Broadcasting System, Inc. Pedal guitar with selective string controlling arrangement. 3,733,954, 5-22-73, Cl. 84-312.000.

Fields, Harold E. Motor driven map viewer and tracking device. 3,713,236, 1-30-73, Cl. 40-33.000.

Fields, Irvin L. Toy airplane of foldable sheet material and launching means for and method of making same. 3,768,198, 10-30-73, Cl. 46-73.000.

Fields, Jimmie, 30% to Lee, Raymond, Organization, Inc., The. Board game. 3,762,713, 10-2-73, Cl. 273-130.00r.

Fields, Marvin C.; and Meyer, James L., to United States Steel Corporation. System for removing solids from coal liquefaction reactor effluents. 3,755,136, 8-28-73, Cl. 208-8.000.

Fields, Marvin C.; and Sumansky, Ladislaus Walter, to United States Steel Corporation. Process for removing nitric oxide from gaseous mixtures. 3,773,897, 11-20-73, Cl. 423-235.000.

Fields, Murray E., to Honey Tien Products, Inc. Compositions of matter including dried honey. 3,780,185, 12-18-73, Cl. 426-72.000.

Fields, Thomas Lynn: *See—*
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Fields, Walter M.; and Mayer, Richard W., Softwood-hardwood, Filaching, Ed...

Fields, Walter M.; and Mayer, Richard W. Softwood-hardwood laminated panel. 3,730,820, 5-1-73, Cl. 161-38.000.

Fienup, Wilbur G.; and Henderson, James R., to Boise Cascade Corporation. Pressurized dough container. 3,712,534, 1-23-73, Cl. 229-51.0bp.

Fier, Edward J., Jr., to United States Steel Corporation. Chick feeder lid structures. 3,712,270, 1-23-73, Cl. 119-61.000.

Fierfort, Claude, to Schlumberger Technology Corporation. Methods and apparatus for investigating multiphasic well fluids. 3,721,121, 3-20-73, Cl. 73-155.000.

Fierro Esponja, S.A.: *See—*
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Celada, Juan; Villarreal, David; and MacKay, Patrick W., 3,765,872.
Celada, Juan; Mackay, Patrick W.; Garcia, Gilberto Guerra; Martinez, Enrique R.; and Villasenor, Antonio, 3,770,421.
Celada, Juan; MacKay, Patrick W.; and de la Pena, Ramon, 3,779,741.

Fierstien, Gary N.; and Jacobs, Paul H., to Motorola, Inc. Broadband radio frequency ferrite transformer providing close coupling. 3,721,932, 3-20-73, Cl. 336-65.000.

Fierstine, Burton A., 1/2 to Shively Bros., Inc. Fluid devices. 3,761,206, 9-25-73, Cl. 418-16.000.

Fieser, Garland E.: *See—*
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Fiet, Owen Orlando, to TRW Inc. Density measuring instrument having electromagnetic suspension with a variable spring constant. 3,726,128, 4-10-73, Cl. 73-30.000.

Fietz, William A.; and Yenni, Donald M., to Union Carbide Corporation. Method of fabricating superconducting coils. 3,733,692, 5-22-73, Cl. 29-599.000.

Fietzer, Ivan A.; Filipowicz, Edwin A.; and Kuckenbecker, Morris W., to American Can Company. Dispenser carton and holder. 3,765,565, 10-16-73, Cl. 221-46.000.

Fife Corporation: *See—*
Chenot, Louis A., 3,721,481.

Fife, Rodger L., to Georgia-Pacific Corporation. Treated paper sheet. 3,758,377, 9-11-73, Cl. 162-163.000.

Fifield, Thomas B. Circuit board and method of making circuit connections. 3,710,196, 1-9-73, Cl. 317-101.0cc.

Fifth Dimension Inc.: *See—*
Bitko, Sheldon S., 3,715,546.

Fifth Third Bank, The, mesne: *See—*
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Figari, Jorge Galvez. Compressing and packaging machine for soft and semi-soft materials. 3,754,373, 8-28-73, Cl. 53-124.00a.

Figiel, Francis John, to Allied Chemical Corporation. Process and apparatus for removing liquids from solid surfaces. 3,710,450, 1-16-73, Cl. 34-9.000.

Figlin, Murray S.; and Boenisch, John R., to Ampeg Company, Inc., The. Clamp for a reverberation unit. 3,715,676, 2-6-73, Cl. 333-30.00r.

Figliuzzi, Vincent D. Pilot light burner arrangement. 3,709,653, 1-9-73, Cl. 431-279.000.

Figov, Murray: *See—*
Islam, Rafiqul; Garnish, Sidney G.; Figov, Murray; and Mustacchi, Henry, 3,758,307.

Figueras, Alfredo, Jr.: *See—*
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Figueras, John; and Stern, Max H., to Eastman Kodak Company. Diffusible color coupler moieties are released from nondiffusible M-sulfoamido-anilines or M-sulfoamidophenols diffusion transfer photographic products and processes. 3,734,726, 5-22-73, Cl. 96-3000.

Figwer, Eduard, to Inteco Establishment. Device for the production of tube sockets. 3,728,065, 4-17-73, Cl. 425-392.000.

Fijal, Walter R., to BASF Wyandotte Corporation. Polyurethane products produced from a sucrose-ethylene diamine co-initiated polyether polyol. 3,763,111, 10-2-73, Cl. 260-77.5aq.

Fijalkowski, Joseph J., to Harper-Wyman Company. Gas fired cooker ignition system. 3,758,264, 9-11-73, Cl. 431-191.000.

Fike, Lester L., Jr.: *See—*
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Fike, Lester L., Sr.; and Fike, Lester L., Jr., to Fike Metal Products Corporation. Remotely actuatable portable fire suppression apparatus. 3,762,479, 10-2-73, Cl. 169-28.000.

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Fike, Lester L., Sr.; and Fike, Lester L., Jr., 3,762,479.

Fike, Robert R., to Dow Chemical Company, The. Polarographic electrode method. 3,752,744, 8-14-73, Cl. 204-1.00t.

Fike, Roy Albert, to Owens-Illinois, Inc. Method of making glass articles. 3,734,704, 5-22-73, Cl. 65-69.000.

Fikse, Tyman H.: *See—*
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Fila, Dominick, to Tri-Line Electric Co., Inc. Rotary switch assembly. 3,718,786, 2-27-73, Cl. 200-63.000.

Filachione, Edward M.: *See—*
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Filatov, Andrei Dmitrievich: *See—*
Freidenberg, Anatoly Samuilovich; Basias, Igor Pavlovich; Shakhlin, Vladimir Ilich; Trifonov, Alexei Grigorievich; Shunin, Timofei Grigorievich; Filatov, Andrei Dmitrievich; Privalov, Mikhail Moiseevich; and Ovchinnikov, Gennady Elizarovich, 3,741,083.

Filatov, Ivan Grigorievich: *See—*
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Filbert, Wilbur C. Article support. 3,715,096, 2-6-73, Cl. 248-223.000.

File, Joseph; Mills, Robert G.; Sheffield, George V.; and Bonanos, Peter, to United States of America, Atomic Energy Commission. Moment-free toroidal magnet design. 3,736,539, 5-29-73, Cl. 335-216.000.

Fileger, Eugene W.: *See—*
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Filewicz, Erwin C.: *See—*
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Filhaber, Ilmar J., to Fargo Mfg. Company, Inc. Underground distribution connector assembly. 3,740,692, 6-19-73, Cl. 339-19.000.

Filho, Sertorio Arruda. Ellipsograph. 3,719,996, 3-13-73, Cl. 33-30.00c.

Filia, George J., to Sargent and Company. Terminal locator for crimping tool. 3,710,611, 1-16-73, Cl. 72-410.000.

Filial Instituta Khimicheskoi Fiziki Akademii Nauk: *See—*
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Filipek, Stanley J.; and Csapo, Frank, to Stirling Homex Corporation. Method and apparatus for erecting modular high-rise building. 3,726,053, 4-10-73, Cl. 52-126.000.

Filipov, Alexander: *See—*
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Filipovich, Danny; Carlson, Richard K.; and Hadzimahalis, Theodore M., to Bell & Howell Company. Lens mount assembly for focusable, variable focal length lens. 3,744,884, 7-10-73, Cl. 350-255.000.

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Filippi, Ernest A., to Special Devices, Inc. Scoring module. 3,714,899, 2-6-73, Cl. 102-90.000.

Filippov, Mikhail Tikhonovich: *See—*
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Filitz, Otto, to Filitz, Otto, & Co. Fabrik Optischer. Hinge construction for spectacles frames. 3,744,886, 7-10-73, Cl. 351-113.000.

Filitz, Otto, & Co. Fabrik Optischer: *See—*
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Fill, Matzas Alfonso. Burettes and pipettes. 3,756,458, 9-4-73, Cl. 222-1.000.

Fillar, John A.: *See—*
Economos, George; Ford, David E., Jr.; and Fillar, John A., 3,738,422.

Fillies, Friedrich; and Urban, Gunter, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Electrofilter insulator without damaging dust deposits. 3,714,762, 2-6-73, Cl. 55-5.000.

Fillion, Paul-Henri; and Guay, Viateur, to Hoplab Inc. Operating mechanism for vertically sliding door. 3,714,737, 2-6-73, Cl. 49-360.000.

Fillion, Paul-Henri; and Guay, Viateur, to Hoplab Inc. Washing machine for medical and laboratory equipment. 3,746,022, 7-17-73, Cl. 134-141.000.

Fillippeli, Mario L., Jr.: *See—*
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Filliung, Jacques J., to Sloan Valve Company. Breath operated flushing arrangements. 3,731,025, 5-1-73, Cl. 200-81.90r.

Fillmore, Gary L.; and Tynan, Richard F., to International Business Machines Corporation. Process of producing multiple recording in a single medium. 3,728,118, 4-17-73, Cl. 96-48.00r.

Filmamatic Corporation, mesne; formerly Kimball & Associates, Inc.: *See—*
Miller, William S., 3,760,705.

Filper Corporation: *See—*
Hawkins, David N., 3,765,326.
Lane, William A.; and Meissner, Konrad E., 3,759,122.
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Filsinger, John F.; and Meuller, Roger P., to Textile Marking Machine Co., Inc. Marking machine. 3,774,529, 11-27-73, Cl. 101-27.000.

Filsinger, Reinhard: *See—*
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Filter Dynamics International, Inc.: *See—*
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Filterbau, Schenk, Gesellschaft mit beschrankter Haftung: *See—*
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Filteron International, Inc.: *See—*
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Fimbault, Serge. Apparatus for automatically distributing liquid feed rations. 3,738,532, 6-12-73, Cl. 222-63.000.

Finamore, Paul V., to World of Wigs Mfg. Co., Inc. Hairpiece. 3,716,065, 2-13-73, Cl. 132-53.500.

Finberg, Raymond H.; Edelson, Robert B.; and De Sisto, Richard E., to Proctor-Silex Incorporated. Vacuum cleaner nozzle. 3,733,640, 5-22-73, Cl. 15-402.000.

Finch, David C.; and Konrad, Charles E., to General Electric Company. Three phase system monitoring and control circuit. 3,727,103, 4-10-73, Cl. 317-13.00r.

Finch, Derek James, to Marconi Company Limited, The. Television camera tube cooling arrangements. 3,715,491, 2-6-73, Cl. 178-7.250.

Finch, DeVer Charles, to Honeywell Information Systems, Inc. Data recirculator. 3,755,788, 8-28-73, Cl. 340-172.500.

Finch, Gerhard Franz Otto Karl: *See—*
Falconer, Errol Linton; and Finch, Gerhard Franz Otto Karl, 3,730,790.

Finch, Jerry L.; Misner, Donald E.; and Brooks, James L., to Crown Zellerbach Corporation. Banded plastic bag manufacturing method and apparatus. 3,744,383, 7-10-73, Cl. 93-35.00r.

Finch, Kenneth W., to International Harvester Company. Air conditioning apparatus for automotive vehicles. 3,752,223, 8-14-73, Cl. 165-43.000.

Finch, Lawrence N., II: *See—*
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Robison, Michael Mullen; and Finch, Neville, 3,759,933.
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Finch, Ray N.; Mireur, John P.; and Fouts, Hollye R., to Celanese Corporation. Purification of bis (2-hydroxyethyl) terephthalate. 3,716,575, 2-13-73, Cl. 260-475.0pr.

Finch, Theron R.: *See—*
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Finch, William A.: *See—*
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Fincham, Frederick D., to Owens-Illinois, Inc. Method and apparatus for producing and packaging sealed tubular glass bodies. 3,734,705, 5-22-73, Cl. 65-87.000.

Fincher, Julian D. Rotary turbine engine. 3,727,401, 4-17-73, Cl. 60-39.350.

Finck, Hans-Werner Friedrich Michael: *See—*
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Findeis, Gunter: *See—*
Zahn, Wolfgang; Findeis, Gunter; and Muller, Dieter, 3,709,601

Findeisen, Kurt; and Warner, Kuno, to Bayer Aktiengesellschaft. Process for the production of acylisocyanide dichlorides and carboxylic acid chlorides. 3,758,570, 9-11-73, Cl. 260-544.00c.

Findeisen, Kurt; and Wagner, Kuno, to Bayer Aktiengesellschaft. Process for preparing acyl isocyanide dichlorides. 3,773,829, 11-20-73, Cl. 260-544.00c.

Findlay, John A. Epoxidized hydrocarbon acid esters having juvenile hormone activity. 3,761,495, 9-25-73, Cl. 260-348.00a.

Fine, Arnold J.: *See—*
Green, James R.; Parris, Ralph C.; and Fine, Arnold J., 3,756,398.

Fine, Hyman M.; and McKearney, James L. Seeder device. 3,738,530, 6-12-73, Cl. 221-211.000.

Fine, Maynard W., to Nuwood Game, Inc. Word forming game apparatus. 3,746,342, 7-17-73, Cl. 273-135.00d.

Fine, Morris M.: *See—*
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Finelli, Anthony F., to Goodyear Tire & Rubber Company, The. Polyurethane composition and method of its preparation. 3,734,880, 5-22-73, Cl. 260-37.00n.

Finelli, Anthony F.; and West, James C., to Goodyear Tire & Rubber Company, The. Method of controlling reaction of polyisocyanate with polyamine. 3,734,894, 5-22-73, Cl. 260-32.80n.

Finelli, Anthony F., to Goodyear Tire & Rubber Company, The. Coated polyurethane foam having an integral skin. 3,752,695, 8-14-73, Cl. 117-98.000.

Finelli, Thomas M.: *See—*
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Fineman, Harold, to Girling Limited. Means for controlling operation of fluid-pressure operated boosters. 3,765,172, 10-16-73, Cl. 60-545.000.

Finestone, Arnold B.; and Sims, Willard M., to Foster Grant Co., Inc. Process for preparing polyamides. 3,715,340, 2-6-73, Cl. 260-78.001.

Finestone, Arnold B.; Westphal, Richard C.; and Brae, Charles, Jr., to Foster Grant Co., Inc. Impact vinyl aromatic polymers and their preparation. 3,781,383, 12-25-73, Cl. 260-876.000.

Finestone, Arnold B.; Milgrom, Jack; and Slovenkai, Stephen V., to Foster Grant Co., Inc. Polymerization of ABS resins in the presence of unsaturated alpha-methylstyrene dimers. 3,781,384, 12-25-73, Cl. 260-879.000.

Finestone, Paul Ian. Table units. 3,714,906, 2-6-73, Cl. 108-64.000.

Finger, Carl: *See—*
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Finger, Ernest G. Modular building construction. 3,747,287, 7-24-73, Cl. 52-18.000.

Finger, Eugene P.: *See—*
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Finger, Eugene P., to Curtis Instruments, Inc. Coulometer controlled method and apparatus for generating an electrical function. 3,742,388, 6-26-73, Cl. 332-2.000.

Finger, Eugene P., to Curtis Instruments, Inc. Operating time remaining computer. 3,778,702, 12-11-73, Cl. 324-29.500.

Finger, John F. Welding helmet. 3,719,793, 3-6-73, Cl. 219-147.000.

Finger, John F., to Sioux Steam Cleaner Corporation. Ignition failure shutdown apparatus. 3,748,083, 7-24-73, Cl. 431-66.000.

Finger, Karl-Heinz: *See—*
Mnilk, Reinhold; Keil, Manfred; and Finger, Karl-Heinz, 3,743,141.

Finger, Otto R., to Display Corporation International. Placard holding display assembly. 3,719,000, 3-6-73, Cl. 40-125.00h.

Finger, Otto R., to Display Corporation International. Placard holding display assembly. 3,740,881, 6-26-73, Cl. 40-125.00h.

Fingerle, Karl; and Haag, Jurgen, to Fortuna-Werke Maschinenfabrik Aktiengesellschaft. Guiding device, especially for splitting and beveling machines. 3,780,605, 12-25-73, Cl. 83-4.000.

Fingerle, Rudolf: *See—*
Wendel, Gunther; and Fingerle, Rudolf, 3,711,168.

Fingerle, Rudolf, to SKF Kugellagerfabriken GmbH. Bearing assembly for spinning rotors. 3,730,599, 5-1-73, Cl. 308-187.000.

Finike Italiana Morposs Soc. in Accomandita Samplice di Mario Possati & Co.: *See—*
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Finizio, Michael; and Schoen, Karl, to Endo Laboratories, Inc. 1-Aminoalkyl-2,6-diaryl-4,5,6,7-tetrahydroindoles. 3,736,323, 5-29-73, Cl. 260-293.610.

Finizio, Michael. Novel indolobenzazepine derivatives, useful as tranquilizers. 3,764,684, 10-9-73, Cl. 424-263.000.

Fink, Anton, to Metrology Systems Corporation. Precision air chuck. 3,727,929, 4-17-73, Cl. 279-4.000.

Fink, Arthur Alan. Modular system for transporting and storing tape cartridges and cassettes. 3,710,900, 1-16-73, Cl. 190-51.000.

Fink, Charles R.: *See—*

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Fink, Heinz, to Palitex Project-Company G.m.b.H. Yarn cleaning roller assembly for textile yarn processing machine. 3,755,849, 9-4-73, Cl. 15-308.000.

Fink, James K., to Fruit Growers Express Company. System for controlling cooling and heating of a loading space. 3,768,274, 10-30-73, Cl. 62-159.000.

Fink, Joel H., to Westinghouse Electric Corporation. Electron beam apparatus. 3,727,093, 4-10-73, Cl. 313-237.000.

Fink, Josef: *See—*
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Fink, Leon, Jr.: *See—*
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Fink, Leon, Jr.; Fricker, David C.; and Thompson, Larry D., to ECC Corporation. Speed responsive motor starting system. 3,766,457, 10-16-73, Cl. 318-221.00e.

Fink, Lester H. Computer controlled coordination of regulation and economic dispatch in power systems. 3,719,809, 3-6-73, Cl. 235-151.210.

Fink, Max,: *See—*
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Fink, Peter; and Niemeyer, Ludwig, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Roller gap control. 3,777,526, 12-11-73, Cl. 72-35.000.

Fink, Ray S.: *See—*
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Fink, Robert H., to United States of America, Army. Grain support for solid propellant rocket motor. 3,731,628, 5-8-73, Cl. 102-49.300.

Fink, Robert W.; and Boyko, Eugene S., to Westinghouse Electric Corporation. Method of and apparatus for welding an end plug onto a nuclear fuel element. 3,725,635, 4-3-73, Cl. 219-121.00p.

Fink, Roy W., to Vecta Group, Inc., The. Stackable chair with foldable tablet arm. 3,712,668, 1-23-73, Cl. 297-162.000.

Fink, Roy W., to Verta Group, Inc., The. Method for hinging a foldable tablet arm to a stackable chair. 3,751,789, 8-14-73, Cl. 29-434.000.

Fink, Thomas E.: *See—*
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Fink, Werner: *See—*
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Fink, Werner; Kircher, Dieter; and Mittelbach, Jutta, to ITT Industries, Inc. Antiskid control system. 3,731,980, 5-8-73, Cl. 303-21.00f.

Fink, Werner; and Schlitz, Erwin, to ITT Industries, Inc. Anti-skid system. 3,756,663, 9-4-73, Cl. 303-21.0be.

Fink, Werner; Kircher, Dicter; and Rauschenbach, Reinhard, to ITT Industries, Inc. Mounting arrangement for wheel speed sensors. 3,761,751, 9-25-73, Cl. 310-168.000.

Fink, Werner, to ITT Industries, Inc. Differential-lock type device for a motor vehicle. 3,771,839, 11-13-73, Cl. 303-21.0be.

Fink, Werner; and Kircher, Dieter, to ITT Industries, Inc. Antiskid brake control system. 3,774,977, 11-27-73, Cl. 303-21.00p.

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Finke, Albert, to Allis-Chalmers Corporation. Pallet construction for increased density of loading. 3,752,087, 8-14-73, Cl. 108-59.000.

Finke, Arno; deceased (by Finke, Adele; sole heiress); and Bosse, Frank, to Maschinenfabrik Windmoller & Holscher. Machine for manufacturing heat-sealed bags. 3,708,377, 1-2-73, Cl. 156-582.000.

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Finkel, Abraham M.; and Surwill, Michael, to Lockheed Aircraft Corporation. Apparatus for performing axially-and-radially located operations on tubular construction. 3,724,053, 4-3-73, Cl. 29-200.00b.

Finkel, Abraham M.; and Jensen, Charles R., to Lockheed Aircraft Corporation. Grappling device. 3,742,186, 6-26-73, Cl. 219-160.000.

Finkel, Henry, to Webster, M. C., Co., Ltd. Display sign. 3,722,120, 3-27-73, Cl. 40-140.000.

Finkel, Nathan B., to Swift Sheetmetal Corporation. Multi-blade damper. 3,746,042, 7-17-73, Cl. 137-601.000.

Finkelstein, Laurence Stephen. Electrical harness with moulded sockets. 3,716,818, 2-13-73, Cl. 339-97.001.

Finkelstein, Manuel: *See—*
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Ross, Sidney D.; and Finkelstein, Manuel, 3,774,090.

Finkl, A., & Sons Co.: *See—*
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Finkl, Charles W., to Finkl, A., & Sons Co. Method of treating molten metal by gas purging through a porous plug. 3,761,242, 9-25-73, Cl. 75-13.000.

Finkle, Bernard J., to United States of America, Agriculture. Prevention of freeze-damage in perishable foods. 3,736,154, 5-29-73, Cl. 99-193.000.

Finkle, Milton. Resilient frangible bumper guard. 3,715,138, 2-6-73, Cl. 293-1.000.

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Finlay, Joseph C., to Burroughs Corporation. Trigger circuit for a bistable multivibrator. 3,727,141, 4-10-73, Cl. 328-60.000.

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Finlay, Walter L.; Fisher, Henry J.; and Hay, Donald A., to Cooper Range Company. Copper base composition. 3,778,318, 12-11-73, Cl. 148-12.700.

Finley, Bruce M.; and Sturdivan, Paul G., to Demco Incorporated. Method and apparatus for cleaning solids coated with oil. 3,716,480, 2-13-73, Cl. 210-22.000.

Finley, Carl E.: *See—*
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Finley, Carl E., to Olin Corporation, Camp stove wind shield latch. 3,713,432, 1-30-73, Cl. 126-38.000.

Finley, Carl E., to Olin Corporation. Camp stove tray to case mount. 3,724,441, 4-3-73, Cl. 126-38.000.

Finley, Carl E. Odometer. 3,735,103, 5-22-73, Cl. 235-95.00a.

Finley, Carl E. Odometer. 3,741,473, 6-26-73, Cl. 235-95.00r.

Finley, Donald G. Combined oval slide rule and nomograph. 3,732,399, 5-8-73, Cl. 235-61.00b.

Finley, George R.: *See—*
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Finley, John G.: *See—*
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Finley, John W., to United States of America, Agriculture. Process of producing kynureninc. 3,766,261, 10-16-73, Cl. 260-518.00r.

Finley, John W., to United States of America, Agriculture. Beverages containing deamidized gluten. 3,770,452, 11-6-73, Cl. 426-190.000.

Finley, Mary E. Chair-bath. 3,758,894, 9-18-73, Cl. 4-185.00r.

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Finn Industries, Inc., The: *See—*
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Finn, Robert K.; and Tannahill, Alex L. Process for the bio-oxidation of nitrogen deficient waste materials. 3,721,622, 3-20-73, Cl. 210-11.000.

Finnegan, Cyril Owen; and Lee, Art, to General Electric Company. Solid state hospital bed power control unit. 3,728,606, 4-17-73, Cl. 318-480.000.

Finnegan, Frank Henry; Gensike, Karl Heinz; and Marsh, Robert Clayton, to Dymat Photomatrix Corporation. Method and apparatus for extending the exposure range for camera lenses. 3,766,841, 10-23-73, Cl. 95-64.00r.

Finnegan, Joseph F., Jr., to York Stone & Supply Company. Masonry flute rake. 3,758,945, 9-18-73, Cl. 30-172.000.

Finnegan, Ronald A., to Veeder Industries Inc. Optical encoder. 3,725,902, 4-3-73, Cl. 340-347.00p.

Finnegan, William G.; Burkardt, Lohr A.; McLean, William B.; McEwan, William S.; and Larocca, Edward W., to United States of America, Navy. Explosive charge. 3,742,859, 7-3-73, Cl. 102-101.000.

Finnemore, Harlan E., to Air Preheater Company, Inc., The. Ball-and-socket coupling for rotor. 3,710,851, 1-16-73, Cl. 165-9.000.

Finneran, James G., to Wheaton Industries. Liquid dispensing device. 3,766,570, 10-23-73, Cl. 4-222.000.

Finney, Clem: *See—*
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Finney, Herschel D., to Phillips Petroleum Company. Submerged storage vessel. 3,769,803, 11-6-73, Cl. 61-46.500.

Finney, John S.: *See—*
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Finney, Kelly D., 1/3 to Chrysler, Louis G., Jr. Boat loading and launching trailer and method of loading a boat thereon. 3,750,805, 8-7-73, Cl. 214-84.000.

Finney, Philip F., to Thermo-Couple Products Company, Inc. Temperature responsive resistance element for a temperature sensitive control sensor. 3,728,660, 4-17-73, Cl. 338-22.00r.

Finney, Robert R.; Luckenbill, Lawrence F.; and Kissell, Gerry E., to Mueller Co. Method of tapping a hole in a main through a fitting. 3,734,112, 5-22-73, Cl. 137-15.000.

Finnimore, Bryan: *See—*
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Finsterwalder, Klemens: *See—*
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Finsterwalder, Klemens, to Dyckerhoff & Widmann Aktiengesellschaft, Firma. Device for measuring the anchoring forces in prestressed ground or rock anchors. 3,747,400, 7-24-73, Cl. 73-88.00e.

Finsterwalder, Ulrich; Finsterwalder, Klemens; and Herbst, Thomas, to Dyckerhoff & Widmann Aktiengesellschaft. Method for producing a bearing pile of reinforced concrete. 3,757,528, 9-11-73, Cl. 61-53.520.

Finvold, Rodger C.; and Davis, Charles M., to United States of America, Navy. Photoelement intense radiation protective device. 3,714,430, 1-30-73, Cl. 250-83.30h.

Finzer, Heinz, K.G.: *See—*
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Fiocca, John A.; and Grunewald, Ernst, to Hobart Manufacturing Company, The. Rack system for a dishwashing machine. 3,752,322, 8-14-73, Cl. 211-41.000.

Fiore, Jack C., to Motorola, Inc. Tuner pushbutton system with automatic band memory. 3,714,835, 2-6-73, Cl. 74-10.330.

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Fiore, Peter O.: *See—*
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Fiorentino, Antonio. Remote radio winch control unit. 3,732,570, 5-8-73, Cl. 343-225.000.

Fiorentino, Arthur A.; and Mc Cree, Alan Collis, to Thomas & Betts Corporation. Harness board module. 3,752,198, 8-14-73, Cl. 140-92.100.

Fiorenzo, Forghieri; Irmo, Siena; Wilson, Forghieri; and Carmen, Forghieri. Lamp of variable light intensity and colour. 3,743,828, 7-3-73, Cl. 240-10.00r.

Fiorenzo, Joseph. Alarm assembly combined with cleanout plug structure. 3,757,316, 9-4-73, Cl. 340-243.000.

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Firestone, Raymond A., to Merck & Co., Inc. [2-(Dihalophosphinyl)-1-methylvinyl] onium halides. 3,708,535, 1-2-73, Cl. 260-543.00p.

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Batten, Thomas Allen; and Griebling, Stephen Thomas, 3,720,252.
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Fischer, Werner; and Schmitt, Felix, to Goldschmidt, Th., AG. Process of separating yttrium from lanthanides. 3,721,692, 3-20-73, Cl. 260-429.200.
Fischer, Werner Karl, to Swiss Aluminium Ltd. Apparatus for the production of green test specimens from artificial carbon. 3,764,242, 10-9-73, Cl. 425-427.000.
Fischer, Wilfried; and Rohr, Franz-Josef, to Aktiengesellschaft Brown, Boveri & Cie. Fuel cell system for reacting hydrocarbons. 3,718,506, 2-27-73, Cl. 136-86.00c.
Fischer, William C., Jr.; and Symons, Frank W., Jr., to United Aircraft Corporation. Redundant operational amplifier circuit for servo control systems. 3,732,501, 5-8-73, Cl. 330-1.00a.
Fischer, William H.; and Cromer, Charles F., to Westinghouse Electric Corporation. Gas-blast downstream-type of high-voltage circuit breaker having field-controlling shields and single venting movable contact. 3,725,623, 4-3-73, Cl. 200-148.00b.
Fischer, William K., to Uniroyal, Inc. Thermoplastic blend of partially cured monoolefin copolymer rubber and polyolefin plastic. 3,758,643, 9-11-73, Cl. 260-897.00a.
Fischer-Brodbeck G.m.b.H., Prazisionsteile-Fabrik: *See—*
Maier, Heinz, 3,718,055.
Fischman, Martin; and Murphy, William D., to GTE Sylvania Incorporated. Single ramp film and TV receiver apparatus. 3,764,737, 10-9-73, Cl. 178-7.200.
Fisen, Stefan. Surgical knife. 3,748,736, 7-31-73, Cl. 30-151.000.
Fish, Austin D.; Fisher, William G.; and Brubaker, Robert F., to General Motors Corporation. Peripheral fill system for a clothes washer. 3,742,736, 7-3-73, Cl. 68-23.500.
Fish Engineering & Construction, Inc.: *See—*
Hegwer, Arnold M., 3,739,548.
Fish, Frank Hamilton, to Gillette Company, The. Electrostatic spray coating methods. 3,713,873, 1-30-73, Cl. 117-93.40r.
Fish, Franklin H., to United States of America, Navy. R-2R resistive ladder, digital-to-analog converter. 3,728,719, 4-17-73, Cl. 340-347.0da.
Fish, Ian Anthony. Apparatus for cutting sheet material. 3,741,058, 6-26-73, Cl. 83-277.000.
Fish, James F.; and Parks, Bruce C., to United States of America, Navy. Photographic module having acoustic transducer. 3,738,248, 6-12-73, Cl. 95-86.000.
Fish, Richard D.: *See—*
Wertheimer, Donald J.; Fish, Richard D.; and Holmes, Ralph A., 3,714,885.
Fish, Robert F. Liquid cooled engine. 3,765,479, 10-16-73, Cl. 165-51.000.
Fish, Warren H.: *See—*
Westergren, George A.; Fish, Warren H.; Crooks, Stanley R.; and Koland, David G., 3,781,460.
Fish, William M., to Aluminum Company of America. Anti-pollution method. 3,760,565, 9-25-73, Cl. 55-71.000.
Fishbein, John; Bell, Raymond W. H.; and Clarke, Anthony J., to Dunlop Holdings Limited. Process for making flame retarded polyurethanes foam. 3,738,947, 6-12-73, Cl. 260-2.5am.
Fishbein, Meyer. Battery powered orthopedic cutting tool. 3,734,207, 5-22-73, Cl. 173-163.000.
Fishburne, Francis B. Refuse truck. 3,750,813, 8-7-73, Cl. 214-518.000.
Fishel, Kenneth R.: *See—*
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Fishel, Kenneth R., to United States of America, Navy. Differential pressure transducer and readout for sensing claw grip force. 3,759,092, 9-18-73, Cl. 73-141.00r.
Fisher, Aaron; and Clatterbuck, Carroll H., to United States of America, National Aeronautics and Space Administration. Process for making R.F. shielded cable connector assemblies and the products formed thereby. 3,744,128, 7-10-73, Cl. 29-629.000.
Fisher, Adolf: *See—*
Zeidler, Adolf; Fisher, Adolf; and Weiss, Guenther, 3,708,277.
Fisher, Alan Arthur, to I. V. Pressure Controllers Limited. Pressure control devices for fluid flow systems. 3,756,264, 9-4-73, Cl. 137-116.300.
Fisher, Alfred G. Vehicle four wheel driving and steering arrangement. 3,709,315, 1-9-73, Cl. 180-50.000.
Fisher, Allen J., to International Harvester Company. Positive locking clutch shift mechanism. 3,752,283, 8-14-73, Cl. 192-99.500.
Fisher, Arthur I. Shaving system for extended blade life. 3,763,998, 10-9-73, Cl. 206-47.00r.
Fisher, Carl B.: *See—*
Erhart, Francis J.; and Fisher, Carl B., 3,746,502.
Fisher, Clarence E., to Advance Transformer Company. Ballast canister construction. 3,751,574, 8-7-73, Cl. 174-52.00r.
Fisher, Colin, to Image Analysing Computers Limited. Image analysis. 3,733,433, 5-15-73, Cl. 178-6.800.
Fisher, Colin. Counting systems in image analysis employing line scanning techniques. 3,751,585, 8-7-73, Cl. 178-6.800.
Fisher Controls Company, Inc.: *See—*
Allen, Ernest E., 3,776,278.
Luthe, Fred J., 3,713,660.
Fisher, Delbert J.: *See—*
Grote, James E.; and Fisher, Delbert J., 3,760,715.
Fisher, Delbert P. Mechanical latch assembly for brake system. 3,757,908, 9-11-73, Cl. 188-265.000.
Fisher, Donald E.; and Pleshko, Peter, to International Business Machines Corporation. Synchronous detector for monopulse key sampling electronic keyboard. 3,716,850, 2-13-73, Cl. 340-365.00e.
Fisher, Donald J., to Xerox Corporation. Cleaning apparatus. 3,722,018, 3-27-73, Cl. 15-1.500.
Fisher, Donald M. Shield for electrical plug. 3,740,694, 6-19-73, Cl. 339-36.000.
Fisher, Earl Eugene, to Staley, A. E., Manufacturing Company. Enzyme hydrolysis. 3,720,583, 3-13-73, Cl. 195-31.00r.
Fisher, Earl L.; and Joyce, Ronald W., to Victor Comptometer Corporation. Pneumatic gun. 3,763,843, 10-9-73, Cl. 124-13.00a.
Fisher, Edward I., to Textron, Inc. Nail feed mechanism. 3,708,097, 1-2-73, Cl. 227-136.000.
Fisher, Ernest P., Jr.: *See—*
Read, Norman W.; and Fisher, Ernest P., Jr., 3,746,090.
Fisher, Evan D., to United States of America, Army. Fluid safety and arming system. 3,750,590, 8-7-73, Cl. 102-81.000.
Fisher, Evan D., to United States of America, Army. Charging system for electric bomb fuzes (U). 3,757,695, 9-11-73, Cl. 102-70.20g.
Fisher Flouring Mills Co.: *See—*
Fisher, Glen W.; Robbins, Dewey H.; Evans, Victor J.; and Davidson, Gene E., 3,778,521.
Fisher, Frank E.; and Fisher, Joseph N. Cough filter. 3,719,188, 3-6-73, Cl. 128-275.000.
Fisher, Frank G. Door construction. 3,778,934, 12-18-73, Cl. 49-503.000.
Fisher Gauge Limited: *See—*
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Fisher, Georg, Aktiengesellschaft: *See—*
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Fisher, George, Aktiengesellschaft: *See—*
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Fisher, George Myles Cordell: *See—*
Andreatch, Peter, Jr.; and Fisher, George Myles Cordell, 3,719,462.
Fisher, Gerald E.: *See—*
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Fisher, Glen W.; and Franz, Fred A., to Technovator, Inc. Particulate solid material inspection system. 3,751,991, 8-14-71, Cl. 73-421.000.
Fisher, Glen W.; Robbins, Dewey H.; Evans, Victor J.; and Davidson, Gene E., to Fisher Flouring Mills Co. Process for the continuous production of bulgur. 3,778,521, 12-11-73, Cl. 426-508.000.
Fisher, H. L., Mfg. Co., Inc.: *See—*
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Fisher, Henry J.: *See—*
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Fisher, Howard M., to Pennsylvania Engineering Corporation. Metallurgical vessel drive. 3,760,654, 9-25-73, Cl. 74-661.000.
Fisher, Howard M.; and Albers, Bernd G., to Pennsylvania Engineering Corporation. Converter vessel drive using hydraulic motors. 3,771,777, 11-13-73, Cl. 266-36.00p.
Fisher, Ivan E., to Owatonna Manufacturing Company, Inc. Conditioner roll mounting means and cushioning stop system therefor. 3,722,190, 3-27-73, Cl. 56-1.000.
Fisher, James G., Jr., to Union Carbide Corporation. Display tray. 3,734,279, 5-22-73, Cl. 206-65.00r.
Fisher, James Glenn, to NVF Company. Bumper lift hook. 3,758,077, 9-11-73, Cl. 254-133.000.
Fisher, James Glenn, to NVF Company. Frame and jack assembly. 3,779,517, 12-18-73, Cl. 254-134.000.
Fisher, James K., to International Telephone and Telegraph Corporation. Ruggedized electrical connecting lead. 3,712,997, 1-23-73, Cl. 313-317.000.
Fisher, Jere D. Ski boot holder. 3,775,794, 12-4-73, Cl. 12-1.00r.
Fisher, John, to ILC Industries, Inc. Retractable face protective assembly. 3,727,235, 4-17-73, Cl. 2-10.000.
Fisher, John F.; and Zeller, Burton S., to Clark Equipment Company. Transmission. 3,710,637, 1-16-73, Cl. 74-331.000.
Fisher, John G.; and Diebert, Curtis E., to Eastman Kodak Company. Cyanovinylene-triarylamines. 3,728,374, 4-17-73, Cl. 260-465.00d.
Fisher, John G.; and Coates, Clarence A., Jr., to Eastman Kodak Company. Pyrrole methine cationic dyes. 3,758,466, 9-11-73, Cl. 260-240.00e.
Fisher, John G.; and Coates, Clarence A., Jr., to Eastman Kodak Company. 2-Amino-4-(azoyl)-azo-thiazole compounds and quaternary derivative thereof. 3,770,719, 11-6-73, Cl. 260-158.000.
Fisher, John H., to British Columbia Forest Products Limited. Process for simultaneous turpentine recovery an odor control. 3,745,063, 7-10-73, Cl. 162-15.000.
Fisher, John L.; and Wilks, Alan L., to Kuhlman Electric Company. Inductors with strain relief leads and methods of making the same. 3,713,066, 1-23-73, Cl. 336-192.000.
Fisher, John L., to Kuhlman Corporation. Transformer with connector and method of assembly. 3,740,685, 6-19-73, Cl. 336-192.000.



Fisher, John P. Nuclear reactor control rod. 3,712,852, 1-23-73, Cl. 176-86.000.
Fisher, John Richard: *See—*
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Fisher, Joseph N.: *See—*
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Fisher, Jules. Display projector. 3,767,299, 10-23-73, Cl. 353-38.000.
Fisher, Leslie George, to GKN Birfield Transmissions Limited. Universal joints. 3,714,797, 2-6-73, Cl. 64-8.000.
Fisher, Martin Allen. Final approach timer. 3,738,166, 6-12-73, Cl. 73-178.00t.
Fisher, Michael H.: *See—*
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Fisher, Michael H., to Merck & Co., Inc. 2-Cyano-polyhalobenzimidazoles. 3,738,994, 6-12-73, Cl. 260-309.200.
Fisher, Michael H., to Merck & Co., Inc. Anthelmintic compositions containing benzimidazoles and method of use. 3,749,789, 7-31-73, Cl. 424-273.000.
Fisher, Raymond E.: *See—*
Eberly, Harry G.; and Fisher, Raymond E., 3,752,300.
Fisher, Raymond E.; and Cook, Albert C., to Sperry Rand Corporation. Unloading ramps for the load rack of a bale wagon. 3,765,551, 10-16-73, Cl. 214-82.000.
Fisher, Reed Edward; and Smith, John Nelson, to Bell Telephone Laboratories, Incorporated. Power combining network. 3,748,600, 7-24-73, Cl. 333-10.000.
Fisher, Richard R.: *See—*
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Fisher, Robert Alan: *See—*
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Fisher, Robert C. Seat belt retractor. 3,724,773, 4-3-73, Cl. 242-107.400.
Fisher, Robert C. Belt adjuster. 3,725,982, 4-10-73, Cl. 24-196.000.
Fisher, Robert C., mesne: *See—*
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Fisher, Robert D.; and Puram, George C., to Ferroxcube Corporation. Method of making a magnetic head. 3,751,803, 8-14-73, Cl. 29-603.000.
Fisher, Robert E., to Mobil Oil Corporation. Apparatus for biaxial orientation of thermoplastic film. 3,765,067, 10-16-73, Cl. 26-54.000.
Fisher, Ronald: *See—*
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Fisher, Ronald. Friction mechanisms. 3,731,776, 5-8-73, Cl. 192-107.00m.
Fisher Scientific Company: *See—*
Louder, Nevitt M.; and Ferrie, Ronald, 3,772,591.
Fisher, Scott Lewis; and Parker, Morris Jay, to Union Carbide Corporation. Self-lubricating solid compositions. 3,764,532, 10-9-73, Cl. 252-12.000.
Fisher, Simon, to Newcor, Inc. Alignment of shell onto mandrel. 3,765,278, 10-16-73, Cl. 82-2.500.
Fisher, Stanton E. Animal litter. 3,765,371, 10-16-73, Cl. 119-1.000.
Fisher, Viktor Davydovich: *See—*
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Fisher, Walter W.: *See—*
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Fisher, Wesley H. Boat structure. 3,745,963, 7-17-73, Cl. 115-34.00r.
Fisher, William Arthur, to Commercial Affiliates, Inc. Combination trimming and cutting tool. 3,772,785, 11-20-73, Cl. 30-293.000.
Fisher, William F., to Caterpillar Tractor Company. Adjustable pinion for motor grader circle drive. 3,712,384, 1-23-73, Cl. 172-796.000.
Fisher, William Frederick, to Fisher Gauge Limited. Materials handling device. 3,750,490, 8-7-73, Cl. 74-469.000.
Fisher, William G.: *See—*
Fish, Austin D.; Fisher, William G.; and Brubaker, Robert F., 3,742,736.
Fisher, William G. Reproduction system. 3,751,159, 8-7-73, Cl. 355-20.000.
Fisher, William J., 50% to Braverman, Maynard, mesne. Method for processing flexible metallic conduit. 3,745,639, 7-17-73, Cl. 29-417.000.
Fisher, William J., 50% to Braverman, Maynard. Apparatus for processing flexible metallic conduit. 3,768,361, 10-30-73, Cl. 83-796.000.
Fisher, William J., 50% to Braverman, Maynard, mesne. Device for processing flexible metallic conduit. 3,777,351, 12-11-73, Cl. 29-203.00h.
Fisher-Klosterman, Inc.: *See—*
Miczek, Gerhard, 3,722,185.
Fishkin, Bruce I.; and Taylor, John J., to Sperry & Hutchinson Company. Dual value document. 3,734,544, 5-22-73, Cl. 283-56.000.
Fishman, Aaron Harry; and Parmett, George, to APL Corporation. Ice cream maker. 3,780,536, 12-25-73, Cl. 62-342.000.
Fishman, Abraham. Apparatus for cutting thin-walled objects. 3,710,444, 1-16-73, Cl. 30-265.000.
Fishman, Iosif David-Yankelevich: *See—*
Khodosh, Vladimir Alexandrovich; Salov, Sergei Fedorovich; Ivanov, Alexandrovich Valentin; Mozhaev, Arkady Ivanovich; Vasilenko, Evstafy Andreevich; Pachulia, Budu Pavlovich; Fishman, Iosif David-Yankelevich; Melnikov, Ivan Iosifovich; and Rusanov, Faust Ianovich, 3,749,352.
Fishman, Jack B.; and Mutschler, William E., to Nucleonics Development Company. Ionization gas flow meter with pulse servo. 3,718,043, 2-27-73, Cl. 73-194.00f.
Fishpaw, Bernice N., to Lee, Raymond, Organization, Inc., The. Combination surgical instrument table and sterilizer basket. 3,768,971, 10-30-73, Cl. 21-83.000.
Fisk, David C.: *See—*
Perkins, William L., III; and Fisk, David C., 3,743,902.
Fisk, Edwin J. Bug catcher and ejector. 3,711,987, 1-23-73, Cl. 43-134.000.
Fisk, Reginald C.; and Carver, Edgar B., to Norton Company. Method of making a metal impregnated grinding tool. 3,779,726, 12-18-73, Cl. 51-295.000.
Fismer, William L. Apparatus for lifting flasks, molds and patterns. 3,776,300, 12-4-73, Cl. 164-403.000.
Fisons Limited: *See—*
Burton, Dennis Ernest; Newbold, Geoffrey Tattersall; Percival, Albert; Lambie, Alan James; and Sencial, Ian Robert, 3,725,554.
Cairns, Hugh; and Minshull, Robert, 3,718,668.
Chambers, Albert; Johnson, Peter Bennett; and Lee, Thomas Brian, 3,773,794.
Gates, Peter Stuart; and Gillon, John, 3,736,338.
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Jeffreys, Godfrey Vaughan; and Marks, Colin Elliott, 3,773,831.
Jenkins, Trevor; Needham, Brian John; and Smith, Michael Arthur, 3,728,390.
Marks, Colin Elliott; and Miller, John, 3,728,281.
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Fisons Pharmaceuticals Limited: *See—*
Fitzmaurice, Colin; and Lee, Thomas Brian, 3,777,033.
King, John; and Lord, George Harry, 3,720,690.
Fister, Karoly G. Low cost universal battery charger for small type nickel-cadmium or alkaline batteries. 3,735,232, 5-22-73, Cl. 320-2.000.
Fister, Louis P.; Fitch, Lawrence H.; Jeney, George K.; and Scheublein, William A., to Moog Industries, Inc. Vehicle tandem axle suspension system. 3,740,069, 6-19-73, Cl. 280-104.50r.
Fister, Robert V.: *See—*
Agnone, John L.; Fister, Robert V.; and Sheppard, Jon C., 3,767,559.
Fitch, Arthur L., to Harsco Corporation. Process for producing metallized agglomerates and recovery of non-ferrous values from waste materials. 3,754,890, 8-28-73, Cl. 75-3.000.
Fitch, Clifford E., Jr.: *See—*
Albright, Charles Jere; Fitch, Clifford E., Sr.; and Fitch, Clifford E., Jr., 3,778,524.
Fitch, Clifford E., Sr.: *See—*
Albright, Charles Jere; Fitch, Clifford E., Sr.; and Fitch, Clifford E., Jr., 3,778,524.
Fitch, Eugene K., to Teledyne, Inc. Fluid flow ratio and pressure ratio indicating device. 3,774,447, 11-27-73, Cl. 73-205.00r.
Fitch, James B., to Nash Engineering Company. Motor-driven pedestal-mounted pump assembly and method for manufacturing the same. 3,713,749, 1-30-73, Cl. 415-200.000.
Fitch, John L.; and Jones, Lloyd G., to Mobil Oil Corporation. Method of forming and maintaining offshore ice structures. 3,750,412, 8-7-73, Cl. 61-46.000.
Fitch, Lawrence H.: *See—*
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Fitch, Richard A.; and Crewson, Walter F. J., to Maxwell Laboratories, Inc. Marx generator and triggering circuitry therefor. 3,746,881, 7-17-73, Cl. 307-110.000.
Fitchburg, Johan Bjorksten: *See—*
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Fiteny, Louis M.; and Oehring, Leo G., to Rockwell International Corporation. Wheel speed sensor. 3,774,061, 11-20-73, Cl. 310-168.000.
Fitko, Chester W., to Continental Can Company Inc. Metal coating compositions prepared from aqueous dispersions of a carboxyl containing olefin copolymer and a modified urea formaldehyde resin. 3,736,284, 5-29-73, Cl. 260-29.4ua.
Fitterer, George R. Method of fabricating a sensor for the determination of the oxygen content of liquid metals. 3,752,753, 8-14-73, Cl. 204-175.00s.
Fitterer, George R. Means for determining the oxygen content of liquid metals. 3,773,641, 11-20-73, Cl. 204-195.00s.
Fitzgerald, Barry Joseph: *See—*



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Fitzgerald, Carl E., to Indesco Corporation. Electrostatic painting system. 3,777,702, 12-11-73, Cl. 118-2.000.
Fitzgerald, Charles E.: *See—*
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Fitzgerald, Gordon E.: *See—*
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Fitzgerald, Harold W.; and Gunther, Warren T. Plastic pipe reamer and method. 3,752,593, 8-14-73, Cl. 408-1.000.
Fitzgerald, J. Vincent; Matusik, Frank J.; and Oppliger, Hans R., to National Metal and Refining Company, Inc. High precision wide dynamic range viscous loss measuring apparatus. 3,712,117, 1-23-73, Cl. 73-59.000.
Fitzgerald, J. Vincent; Matusik, Frank J.; and Oppliger, Hans R., to National Metal and Refining Company, Inc. High precision wide dynamic range viscous loss measuring apparatus. 3,762,429, 10-2-73, Cl. 137-92.000.
Fitzgerald, James R.; and Beachem, Ronald G., to Incremental Systems, Inc. Apertured card reader and digital data collection system. 3,754,120, 8-21-73, Cl. 235-61.11e.
Fitzgerald, James W.: *See—*
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Fitzgerald, Joseph J., to Sanders Nuclear Corporation. External implantation of energy to power internal devices. 3,731,669, 5-8-73, Cl. 128-1.00r.
Fitzgerald, Leonard C., to Nospil Limited. Non-spill drinking cup top. 3,727,808, 4-17-73, Cl. 222-482.000.
Fitzgerald, Maurice J., to Polaroid Corporation. Polymeric binders for photographic emulsions. 3,713,834, 1-30-73, Cl. 96-114.000.
Fitzgerald, Maurice J., to Polaroid Corporation. Polymeric binders for photographic emulsions. 3,721,565, 3-20-73, Cl. 96-114.000.
Fitzgerald, Maurice J.; and Taylor, Lloyd D., to Polaroid Corporation. Silver halide emulsion with graft copolymer binders. 3,746,548, 7-17-73, Cl. 96-113.000.
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Fitzgerald, Walter P., Jr., to LRC Research and Development Company. Chemical composition. 3,755,179, 8-28-73, Cl. 252-95.000.
Fitzgerald, William M. B., to Matthey, Johnson, and Mallory, Ltd. Apparatus for the manufacture of composite electrical contacts. 3,720,805, 3-13-73, Cl. 219-152.000.
Fitzgerald, William M. B., to Matthey, Johnson, and Mallory, Ltd. Fluid monitoring unit. 3,753,346, 8-21-73, Cl. 60-547.000.
Fitzgerald, William M. B., to Johnson Matthey and Mallory, Ltd. Manufacturing of composite materials. 3,769,828, 11-6-73, Cl. 72-450.000.
Fitzgerald, William M. B., to Johnson Matthey and Mallory, Ltd. Manufacture of composite materials. 3,770,015, 11-6-73, Cl. 137-624.110.
Fitzgerald, William Vincent, Jr.; and Lemmon, Richard Charles, to RCA Corporation. High voltage and width regulation circuit. 3,711,738, 1-16-73, Cl. 315-29.000.
Fitzgerald, William Vincent, Jr., to RCA Corporation. High voltage protection circuit. 3,715,492, 2-6-73, Cl. 178-7.30r.
Fitzgerald, William Vincent, Jr., to RCA Corporation. Width control circuit for a television receiver. 3,740,472, 6-19-73, Cl. 178-7.5se.
Fitzgibbons, Eugene T.; and Slowinski, Raymond P., to North American Rockwell Corporation. Liquid crystal display device. 3,751,137, 8-7-73, Cl. 350-160.20c.
Fitzgibbons, William O.; Schwerko, Elaine M.; and Brainard, Allan H., to Standard Oil Company, The. Deep well disposal process for acrylonitrile process waste water. 3,734,943, 5-22-73, Cl. 260-465.300.
Fitzhugh, David. Irrigation apparatus and methods. 3,762,170, 10-2-73, Cl. 61-13.000.
Fitzhugh, Donald Lewis: *See—*
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Fitzhugh, Edward F., Jr.; Bush, Philip D.; and Seidel, Don C., to Republic Steel Corporation. Recovery of metallic nickel from solution of corresponding salt. 3,737,307, 6-5-73, Cl. 75-109.000.
Fitzhugh, Edward F., Jr.; Coughlin, Barring, Jr.; and Fitzhugh, William E. Fluid blending device to impart spiral axial flow with no moving parts. 3,743,250, 7-3-73, Cl. 259-4.000.
Fitzhugh, William E.: *See—*
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Fitzmaurice, Colin; and Lee, Thomas Brian, to Fisons Pharmaceuticals Limited. Bis-chromonyl pharmaceutical composition and methods. 3,777,033, 12-4-73, Cl. 424-283.000.
Fitzmayer, Louis H., to General Electric Company. Built-in leakage radiation detecting device for a microwave oven. 3,748,424, 7-24-73, Cl. 219-10.550.
Fitzmayer, Louis H.; and Worden, Nelson B., to General Electric Company. Microwave oven leakage detection system. 3,749,875, 7-31-73, Cl. 219-10.550.
Fitzner, Marcel; and Butler, John D. Apparatus for processing herbs and the like. 3,729,096, 4-24-73, Cl. 209-97.000.
Fitzpatrick, Arthur M., Jr. Safety razor with roller mounted strip blade. 3,762,045, 10-2-73, Cl. 30-40.100.
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Fitzpatrick, James, to Dyer & Miller Bros. Ltd. Angle valve. 3,719,202, 3-6-73, Cl. 137-360.000.
Fitzpatrick, James W. Chain saw sharpening device. 3,768,341, 10-30-73, Cl. 76-31.00r.
Fitzpatrick, John D., to General Motors Corporation. Transmission control lever assembly. 3,732,746, 5-15-73, Cl. 74-473.00r.
Fitzpatrick, John R., 1/4 to Fitzpatrick, Douglas, 1/4 to Dawson, William N. and 1/4 to Tyler, Robert S., Jr. Bottom hole pressure and temperature indicator. 3,732,728, 5-15-73, Cl. 73-151.000.
Fitzpatrick, William E.; Berger, Leonard; and Auerbach, Hayward B., to International Playtex Corporation. Bulk package for individual dispensing of substantially wet sheets from stacks. 3,780,908, 12-25-73, Cl. 221-48.000.
Fitzsimmons, George Washington; and Chen, Wen Shuh, to Boeing Company, The. Stabilized Trapatt oscillator diode. 3,743,967, 7-3-73, Cl. 331-107.00r.
Fitzsimmons, Paul A.: *See—*
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Fitzsimmons, Robert O., to Gale Systems, Inc. Wave soldering apparatus having unobstructed work piece path. 3,773,242, 11-20-73, Cl. 228-37.000.
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Fitzsimons, Alan R.; and Mazac, Frank P., to San/Bar Electronics Corporation. Long line adapter circuit. 3,739,099, 6-12-73, Cl. 179-16.00f.
Fitzsimons, Alan R.; and Mazac, Frank P., to San Bar Electronics Corporation. Long line adapter circuit usable with increased power supply. 3,746,795, 7-17-73, Cl. 179-16.00f.
Fitzwater, Edwin: *See—*
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Fjellstrom, Bengt. Tube bending tool. 3,763,685, 10-9-73, Cl. 72-217.000.
Fjermestad, Arnold R.; Lea, Albert; and Nellis, William M., to National Cooperatives, Inc. Automatic milking apparatus. 3,776,189, 12-4-73, Cl. 119-14.280.
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Flachbarth, Charles T.; Hadfield, Robert W.; and Harding, William H., to Textron Inc. Carpet trim. 3,736,713, 6-5-73, Cl. 52-221.000.
Flachbarth, Dieter; and Schwarz, Hermann, to Siemens Aktiengesellschaft. Electromagnetically actuated switching device having delayed dropout. 3,754,165, 8-21-73, Cl. 317-141.00s.
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Flack, Frederick Colin; and James, Evan Douglas, to National Research Development Corporation. Incontinence measurement sensor. 3,759,246, 9-18-73, Cl. 128-2.00r.
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Flaherty, Francis E.; and Tupper, Wyman C., to Gillette Company, The. Processes for making cutting instruments. 3,723,195, 3-27-73, Cl. 148-12.400.
Flaherty, John J.; and Soble, Richard M., to Magnaflux Corporation. Ultrasonic doppler instrument. 3,732,532, 5-8-73, Cl. 340-1.00r.
Flaherty, John J.; and Strauts, Eric J., to Magnaflux Corporation. Laser scan testing system having pattern recognition means. 3,774,162, 11-20-73, Cl. 340-172.500.
Flaherty, Larry Paul; and Hale, William Alton, to Recognition Equipment Incorporated. Recognition unit for optical character reading system. 3,761,876, 9-25-73, Cl. 340-146.3ma.
Flaherty, Roger J., to Allied Control Company, Inc. Electromagnetic relay. 3,717,829, 2-20-73, Cl. 335-187.000.
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Flajole, William J. Passenger safety device. 3,743,317, 7-3-73, Cl. 280-150.00b.
Flak, Peter R., to Questor Corporation. Racket frame. 3,752,478, 8-14-73, Cl. 273-73.00h.
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Flanagan, Joseph E.; and Haury, Vernon E., to North American Rockwell Corporation. Gun propellant containing nonenergetic plasticizer nitrocellulose and triaminoguanidine nitrate. 3,732,130, 5-8-73, Cl. 149-18.000.
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Flanagan, Robert L., to Mobil Auto Crushers Corporation of America. Junk automobile crusher. 3,730,078, 5-1-73, Cl. 100-48.000.
Flanagan, Robert M.; and Johnson, Glenn W., to Amerace Esna Corporation. Timing device. 3,711,797, 1-16-73, Cl. 335-61.000.
Flanagan, Thomas L., to Emhart Corporation. Carton partition assembly. 3,750,929, 8-7-73, Cl. 229-15.000.
Flanagan, Thomas L., to Emhart Corporation. Apparatus for packaging articles. 3,771,282, 11-13-73, Cl. 53-194.000.
Flanagan, William H., to Nexus, Inc. Strain relief member and method of manufacturing same. 3,739,320, 6-12-73, Cl. 339-103.00r.
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Flank, William H.; McEvoy, James E.; and Stuart, John R., deceased (by Stuart, Clara M., successor), to Air Products and Chemicals, Inc. Catalyst for elevated temperatures. 3,723,351, 3-27-73, Cl. 252-454.000.
Flank, William H., to Air Products and Chemicals Inc. Offretite synthesis from minerals. 3,758,539, 9-11-73, Cl. 252-455.00z.
Flank, William H.; McEvoy, James E.; and Stuart, John R., deceased (by Stuart, Clara M., successor), to Air Products and Chemicals, Inc. Calcium sodium alumino disilicate foam. 3,775,136, 11-27-73, Cl. 106-40.000.
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Fleck, Fritz; and Schmid, Horst, to Sandoz Ltd. Phenanthrotriazolyl derivatives. 3,757,011, 9-4-73, Cl. 260-240.900.
Fleck, George J., to Whirlpool Corporation. Control apparatus for milk cooler. 3,731,494, 5-8-73, Cl. 62-157.000.
Fleck, Horst G.; Rome, Martin; and Wixted, Joseph M., to Weston Instruments, Inc. Dimension controlling apparatus for drawing. 3,740,561, 6-19-73, Cl. 250-201.000.
Fleck, John F., to Owens-Illinois, Inc. Method of lifting a T.V. funnel mold ring off a mold, orienting it into position, and setting on funnel mold. 3,708,274, 1-2-73, Cl. 65-307.000.
Fleck, Lawrence L.; Hickling, Robert; and Smalldon, Thomas J., II, to General Electric Corporation. Occupant restraint cushion. 3,733,091, 5-15-73, Cl. 280-150.0ab.
Fleck, Lawrence L.; and Hickling, Robert, to General Motors Corporation. Occupant restraint cushion. 3,762,741, 10-2-73, Cl. 280-150.0ab.
Fleckenstein, Andrew J.; and Mitchell, Herman C. Timing motor drive mechanism for water softener valves. 3,742,768, 7-3-73, Cl. 74-3.520.
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Fleischer, Herman J.; Lipsky, Philip; and Tiblin, Bert V., to Sperry Rand Corporation. Collision avoidance display apparatus for maneuverable craft. 3,725,918, 4-3-73, Cl. 343-5.0em.
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Fleischer, Paul Egon, to Bell Telephone Laboratories, Incorporated. Active RC loss equalizer. 3,715,680, 2-6-73, Cl. 330-107.000.
Fleischer, Robert L.; Price, Paul B.; Bostick, Edgar E.; and Holub, Fred F., to General Electric Company. Geometry control of etched nuclear particle tracks. 3,713,921, 1-30-73, Cl. 156-2.000.
Fleischer, Robert L.; and Walker, Robert M., to General Electric Company. Radiation detection method. 3,770,962, 11-6-73, Cl. 250-473.000.
Fleischer, Svend Sigurd Christie; and Jeppsson, Kind Helge, to Titan Textile Machines A/S. Apparatus for individually separating heddles and like objects from a row preparatory to a drawing-in operation. 3,777,339, 12-11-73, Cl. 28-46.000.
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Fleissner, Heinz, to Vepa AG. Apparatus for the continuous treatment of especially thick, voluminous textile materials with large widths. 3,719,062, 3-6-73, Cl. 68-5.00e.
Fleissner, Heinz, to Vepa AG. Process and apparatus for the production of synthetic leather. 3,723,161, 3-27-73, Cl. 117-66.000.
Fleissner, Heinz; Feess, Erich; and Gahlert, Wilhelm, to Vepa AG and Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process and apparatus for the treatment of textiles materials. 3,727,325, 4-17-73, Cl. 34-115.000.
Fleissner, Heinz, to Vepa AG. Process for the heat-setting of padded and printed endless synthetic filament groups and top slivers. 3,728,076, 4-17-73, Cl. 8-149.100.
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Fleissner, Heinz, to Vepa AG. Apparatus for the treatment of permeable material. 3,742,734, 7-3-73, Cl. 68-5.00d.
Fleissner, Heinz, to Vepa AG. Device for the tension-free wet treatment of textile material lengths. 3,742,737, 7-3-73, Cl. 68-177.000.
Fleissner, Heinz, to Vepa AG. Process and apparatus for the treatment of material lengths. 3,748,747, 7-31-73, Cl. 34-122.000.
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Fleissner, Heinz. Process for the dry production of a fiber web. 3,765,971, 10e16-73, Cl. 156-82.200.
Fleissner, Heinz, to Vepa AG. Process for the continuous steam treatment of staple fiber. 3,770,374, 11-6-73, Cl. 8-149.300.
Fleissner, Heinz, to Vepa AG. Apparatus for the continuous treatment of thick, voluminous textile materials. 3,776,004, 12-4-73, Cl. 68-5.00e.
Fleissner, Heinz. Process for the wet-treatment of liquid permeable materials. 3,778,227, 12-11-73, Cl. 8-151.000.
Fleissner, Heinz, to Vepa AG. Apparatus for the treatment of permeable textile materials. 3,779,047, 12-18-73, Cl. 68-5.00d.
Fleming, Donald Kingsley; Randhava, Sarabjit Singh; and Camara, Elias Humberto, to Institute of Gas Technology. CO shift process. 3,718,418, 2-27-73, Cl. 423-415.000.
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Fleming, Gordon R., to Energy Conversion Devices, Inc. Electroluminescent array and method and apparatus for controlling discrete points on the array. 3,708,717, 1-2-73, Cl. 315-169.0tv.
Fleming, Gordon R., to Energy Conversion Devices, Inc. Electroluminescent circuit or the like. 3,715,607, 2-6-73, Cl. 307-287.000.
Fleming, Gordon R., to Energy Conversion Devices, Inc. Electroluminescent circuit or the like. 3,774,196, 11-20-73, Cl. 340-336.000.
Fleming, Jack Fairchild, to Sterling Plastics Co. Slide rule cursor. 3,722,796, 3-27-73, Cl. 235-70.00b.
Fleming, James C.; and Shea, Michael D., to Eastman Kodak Company. Diazotype compositions and photographic processes. 3,761,263, 9-25-73, Cl. 96-49.000.
Fleming, James D., to General Motors Corporation. Rotary combustion engine. 3,754,536, 8-28-73, Cl. 123-8.450.
Fleming, James Evans; Lovell, Clarence A.; and Bendle, Janes M., to Air Land Systems Co. Radio communication system. 3,774,209, 11-20-73, Cl. 343-102.000.
Fleming, John Stuart, to Floxite Company, Inc. Reflective lighted mirror. 3,761,705, 9-25-73, Cl. 240-4.200.
Fleming, John W., Jr., to Industrial Nucleonics Corporation. Air column density variation insensitive nucleonic gauging system. 3,742,218, 6-26-73, Cl. 250-381.000.
Fleming, John W., Jr.; and McMullen, James Michael. Web sampling method and apparatus. 3,769,829, 11-6-73, Cl. 73-1.000.
Fleming, Larry J., to Fort Howard Paper Company. Dispenser with spring-urged, automatic-stop pressure plate. 3,777,931, 12-11-73, Cl. 221-57.000.
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Fleming, Robert T., to Fleming Metal Fabricators. Lock assembly for metal box. 3,745,796, 7-17-73, Cl. 70-81.000.
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Sill, Arthur D.; and Fleming, Robert W., 3,718,685.
Fleming, Ronald F., to Lanier Electronic Laboratory, Inc. Recorder indexing apparatus with a cumulative indication of the amount of tape withdrawn from the supply reel. 3,757,057, 9-4-73, Cl. 179-100.20r.
Fleming, William N. Animal feeder. 3,763,825, 10-9-73, Cl. 119-51.120.
Flemino, Reginald B., to Golden Age Industries. Portable check protector. 3,712,213, 1-23-73, Cl. 101-108.000.
Flentge, Robert W., to Dormeyer Industries, Inc. Power pack. 3,711,806, 1-16-73, Cl. 336-92.000.
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Flesselles, Jacques; and Poupin, Raymond, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Method and device for constituting a continuous stream of a plurality of superposed layers of rod-shaped objects such as cigarettes. 3,709,350, 19-73, Cl. 198-35.000.
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Fletcher, Edward Horton, to Deere & Company. Hydrostatic drive for vehicle. 3,714,999, 2-6-73, Cl. 180-6.480.
Fletcher, Edward Horton, to Deere & Company. Variable displacement pump control system. 3,738,111, 6-12-73, Cl. 60-452.000.
Fletcher, H. E., Co.: *See—*
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Fletcher, Ralph A.; and Oliver, Joseph R., 3,726,390.
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Fletcher, Ralph A.; and Oliver, Joseph R., to Fletcher, H. E., Co. Method and apparatus for conveying materials. 3,726,390, 4-10-73, Cl. 198-190.000.
Fletcher, Ralph A.; and Oliver, Joseph R., to Fletcher, H. E., Co. Apparatus for cutting stone. 3,728,997, 4-24-73, Cl. 125-23.000.
Fletcher, Ralph A.; and Oliver, Joseph R., to Fletcher, H. E., Co. Reciprocating wedge structure including lubricant supply means. 3,743,357, 7-3-73, Cl. 299-22.000.
Fletcher, Ralph A.; and Oliver, Joseph R., to Fletcher, H. E., Co. Method for cutting stone with pressure operated means. 3,756,216, 9-4-73, Cl. 125-23.00c.
Fletcher, Ralph P., Jr., to Boeing Company, The. Methods for forming wire bundles and an apparatus for carrying out the method. 3,736,652, 6-5-73, Cl. 29-429.000.
Fletcher, Richard J.; and Fletcher, Robert I. Refrigerated surge tank for use with aerobic sewage digestion system. 3,737,382, 6-5-73, Cl. 210-12.000.
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Fletcher, Robert I. Apparatus for handling sewage. 3,720,320, 3-13-73, Cl. 210-199.000.
Fletcher, Robert W., to Standard Oil Company. Stackable containers. 3,721,367, 3-20-73, Cl. 220-97.00c.
Fletcher, Roger Florin, to Bell Telephone Laboratories, Incorporated. Sealed contact matrix switch having a flexible membrane at a crosspoint opening. 3,718,876, 2-27-73, Cl. 335-152.000.
Fletcher, Samuel G. Process and apparatus for determining the degree of nasality of human speech. 3,752,929, 8-14-73, Cl. 179-1.05a.
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Fleury, Gerard, to Societe Nationale Industrielle Aerospatiale. System for determining the fatigue of a structure experiencing varying stresses. 3,744,300, 7-10-73, Cl. 73-67.300.
Fleury, Gerard, to Societe Nationale Industrielle Aerospatiale. Automatic maximum-torque indicator associated with a shaft and its use in helicopters. 3,761,693, 9-25-73, Cl. 235-151.300.
Flewwelling, Herbert Martin, to Domtar Limited. Manufacture of corrugated board. 3,773,587, 11-20-73, Cl. 156-201.000.
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Flick, Howard S., to Jackson, Byron, Inc. Tubing tong hydraulic drive system. 3,719,237, 3-6-73, Cl. 173-12.000.
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Flickinger, Daniel N. Amplifier system. 3,723,896, 3-27-73, Cl. 330-30.00r.
Flickinger, Daniel N. Amplifier system utilizing regenerative and degenerative feedback to shape the frequency response. 3,752,928, 8-14-73, Cl. 179-1.00a.
Flider, Frank S., to Justrite Manufacturing Company. Safety container for inflammables. 3,727,807, 4-17-73, Cl. 222-469.000.
Flider, Frank S., to Justrite Manufacturing Company. Safety container for inflammables. 3,729,122, 4-24-73, Cl. 222-469.000.
Flider, Frank S., to Justrite Manufacturing Company. Modularly constructed plastic carbide lamp. 3,735,120, 5-22-73, Cl. 240-11.100.
Flider, Frank S., to Justrite Manufacturing Company. Plastic jerry can. 3,746,200, 7-17-73, Cl. 215-10.000.
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Fling, John J., to Sigma Engineering Company. Diaphragm ear valve. 3,730,181, 5-1-73, Cl. 128-152.000.
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Flink, Frank B., to Phillips Petroleum Company. Method and apparatus for forming a container. 3,712,184, 1-23-73, Cl. 93-39.10r.
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Flint, Alan G., to Industrial Modular Systems Corporation. Jig holder for clamping articles in place during treatment thereof. 3,766,046, 10-16-73, Cl. 204-297.00w.
Flint, Edward F., to North American Rockwell Corporation. Dual color radiometer method selectively discriminating against a radiant energy emissivity characteristic of a preselected atmospheric state. 3,735,136, 5-22-73, Cl. 250-83.30h.
Flint, Edward F. Dual beam radiometer for clear air turbulence measurement. 3,780,293, 12-18-73, Cl. 250-339.000.
Flint, Graham W.; Hudson, William C.; Crow, Thomas G.; and Downes, George R., Jr., to International Laser Systems, Inc. Enclosed laser apparatus with remote workpiece control. 3,775,586, 11-27-73, Cl. 219-121.001.
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Floessel, Dieter; and Clerc, Henri, to Aktiengesellschaft Brown, Boveri & Cie. Pressure-gas actuated electrical circuit breaker. 3,728,507, 4-17-73, Cl. 200-148.00d.
Floessel, Dieter, to Aktiengesellschaft Brown, Boveri & Cie. Insulation gas-filled tubular casing structure for high-voltage conductor. 3,739,074, 6-12-73, Cl. 174-28.000.
Floessel, Dieter, to Aktiengesellschaft Brown, Boveri & Cie. Insulation gas-filled tubular casing structure for high-voltage conductor. 3,778,526, 12-11-73, Cl. 174-13.000.
Flohr, Peter, to Siemens Aktiengesellschaft. Electric holding magnet serving as tripping device for ground leakage circuit breakers. 3,763,450, 10-2-73, Cl. 335-174.000.
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Florentine, Frederick W. Fuel converter. 3,743,258, 7-3-73, Cl. 261-142.000.
Flores, Margarita C.; and Staggs, Arnol. Drill head unit with throwaway insert holders. 3,765,496, 10-16-73, Cl. 175-383.000.
Flores, Robert Joseph, to Sherwin-Williams Company, The. Manufacture of pigments. 3,758,320, 9-11-73, Cl. 106-288.00q.
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Florjancic, Dusan, to Sulzer Brothers Limited. Circulating system for a nuclear reactor. 3,719,557, 3-6-73, Cl. 176-56.000.
Florjancic, Peter. Apparatus for producing annularly closed, interconnected elements. 3,718,420, 2-27-73, Cl. 425-441.000.
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Florjancic, Peter. Process for the fabrication of a link chain. 3,733,811, 5-22-73, Cl. 59-35.000.
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Flory, Howard E. Harvesting sweeper. 3,728,850, 4-24-73, Cl. 56-12.800.
Flory, John F., to Esso Research and Engineering Company. Single anchor leg single point mooring system. 3,708,811, 1-9-73, Cl. 9-8.00p.
Flory, Lester W., to McFarland, L. D., Company. Method and apparatus for deep incising poles. 3,709,271, 1-9-73, Cl. 144-309.000.
Flouret, George Rogelio, to Abbott Laboratories. L-Histidyl-L-proline amide. 3,737,422, 6-5-73, Cl. 260-112.500.
Flouret, George Rogelio, to Abbott Laboratories. Hexapeptide. 3,778,427, 12-11-73, Cl. 260-112.500.
Flouret, George Rogelio, to Abbott Laboratories. Octapeptide intermediate to gonadotropin releasing hormone. 3,780,014, 12-18-73, Cl. 260-112.500.
Flouret, George Rogelio, to Abbott Laboratories. Tripeptide. 3,781,272, 12-25-73, Cl. 260-112.500.
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Fluck, Rene, to Schweizerische Industrie-Gesellschaft. Stacking device for regularly shaped, flat articles, for examples biscuits or cookies. 3,743,118, 7-3-73, Cl. 214-7.000.
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Fogg, O. Douglas, to Hewlett-Packard Company. Active attenuator. 3,757,240, 9-4-73, Cl. 330-29.000.
Fogle, James W., to Wheelabrator Corporation, The. Dust collector for use with vertically movable dust generators. 3,708,926, 1-9-73, Cl. 51-273.000.
Fogliacco, Vittorio: *See—*
Brambilla, Guido; and Fogliacco, Vittorio, 3,729,101.
Fohr, Thomas E., to Allied Chemical Corporation. Unitary seat belt buckle. 3,716,895, 2-20-73, Cl. 24-230.0sl.
Fohrhaltz, Howard A., to General Electric Company. Direct drive and stop mechanism for load tap changer. 3,761,650, 9-25-73, Cl. 200-17.00r.
Fok, Samuel S. M.: *See—*
Blome, Eugene R.; and Fok, Samuel S. M., 3,712,816.
Fokin, Evgeny Pavlovich: *See—*
Sokolsky, Dmitry Vladimirovich; Zakumbaeva, Gaukhar Daulenovna; Zhubanov, Kair Akhmetovich; Mazin, Evgeny Petrovich; Scheolov, Nikolai Illarionovich; Fokin, Evgeny Pavlovich; and Livanov, Vladimir Arkadievich, 3,781,227.
Fokker-V.F.W. N.V.: *See—*
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Folch, Andres, Jr.: *See—*
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Folderth, William M., Jr. Display rack for locksets. 3,774,320, 11-27-73, Cl. 35-49.000.
Foldes, Stephen, to General Electric Company. Method of preparing copper for use in the arcing electrodes of a vacuum circuit interrupter. 3,776,719, 12-4-73, Cl. 75-76.000.
Folds, Donald L.: *See—*
Cook, Rufus Lee; and Folds, Donald L., 3,718,898.
Foley, Charles F.; McCarthy, Charles D.; and Hardin, Charles H., to Kusan, Inc. Robot push toy. 3,724,124, 4-3-73, Cl. 46-97.000.
Foley, Charles F.; and McCarthy, Charles D. Holder for transferring fishing line to reel. 3,776,485, 12-4-73, Cl. 242-106.000.
Foley, Eugene Burdett, Jr.; MacRae, Alfred Urquhart; Simms, Douglas Leon; Polk, Norman Henry; and White, Clark Woody, to Bell Telephone Laboratories, Incorporated. Apparatus and method for determining the spatial distribution of constituents and contaminans of solids. 3,767,925, 10-23-73, Cl. 250-251.000.
Foley, Gary W.: *See—*
Guptill, Joel P.; and Foley, Gary W., 3,764,495.
Foley, Gerard M.; and Mosley, Gerald, to Leeds & Northrup Company. Cathode ray tube system with strip chart recorder display format. 3,752,917, 8-14-73, Cl. 178-6.800.
Foley, John E., to United States of America, Atomic Energy Commission. Random source interrogation system. 3,736,429, 5-29-73, Cl. 250-71.50r.
Foley, John T., to Witco Chemical Corporation. Stable water-in-oil emulsions. 3,728,277, 4-17-73, Cl. 252-309.000.
Foley, Keith Oliver, to Imperial Chemical Industries, Limited. Supporting devices. 3,713,604, 1-30-73, Cl. 242-118.200.
Foley, Kendall F., to Hercules Incorporated. Polycarboxylic acid esters of halogen containing alcohols. 3,772,342, 11-13-73, Cl. 260-475.00r.
Foley, Lary L., to Clorox Company, The. Automatic dispensing apparatus. 3,778,849, 12-18-73, Cl. 4-228.000.
Foley, Norman Leslie, to Auscoteng Pty. Ltd. Vacuum pump. 3,711,228, 1-16-73, Cl. 418-98.000.
Foley, Norman Leslie, to Auscoteng Pty. Ltd. Desalination plant. 3,725,206, 4-3-73, Cl. 202-205.000.
Foley, Richard G.: *See—*
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Folger Adams Co.; a division of Telkee, Inc.: *See—*
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Folger, Michael S.: *See—*
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Folgmann, Helmut G.: *See—*
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Folgner, Claus-Peter, Internal ski rack for automobile. 3,746,224, 7-17-73, Cl. 224-42.10c.
Folk, Dennis L.; and Pavnica, Cyril A., to Bemis Company, Inc., mesne. Sealer for random size shipping cases. 3,708,951, 1-9-73, Cl. 53-75.000.
Folkenroth, Richard P.; and Mader, William G., to Dentsply International Inc. Dental material mixer. 3,749,371, 7-31-73, Cl. 259-72.000.
Folkens, Dieter: *See—*
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Folkers, Karl: *See—*
Folkers, Karl; and Chang, Jaw-Kang, 3,757,003.
Folkers, Karl; and Enzmann, Franz H. Tripeptide having the activity of the thyrotropin releasing hormone. 3,746,697, 7-17-73, Cl. 260-112.500.
Folkers, Karl; Boler, Jan B.; and Chang, Jaw-Kang, to Folkers, Karl, Dr. Method for synthesizing pyroglutamyl-histidyl-prolinamide. 3,753,969, 8-21-73, Cl. 260-112.500.
Folkers, Karl; and Chang, Jaw-Kang, to Folkers, Karl. Process for preparing L-pyroglutamyl-L-histidyl-L-prolinamide. 3,757,003, 9-4-73, Cl. 260-112.500.
Folkers, Karl, Dr.: *See—*
Folkers, Karl; Boler, Jan B.; and Chang, Jaw-Kang, 3,753,969.
Folkert, Henry. Steering system for trailers. 3,753,580, 8-21-73, Cl. 280-443.000.
Folkert, Henry, to Bank of Sunnyside, mesne. Orchard sprayer. 3,774,845, 11-27-73, Cl. 239-78.000.
Folkerts, Walter E.; and Jamieson, Reginald Y., to Chrysler Corporation. Fluid coupling for high pressure spool valve hydraulic power steering gear. 3,751,002, 8-7-73, Cl. 251-148.000.
Folkes, Hugh L., to Dunlop Holdings, Limited. Continuous curing process. 3,714,317, 1-30-73, Cl. 264-231.000.
Folkes, Hugh Lorain, to Dunlop Holdings Limited. Continuous curing apparatus. 3,779,684, 12-18-73, Cl. 425-233.000.
Folkestad, Finn Enok: *See—*
Boyum, Oystein; Folkestad, Finn Enok; and Torvund, Asbjorn, 3,729,550.
Folkins, Glenn O., to United States of America, Atomic Energy Commission. Contact fuse. 3,769,911, 11-6-73, Cl. 102-7.400.
Folkins, Hillis O., to Union Oil Company of California. Coking feedstock comprising a pyrolysis tar and a heavy cracked oil. 3,759,822, 9-18-73, Cl. 208-131.000.
Folkins, Hillis O., to Union Oil Company of California. Method of producing high purity coke by delayed coking. 3,769,200, 10-30-73, Cl. 208-53.000.
Folkmann, Eduard: *See—*
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Foll, George Edward: *See—*
Firth, Richard Andrew; and Foll, George Edward, 3,755,477.
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Folley, Cranston Wesley; and Rocha, John Gonsalves, to Maremont Corporation. Machine gun gas actuating and evacuation system. 3,715,955, 2-13-73, Cl. 89-193.000.
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Follrath, Richard D.; and Race, Russell L., to Clark Automation, Inc. Automatic extrusion handling system. 3,739,619, 6-19-73, Cl. 72-255.000.
Folske, Donald W.: *See—*
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Folsom, Lawrence R.; Gardy, Victor R.; and Donovan, Gerard H., to General Electric Company. Ammunition handling system. 3,766,823, 10-23-73, Cl. 89-33.00d.
Folsom, William J.: *See—*
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Folson, Henry J.; Hegel, James D.; Hosokawa, William T.; Pester, William B.; and Porter, Irwin C., to Mattel, Inc. Ask and answer toy. 3,711,964, 1-23-73, Cl. 35-8.00a.
Folson, Henry J., to Mattel, Inc. Sound illustrated book. 3,744,150, 7-10-73, Cl. 35-8.00a.
Folstadt, Robert H. Rotary engine. 3,739,755, 6-19-73, Cl. 123-43.00b.
Folts, Harold D.: *See—*
Croisant, John A.; and Folts, Harold D., 3,709,571.
Folts, John D., to Wisconsin Alumni Research Foundation. Electromagnetic flowmeters for blood or other conductive fluids. 3,739,640, 6-19-73, Cl. 73-194.0em.
Foltz, Carl L.: *See—*
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Foltz, Robert E., to Lawrence Brothers, Inc. Hinge plate switch structure. 3,729,603, 4-24-73, Cl. 200-61.700.
Folus, Stanford G., to Becton, Dickinson and Company. Inoculation and transfer loop and sterilizer. 3,742,187, 6-26-73, Cl. 219-240.000.
Folz, Sylvester D., to Upjohn Company, The. Anthelmintic method and formulations employing phenylhydroazone derivatives. 3,721,740, 3-20-73, Cl. 424-327.000.
Folz, Sylvester D., to Upjohn Company, The. Anthelmintic method and formulations employing phenylhydrazone derivatives. 3,721,742, 3-20-73, Cl. 424-327.000.
Fomin, Stepan Frolovich: *See—*
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Fomm, Klaus Heinrich; and Barwicki, Werner, to VEB Polygrafischer Maschinenbau Leipzig, mesne. Method of and apparatus for rounding the spine of a book block. 3,747,145, 7-24-73, Cl. 11-5.000.
Fon Toy, Arthur Dock; and Rattenbury, Kenneth H., to Stauffer Chemical Company. Alkylammonium alkylphosphonamidates. 3,742,040, 6-26-73, Cl. 260-501.210.
Fonda, Albert G. Steering and directing mechanism. 3,716,110, 2-13-73, Cl. 180-79.20r.
Fonden, Per Borje; and Walander, Karl Ove Torgny, to Borgs Fabriks AB. Operating system for aircraft barrier nets. 3,724,333, 4-3-73, Cl. 91-411.00r.
Fonden, Per Borje; and Walander, Karl Ove Torgny, to Borgs Fabriks AB. Line or band for arresting aircraft. 3,724,787, 4-3-73, Cl. 244-110.00a.
Fong, Leong Q. Fluidized bed and method of treating granular material. 3,733,056, 5-15-73, Cl. 259-4.000.
Fong, Leong Quock, to Bangor Punta Operations, Inc. Air conveyor for flat thin articles. 3,734,567, 5-22-73, Cl. 302-2.00r.
Fong, William, to National Research Development Corporation. Reluctance motors. 3,721,844, 3-20-73, Cl. 310-166.000.
Fong, William; and Raweliffe, Gordon Hindle, to National Research Development Corporation. Rotary electric machines. 3,761,753, 9-25-73, Cl. 310-185.000.
Fonken, Gunther S.: *See—*
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Fonken, Gunther S.; Herr, Milton E.; and Murray, Herbert C., to Upjohn Company, The. Oxygenated 3-aza bicyclo[3,3,1]nonanes. 3,740,408, 6-19-73, Cl. 260-293.540.
Fonken, Gunther S.; Herr, Milton E.; and Murray, Herbert C., to Upjohn Company, The. Oxygenated 3-azabicyclo [3.3.1] nonanes. 3,741,973, 6-26-73, Cl. 260-293.540.
Fonken, Gunther S.; Herr, Milton E.; and Murray, Herbert C., to Upjohn Company, The. Oxygenated polymethyleneimines. 3,780,022, 12-18-73, Cl. 260-239.00b.
Fonseca, Anthony G.; and Every, Richard L., to Continental Oil Company. Method of drilling sulfur for transporting through a pipeline. 3,767,738, 10-23-73, Cl. 264-7.000.
Fonseca, Marco A.; Gibbon, Enrique T.; and Gonzalle, Jose J., to Monocar HC Internacional S.A. Auxiliary anti pollution air intake device for internal combustion engines. 3,756,270, 9-4-73, Cl. 137-480.000.
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Fontaine, John G. Captive air brake system for motor vehicles. 3,761,138, 9-25-73, Cl. 303-9.000.
Fontaine, John G. Brake with vehicle speed and accelerator controls. 3,763,975, 10-9-73, Cl. 192-3.0tr.
Fontaine, Lawrence A. Ladder trolley. 3,731,947, 5-8-73, Cl. 280-36.00r.
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Fontanel, Andre; and Grau, Gerard, to Institut Francais du Petrole des Carburants et Lubrifiants. Method for surfaces exploration adapted in particular to seismic prospecting and device therefor. 3,721,954, 3-20-73, Cl. 340-15.5tc.
Fontanella, Ethel L.: *See—*
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Fontein, Freerk J.; Ploeg, Martinus; and Van Linden, Jacques, to Stamicarbon N.V. Device for pulsating a liquid in a column. 3,719,204, 3-6-73, Cl. 137-568.000.
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Fonzi, Giorgio; Paleologo, Teo; and Toso, Giorgio, to Societa Italiana Resine S.p.A. Porometric materials. 3,751,329, 8-7-73, Cl. 161-159.000.
Fonzi, Giorgio; Vargiu, Silvio; and Giovanni, Sesto S., to Societa Italiana Resine S.p.A. Poromeric materials. 3,779,855, 12-18-73, Cl. 161-159.000.
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Foote, Daniel J., to Master Lock Company. Adjustable shackle key holder. 3,736,781, 6-5-73, Cl. 70-456.00r.
Foote, Daniel J., to Master Lock Company. Inset lock for lockers and the like. 3,742,742, 7-3-73, Cl. 70-78.000.
Foote, Daniel J., to Master Lock Company. Safety lock assemblage for movable items. 3,765,197, 10-16-73, Cl. 70-58.000.
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Foote, James B., to Owens-Illinois, Inc. Inertia pump for liquids. 3,765,800, 10-16-73, Cl. 417-241.000.
Foote, James F.: *See—*
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Forbes, Hampton E., Jr., to Westvaco Corporation. Display carton. 3,764,004, 10-9-73, Cl. 206-45.140.
Forbes, Hampton E., Jr., to Westvaco Corporation. Pour spout carton. 3,767,107, 10-23-73, Cl. 229-17.00r.
Forbes, Hampton L., Jr., to Westvaco Corporation. Pour spout carton having a hinged reclosable lid. 3,764,058, 10-9-73, Cl. 229-17.00r.
Forbes, Richard H. Musical instrument. 3,774,492, 11-27-73, Cl. 84-170.000.
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Ford, Eric Harold, to Lumenition Limited. Device for measuring the speed of a rotating shaft. 3,746,987, 7-17-73, Cl. 324-167.000.
Ford, Eric Harold; and Tate, Brian Christopher, to Lumenition Limited. Means for measuring speed or distance. 3,746,988, 7-17-73, Cl. 324-175.000.
Ford, Ernest C., Jr., to ICI America, Inc. Unsaturated esters, polyesters, and cross-linked polyesters. 3,760,032, 9-18-73, Cl. 260-869.000.
Ford, Ernest C., Jr.; and Zech, John D., to Atlas Chemical Industries, Inc. Lipophilic detergent compositions. 3,773,804, 11-20-73, Cl. 260-403.000.
Ford, Fred Austin, to Cities Service Company. Process for the purifying ethylene glycol. 3,732,320, 5-8-73, Cl. 260-637.00r.
Ford, Frederick M.; and Harvey, Robert L., to Oak Electro/Netics Corporation. Rotary solenoid ratchet switch. 3,763,713, 10-9-73, Cl. 74-128.000.
Ford, Geoffrey Ewart; and Waite, Philip Sidney, to Fords (Finsbury) Limited. Cap making machines. 3,738,147, 6-12-73, Cl. 72-344.000.
Ford, Geoffrey Ewart; and Waite, Philip Sidney, to Fords (Finsbury) Limited. Bottle inspection apparatus. 3,746,165, 7-17-73, Cl. 209-74.000.
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Forster, Hans-Joachim M.; Katz, Klaus; Bulow, Manfred; Scheuter, Anton; Bordovsky, Jaromir; and Wuchter, Gerhard, to Daimler-Benz Aktiengesellschaft. Servo steering mechanism for vehicles. 3,771,383, 11-13-73, Cl. 74-499.000.

Forster, Hans-Joachim M.; Zaiser, Wolfgang; Hanke, Hans; and Bultmann, Friedrich, to Daimler-Benz Aktiengesellschaft. Hydrodynamic brake for vehicles, especially motor vehicles. 3,774,734, 11-27-73, Cl. 188-296.000.

Forster, Hans-Joachim M.; and Hensel, Werner, to Daimler-Benz Aktiengesellschaft. Hydrodynamic brake for vehicles especially for motor vehicles. 3,777,860, 12-11-73, Cl. 188-291.000.

Forster, Harry D., Jr., to Holograph Corporation. Composite lens for an optical communication system providing directly viewed real images. 3,744,882, 7-10-73, Cl. 350-241.000.

Forster, Horst: *See—*
Hackstein, Karl-Gerhard; Kadner, Martin; and Forster, Horst, 3,781,216.

Forster, Jurg. Shuttle with improved means for securing bobbin-retaining clamp. 3,750,717, 8-7-73, Cl. 139-207.000.

Forster, Karl-Heinz: *See—*
Johne, Albrecht; Forster, Karl-Heinz; and Schanze, Klaus, 3,762,320.

Forster, Karl-Heinz; Vetter, Lothar; Johne, Hans; and Schanze, Klaus, to VEB Polygraph Leipzig Druckmaschinenwerk Planeta Radebeul. Apparatus for remote control of positioning and drive members for printing machines. 3,746,957, 7-17-73, Cl. 318-696.000.

Forster, Kenneth R.; and Wheeler, Wendell J., to International Business Machines Corporation. Conductive metal powder connector. 3,771,107, 11-6-73, Cl. 339-96.000.

Forster, Lloyd M. Bridge hand dealing system. 3,743,294, 7-3-73, Cl. 273-149.00p.

Forster Mfg. Co., Inc.: *See—*
Harriman, Allen C., 3,709,403.

Forster, Nikolaus: *See—*
Zimmermann, Erich; and Forster, Nikolaus, 3,752,896.

Forster, Peter E.; and Adamcik, John A., to Motch & Merryweather Machinery Company, The. Workpiece loader and unloader. 3,766,617, 10-23-73, Cl. 29-33.00p.

Forster, Peter E.; and Nowak, Ronald R., to Motch & Merryweather Machinery Company, The. Weight standardization machine. 3,771,613, 11-13-73, Cl. 177-60.000.

Forster, Werner: *See—*
Braun, Klaus; Gabsch, Gunther; Forster, Werner; Ertel, Rolf; and Femmer, Klaus, 3,764,599.

Forstmann, Gunther. Method of producing fabric. 3,756,178, 9-4-73, Cl. 112-266.000.

Forstmann, Julius V. D.; and Willison, Richard M., to Bethlehem Steel Corporation. Formation of chromium-containing coatings on steel strip. 3,768,987, 10-30-73, Cl. 29-196.100.

Forstmeyer, Udo, to Siemens Aktiengesellschaft. Control circuit for a high voltage power supply utilizing a rectifier cascade. 3,775,664, 11-27-73, Cl. 321-18.000.

Forstner, Josef: *See—*
Zima, Herbert; and Forstner, Josef, 3,746,671.

Forsyth, John P.; Forsyth, Robert W.; Holcomb, Donald R.; and Shiovitz, Nathan N., to Lockheed Aircraft Corporation. Modular firefighting unit. 3,770,060, 11-6-7, Cl. 169-24.000.

Forsyth, Robert P., to Polaroid Corporation. Method and apparatus for fabricating imaging means. 3,709,022, 1-9-73, Cl. 72-311.000.

Forsyth, Robert W.: *See—*
Forsyth, John P.; Forsyth, Robert W.; Holcomb, Donald R.; and Shiovitz, Nathan N., 3,770,060.

Forsythe, David M.; and Runckel, William J., to Publishers Paper Co. Repair of wood panels. 3,741,853, 6-26-73, Cl. 161-41.000.

Forsythe, John D. Safety belt. 3,718,241, 2-27-73, Cl. 224-5.00a.

Forsythe, William R. Pipe joint tester. 3,779,068, 12-18-73, Cl. 73-49.100.

Fort, Eldon R.; Prescott, Basil O.; and Walters, Arley, to Shell Oil Company. Mapping hydrocarbon seepages in water-covered regions. 3,747,405, 7-24-73, Cl. 73-170.00a.

Fort, George E., to American Standard Inc. Cross-track switch. 3,707,921, 1-2-73, Cl. 104-99.000.

Fort Howard Paper Company: *See—*
Fleming, Larry J., 3,777,931.

Fort, Jack B., to Bendix Corporation, The. Filter contact for an electrical connector. 3,764,943, 10-9-73, Cl. 333-79.000.

Fort, Johnny L.; and Frederick, Cecil S., to Cutters Machine Company, Inc. High-speed control apparatus for cloth spreading machine. 3,735,223, 5-22-73, Cl. 318-258.000.

Fort, Larry W., to Telex Computer Products, Inc. Application of an automatic pulse width controlled, monostable multivibrator for detecting phase encoded information on magnetic tape. 3,727,202, 4-10-73, Cl. 340-174.10a.

Fort Lock Corporation: *See—*
Falk, Morris, 3,738,136.
Falk, Sidney, 3,728,880.
Trainor, Patrick M., 3,744,286.

Fort, Paul H., to Lynch Machinery. Article grouping system. 3,752,293, 8-14-73, Cl. 198-30.000.

Fort Smith Table and Furniture Co.: *See—*
Oglesby, Ira D., Jr., 3,709,159.

Forte, Frank N. Safety device for an extension ladder and method of mounting. 3,768,123, 10-30-73, Cl. 24-73.0cs.

Forte, Robert A.: *See—*
Ruthman, Jerome E.; Smith, William L.; and Forte, Robert A., 3,759,449.

Fortescue, Peter, to Gulf Oil Corporation. Control rod drive system 3,741,867, 6-26-73, Cl. 176-36.00s.

Fortescue, Peter, to Energy & Enviromental Systems, Inc. Fuel element and venting system using same. 3,743,576, 7-3-73, Cl. 176-37.000.

Forthmann, Frederick F., Jr.; and Beezer, Earl F., to Forthmann Label Services Company. Strip material feeding device. 3,776,441, 12-4-73, Cl. 226-114.000.

Forthmann Label Services Company: *See—*
Forthmann, Frederick F., Jr.; and Beezer, Earl F., 3,776,441.

Forti, Emilio; Del Guercio, Carlo; and Gazzani, Giovanni. Contraceptive means. 3,763,861, 10-9-73, Cl. 128-271.000.

Fortin, Bernard Marie Charles. Collapsible boat with V-shaped pneumatic float. 3,739,410, 6-19-73, Cl. 9-2.00a.

Fortin, Michael Joseph; Latchford, Joseph T.; and Vandenheuvel, Marinus Theodorus, to Fortin-Latchford Limited. Molding apparatus. 3,730,665, 5-1-73, Cl. 425-259.000.

Fortin, Roger: *See—*
Beaulieu, Alexandre J.; Fortin, Roger; Johnson, Derwyn C.; and Robinson, Alexander, 3,725,735.

Fortin-Latchford Limited: *See—*
Fortin, Michael Joseph; Latchford, Joseph T.; and Vandenheuvel, Marinus Theodorus, 3,730,665.

Fortmann, Karl L., to Pennwalt Corporation. Preparing of baked goods with coated salt. 3,758,311, 9-11-73, Cl. 99-90.00r.

Fortmann, Manfred, to Interatom, Internationale Atomreaktorbau GmbH. Monitoring device for reversible blow-out disc. 3,770,918, 11-6-73, Cl. 200-61.080.





Fortna, Steven L.; and Koroch, Ronald W., to McDonnell Douglas Corporation. Variable load feel. 3,747,876, 7-24-73, Cl. 244-83.00d.

Fortnam, George A., to Den-Tal-EZ Mfg. Co. Adjustable head rest assembly for a dental chair. 3,719,388, 3-6-73, Cl. 297-405.000.

Fortner, Walter: *See—*
Bachner, Ernst; and Fortner, Walter, 3,741,277.

Fortner, Walter; and Hoscher, Rudolf, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Continuous casting plant for slabs. 3,766,968, 10-23-73, Cl. 164-283.000.

Fortriede, Charles J., to McGraw-Edison Company. Laundry sling bag and cart therefor. 3,743,122, 7-3-73, Cl. 214-44.00r.

Fortsch, William A., to Thomas & Betts Corporation. Releasabe self-locking bundling strap. 3,747,164, 7-24-73, Cl. 24-16.0pb.

Fortuna-Werke Maschinenfabrik Aktiengesellschaft: *See—*
Braun, Dieter, 3,780,390.
Erb, Edgar; Habiger, Walter; Kramer, Willi; Pfeil, Wolfgang; and Weigele, Reinhold, 3,715,979.
Fingerle, Karl; and Haag, Jurgen, 3,780,605.
Koppenwallner, Georg, 3,728,827.
Koppenwallner, Georg, 3,748,788.

Fortune, William S. Automatic system for treating elongated stock. 3,726,603, 4-10-73, Cl. 408-40.000.

Fortunski, Anthony C., to Fargo Machine & Tool Company. Work-holding and advancing table. 3,771,267, 11-13-73, Cl. 51-21.0sr.

Fortuyn, Koenraad Droogleever. Weight batching device for fibrous material such as shredded tobacco. 3,716,061, 2-13-73, Cl. 131-22.00a.

Forward, Robert L.: *See—*
Weber, Joseph; Zipoy, David M.; and Forward, Robert L., 3,722,284.

Forward, Robert L., to Hughes Aircraft Company. Rotation-rate measuring apparatus. 3,778,163, 12-11-73, Cl. 356-114.000.

Forward, Worthy J., Jr., to USM Corporation. Chip remover. 3,732,592, 5-15-73, Cl. 15-246.500.

Forys, Joseph E.: *See—*
Hawkins, Harold V.; and Forys, Joseph E., 3,722,316.

Fosayama, Takeo: *See—*
Suzuki, Masaru; Sagarieuil, Katumasa; Yoshiikyoto, Toshiya; Saito, Yasuo; Fosayama, Takeo; and Hasimoto, Takeshi, 3,761,772.

Fosdick, Dale P., to Pittsfield Products, Inc. Tubular filter and method of making the same. 3,736,641, 6-5-73, Cl. 29-163.50f.

Fosdick, Robert E., to Texas Instruments, Incorporated. Data processor. 3,757,308, 9-4-73, Cl. 340-172.500.

Foseco International Limited: *See—*
Atterbury, Robert Edwin, 3,748,121.
Buckingham, William T., 3,728,102.
Clark, Peter Stanley, 3,771,997.
Eccleston, Kenneth Thomas, 3,727,676.
Gregan, Daniel P., 3,737,138.
Hardy, Trevor, 3,754,944.
Hawthorne, Peter Frederick, 3,752,683.
Jago, Edward John; Eastwood, Fred; and Todish, W. Donald, 3,749,148.
Jeanneret, Jean Louis, 3,735,797.
Lacjak, Richard Andrew, 3,756,554.
McCray, Walter A., 3,762,033.
Robiette, Alfred Gordon Evans, 3,715,440.
Wilton, John, 3,770,466.

Fosco Trading A.G.: *See—*
Clark, Peter Stanley; and Hobbins, David William, 3,752,721.
Nangarrow, John; Jones, Paul Victor; and Clark, Peter Stanley, 3,749,628.
Rausch, Paul Gilger; and Todish, Walter Donald, 3,739,833.

Foshee, William H.; and Jones, Lester C. Tool for adjusting truck axle caster. 3,777,542, 12-11-73, Cl. 72-457.000.

Fosker, Alan Philip; and Mill, Patrick James, to Miles Laboratories, Inc. Dry water-dispersible aluminum hydroxide gels. 3,743,720, 7-3-73, Cl. 424-88.000.

Fosker, Alan Phillip; and Mill, Patrick James, to Miles Laboratories, Inc. Colorimetric determination of dehydrogenases. 3,732,147, 5-8-73, Cl. 195-103.50r.

Foskett, Roger D.: *See—*
Keller, Peter H.; and Foskett, Roger D., 3,740,155.

Foskett, Roger D.; and Russell, David B., to American Velcro, Inc., mesne. Heat applicator apparatus and method for fastener tapes. 3,772,947, 11-20-73, Cl. 83-18.000.

Foss, Carl E., to Kollmorgen Corporation. Color order system. 3,751,829, 8-14-73, Cl. 35-28.300.

Foss, Frank D. Humidifier-dehumidifier device. 3,740,959, 6-26-73, Cl. 62-3.000.

Foss, George J.: *See—*
Acton, Daniel D.; and Foss, George J., 3,741,423.

Foss, George J., to Anchor Hocking Corporation. Composite cap with pull-out panel. 3,734,333, 5-22-73, Cl. 215-46.00a.

Foss, Gunter G., to Free-Flow Packaging Corporation. Dispensing hopper. 3,735,915, 5-29-73, Cl. 229-17.00b.

Foss, Richard C.: *See—*
Cowpland, Michael C. J.; and Foss, Richard C., 3,772,470.

Foss, Richard C.; and Spittle, Walter, to Microsystems International Limited. Bi-directional amplifying bus-switch. 3,769,525, 10-30-73, Cl. 307-254.000.

Foss, Rudolph G., to Unique Industries, Inc. Fiberglass pipe working tool. 3,720,121, 3-13-73, Cl. 82-4.00c.

Fossan, Kare Ragnvald, to Nitro Nobel AB. Method for the isolation of tetranitromethane from a solution of nitric acid with comparatively low contents of. 3,781,374, 12-25-73, Cl. 260-644.000.

Fossberg, Robert A., to Hurum Shipping & Trading Company, Ltd. Flexible oil boom for high sea. 3,740,955, 6-26-73, Cl. 61-1.00f.

Fosse, Jacuqes Andre Charles; and Pelletier, Joel Albert, to U.S. Philips Corporation. System for the transmission of information to a vehicle on rails. 3,714,419, 1-30-73, Cl. 246-63.00c.

Foster, Alan, to U.S. Philips Corporation. Triac. 3,739,242, 6-12-73, Cl. 317-235.000.

Foster, Alan D., to Dayton Steel Foundry Company, The. Leaf spring clamp and support. 3,751,021, 8-7-73, Cl. 267-52.000.

Foster, Alan M.: *See—*
Roberts, Webster C.; and Foster, Alan M., 3,742,129.

Foster, Allene Caraway. Suture package. 3,779,375, 12-18-73, Cl. 206-63.300.

Foster, Arthur A., to Gorman-Rupp Company, The. Pump stroke rate and motor control. 3,714,536, 1-30-73, Cl. 318-470.000.

Foster, Berry W. Engine and gas generator. 3,712,276, 1-23-73, Cl. 123-47.00r.

Foster, Berry W. Rotary vane device for compressor, motor or engine. 3,747,573, 7-24-73, Cl. 123-8.050.

Foster, Betty J.; and Tummala, Rao R., to International Business Machines Corporation. Method of sealing electrodes to glass with a glass frit. 3,775,999, 12-4-73, Cl. 65-50.000.

Foster, Billy K., to General Dynamics Corporation. System for testing electronic apparatus. 3,723,868, 3-27-73, Cl. 324-73.0at.

Foster Brothers Manufacturing Company: *See—*
Eakins, Paul W., 3,710,402.
Warner, Worthy John, 3,737,922.

Foster, Chester L. Method and apparatus for treating polluted air along auto traffic arteries. 3,731,459, 5-8-73, Cl. 55-94.000.

Foster, Clifford R. Changeable plow sweep. 3,752,236, 8-14-73, Cl. 172-751.000.

Foster, David J.: *See—*
Coleman, Richard J.; Foster, David J.; Loper, Edward J., Jr.; and Sundeen, Arthur R., 3,780,593.

Foster, Dennis L.; and Hoeffel, James D., to Dayton Electronic Products Company. Interval counting circuit and method. 3,761,887, 9-25-73, Cl. 340-172.500.

Foster, Douglas E., to Didier, Wm., Mfg. Co. Reciprocating sickle assembly. 3,760,571, 9-25-73, Cl. 56-298.000.

Foster, E. Gordon: *See—*
Cunningham, Jack W.; Foster, E. Gordon; and Vanderwater, Robert G., 3,729,899.
Cunningham, Jack W.; Foster, E. Gordon; and Vanderwater, Robert G., 3,766,714.

Foster, Edson P. Felting needle. 3,727,276, 4-17-73, Cl. 28-4.00n.

Foster, Edward J.: *See—*
Bauer, Benjamin B.; and Foster, Edward J., 3,713,087.

Foster, Edwin E.: *See—*
Foster, Edwin E.; and Foster, Thomas E. (said Foster, Thomas E., assor. to said), 3,773,389.
Foster, Edwin E.; and Foster, Thomas E. (said Foster, Thomas E., assor. to said), 3,773,390.

Foster, Edwin E. Compound curved spring. 3,738,634, 6-12-73, Cl. 267-156.000.

Foster, Edwin E.; and Foster, Thomas E., said Foster, Thomas E., assor. to said Foster, Edwin E. Wheel cover. 3,773,389, 11-20-73, Cl. 301-37.00r.

Foster, Edwin E.; and Foster, Thomas E., said Foster, Thomas E., assor. to said Foster, Edwin E. Wheel cover. 3,773,390, 11-20-73, Cl. 301-307.00r.

Foster, Edwin T., to Du-Wel Metal Products, Inc. Method of making finished metal die castings. 3,748,791, 7-31-73, Cl. 51-323.000.

Foster, Elton Gordon. Swimming pool cover. 3,747,132, 7-24-73, Cl. 4-172.140.

Foster, Eric: *See—*
Bonis, David Raynes; and Foster, Eric, 3,735,021.

Foster, Eric, to Sumlock Anita Electronics Limited. Switch mounted on printed circuit board. 3,749,872, 7-31-73, Cl. 200-66.0pc.

Foster, Frank Leach; and Hay, Peter, to Imperial Chemical Industries Limited. Oxidation process. 3,754,024, 8-21-73, Cl. 260-531.00r.

Foster, Fred M., to Airco, Inc. Carcass chilling facility. 3,769,807, 11-6-73, Cl. 68-63.000.

Foster, George B.: *See—*
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Foster, George Hails, Jr.: *See—*
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Chandler, William Bruce; and Foster, George Hails, Jr., 3,777,223.

Foster, George N.; and Sack, William, to Union Carbide Corporation. Method of biaxially stretching tubes of polyvinyl fluoride polymers. 3,751,531, 8-7-73, Cl. 264-22.000.

Foster, George Washington Elkins, Jr.: *See—*
Ellis, Wayne Philip; Foster, George Washington Elkins, Jr.; and Allen, James Roy, 3,755,029.
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Green, Patrick Hart; and Foster, George Wilbert, 3,751,319.
Foster, George William: *See—*
Clayton, Dennis Albert; and Foster, George William, 3,761,795.
Foster, George William, to Legg (Industries) Limited. Frequency halving circuits. 3,746,884, 7-17-73, Cl. 307-225.00b.
Foster Grant Co., Inc.: *See—*
Coblentz, Bernard S.; and White, Vincent F., 3,739,920.
Finestone, Arnold B.; and Sims, Willard M., 3,715,340.
Finestone, Arnold B.; Westphal, Richard C.; and Brac, Charles, Jr., 3,781,383.
Finestone, Arnold B.; Milgrom, Jack; and Slovenkai, Stephen V., 3,781,384.
Goodman, Abraham; and Leblanc, Conrad, 3,740,124.
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Foster, Hans-Joachim M.; Eltze, Uhrich; and Hensel, Werner, to Daimler-Benz Aktiengesellschaft. Actuating mechanism for friction cluthes in automatic motor vehicle transmissions. 3,746,138, 7-17-73, Cl. 192-87.110.
Foster, Harold M.; Rees, Thomas C.; and Spencer, Floyd G., to Sherwin-Williams Company, The. Process for the manufacture of N,N-bis (2-chloroethyl)-2-nitro-4-alkylaniline. 3,711,552, 1-16-73, Cl. 260-577.000.
Foster, Harold M.; Rees, Thomas C.; and Spence, Floyd G. Process for the manufacture on N, N-bis (2-chloroethyl)-2-nitro-4-alkylaniline. 3,726,922, 4-10-73, Cl. 260-577.000.
Foster, Harold M.; Rees, Thomas C.; and Spence, Floyd G., to Sherwin-Williams Company, The. Process for the manufacture of N, N-dichloroalkyl-2,6-dinitro-4-alkyl aniline. 3,726,923, 4-10-73, Cl. 260-577.000.
Foster, Herbert G., Jr.; Crest, Hazel; and Frederick, Charles D., to Swift & Company. Producing an extruded cheese product in snack sized form. 3,761,284, 9-25-73, Cl. 99-117.000.
Foster, Howard F. Tensioning device. 3,754,733, 8-28-73, Cl. 254-161.000.
Foster, Jack D.; Kirk, Russell R.; and Moreno, Frederick E., to GTE Sylvania Incorporated. Arcless electrode construction for gas transport laser. 3,772,610, 11-13-73, Cl. 331-94.500.
Foster, Jack V., to AMF Incorporated. Bistable relay. 3,728,651, 4-17-73, Cl. 335-170.000.
Foster, James E.: *See—*
Carr, Earl L.; and Foster, James E., 3,729,095.
Foster, James H.; and Dufton, John Peter, to Automatic Electric Laboratories, Inc. Shift apparatus for small computer. 3,729,711, 4-24-73, Cl. 340-172.500.
Foster, James L., Jr., to Buell, Eugene F. Welding rods. 3,768,984, 10-30-73, Cl. 29-182.800.
Foster, James P.; and Soloway, Samuel B., to Shell Oil Company. Thienyl alkyl tin compounds. 3,736,333, 5-29-73, Cl. 260-329.0me.
Foster, James Q.: *See—*
Keller, John E.; Hochman, Jack M.; and Foster, James Q., 3,726,785.
Foster, John; and Wilson, Geoffrey, to Massey, B. & S., Limited. Forging presses with ejector means. 3,733,884, 5-22-73, Cl. 72-429.000.
Foster, John A., to Clark, J. L., Manufacturing Co. Cover with lift tab release. 3,731,832, 5-8-73, Cl. 215-46.00a.
Foster, John A., to Clark, J. L., Manufacturing Co. Stand for supporting bags and the like. 3,737,129, 6-5-73, Cl. 248-97.000.
Foster, John A., to Clark, J. L., Manufacturing Co. Child-proof pill box. 3,749,230, 7-31-73, Cl. 206-1.500.
Foster, John E.; and Koo, Tuh-Kai, to National Cash Register Company, The. Beam accessed MOS memory with beam reading, writing, and erasing. 3,721,962, 3-20-73, Cl. 340-173.0cr.
Foster, Kenneth J.: *See—*
Jekowski, Edward W.; and Foster, Kenneth J., 3,761,717.
Foster, L. B., Company: *See—*
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Foster, Leigh Curtis, to Zenith Radio Corporation. Corona discharge voltage regulator. 3,711,735, 1-16-73, Cl. 313-216.000.
Foster, Leigh Curtis, to Zenith Radio Corporation. Acousto-optic information translation system with reference beam for control purposes. 3,727,062, 4-10-73, Cl. 250-199.000.
Foster, Leigh Curtis, to Zenith Radio Corporation. Acousto-optical system with simplified optics. 3,746,427, 7-17-73, Cl. 350-161.000.
Foster, Lowell B.; and Hochholzer, Jane M., to Damon Corporation. Method and composition for determining bun. 3,732,077, 5-8-73, Cl. 23-230.00b.
Foster Manufacturing Co., Inc.: *See—*
Cruse, Lee H., 3,709,528.
Foster, Manus R.; and Patton, Bobbie J., to Mobil Oil Corporation. Apparatus for improving signal-to-noise ratio in logging-while-drilling system. 3,742,443, 6-26-73, Cl. 340-18.0ld.
Foster, Michael N. Automatic film processing system and apparatus for X-ray film and the like. 3,747,499, 7-24-73, Cl. 95-94.00r.
Foster, Michael R.; Jalbing, John I.; and Patterson, Lester E.; deceased (by Patterson, Marie L.; administratrix). Catalytic convertor temperature control system. 3,744,248, 7-10-73, Cl. 60-286.000.
Foster, Norman, to British-American Tobacco Company Limited. Flexible packages. 3,738,566, 6-12-73, Cl. 229-62.000.
Foster, Norman B.; Yeomans, Robert P.; and Daniels, Robert S., to Space-Age Control, Inc. Survival weapon system. 3,708,902, 1-9-73, Cl. 42-1.00r.
Foster, Paul E.; and Little, Rollie H., to General Electric Company. Solder shield for contacts on printed circuit boards. 3,759,436, 9-18-73, Cl. 228-57.000.
Foster, Phillip W. Coupling for detachable implements. 3,718,222, 2-27-73, Cl. 214-145.000.
Foster, Robert C.: *See—*
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Buyken, Frank E.; and Foster, Robert C., 3,740,825.
Foster, Robert C. Wall forming bracket. 3,729,159, 4-24-73, Cl. 248-205.00r.
Foster, Robert D. Pipe sling. 3,744,837, 7-10-73, Cl. 294-74.000.
Foster, Robert D. Fishing lure. 3,763,588, 10-9-73, Cl. 43-4.000.
Foster, Robert D.; and Holleron, William K., to Monroe X-Ray Company, Inc. Pipeline X-ray inspection machine. 3,775,612, 11-27-73, Cl. 250-497.000.
Foster, Russell G., to Northrup, King & Co. Seed tape dispenser. 3,752,303, 8-14-73, Cl. 206-52.00r.
Foster, Russell G., to Northrup King & Co. Seed tape dispenser. 3,754,643, 8-28-73, Cl. 206-52.00r.
Foster, Thomas E.: *See—*
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Foster, Edwin E.; and Foster, Thomas E., 3,773,390.
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Lucker, Jerome; Oakes, Andrew A.; and Foster, Thomas H., Jr., 3,734,692.
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Foster Transformer Company: *See—*
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Foster Wheeler Corporation: *See—*
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Foster, Willard F., to Heist, C. H., Corporation. High pressure jet cleaning device. 3,709,436, 1-9-73, Cl. 239-287.000.
Foster, Willard F.; and Wild, Robert W., to Heist, C. H., Corporation. High pressure jet cleaning device. 3,726,481, 4-10-73, Cl. 239-287.000.
Foster, William Rees; and Skinner, Stanley John, to Monsanto Chemicals Limited. Process of extruding a foamable thermoplastic resin. 3,723,586, 3-27-73, Cl. 264-53.000.
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Foster-Pegg, Richard W. Regenerative afterburner for air pollution elimination. 3,718,440, 2-27-73, Cl. 23-277.00c.
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Fothergill, Reginald Allan; Bennett, Reginald Frank Charles; Risley, Gerald Thomas; and Weeks, William Stanley, to United Kingdom Atomic Energy Authority. Nuclear explosion detection systems. 3,718,918, 2-27-73, Cl. 340-213.00r.
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Fotland, Richard A., to Horizons Incorporated. Optical development apparatus. 3,720,806, 3-13-73, Cl. 219-216.000.
Fotland, Richard A.; and Straughan, Virgil E., to Horizons Incorporated. Imaging system employing ions. 3,761,173, 9-25-73, Cl. 355-3.000.
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Fottler, Stanley A., to Circa Tran. Inc. Method and apparatus for forming printed circuit boards with infrared radiation. 3,717,742, 2-20-73, Cl. 219-85.000.
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Foty, James V., to Lear Siegler, Inc. Damper drive for ventilator system. 3,717,080, 2-20-73, Cl. 98-38.000.
Foucault, Pierre. Apparatus for mixing fluids. 3,752,444, 8-14-73, Cl. 259-2.000.
Fouces, Juan M.: *See—*
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Fouces, Manuel; and Fouces, Juan M. Device for prevention of automobile theft. 3,719,063, 3-6-73, Cl. 70-202.000.
Fouche, George H. Battery cable. 3,733,578, 5-15-73, Cl. 339-232.000.
Foucher, Walter D., Jr.; Siegart, William R.; and Morris, Herbert C., to Texaco Inc. Motor oil composition. 3,732,167, 5-8-73, Cl. 252-32.70e.
Foucry, Jean; and Auriol, Alain, to Ceraver. Method for making anhydrous chromium sesquioxide by reducing a hexavalent chromium compound. 3,749,595, 7-31-73, Cl. 117-119.600.
Foufounis, Chantal: *See—*
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Foufounis, Jean. Chronograph. 3,747,324, 7-24-73, Cl. 58-126.00r.
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Fougere, Guy L.; and Rothery, John L. Method and apparatus for testing coins employing dimensional categorizing means. 3,739,895, 6-19-73, Cl. 194-100.00a.
Fougere, Guy Lloyd. Method and apparatus for coin discrimination utilizing a coin impeller. 3,757,918, 9-11-73, Cl. 194-101.000.
Fouks, Philip H.; and Wriggins, Donald H. Mechanical fastener for frame of bed. 3,780,386, 12-25-73, Cl. 5-296.000.
Foulard, Jean; and Galey, Jean, to L'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Nonpolluting method and apparatus for purifying aluminum and aluminum-containing alloys. 3,743,500, 7-3-73, Cl. 75-93.000.
Foulds, William Henry: *See—*
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Foulkes, John D., to Telecommunication Engineering Corporation. Bipolar multiplexing circuit for telephone line selection. 3,757,056, 9-4-73, Cl. 179-99.000.
Foulkes, John F., to S. & C. Electric Company. Method of and means for making a current limiting fuse. 3,713,063, 1-23-73, Cl. 337-159.000.
Foulletier, Louis, to Ugine Kuhlmann. Polyfluorinated aminoalcohols. 3,758,587, 9-11-73, Cl. 260-584.00r.
Foulletier, Louis; and Lalu, Jean-Pierre, to Produits Chimiques Ugine. Perfluoroaliphatic substituted amines. 3,763,225, 10-2-73, Cl. 260-486.00h.
Foundation and Bridge Corporation: *See—*
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Fountain, Gerald F.; Pringle, John P.; and Lewis, James T., to Capital Wire and Cable Company. Electrowinning of copper. 3,755,112, 8-28-73, Cl. 204-108.000.
Fountain, Gerald F., to Ponder & Best, Inc. Condition responsive alert signal for a movie camera. 3,776,625, 12-4-73, Cl. 352-170.000.
Fountain, Gerald F., to Ponder & Best, Inc. Audible alert signal for an electronic flash unit. 3,778,672, 12-11-73, Cl. 315-133.000.
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Fountain, Richard W.; and Johnson, Darrel D., to Gilbert & Nash Company, Inc. Web guide. 3,750,920, 8-7-73, Cl. 226-23.000.
Fountain, Roger; and McLaughlin, Gregory M., to McDonnell Douglas Corporation. Method of bonding silicone rubbers to organic rubbers and composite object. 3,749,617, 7-31-73, Cl. 156-3.000.
Fouquet-Werk Frauz & Planck: *See—*
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Fourcade, Robert; and Bourland, Andre, to Societe Explosifs et Produits Chimiques and Societe Chimiques des Charbonnages de France. Securing of fixing elements such as anchor bolts. 3,731,791, 5-8-73, Cl. 206-47.00a.
Fourgere, Guy L.: *See—*
Martin, Afton V.; Moldovan, Michael T.; Jazbutis, Anatolijus; Fourgere, Guy L.; Rising, Donald B.; Koger, Gary C., Arciprete, Genio R.; and Svendsen, Noel, 3,744,713.
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Fournell, Hans-Dieter; Adler, Karl-Heinz; and Locher, Johannes, to Bosch, Robert, G.m.b.H. Control arrangement with a pulse-length modulator for a piston. 3,763,744, 10-9-73, Cl. 91-20.000.
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Fournier, Albert Anthony, to Johnson & Johnson. Thermally stable pressure-sensitive adhesive tape with polypropylene backing. 3,725,121, 4-3-73, Cl. 117-122.0pf.
Fournier, Gerald R.; and Baker, Charles L., to Texas Instruments, Incorporated. Light beam deflection. 3,762,791, 10-2-73, Cl. 350-6.000.
Fournier, Gilbert C. F.: *See—*
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Fournier, Jacques, to Delle-Alsthom. Grounding device for a point in a conductive casing. 3,761,651, 9-25-73, Cl. 200-48.00r.
Fournier, Joseph L., to Red-Lee Metal Finishing Company, Inc. Fluid cooled hub assembly for a contact wheel. 3,739,535, 6-19-73, Cl. 51-356.000.
Fournier, Joseph R.: *See—*
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Fournier, Paul W., to Universal Oil Products Company. Strainer apparatus with power assisted cleaning means. 3,750,885, 8-7-73, Cl. 210-107.000.
Fournier, Roger, to Regie Nationale des Usines Renault. Non-stick treatment of mold cavities. 3,745,096, 7-10-73, Cl. 204-20.000.
Fournis, Jean-Francois, to Societe d'Apparcillage Electrique Saparel. High-sensitivity differential relay protected against disturbances. 3,731,148, 5-1-73, Cl. 317-18.00d.
Fourrey, Francois: *See—*
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Fourrey, Francois, to Regie Nationale des Usines Renault. Folding seats for automotive vehicles. 3,746,389, 7-17-73, Cl. 297-15.000.
Foury, George, to Compagnie Generale d'Automatisme. Steerable antenna. 3,713,164, 1-23-73, Cl. 343-766.000.
Foury, Georges, to Compagnie Generale d'Automatisme. Method for transferring a load from a first support to a second support. 3,749,263, 7-31-73, Cl. 214-152.000.
Fouse, Samuel S.; and Kotala, James R., to Westinghouse Electric Corporation. Bus duct system including improved plug-in power take-off means. 3,732,523, 5-8-73, Cl. 339-22.00b.
Fouser, John P. Infant nursing dispenser. 3,747,791, 7-24-73, Cl. 215-11.00r.
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Fouts, Robert E. Sealed fitting for reinforced hose. 3,752,506, 8-14-73, Cl. 285-149.000.



Fovall, Nettie L. Caddy for handled appliance. 3,770,234, 11-6-73, Cl. 248-117.700.
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Fovall, Nettie L. Caddy for handled appliance. 3,770,234, 11-6-73, Cl. 248t117.700.
Fowell, Andrew J.; and Knebusch, George R., said Fowell assor. to Tappan Company, The, mesne. Outdoor refrigerant apparatus. 3,714,795, 2-6-73, Cl. 62-508.000.
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Fowler, Clarence W. Coaxial cable loop antenna with unidirectional current amplifier opposite the output. 3,774,218, 11-20-73, Cl. 343-701.000.
Fowler, Donald W.; and Heiney, Harold G., Jr., to United Aircraft Corporation. Fault detector for helicopter feel augmentation system. 3,719,336, 3-6-73, Cl. 244-77.00m.
Fowler, Donald W.; and O'Connor, Sean J., to United Aircraft Corporation. Load stability system. 3,756,543, 9-4-73, Cl. 244-77.00d.
Fowler, Eliot Patrick; and Greaves, Richard William, to United Kingdom Atomic Energy Authority. Semiconductor devices. 3,710,269, 1-9-73, Cl. 330-16.000.
Fowler, Gerald: *See—*
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Fowler, James: *See—*
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Fowler, James M. Cable aviary structure and method of erecting the same. 3,744,455, 7-10-73, Cl. 119-17.000.
Fowler, James M., to ACF Industries, Incorporated. Valve structure having fluid pressure actuated seats. 3,749,357, 7-31-73, Cl. 251-172.000.
Fowler, James M.; Kemp, Willard E.; and Tomlin, Jerry B., to ACF Industries, Incorporated. Valve structure having fluid pressure actuated sealing members. 3,776,506, 12-4-73, Cl. 251-172.000.
Fowler, John Edward, to Pressed Steel Fisher Limited. Vehicle seat belts and harnesses. 3,744,732, 7-10-73, Cl. 242-107.0sb.
Fowler, John H., to Rockwell Manufacturing Company. Remote underwater flowline connection. 3,732,923, 5-15-73, Cl. 166-.600.
Fowler, John H., Jr. Lift device. 3,710,962, 1-16-73, Cl. 214-75.00r.
Fowler, John T.; and Raposa, Frank L., to United States of America, National Aeronautics and Space Administration. Parasitic suppressing circuit. 3,737,757, 6-5-73, Cl. 321-11.000.
Fowler, John T., to Laitram Corporation, The, mesne. Digital magnetic compass. 3,746,842, 7-17-73, Cl. 235-92.0cv.
Fowler, John T., to Laitram Corporation, The, mesne. Course difference logic for use with digital magnetic compass. 3,772,503, 11-13-73, Cl. 235-150.500.
Fowler, Joseph A.: *See—*
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Fowler, Raymond L.; and Heard, Roderick S., to International Business Machines Corporation. Selection system. 3,748,976, 7-31-73, Cl. 95-4.500.
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Fowler, Richard Thomas, to Girling Limited. Coupling means for hydraulic brake systems. 3,758,164, 9-11-73, Cl. 303-7.000.
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Fowler, Roland V.; White, James A.; and Cross, David C., to General Electric Company. Multiple position door latch mechanism. 3,750,643, 8-7-73, Cl. 126-197.000.
Fowler, Vernon J., to GTE Laboratories Incorporated. Optical processor for laser display system. 3,710,015, 1-9-73, Cl. 178-5.4bd.
Fowler, William Lee, to Globe-Union Inc. Electronic circuit package and method for making same. 3,760,090, 9-18-73, Cl. 174-52.00s.
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Fowlie, Wallace R.; and Yoon, Moo S., to Dick, A. B., Company. Document feeder for electrostatic copier. 3,762,813, 10-2-73, Cl. 355-14.000.
Fowlkes, George V.; and Fowlkes, Richard Eugene, to Fo-Mac Enterprises, Inc. Fishing rod holder. 3,731,817, 5-8-73, Cl. 211-60.00r.
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Fowlkes, Richard Eugene: *See—*
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Fowlkes, Robert F., to Fowlkes Machine Company. Screw sorting machine. 3,743,091, 7-3-73, Cl. 209-73.000.
Fox, Anthony. Trash compactor with lifter. 3,748,820, 7-31-73, Cl. 53-124.00b.
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Fox, Charles F., Jr. Aerosol can construction. 3,722,750, 3-27-73, Cl. 222-94.000.
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Fox, Charles J., to Eastman Kodak Company. Photographic paint-out composition containing a colorless stable-free radical precursor and a photoactuator. 3,765,895, 10-16-73, Cl. 96-88.000.
Fox, Charles J., to Eastman Kodak Company. Photographic element containing a light sensitive photobleachant and a colored stable 2-amino-aryl-1-oxyl-3-oxide-2-imidazoline free radical. 3,765,896, 10-16-73, Cl. 96-89.000.
Fox, Charles J., to Eastman Kodak Company. Alkylaminoaromatic organic photoconductors. 3,767,393, 10-23-73, Cl. 96-1.500.
Fox, Charles L., Jr., to Research Corporation. Silver sulfadiazine used in the treatment of burns. 3,761,590, 9-25-73, Cl. 424-228.000.
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Fox, David Brian, to Dulux Australia Ltd. Humidity resistant paint systems. 3,740,255, 6-19-73, Cl. 117-74.000.
Fox, Donnell H., to Robertshaw Controls Company. Replacement control knob. 3,769,933, 11-6-73, Cl. 116-124.20a.
Fox, Douglas J., to Singer Company, The. Thread trimming device for sewing machines. 3,779,189, 12-18-73, Cl. 112-252.000.
Fox, Duane C.; Ichinose, Richard Y.; and Klaus, Tal E., to American Multiples Systems, Inc. Method and apparatus for data transmission. 3,747,067, 7-17-73, Cl. 340-147.0sy.
Fox, Edward Coley, to RCA Corporation. Coarse pinhole array for recording inproned redundant holograms. 3,756,684, 9-4-73, Cl. 259-34.000.
Fox, Edward I.; and Fullem, Raymond J., to Crane, H. W., Company. Door operating mechanism. 3,733,747, 5-22-73, Cl. 49-30.000.
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Fox, Gerard J. Lock means for a firearm. 3,735,519, 5-29-73, Cl. 42-70.00d.
Fox Harry Alvin, Jr.: *See—*
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Fox, Homer M.: *See—*
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Fox, Homer M., to Phillips Petroleum Company. Process for preparing perfluorocarbon compounds. 3,709,800, 1-9-73, Cl. 204-59.00r.
Fox, Homer M., to Phillips Petroleum Company. Method and apparatus for reducing engine exhaust pollutants. 3,717,129, 2-20-73, Cl. 123-1.00a.
Fox, James D.; Norman, Earl P., Jr.; and Sansbury, Jerry F., to Sonoco Products Company. Container end with protective bead. 3,754,678, 8-28-73, Cl. 220-54.000.
Fox, James E., to Diamagnetics, Inc. Rear screen projection device provided with luminous markings. 3,735,133, 5-22-73, Cl. 250-72.000.
Fox, James H., to Mattel, Inc. Starting switch for toys. 3,739,521, 6-19-73, Cl. 46-232.000.
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Fox, John E. Ski boot traction device. 3,717,238, 2-20-73, Cl. 36-61.000.
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Fox, John J., to Westinghouse Electric Corporation. Laundry dryer with oblique tumbling vanes. 3,729,834, 5-1-73, Cl. 34-139.000.
Fox, John O.; and Rosling, Thomas H., to United States of America, Navy. Anti-swimmer charge. 3,722,408, 3-27-73, Cl. 102-16.000.
Fox, Joseph J., to General Motors Corporation. Apparatus to control edges of rolled products. 3,754,849, 8-28-73, Cl. 425-363.000.
Fox, Joseph S.; and Dresher, William H., to Union Carbide Corporation. Recovery of vanadium from titaniferous iron ores. 3,733,193, 5-15-73, Cl. 75-1.000.
Fox, Joseph S.; and Litz, John E., to Union Carbide Corporation. Process for extraction values from spent hydrodesulfurization catalysts. 3,773,890, 11-20-73, Cl. 423-58.000.
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Fox Products Company: *See—*
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Fox, Ralph G., Jr., to General Motors Corporation. Rotary machine apex seal. 3,758,243, 9-11-73, Cl. 418-76.000.
Fox, Ralph W. Security system for a vehicle. 3,735,346, 5-22-73, Cl. 340-63.000.
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Fox, Richard W.; and Davies, Robert L., to General Electric Company. Non-arcing switch system and process. 3,736,466, 5-29-73, Cl. 317-11.00a.
Fox, Robert D.; Rains, William A.; and Lambert, Gerald G., to United States of America, Air Force. Rocket propellant and method. 3,717,518, 2-20-73, Cl. 149-36.000.
Fox, Robert Eugene, to Deere & Company. Sprayer boom leveling and folding apparatus. 3,716,212, 2-13-73, Cl. 248-278.000.
Fox, Robert J.: *See—*
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Fox, Shirl S.; and Hershkowitz, David M., said Fox assor. to Dental Designs. Dental console. 3,718,972, 3-6-73, Cl. 32-22.000.
Fox, Sidney V.: *See—*
Reed, George G., Jr.; Karpinski, Janusz M.; and Fox, Sidney V., 3,748,116.
Fox, Stewart A.; and Magill, Robert J., to Searle, G. D., & Co. Ballistic injection for gas chromatography. 3,759,107, 9-18-73, Cl. 73-422.0gc.
Fox, Wayne F., to Triple "F", Inc. Machine for treating soybeans. 3,765,319, 10-16-73, Cl. 99-343.000.
Fox, Wayne L., to Electromask, Inc., mesne. Optical pattern generator or repeating projector or the like. 3,722,996, 3-27-73, Cl. 355-53.000.
Fox, William Burke: *See—*
Gould, Douglas E.; Young, David E.; Anderson, Lowell Ray; and Fox, William Burke, 3,755,405.
Gould, Douglas Eugene; Anderson, Lowell Ray; Young, David Edward; and Fox, William Burke, 3,716,570.
Gould, Douglas Eugene; Anderson, Lowell Ray; and Fox, William Burke, 3,769,312.
Young, David Edward; Anderson, Lowell Ray; Gould, Douglas Eugene; and Fox, William Burke, 3,732,274.
Fox, William L., to Eaton Yale & Towne, Inc. Automatic ice maker switch controls. 3,712,076, 1-23-73, Cl. 62-137.000.
Foxboro Company, The: *See—*
Ammino, Raymond; Jordan, William E.; and Earle, William E., 3,717,028.
Bailey, John E., 3,715,918.
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Karas, Edwin L.; Lee, Davis S.; and Vanslette, Robert A., 3,748,833.
Nadi, Salem A., 3,760,374.
Prescott, Robert C., 3,717,162.
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Foxhall, Ollie C., to Joco Incorporatcd. Tire pressure indicator and inflation device. 3,720,224, 3-13-73, Cl. 137-227.000.
Foxwell, William J.; and Parsons, James D., to Ford Motor Company. Tractor hydraulic lift system. 3,732,933, 5-15-73, Cl. 172-7.000.
Foy, Fred P., Jr.; and Chang, Nuke Ming, to Santa Fe International Corporation. Drill bit utilization optimizer. 3,752,966, 8-14-73, Cl. 235-150.100.
Foy, Lawrence F. Safety enclosure for off-shore oil rigs. 3,730,278, 5-1-73, Cl. 169-2.00r.
F.P.T. Industries Limited: *See—*
Locke, Walter Frederick; Watson, Arthur; and Edwards, Thomas Philip, 3,781,039.
Fr. Hesser Maschinenfabrik A.G.: *See—*
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Frable, Norman B., to Air Products and Chemicals, Inc. Cryogenic comminution system. 3,771,729, 11-13-73, Cl. 241-65.000.
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Fradenburgh, Evan A.; and Kiely, Edmond F., to United Aircraft Corporation. Aerodynamic blade with high stiffness-to-weight ratio. 3,713,751, 1-30-73, Cl. 416-87.000.
Fradenburgh, Evan Albern, to United Aircraft Corporation. Variable length blade. 3,768,923, 10-30-73, Cl. 416-89.000.
Fraga, Donald W. Polymerization monitoring process. 3,743,629, 7-3-73, Cl. 260-93.50s.
Fraik, Robert D., to Minnesota Mining and Manufacturing Company. Method of providing and developing hidden entries. 3,725,104, 4-3-73, Cl. 117-1.700.
Frailly, Robert Adam, to Eaton Corporation. Prevailing torque locknut. 3,741,266, 6-26-73, Cl. 151-21.00b.
Frakes, James H.: *See—*
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Frakes, Paul V., to Gazer Corporation, The. Method of forming a welded joint construction. 3,751,792, 8-14-73, Cl. 29-471.100.
Fraleigh, Marion Foster; and Wise, Raleigh Warren, to Monsanto Company. Apparatus and method for making cable bead. 3,748,841, 7-31-73, Cl. 57-21.000.
Fraley, Richard W., to PPG Industries, Inc. Cycloalkyl carbamates. 3,734,945, 5-22-73, Cl. 260-468.00e.
Fralick, George E.; and Fralick, Roy A. Screen framing construction. 3,720,256, 3-13-73, Cl. 160-392.000.
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Fram Corporation: *See—*
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Gernhardt, John William, 3,724,670.
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Fram, Morris; Hetherington, Robert D.; and Freeman, Craig, to Ransburg Electro-Coating Corporation. Fluid mixing and spraying apparatus. 3,759,450, 9-18-73, Cl. 239-427.000.
Framatone: *See—*
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Frame, Robert Michael Gray, to Bell-Northern Research, Ltd. Regenerative switching circuit, 3,778,642, 12-11-73, Cl. 307-268.000.
Frame, Wayne W. Rein manipulation training device. 3,751,828, 8-14-73, Cl. 35-11.000.
Franaques, Howard L., Jr.: *See—*
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Franaszek, Peter A.; Grossman, David D.; and Will, Peter M., to International Business Machines Corporation. Differential encoding with lookahead feature. 3,720,875, 3-13-73, Cl. 325-38.00b.
Franaszek, Peter A., to International Business Machines Corporation. Delta modulation system with randomly timed multiplexing capability. 3,727,005, 4-10-73, Cl. 179-15.0by.



Franc, Charles. Mounting apparatus for illuminated gift packages. Francis, Richard Jr.; and Francis, Clarence Malcolm, 3,744,...

Franc, Charles. Mounting apparatus for illuminated gift packages, greeting cards, or the like. 3,720,825, 3-13-73, Cl. 240-10.650.
Franc, Charles. Portable illumination device. 3,732,414, 5-8-73, Cl. 240-10.610.
Franc, Charles. Packaging and mounting holders for illuminated gift packages, greeting cards and the like. 3,737,648, 6-5-73, Cl. 240-10.60r.
Franc, Charles. Battery powered illuminated ornament. 3,740,543, 6-19-73, Cl. 240-6.40r.
France, Delmar W.; and Ketcham, Arlo D., to General Electric Company. Densification of irradiated metal. 3,742,366, 6-26-73, Cl. 250-106.00s.
France, Jimmie J., to Westinghouse Air Brake Company. Equal flow dual steering system. 3,776,356, 12-4-73, Cl. 180-79.20r.
France Neckwear Co. Inc.: *See—*
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Francel, Josef; and Mansur, Fred E., to Owens-Illinois, Inc. Composition, articles prepared therefrom and method of preparing such articles. 3,736,176, 5-29-73, Cl. 117-124.00a.
Francel, Josef; and Minneman, Lester C., to Owens-Illinois, Inc. Low temperature sealant glass for sealing integrated circuit package parts. 3,778,242, 12-11-73, Cl. 65-43.000.
Francen, Vernon L., to Minnesota Mining and Manufacturing Company. Fire extinguishing composition comprising a fluoroaliphatic surfactant fluorine-free surfactant. 3,772,195, 11-13-73, Cl. 252-8.050.
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Franchi, Pierre Paul, to L'Electronique Appliquee. Level measuring equipments. 3,745,829, 7-17-73, Cl. 73-290.00v.
Franchini, Enzo, to Fiat Societa per Azioni. Reinforcing structural element for vehicle body. 3,765,715, 10-16-73, Cl. 296-38.00g.
Franchinot, Paul G.; and Kresan, Lawrence J., to Pitney-Bowes, Inc. Inking roller assembly. 3,759,178, 9-18-73, Cl. 101-349.000.
Francia, Giovanni, to L.I.R. S.p.A. Laboratorio Ricerche. Fluid control device. 3,713,364, 1-30-73, Cl. 92-13.100.
Francia, Giovanni, to L.I.R. S.p.A., Laboratorio Ricerche. Yarn feeding device. 3,774,829, 11-27-73, Cl. 226-97.000.
Francik, Carl J.: *See—*
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Francini, Joseph P.; and Verdone, Michael A., to Singer Company, The. Twin disc pack. 3,724,652, 4-3-73, Cl. 206-62.00p.
Francioni, Willi, to Gesellschaft zur Forderung der Forschung an der Eidg. Techn. Hochschule. Automatic device for measuring the temperature of a medium flowing from a container. 3,727,460, 4-17-73, Cl. 73-343.00r.
Francis, Alphons. Tow-craft for swimmer. 3,763,817, 10-9-73, Cl. 115-6.100.
Francis, Clara A.: *See—*
Francis, Richard J.; and Francis, Clara A., 3,737,910.
Francis, Richard J., 3,774,221.
Francis, James H.; and Horcher, Linus H., to Monsanto Company. Preparation of pentachlorophenol. 3,769,353, 10-30-73, Cl. 260-623.00h.
Francis, James O.; Lewis, Ralph M.; Trammell, Lawrence R.; and Vachuda, George W., to Texaco Inc. Molecular sieve selective adsorption process. 3,726,792, 4-10-73, Cl. 208-310.000.
Francis, James O., to Texaco Inc. Separation process for high carbon number straight chain hydrocarbons by adsorption. 3,753,895, 8-21-73, Cl. 208-310.000.
Francis, James O.; and Smith, Randlow, to Texaco Inc. Regeneration of molecular sieves with regeneration of solid water adsorbents. 3,756,961, 9-4-73, Cl. 252-419.000.
Francis, James O., to Texaco Inc. Removing dialkyl sulfates from a hydrocarbon effluent with sulfuric acid from an alkylation settler. 3,760,028, 9-18-73, Cl. 260-683.460.
Francis, John E.: *See—*
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Doebel, Karl J.; and Francis, John E., 3,761,493.
Francis, Leo H.; and Pollard, Henry L., to Foremost-McKesson, Inc. Method for manufacture of lactose. 3,721,585, 3-20-73, Cl. 127-60.000.
Francis, Leo H.; and Treleven, Gerald J., to Patent Technology, Inc., mesne. Electrodialysis apparatus. 3,755,134, 8-28-73, Cl. 204-301.000.
Francis, Marion D., to Procter & Gamble Company, The. Compositions for inhibiting anomalous deposition and mobilization of calcium phosphate in animal tissue. 3,719,756, 3-6-73, Cl. 424-204.000.
Francis, Marion D., to Procter & Gamble Company, The. Oral compositions for calculus retardation. 3,737,522, 6-5-73, Cl. 424-49.000.
Francis, Philip L., to General Motors Corporation. Split engine operation. 3,765,394, 10-16-73, Cl. 123-198.00f.
Francis, Reid E.: *See—*
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Francis, Reid E.; and Marcuzzi, Anthony T., to Ford Motor Company. Vehicle window regulator mechanism. 3,745,703, 7-17-73, Cl. 49-103.000.
Francis, Richard J.; and Francis, Clara A. Multielement radio-frequency antenna structure having helically coiled conductive elements. 3,737,910, 6-5-73, Cl. 343-895.000.
Francis, Richard J.; deceased (by Francis, Clara A.; executor). Multielement radio-frequency antenna structure having linear and helical conductive elements. 3,774,221, 11-20-73, Cl. 343-749.000.
Francis, Terry M., to Sivyer Steel Casting Company. Hammer mill with replaceable spider arm tips. 3,727,848, 4-17-73, Cl. 241-194.000.
Francis, Theodore R. Orientation apparatus. 3,732,967, 5-15-73, Cl. 198-33.0ac.
Franciscovich, John A., to Fibre-Weld, Inc. Method of subsurface burning of quantities of refuse material and a fuel mixture for use in the method. 3,743,486, 7-3-73, Cl. 44-51.000.
Franciscus, Leo C.: *See—*
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Franck, Donald L., to General Motors Corporation. Valve. 3,762,682, 10-2-73, Cl. 251-124.000.
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Franck, Heinz-Gerhard; Metzendord, Walter; Turowski, Johannes; deceased (by Turowski, Eles, Paula Marie; heir); Omran, Jaafar; and Nijssen, Jozef H. G., to Rutgerswerke Aktiengesellschaft. Process for preparing foam materials resistant to pressure and heatfrom mixtures of bituminous masses and phenolic resins. 3,708,442, 1-2-73, Cl. 260-2.50f.
Franck, Howard S., to Philco-Ford Corporation. Refrigerator cabinet construction. 3,752,350, 8-14-73, Cl. 220-9.00g.
Franck, Max E.; and Heisler, Harry F.; deceased (by Converse, Juliette R.; executrix), to Heisler Manufacturing Company. Centrifugal pump. 3,762,832, 10-2-73, Cl. 415-98.000.
Franck, Raymond J.; and Corley, Dewey A. Recirculation system for meltdown water from an ice storage compartment. 3,744,263, 7-10-73, Cl. 62-98.000.
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Franckowiak, Sigismond; Trambouze, Pierre; and Van Landeghem, Hugo, to Institut Francais du Petrole des Carburants et Lubrifiants. Industrial process and apparatus for cultivating microorganisms. 3,732,148, 5-8-73, Cl. 195-109.000.
Franco, Borciani; and Musarra, Gaetano, to Societa Italiana Telecomunicazioni Siemens S.p.A. Transceiver for peripheral station of multiplex telecommunication system. 3,719,890, 3-6-73, Cl. 325-55.000.
Franco, Nicholas B.; and Robinson, Martin A., to Olin Corporation. Process for preparing organic isocyanates. 3,743,664, 7-3-73, Cl. 260-453.0pc.
Francois, Edgar, to Uniroyal, Inc. Hinge fastener for conveyor belts. 3,742,557, 7-3-73, Cl. 24-33.00b.
Francois, Joseph Jean: *See—*
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Francois, Maurice; and Denis, Marcel, to International Standard Electric Corporation. Adjustable stable power for continuous wave magnetron. 3,723,806, 3-27-73, Cl. 315-39.510.
Francois, Paul: *See—*
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Francois, Paul L. Filter for removing particulate contaminants from fluids. 3,722,691, 3-27-73, Cl. 210-304.000.
Francois, Raymond; Sarbach, Jacques; Dong, Le Hao; Mizoule, Jacques; and Ricci, Charles, to Institut de Recherche Scientifique (I.R.S.). Anti-inflammatory, antalgic and anti-pyretic medicament, on a pyridoxine flufenamate basis. 3,716,642, 2-13-73, Cl. 424263.000.
Francombe, Maurice H.; Wu, Shu Y.; and Takei, William J. Polarization and optical switching of quadristable ferroelectric films by singular electrodes. 3,774,174, 11-20-73, Cl. 340-173.200.
Franconi, Cafiero. Electron spin inductors at microwaves. 3,732,488. 5-8-73, Cl. 324-.50r.
Francourt, Terence, to Kroy Knitting Developments Limited. Patterning wheels for weft knitting machines. 3,740,972, 6-26-73, Cl. 66-50.00a.
Frandon, Pierre M., to Texas Instruments, Incorporated. Dynamic data storage cell. 3,740,732, 6-19-73, Cl. 340-173.00r.
Frandsen, Lee R.: *See—*
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Franek, Jozef Tadeusz; and Rhodes, Peter, to Metal Box Company Limited, The. Can end opening means. 3,730,381, 5-1-73, Cl. 220-54.000.
Franer, Victor R., to Minnesota Mining and Manufacturing Company. Embossable magnetic composite film. 3,772,081, 11-13-73, Cl. 117-239.000.
Frangatos, Gerassimos, to Mobil Oil Corporation. Lubricant compositions. 3,714,045, 1-30-73, Cl. 252-51.50a.
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Frangquist, Gustav Herbert, to Combustion Engineering, Inc. Swing back whizzer blades for mechanical air separator. 3,770,124, 11-6-73, Cl. 209-139.00a.
Franiau, Rene P., to S.A. PRB Societe Anonyme. Rust inhibitors containing tannings with a chelation catalyst and a cross linking agent. 3,753,924, 8-21-73, Cl. 252-389.00r.
Frank, Alan I., to Scan-Data Corporation. Character recognition. 3,709,525, 1-9-73, Cl. 283-1.000.
Frank, Carl A. Modular pulley capable of being assembled to various desired lengths and automatic belt-steering pulley assembly. 3,744,329, 7-10-73, Cl. 74-230.100.
Frank, Carl W.: *See—*
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Frank, Dieter; Brodowski, Walter; and Hentschel, Peter, to Glanzstoff AG. Polycarbamoylamidrazones and their production from bisamidrazones and diisocyanates. 3,741,933, 6-26-73, Cl. 260-47.0cb.
Frank, Earl E.: *See—*
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Frank, Edmund, to Packard Instrument Company, Inc. Method of and apparatus for sample vial transferring and changing. 3,722,719, 3-27-73, Cl. 214-310.000.
Frank, Edmund, to Packard Instrument Company, Inc. Method of transferring sample vials to and from vial-carrying trays. 3,780,892, 12-25-73, Cl. 214-152.000.
Frank, Eugene P. Tone indicating music box and its application to a music instrument. 3,720,128, 3-13-73, Cl. 84-94.000.
Frank, Eugene P. Marker and tracking arm. 3,721,008, 3-20-73, Cl. 33-41.00e.
Frank, G. B., Incorporated: *See—*
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Frank, George A.: *See—*
Lewis, Sheldon N.; and Frank, George A., 3,716,508.
Frank, Gerard A.; Kipp, Karl F.; and Oswald, Donald R., to Western Electric Company, Incorporated. Methods and apparatus for scrubbing thin, fragile slices of material. 3,748,677, 7-31-73, Cl. 15-21.00d.
Frank, Gilbert Haven; and Thomas, John L., to United States of America, Army, mesne. Regulated short circuit protected power supply. 3,748,569, 7-24-73, Cl. 323-9.000.
Frank, Irving, to Weatherhead Company, The. Collet crimper. 3,750,452, 8-7-73, Cl. 72-402.000.
Frank, John L., to Litton Business Systems, Inc. Loose-leaf binder mechanism. 3,748,051, 7-24-73, Cl. 402-75.000.
Frank, Klaus: *See—*
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Frank, Lee F., to Eastman Kodak Company. Exposure control circuitry. 3,714,442, 1-30-73, Cl. 250-209.000.
Frank, Mathilda C. Drainage bag holder shield and method. 3,762,412, 10-2-73, Cl. 128-283.000.
Frank, Mathilda C. Drainage bag assembly with flow control for body fluids. 3,780,739, 12-25-73, Cl. 128-283.000.
Frank, Raymond C.: *See—*
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Frank, Robert G., to PPG Industries, Inc. Apparatus for press bending glass sheets. 3,737,297, 6-5-73, Cl. 65-273.000.
Frank, Ronald R.; and Frank, Raymond C. Motor home construction. 3,731,970, 5-8-73, Cl. 296-23.00r.
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Frank, Wilhelm, to Frank, Wilh., GmbH. Closure arrangement for a window or door opening employing a slidable and tiltable panel. 3,775,905, 12-4-73, Cl. 49-153.000.
Frank, William Rudolph, to Deere & Company. Disk harrow. 3,731,747, 5-8-73, Cl. 172-311.000.
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Franke, Edward L., Jr.; and Hyde, William J., to Western Electric Company, Incorporated. Methods of manufacturing waterproof cable. 3,767,454, 10-23-73, Cl. 117-61.000.
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Franke, Harold P.; and Franke, Raymond M. Light display. 3,736,832, 6-5-73, Cl. 84-464.000.
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Franke, Willard A., to Fuller, H. B., Company. Apparatus for forming hot melt adhesives into a readily packageable form. 3,723,035, 3-27-73, Cl. 425-71.000.
Frankel, Charles: *See—*
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Frankel, Donald P., to La Merc Industries, Inc. Incinerator and ignition system combination. 3,780,677, 12-25-73, Cl. 110-8.00c.
Frankel, Ernst G.: *See—*
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Frankel, Ernst G., to Interstate Oil Transport Company. Floating stable terminal. 3,707,934, 1-2-73, Cl. 114-.50r.
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Frankel, Sidney: *See—*
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Frankel, Stanley P.; and Monroe, Francis Robert, to Tallymate Corporation. Stored program computer with plural shift register storage. 3,763,475, 10-2-73, Cl. 340-172.500.
Frankel, Sydney. Winding process and device for one or more strips of flexible material. 3,746,271, 7-17-73, Cl. 242-56.00r.
Frankenberg, Henry E., to Continental Can Company, Inc. Noncylindrical container body maker. 3,736,846, 6-5-73, Cl. 93-82.000.
Frankenberg, Henry E., to Continental Can Company, Inc. Container shaping apparatus. 3,759,203, 9-18-73, Cl. 113-1.00g.
Frankenberg, Henry E.; and Peyser, Harry A., to Continental Can Company, Inc. Vacuum container. 3,771,688, 11-13-73, Cl. 220-44.00r.
Frankenberg, Robert J., to Hewlett-Packard Company. Computer memory temperature compensation. 3,750,119, 7-31-73, Cl. 340-174.0sc.
Frankenfeld, John W.; Karel, Marcus; and Labuza, Theodore P., to Esso Research and Engineering Company. Intermediate moisture food compositions containing aliphatic 1,3-diols. 3,732,112, 5-8-73, Cl. 99-150.00r.
Frankenfeld, John W.; Mohan, Raam R.; and Squibb, Robert L. Raw grain and feed compositions containing 1,3-aliphatic diols and/or their esters. 3,773,518, 11-20-73, Cl. 426-151.000.
Frankenfeld, Klaus; and Gotzmann, Karl, to Chemische Fabrik Budenheim. Process for removal of cationic impurities from technical grade phosphoric acid. 3,764,657, 10-9-73, Cl. 423-321.000.
Frankenhauser, Georg, to Kraftwerk Union Aktiengesellschaft. Apparatus for locking stator winding conductors of turbogenerators in position. 3,780,325, 12-18-73, Cl. 310-214.000.
Frankeny, Richard F.; and Tuttle, Joey K., to International Business Machines Corporation. Data generator. 3,737,637, 6-5-73, Cl. 235-153.00a.
Frankewich, Peter A. Relief valve apparatus. 3,749,121, 7-31-73, Cl. 137-512.200.
Frankfurter Maschinenbau Aktiengesellschaft vormals Pokarny & Whittekind: *See—*
Magdhuber, Kurt; and Kattentidt, Hinrich, 3,779,675.
Frankiewicz, Gerhard: *See—*
Weinert, Volker; Frankiewicz, Gerhard; and Engelage, Gunter, 3,777,960.
Frankiw, Walter: *See—*
Anthony, Russell W.; and Frankiw, Walter, 3,762,270.
Frankl, George: *See—*
Hodge, Peter Charles; and Frankl, George, 3,743,363.



Franklin, Alan, to Ferranti Limited. Electrical apparatus. 3,742,417, 6-26-73, Cl. 340-347.00r.
Franklin, Alan, to Ferranti Limited. Electrical apparatus. 3,742,418, 6-26-73, Cl. 340-347.00r.
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Franklin, Alan, to Ferranti Limited. Electrical apparatus. 3,742,531, 6-26-73, Cl. 340-347.00r.
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Franklin, Alan, to Ferranti Limited. Electrical apparatus. 3,742,539, 6-26-73, Cl

Frankland, Roger A.; and Curtin, Christopher J., to Tektronix, Inc. Fast writing bistable storage tube and method of operation. 3,742,286, 6-26-73, Cl. 315-12.000.
Frankle, Gerard, to Daimler-Benz Aktiengesellschaft. Installation for flame starter devices. 3,760,783, 9-25-73, Cl. 123-179.00h.
Franklee, Ronald Harvey David, to Cooper, McDougall & Robertson, Limited. Cartridge for dispensing liquid. 3,747,805, 7-24-73, Cl. 222-82.000.
Franklin, Albert G.: *See—*
Carmichael, Charles J.; and Franklin, Albert G., 3,756,409.
Carmichael, Charles J.; and Franklin, Albert G., 3,781,201.
Franklin, Andrew T. Stick on insulators. 3,729,879, 5-1-73, Cl. 52-173.000.
Franklin, Benjamin S.: *See—*
Nibby, Chester M., Jr.; Manton, John C.; Curley, John L.; and Franklin, Benjamin S., 3,760,379.
Franklin, Borton P.; and Wang, Kenneth Y., to Burlington Industries, Inc. Dye package unloader. 3,768,680, 10-30-73, Cl. 214-652.000.
Franklin, Dan R. Filter pump system for liquid convection cooker. 3,754,652, 8-29-73, Cl. 210-167.000.
Franklin, David M., to Steelcraft Corporation. Temperature modulated draft system for incinerator. 3,710,738, 1-16-73, Cl. 110-18.00r.
Franklin, David W.: *See—*
Feller, Raymond L.; and Franklin, David W., 3,746,229.
Franklin Electric Co., Inc.: *See—*
Hohman, William H., 3,746,951.
Schaefer, Edward J., 3,717,421.
Schaefer, Edward J.; and Refice, Alfred F., 3,777,194.
Sorensen, Peter F., 3,710,262.
Streater, August L.; and Whitney, John A., 3,712,395.
Streater, August L.; and Bonness, Donald A., 3,727,706.
Whitney, John A.; and Woods, Richard E., 3,708,720.
Whitney, John A.; Woods, Richard E.; and Hohman, William H., 3,714,451.
Whitney, John A.; and Sorensen, Peter F., 3,735,347.
Whitney, John A.; Woods, Richard E.; and Hohman, William H., 3,740,632.
Whitney, John A.; Woods, Richard E.; and Norman, William H., 3,761,792.
Whitney, John A., 3,766,472.
Woods, Richard E.; and Hohman, William H., 3,777,232.
Franklin Electric Co., Inc., mesne: *See—*
Stone, Thomas W., 3,728,563.
Franklin Equipment Company: *See—*
Blackburn, Keith, 3,746,064.
Franklin GNO Corporation: *See—*
Cohen, Martin J.; and Crowe, Robert W., 3,742,213.
Franklin, Ivey: *See—*
Pierce, Louis D., 3,724,849.
Franklin, John S.; and Baldwin, Samuel L., to General Electric Company. Luminaire. 3,740,545, 6-19-73, Cl. 240-25.000.
Franklin, John Warrender, to Total (Power Hydraulics) Limited. Load handling vehicles. 3,720,337, 3-13-73, Cl. 214-674.000.
Franklin, John Warrender, to Total (Power Hydraulics) Limited. Lift trucks. 3,721,318, 3-20-73, Cl. 187-9.000.
Franklin, John Warrender. Load handling vehicles. 3,734,224, 5-22-73, Cl. 180-66.00r.
Franklin, Lester Kenneth. Bicycle lamp radio device. 3,714,412, 1-30-73, Cl. 240-7.550.
Franklin Manufacturing Company: *See—*
Ostenberg, Ramon K.; and Case, Richard P., 3,779,090.
Franklin Mint Corporation: *See—*
Karawin, Kenneth J., 3,748,712.
Okell, Roy E.; Kirkham, Harold; and Kirkham, Kathleen E., 3,719,121.
Franklin Mint, Inc., The: *See—*
Richardson, Robert W.; and Keegan, James J., III, 3,726,732.
Franklin, Paul R., Jr. Holdover cold plate cooling unit. 3,744,271, 7-10-73, Cl. 62-430.000.
Franklin, Richard P., mesne: *See—*
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Franklin, William E.; and Rowland, Stanley P., to United States of America, Agriculture. Recurable crosslinked cellulosic fabrics from methylol reagents and polycarboxylic acids. 3,776,692, 12-4-73, Cl. 8-116.300.
Franklin-Cowan Paper Co., Inc.: *See—*
Cowan, Harold L., 3,734,396.
Franko, Bernard V.: *See—*
Welstead, William John, Jr.; and Franko, Bernard V., 3,766,196.
Franko, John; and Ryan, William J., to Leesona Corporation. Method of making zinc electrodes. 3,753,779, 8-21-73, Cl. 136-31.000.
Frankovich, George J., to Kennecott Copper Corporation. Method of producing a wholly integral anode for electrolytic refining of metals. 3,707,764, 1-2-73, Cl. 29-527.600.
Frankovich, John H.; and Wunderlich, Donald K., to Atlantic Richfield Company. Method for treating synthetic crude oil for pour point reduction. 3,738,931, 6-12-73, Cl. 208-67.000.
Franks, Buyrl A.: *See—*
Barrett, Burton M.; and Franks, Buyrl A., 3,747,413.
Franks, Buyrl A., to Lowrance Electronics, Inc. Device for indicating the temperature and depth of water. 3,721,124, 3-20-73, Cl. 73-344.000.
Franks, David B.: *See—*
Enk, Albert T.; and Franks, David B., 3,713,631.
Franks, Hobart T. Shipping and display container. 3,710,973, 1-16-73, Cl. 220-4.00r.
Franks, John T., Jr.: *See—*
Shannon, Joseph A.; Apicella, Anthony M.; and Franks, John T., Jr., 3,771,220.
Franlinna, Rauno Sakari. Grinding device. 3,754,354, 8-28-73, Cl. 51-61.000.
Franson, Otto Elving, to Munksjo Aktiebolag. Carrying bag provided with a handle. 3,774,837, 11-27-73, Cl. 229-54.00r.
Franssen, Nico Valentinus; Ruiterkamp, Willem; and Van der Pelt, Cornelis Johannes, to U.S. Philips Corporation. Method of producing tones of a preferably substantially, equal-tempered scale. 3,743,756, 8-3-73, Cl. 84-1.010.
Fransson, Goran E.: *See—*
Hiklert, Thomas L.; Fransson, Goran E.; and Trenbeath, Richard E., 3,748,962.
Fransson, Jan-Erik: *See—*
Malm, Assar; and Fransson, Jan-Erik, 3,720,998.
Fransson, Johnny; Holmlund, Henrik; and Kareby, Erik, to AB Vibro-Verken. Vibrator driven by pressurized fluid. 3,746,310, 7-17-73, Cl. 259-1.00r.
Frant, Martin S.; and Fowler, James, to Orion Research Incorporated. Tag ion cell. 3,755,124, 8-28-73, Cl. 204-195.00r.
Frantisek, Jaros: *See—*
Stanislav, Kabelc; Ctibor, Doudlebsky; Frantisek, Jaros; Zdenek, Svec; and Bohumir, Brozek, 3,777,466.
Frantti, Edsel W.; and Gelzheiser, Francis L., to Westinghouse Electric Corporation. Ground fault circuit interrupter. 3,745,414, 7-10-73, Cl. 317-18.00d.
Frantz, Dale E.; and Shortlidge, Donald L., to Schick, Incorporated. Control unit for electric shaver. 3,748,732, 7-31-73, Cl. 30-43.100.
Frantz, David Louis, to Du Pont de Nemours, E. I., and Company. Polymeric web shredding. 3,762,256, 10-2-73, Cl. 83-356.300.
Frantz, Lee M.: *See—*
Altshuler, Saul; and Frantz, Lee M., 3,761,721.
Frantz, Richard J.; and Morris, Alton R., to Arrow-Hart, Inc. Voltage sensing and switching circuit. 3,719,859, 3-6-73, Cl. 317-31.000.
Frantzen, John J.; and Lund, Charles M., to Buckbee-Mears Company. System suitable for controlling etching without the aid of an etchant resistant. 3,756,898, 9-4-73, Cl. 156-345.000.
Frantzen, Karl H.: *See—*
Hirt, Thomas J.; Kissinger, Richard D.; and Frantzen, Karl H., 3,710,070.
Frantzen, Karl H., to Northern Natural Gas Company. Forced-draft furnace system. 3,724,403, 4-3-73, Cl. 110-72.00r.
Franz, Fred A.: *See—*
Fisher, Glen W.; and Franz, Fred A., 3,751,991.
Franz, Helmut, to PPG Industries, Inc. Stabilization of silvering solutions. 3,723,138, 3-27-73, Cl. 106-1.000.
Franz, Helmut, to PPG Industries, Inc. Removal of metal containing deposits from non-metallic substrates. 3,738,867, 6-12-73, Cl. 134-2.000.
Franz, Helmut, to PPG Industries, Inc. Squeegee/shield. 3,761,305, 9-25-73, Cl. 117-105.300.
Franz, Hermann; and Kunert, Max, to Edeleanu Gesellschaft m.b.H. Method for the decomposition of adducts of urea and N-paraffins. 3,775,295, 11-27-73, Cl. 208-25.000.
Franz, Ilse; and Langheinrich, Werner, to Telefunken Patentverwertungsgesellschaft m.b.H. Method for treating the surface of a container and a container produced by the method. 3,717,498, 2-20-73, Cl. 117-70.00a.
Franz, Joachim: *See—*
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Franz, John E., to Monsanto Company. Insecticidal triazine derivatives. 3,755,580, 8-28-73, Cl. 424-249.000.
Franz, John E., to Monsanto Company. Herbicidal method employing arylthiohydramic acids. 3,770,412, 11-6-73, Cl. 71-98.000.
Franz, Joseph J.: *See—*
Herring, Theodore C.; Bracht, Ernest F.; Ainslie, Robert E.; Todd, Eugene M.; and Franz, Joseph J., 3,715,668.
Franz, Karl: *See—*
Csok, Tibor; and Franz, Karl, 3,732,684.
Franz Lipowsky Sagen- und Maschinenmesserfabrik, Firma: *See—*
Kulik, Leo; and Gustenau, Gustav, 3,712,348.
Franz, Ludwig, to Pfaff Industriemaschinen GmbH. Double chain stitch sewing machine having compound feeding means. 3,742,880, 7-3-73, Cl. 112-199.000.
Franz, Norman C. Very high velocity fluid jet nozzles and methods of making same. 3,750,961, 8-7-73, Cl. 239-600.000.
Franz, Norman J., to Procter & Gamble Company, The. Method of forming and adhering a web of material to the lower surface of a pad or the like. 3,730,798, 5-1-73, Cl. 156-201.000.



Franz, Peter; and Maier, Andreas, to Buss A.G. Apparatus for the preparation of solid intermediates of polyaddition resins in the form of connected pieces useful for breaking and grinding. 3,734,415, 5-22-73, Cl. 241-65.000.
Franz, Raymond A.; Montgomery, Phillip D.; and Gebhart, Herbert J., Jr., to Monsanto Company. Stilbene production. 3,739,038, 6-12-73, Cl. 260-668.00r.
Franz, Robert W.; and Zielnicki, John J., to Cam-Fram Tool Co., Inc. End transformer and enclosure. 3,762,205, 10-2-73, Cl. 72-339.000.
Franz, Rudolph J., to Eaton Corporation. Temperature control system and vacuum modulator valve therefor. 3,770,195, 11-6-73, Cl. 236-13.000.
Franz, Rudolph J., to Eaton Corporation. Automotive vehicle automatic temperature control system. 3,774,676, 11-27-73, Cl. 165-23.000.
Franz, William F.: *See—*
Cole, Edward L.; Hess, Howard V.; and Franz, William F., 3,761,349.
Franz, William F.; and Hess, Howard V., to Texaco Inc. Process and apparatus for recovering a gas constituent by membrane separation. 3,713,271, 1-30-73, Cl. 55-16.000.
Franz, William F.; and Hess, Howard V., to Texaco Inc. Production of methane-rich fuel gas. 3,759,679, 9-18-73, Cl. 48-213.000.
Franzen, Erwin F. Collapsible shelter for mounting on a transportation vehicle. 3,712,315, 1-23-73, Cl. 135-1.00a.
Franzen, Gustav; Nimtz, Klaus; and Riefers, Horst, to Palitex Project-Company GmbH. Apparatus for use in connection with spooling and twisting machines for placing a thread reserve onto the winding bobbin. 3,730,447, 5-1-73, Cl. 242-18.0pw.
Franzen, Gustav, to Palitex Project-Company G.m.b.H. Air operated yarn threading mechanisms in a textile yarn processing machine. 3,731,478, 5-8-73, Cl. 57-58.700.
Franzen, Gustav, to Palitex Project-Company G.m.b.H. Belt drive apparatus having improved take-up. 3,741,026, 6-26-73, Cl. 74-242.900.
Franzmair, Rudolf: *See—*
Bretschneider, Hermann; Klotzer, Wilhelm; and Franzmair, Rudolf, 3,772,413.
Franzmann, Karl; and Schleuter, Paul, to Babcock & Wilcox, Limited. Tube support system. 3,754,533, 8-28-73, Cl. 122-510.000.
Franzmeier, Alvin W. Rain trough devices. 3,716,076, 2-13-73, Cl. 138-32.000.
Franzolini, Luciano: *See—*
Giacomello, Giacomo; Pedrazzini, Andrea; and Franzolini, Luciano, 3,777,577.
Frappe, Pierre, to Verdol S.A. Electronic reading in of designs for the preparation of perforated jacquard cards. 3,719,803, 3-6-73, Cl. 235-61.11e.
Frappe, Pierre, to Verdol S.A. Automatic recognition of colors. 3,752,590, 8-14-73, Cl. 356-176.000.
Frappier, Robert H.: *See—*
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Fraser, Alexander Gibson, to Bell Telephone Laboratories, Incorporated. Digital data communication system. 3,749,845, 7-31-73, Cl. 179-15.0al.
Fraser, Alfred M. Process for the production of a topographical map having a relief contour effect. 3,753,713, 8-21-73, Cl. 96-41.000.
Fraser, David B., to Dynasciences Corporation. Image motion compensation mechanism. 3,728,948, 4-24-73, Cl. 95-12.500.
Fraser, David Bruce; O'Bryan, Henry Miles, Jr.; and Thomson, John, Jr., to Bell Telephone Laboratories, Incorporated. Use of water soluble lanthanum compounds in lead zirconate-lead titanate ceramics. 3,718,723, 2-27-73, Cl. 264-61.000.
Fraser, Donald L., Jr., to United States of America, Army. Miniature, directed, electron-beam source. 3,753,022, 8-14-73, Cl. 313-78.000.
Fraser, Donald M. Tree pruning saw. 3,715,805, 2-13-73, Cl. 30-166.000.
Fraser, Douglas S.: *See—*
Bender, Charles E.; and Fraser, Douglas S., 3,764,836.
Fraser, Douglas S.; and Bender, Charles E., to Cenco Medical/Health Supply Corporation. Egg cutter. 3,721,181, 3-20-73, Cl. 99-576.000.
Fraser, Douglas S., to Cenco Medical/Health Supply Corporation. Homogenizer shearing assembly apparatus and process. 3,726,487, 4-10-73, Cl. 241-46.170.
Fraser, Douglas S., to Cenco Medical/Health Supply Corporation. Bottom connector and filter holder for chromotographic column. 3,771,659, 11-13-73, Cl. 210-198.00c.
Fraser, George R. Hand appliance device and its enclosure. 3,746,960, 7-17-73, Cl. 320-2.000.
Fraser, Hugh B.; Johnson, Lewis T.; Shutt, Melvin S.; and Brookshire, Harry A., to Phillips Petroleum Company. Tray. 3,727,791, 4-17-73, Cl. 220-66.000.
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Fraser, Richard J.; and McGrath, John E., Jr. Folding camera viewfinder. 3,710,697, 1-16-73, Cl. 95-47.000.
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Fustukian, David A. W.; Norris, Leon F.; Fraser, Robert W.; and Evans, David John Ivor, 3,741,748.
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Fraser, Ronald E. Blackboard eraser. 3,748,684, 7-31-73, Cl. 15-244.00r.
Fraser Sweatman, Inc.: *See—*
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Frass, Hans Werner: *See—*
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Fraston (Hollinwood) Limited: *See—*
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Frasure, James W., to Dow Chemical Company, The. Expansion joint for flow speed reaction rails. 3,729,135, 4-24-73, Cl. 238-151.000.
Fratelli Roda S.A.: *See—*
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Roda, Emilio, 3,780,627.
Fratelli Rotondi Di E. Rotondi & C. S.A.S.: *See—*
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Fratta, Peter J. Tool holder assembly. 3,759,472, 9-18-73, Cl. 248-201.000.
Frattarola, Joseph Ralph, to RCA Corporation. Method of manufacturing holographic replicas. 3,758,649, 9-11-73, Cl. 264-1.000.
Frattolillo, Anthony: *See—*
Frattolillo, Domenico; and Frattolillo, Anthony, 3,731,421.
Frattolillo, Domenico; and Frattolillo, Anthony. Device for scattering light objects. 3,731,421, 5-8-73, Cl. 46-10.000.
Fratzer, Gerhard: *See—*
Klebe, Hans; Meffert, Alfred; Lange, Ludwig; Fratzer, Gerhard; and Dahm, Franz-Ludwig, 3,716,628.
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Fratzke, Lawrence F.: *See—*
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Frau Irma Ungerer: *See—*
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Frauchiger, Ulrich: *See—*
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Frauenglass, Elliott; and Cass, William E., to Loctite Corporation. Air-impermeable surfaces coated with an adhesive composition. 3,757,828, 9-11-73, Cl. 138-145.000.
Fravel, Frank E., to Lee, Raymond, Organization, Inc., The. Fingernail clipper container. 3,722,518, 3-27-73, Cl. 132-75.600.
Frawley, James J.; Gras, Silvio S.; and Tote, Louis D., to General Electric Company. Purification of steel. 3,754,893, 8-28-73, Cl. 75-58.000.
Frawley, Kenneth O. Parts dispenser and positioner. 3,710,477, 1-16-73, Cl. 29-203.00b.
Frayssinoux, Roland, to Compteurs Schlumberger. Degassers. 3,747,302, 7-24-73, Cl. 55-164.000.
Fraze, Ermal C.: *See—*
Brown, Omar L., 3,730,379.
Brown, Omar L., 3,757,989.
Fraze, Ermal C.; and Silver, Francis M., 3,744,667.
Schubert, James R., 3,734,338.
Schubert, James R.; and Brown, Omar L., 3,765,352.
Silver, Francis M., 3,730,380.
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Fraze, Ermal C. Scoring die. 3,728,980, 4-24-73, Cl. 113-1.000.
Fraze, Ermal C.; and Silver, Francis M., to Fraze, Ermal C. Can end with retained tear strip. 3,744,667, 7-10-73, Cl. 220-48.000.
Fraze, Ermal C., mesne: *See—*
Brown, Omar L., 3,720,349.
Brown, Omar L.; and Smyth, George F., 3,724,063.
Frazee, Jerome A.; and Murphy, Howard E., to Eastman Kodak Company. Automatic rangefinder electronic circuitry. 3,751,154, 8-7-73, Cl. 356-1.000.
Frazee, John Robert; Martin, Brian Read; and Brundrett, Charles Philipp, to Grace, W. R., & Co. Supported copper chromite catalyst. 3,756,964, 9-4-73, Cl. 252-454.000.



Franzoni, Luigi: *See—*
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Franzosi, Ferruccio, to Franzosi, Ferruccio & Figli S.p.A. Machine for cutting meat. 3,744,344, 7-10-73, Cl. 83-425.300.
Frapwell, Ronald Edward; and Hall, Peter Ernest, to Imperial Chemical Industries Limited. Method of producing a dyeing of a polyester fibre material. 3,737,276, 6-5-73, Cl. 8-4.000.
Frary, Norman C., to Aluminum Company of America. Method of making a composite metal article. 3,744,120, 7-10-73, Cl. 29-420.000.
Frasch, Hans Werner: *See—*
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Frase, Ermal C.: *See—*
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Franz, Peter; and Maier, Andreas, to Buss A.G. Apparatus for the preparation of solid intermediates of polyaddition resins in the form of connected pieces useful for breaking and grinding. 3,734,415, 5-22-73, Cl. 241-65.000.
Franz, Raymond A.; Montgomery, Phillip D.; and Gebhart, Herbert J., Jr., to Monsanto Company. Stilbene production. 3,739,038, 6-12-73, Cl. 260-668.00r.
Franz, Robert W.; and Zielnicki, John J., to Cam-Fram Tool Co., Inc. End transformer and enclosure. 3,762,205, 10-2-73, Cl. 72-339.000.
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Frazer, Howard W.: *See—*
Gustafson, Hilding B.; and Frazer, Howard W., 3,709,818.
Frazer, John S., to Union Carbide Corporation. Removable funnel for containers. 3,708,092, 1-2-73, Cl. 222-567.000.
Frazeur, Dean Russell; and Huston, Robert Bruce, to Grain Processing Corporation. Protein and method of extracting same from soybeans employing reverse osmosis. 3,728,327, 4-17-73, Cl. 260-123.500.
Frazier, Alva W., to Tennessee Valley Authority. Stabilization of polyphosphate fertilizer solutions. 3,711,268, 1-16-73, Cl. 71-34.000.
Frazier, Alvin W.: *See—*
Wennerberg, Arnold N.; and Frazier, Alvin W., 3,715,303.
Frazier, Alvin W.; Oxenreiter, Maurice E.; and Wennerberg, Arnold N., to Standard Oil Company. Three-stage process for hydrotreating feeds rich in polynuclear aromatics. 3,726,787, 4-10-73, Cl. 208-59.000.
Frazier, Bruce J.: *See—*
Kendrick, William D.; Frazier, Bruce J.; Freeman, Norman L.; and Ferguson, Lyndel G., 3,715,055.
Frazier, John Earl; and Crouse, Clifford F., to Frazier-Simplex Inc. Glass batch feeder. 3,780,889, 12-25-73, Cl. 214-33.000.
Frazier, John F., to Corning Glass Works. Radiant surface-heater and temperature sensing assembly. 3,710,076, 1-9-73, Cl. 219-449.000.
Frazier, John F.; and Ziver, Caro M., to Corning Glass Works. Temperature sensor. 3,723,935, 3-27-73, Cl. 338-28.000.
Frazier, John P. Vacuum cleaner. 3,761,997, 10-2-73, Cl. 15-422.000.
Frazier, Larry C., to National-Standard Company. Method of incorporating tire beads into a tire. 3,776,793, 12-4-73, Cl. 156-132.000.
Frazier, Lauren L., to General Electric Company. Photoelectric ice level sensor. 3,731,496, 5-8-73, Cl. 62-137.000.
Frazier, Marvin J.: *See—*
United States of America, National Aeronautics and Space Administration, 3,732,567.
Frazier, Melvin A., to Collins Radio Company. Method and means for antenna coupling. 3,775,707, 11-27-73, Cl. 333-32.000.
Frazier, Richard B., to Calcagni-Frazier-Zajachowski, Architects, Inc. Back support. 3,716,270, 2-13-73, Cl. 297-377.000.
Frazier, Stanley J. Construction of a form for concrete molding. 3,751,790, 8-14-73, Cl. 29-455.000.
Frazier, Thomas J. Method and apparatus for subsoil irrigation. 3,753,409, 8-21-73, Cl. 111-6.000.
Frazier, William R., Jr., to General Dynamics Corporation. System for transmission, storage and/or multiplexing of information. 3,723,982, 3-27-73, Cl. 340-174.10g.
Frazier-Simplex Inc.: *See—*
Frazier, John Earl; and Crouse, Clifford F., 3,780,889.
Frazin, Benjamin. Combined electric continuity checker and flashlight. 3,711,768, 1-16-73, Cl. 324-53.000.
Fre-Bar Inc.: *See—*
Barton, Frederic D., 3,757,984.
Freads, Warren L.; and Jensen, Daniel L. Load restraining crossbar. 3,774,939, 11-27-73, Cl. 280-179.00b.
Freake, Stuart M.: *See—*
MacVicar, Margaret L. A.; Freake, Stuart M.; and Adkins, Clement J., 3,731,158.
Freakes, Anthony: *See—*
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Frech, Anton. Transport system particularly upright cableway, aerial cableway or overhead railway. 3,742,864, 7-3-73, Cl. 104-173.000.
Frech, Kenneth J.; Hoppstock, Frederic H.; and Goodwin, Jeffrey A., to Goodyear Tire & Rubber Company, The. Preparation of propylene from normal butane. 3,751,516, 8-7-73, Cl. 260-683.00r.
Freche, John C.: *See—*
Dreshfield, Robert L.; Sandrock, Gary D.; and Freche, John C., 3,762,918.
Freche, John C.; Waters, William J.; and Ashbrook, Richard L., to United States of America, National Aeronautics and Space Administration. Method of heat treating a formed powder product material. 3,765,958, 10-16-73, Cl. 148-126.000.
Freche, John C.; Waters, William J.; and Ashbrook, Richard L., to United States of America, National Aeronautics and Space Administration. Method of forming articles of manufacture from superalloy powders. 3,775,101, 11-27-73, Cl. 75-213.000.
Frechet, Daniel: *See—*
Allais, Andre; Nedelco, Lucine; Guillaume, Jacques; and Frechet, Daniel, 3,780,061.
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Frechette, Thomas E., to Litton Business Systems, Inc. Action and shift jam reset mechanism. 3,720,297, 3-13-73, Cl. 197-17.000.
Freck, James A.: *See—*
Van Patten, Eric M.; and Freck, James A., 3,751,268.
Van Patten, Eric M.; and Freck, James A., 3,777,039.
Freda, John F. Bearing lubricator. 3,724,596, 4-3-73, Cl. 184-1.00d.
Fredd, John V.; and Tamplen, Jack W. Valves. 3,756,260, 9-4-73, Cl. 137-1.000.
Fredd, John V., to Otis Engineering Corporation. Pipe coupling. 3,778,089, 12-11-73, Cl. 285-39.000.
Frederick, Albert R.; Paine, Joseph L.; and Rosser, Daniel B., to General Electric Company. Modular rectifier holding assembly with heat sink supporting circuit protecting means. 3,718,841, 2-27-73, Cl. 317-100.000.
Frederick, Arthur F., to United States of America, Navy. Fluid mixer-dispenser. 3,746,216, 7-17-73, Cl. 222-137.000.
Frederick, Cecil S.: *See—*
Fort, Johnny L.; and Frederick, Cecil S., 3,735,223.
Frederick, Cecil S., to Cutters Machine Company, Inc. Catcher mechanism for the spreading of quilting material. 3,738,640, 6-12-73, Cl. 270-31.000.
Frederick, Charles D.: *See—*
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Frederick, Claud, Jr.; and Woodrum, Harold L., to American Standard, Inc. Door latch cut-out forming. 3,713,217, 1-30-73, Cl. 30-287.000.
Frederick, Dean M. Axial air gap motor. 3,745,388, 7-10-73, Cl. 310-49.000.
Frederick, Leonard L. Bottom brace for hammer leads frame. 3,734,435, 5-22-73, Cl. 248-2.000.
Frederick, Leonard L. Modular leads. 3,747,689, 7-24-73, Cl. 173-90.000.
Frederick, Oscar C.: *See—*
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Frederick, Raymond H.: *See—*
Chase, Bernard S.; Frederick, Raymond H.; and Gorglione, Victor T., 3,768,186.
Frederick, Ronald, to Desoutter Brothers Limited. Power operated wrench or screwdriver. 3,752,278, 8-14-73, Cl. 192-56.00r.
Frederick, William N. Flexible chain for personal wear. 3,724,204, 4-3-73, Cl. 59-80.000.
Fredericks, Carl K., to Corlite Corporation. Cellular structure. 3,756,904, 9-4-73, Cl. 161-49.000.
Fredericks, George; Zeiringer, Rudolf; and Wiederwohl, Kurt, to List, Hans. Device for the suppression of reactions involving undue pressure rise in large-size containers. 3,775,622, 11-27-73, Cl. 307-118.000.
Fredericks, Zygmunt S.: *See—*
Curran, John D.; Fredericks, Zygmunt S.; and Marshall, James D., 3,731,894.
Frederickson, Arthur R.; Morris, Arnold D.; and Jackson, B. Walter, to United States of America, Air Force. Device to aid in centering of high energy electric particle beams in an evacuated drift tube. 3,749,963, 7-31-73, Cl. 315-18.000.
Frederickson, Arthur R., to United States of America, Air Force. Method and system for secondary emission detection. 3,775,610, 11-27-73, Cl. 250-305.000.
Frederickson, Arthur R.; and Morris, Arnold D. Charge accumulation gamma radiation detector. 3,780,304, 12-18-73, Cl. 250-336.000.
Frederickson, Elmer. Nail feeding apparatus. 3,765,588, 10-16-73, Cl. 227-113.000.
Frederickson, Robert Eugene, to Mc Culloch Corporation. Centrifugal clutch with C-springs. 3,768,611, 10-30-73, Cl. 192-105.0ba.
Frederickson, Stanley W.; and Watson, Ralph E., to Phillips Petroleum Company. Process for producing a mono-condensation product of an alkylene oxide and a mercaptan. 3,775,483, 11-27-73, Cl. 260-609.00r.
Frederiksen, Erling Knud; and Godtfredsen, Wagn Ole, to Lovens Kemiske Fabrik Produktionsaktieselskab. Semi-synthetic penicillin esters. 3,719,668, 3-6-73, Cl. 260-239.100.
Frederiksen, Jeffrey E., to Post Corporation. Encoder. 3,778,557, 12-11-73, Cl. 179-90.00k.
Frederiksen, Ronald A.: *See—*
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Alsberg, Henry; and Frederiksen, Ronald A., 3,770,571.
Frederiksen, Thomas M.: *See—*
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Davis, William F.; Russell, Ronald W.; Frederiksen, Thomas M.; and Long, Ernest L., 3,735,240.
Frederiksen, Thomas M.; and Long, Ernest L., to Motorola, Inc. Low current, low noise avalanche diode. 3,723,830, 3-27-73, Cl. 317-234.00r.
Frederiksen, Thomas M.; and Russell, Ronald W., to Motorola, Inc. Switching circuit with hysteresis. 3,725,673, 4-3-73, Cl. 307-235.00r.
Frederiksen, Thomas M., to Motorola, Inc. Stabilized multivibrator circuit. 3,725,681, 4-3-73, Cl. 307-273.000.
Frederiksen, Thomas M.; and Russell, Ronald W., to Motorola, Inc. Output circuit for comparators. 3,735,151, 5-22-73, Cl. 307-235.00r.



Frederiksen, Thomas M.; and Russell, Ronald W., to Motorola, Inc. Fuel pump driver circuit. 3,742,256, 6-26-73, Cl. 307-254.000.
Frederiksen, Thomas M.; Davis, William F.; and Russell, Ronald W., to Motorola, Inc. Circuit for providing precise time delay. 3,753,012, 8-14-73, Cl. 307-293.000.
Fredman, Harry. Adjustable bed carriage with adapter unit. 3,761,970, 10-2-73, Cl. 5-181.000.
Fredrick, William H., 1/2 to Gilbeit, Nathan. Shipping and dispensing container. 3,773,213, 11-20-73, Cl. 220-97.00d.
Fredricks, Richard A.; Nelson, Charles H.; and Zepka, David J., to ICI America, Inc. Stabilizers and polyolefin compositions containing same. 3,772,354, 11-13-73, Cl. 260-429.00j.
Fredrickson, David L. Expandable shaft apparatus. 3,768,749, 10-30-73, Cl. 242-72.000.
Fredrickson, Sherman E.: *See—*
Knox, John A.; and Fredrickson, Sherman E., 3,768,564.
Fredrickson, Wallace F. Baler. 3,728,959, 4-24-73, Cl. 100-218.000.
Fredrikson, Gunnar, AB: *See—*
Forsberg, Erik; and Landin, Uno, 3,722,165.
Fredriksson, Helge Adolf. Method for bending a gutter or equivalent into a curve. 3,740,995, 6-26-73, Cl. 72-414.000.
Free, David, to Radiation Development Co., Ltd. Apparatus for treating wood chips with electrons. 3,780,305, 12-18-73, Cl. 250-400.000.
Free Flow Packaging Corporation: *See—*
Fuss, Gunter G., 3,723,237.
Free, Maurice George, to Mororola, Inc. Technique for compensating for input bias currents of transistors. 3,719,833, 3-6-73, Cl. 307-296.000.
Free, William N.: *See—*
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Fuss, Gunter G., 3,762,772.
Freeberg, Charles A.; and Ganss, Alfred G.; deceased (by Ganss, Shirley; legal representative). Basic oxygen steel making facility and method of oxygen refining of steel. 3,746,325, 7-17-73, Cl. 266-13.000.
Freeborg, Robert M.: *See—*
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Freeborn, John C., to Honeywell Inc. Amplifier apparatus for use with an inductive load. 3,745,477, 7-10-73, Cl. 330-13.000.
Freeborn, John C., to Honeywell Inc. High speed amplifier for use with an inductive load. 3,747,006, 7-17-73, Cl. 330-30.00d.
Freed, Elisabeth Hertz: *See—*
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Freed, Larry E., to International Business Machines Corporation. Test circuit configuration for integrated semiconductor circuits and a test system containing said configuration. 3,781,683, 12-25-73, Cl. 324-158.00f.
Freed, Marvin J. Motor-actuated toys. 3,735,525, 5-29-73, Cl. 46-202.000.
Freed, Meier E.: *See—*
Potoski, John R.; and Freed, Meier E., 3,725,410.
Potoski, John R.; and Freed, Meier E., 3,775,418.
Potoski, John R.; and Freed, Meier E., 3,775,419.
Freed, Meier E.; and Freed, Elisabeth Hertz, to American Home Products Corporation. 4,5 Dihydro 1H[1,4]diazipino[1,2a]indole 2(3H) carboxamides. 3,736,324, 5-29-73, Cl. 260-293.590.
Freed, Meier E.; and Childress, Scott J., to American Home Products Corporation. Substituted 3,3-diphenylpiperazines and 3,3-diphenylpiperazin-2-ones. 3,749,725, 7-31-73, Cl. 260-268.00r.
Freed, Paul S., to United States of America, Health, Education and Welfare. Balloon cardiac assisting pump having intraaortic electrocardiographic electrodes. 3,707,960, 1-2-73, Cl. 128-206.00e.
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Freed, Roy F. Amusement vehicle. 3,718,342, 2-27-73, Cl. 280-87.010.
Freeder, Herman; and Wilt, Homer E., to Goodrich, B. F., Company, The. High temperature brake disc. 3,730,320, 5-1-73, Cl. 192-107.00m.
Freedlander, Abraham L.; Garrett, Wayne C.; and Matthews, Robert E., to Dayco Corporation. Mower blade. 3,717,985, 2-27-73, Cl. 56-295.000.
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Freedman, Gerald, to Freedman Seating Company. Vehicle seat suspension system with height and ride indicator. 3,743,230, 7-3-73, Cl. 248-399.000.
Freedman, Gerald Allen. Cue tip trimmer. 3,728,828, 4-24-73, Cl. 51-204.000.
Freedman, James F.; Henry, George R.; Mayadas, Ashok F.; and Shatzkes, Morris, to International Business Machines Corporation. Thin film low temperature conductors and transmission lines. 3,769,618, 10-30-73, Cl. 333-84.00m.
Freedman, Jules, to Colgate-Palmolive Company. 3-Aminobicyclo[2.2.2]octan-2-ols. 3,742,055, 6-26-73, Cl. 260-570.5ca.
Freedman, Nathan: *See—*
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Freedman, Nathan, to Raytheon Company. MTI radar. 3,742,500, 6-26-73, Cl. 343-7.700.
Freedman, Paul M., to United States of America, Air Force. End pump device for a laser. 3,732,505, 5-8-73, Cl. 331-94.500.
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Freedman, Stuart I., to Kidde, Walter, & Company, Inc. Cart with brake and retention system. 3,710,895, 1-16-73, Cl. 188-5.000.
Freedman, William B., to Freedman Cut-Outs, Inc. Display unit. 3,739,511, 6-19-73, Cl. 40-124.100.
Freeland, Stanley R., to Bell & Howell Company. Convertible sunshade and lens cap. 3,715,149, 2-6-73, Cl. 350-58.000.
Frecland, Stanley R., to Bell & Howell Company. Motor driven camera focusing mechanism. 3,730,068, 5-1-73, Cl. 95-44.00r.
Freeman, Alan John Morris, to Stansted Engineering Limited. Fluid pumping apparatus. 3,768,927, 10-30-73, Cl. 417-38.000.
Freeman, Alfred. Treatment of footwear. 3,739,413, 6-19-73, Cl. 12-1.00a.
Freeman, Alfred B. Automatic harmony apparatus. 3,711,618, 1-16-73, Cl. 84-1.030.
Freeman, Alfred B. Automatic bass from chord apparatus. 3,712,950, 1-23-73, Cl. 84-1.030.
Freeman, Alfred B. Chord tone generator control system. 3,715,442, 2-6-73, Cl. 84-1.010.
Freeman, Alfred B., to Chicago Musical Instrument Co. Ring counter. 3,716,725, 2-13-73, Cl. 307-223.000.
Freeman, Charles D.: *See—*
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Freeman, Craig; and Hetherington, Robert D., to Ransburg Electro-Coating Corporation. Fluid valve and mixing assembly. 3,763,876, 10-9-73, Cl. 137-114.000.
Freeman, Dixon L., to Monitor Cabinets; a division of Comerco, Inc. Corner-connected cabinet assembly. 3,741,425, 6-26-73, Cl. 217-12.000.
Freeman, Dixon L., to Monitor Cabinents; a division of Comerco, Inc. Reversible cabinet shelf bracket. 3,759,191, 9-18-73, Cl. 108-42.000.
Freeman, Donald C., Jr., to Union Carbide Corporation. Method of fabricating a superconducting magnet. 3,713,211, 1-30-73, Cl. 29-599.000.
Freeman, Donald J., to United States of America, Army. Hermetically sealed plastic cartridge case/cap system. 3,760,729, 9-25-73, Cl. 102-32.000.
Freeman, Edward G. Record player having a child-proof device. 3,716,240, 2-13-73, Cl. 274-2.000.
Freeman, Francis R.; and Vitali, Joseph D., to Amoco Production Company. Averaging circuit. 3,714,590, 1-30-73, Cl. 328-158.000.
Freeman, Frank George, to Lucas, Joseph, (Industries) Limited. Rotary hydraulic machines. 3,744,379, 7-10-73, Cl. 91-497.000.
Freeman, Frank George, to Lucas, Joseph, (Industries) Limited. Rotary hydraulic machines. 3,758,899, 9-18-73, Cl. 91-475.000.
Freeman, Frank George, to Lucas, Joseph, (Industries) Limited. Rotary hydraulic machines. 3,760,690, 9-25-73, Cl. 91-484.000.
Freeman, Gary Michael, to Gilford Instrument Laboratories, Inc. Timing device for automatic sampling apparatus. 3,707,875, 1-2-73, Cl. 73-423.00a.
Freeman, Gene G.: *See—*
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Freeman, George; and Freeman, Patricia V. Frame assembly kit. 3,778,915, 12-18-73, Cl. 40-125.00r.
Freeman, Gerald C.: *See—*
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Freeman, H., & Son, Incorporated: *See—*
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Freeman, Harlan G., to Weyerhaeuser Company. Rapid curing resin compositions comprising a modified aldehyde condensation polymer coreacted with an epoxide-aldehyde mixture. 3,719,724, 3-6-73, Cl. 260-828.000.
Freeman, Harry. Therapeutic bed pan. 3,757,356, 9-11-73, Cl. 4-112.000.
Freeman, John A.; and De Souza, David, to Microsystems International Limited. Static bipolar to MOS interface circuit. 3,739,194, 6-12-73, Cl. 307-214.000.
Freeman, Lawrence M.; and Arnold, Francis T., to Micro Information Systems, Inc. Microfilm viewer-printer. 3,730,622, 5-1-73, Cl. 355-14.000.



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Freeman, Marshall E.: *See—*
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Freeman, Max. Resilient strip mounting for plastic bag fabricator. 3,752,725, 8-14-73, Cl. 156-367.000.
Freeman, Max. Plastic bag fabricating, dispensing and sealing unit. 3,753,829, 8-21-73, Cl. 156-367.000.
Freeman, Michael W. Method for administering iron and other metals. 3,712,291, 1-23-73, Cl. 128-1.300.
Freeman, Norman L.: *See—*
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Freeman, Peter A., to Bowles Engineering Corporation. Fluidically controlled siphon. 3,747,643, 7-24-73, Cl. 137-806.000.
Freeman, Ralph Capron. Debris collection device. 3,768,851, 10-30-73, Cl. 294-55.000.
Freeman, Raymond, to Varian Associates. Gyromagnetic resonance method and apparatus for obtaining spin-spin coupling constants. 3,753,081, 8-14-73, Cl. 324-.50r.
Freeman, Richard Don; and Loporcaro, Lawrence John, to Bell Telephone Laboratories, Incorporated. Program activated computer diagnostic system. 3,763,474, 10-2-73, Cl. 340-172.500.
Freeman, Roger Francis Argyll: *See—*
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Freeman, Wayne E., to General Motors Corporation. Wrapper for a sheet metal article. 3,780,933, 12-25-73, Cl. 229-40.000.
Freeman, Willard Anton; and Hartley, Donald Jean, to Wallace-Murray Corporation. Flexible bladed fan with improved reinforcing. 3,759,630, 9-18-73, Cl. 416-132.000.
Freeman, William D. Rotating warning light with an integrated spotlight. 3,732,537, 5-8-73, Cl. 340-50.000.
Freeman, William H.; Peterson, Leavitt A.; and Wandrisco, Joseph M., said Peterson assor. to said Bessemer and Lake Erie Railroad Company, said Freeman assor. to Quebec Cartier Mining Company and said Wandrisco assor. to United States Steel Corporation. Mehod and apparatus for evaluating railroad track structure and car performance. 3,718,040, 2-27-73, Cl. 73-146.000.
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Freeman, Wyndham J., to Freeman, Wyndham J., Ltd. Roofing system and method of application. 3,763,605, 10-9-73, Cl. 52-58.000.
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Freen, Philip, to Telectron, Inc. Interference avoidance superregenerative receiver. 3,746,999, 7-17-73, Cl. 325-429.000.
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Freese, Charles E. Method and apparatus for drying compressed air. 3,739,594, 6-19-73, Cl. 62-93.000.
Freese, Heinz: *See—*
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Freese, Howard W., to Diebold, Incorporated. Pneumatic tube carrier closure construction. 3,756,537, 9-4-73, Cl. 243-35.000.
Freese, Lennart Werner, to New-Invent S.A. Hydraulic axial piston machine of the bent-axis type. 3,722,372, 3-27-73, Cl. 91-504.000.
Freese, Lennart Werner, to New-Invent S.A. Telescopic piston-cylinder assembly for hydraulic machines and machine components. 3,742,819, 7-3-73, Cl. 91-490.000.
Freeze, John A.; Price, Elmo D., Jr.; and Wilburn, Garlington C., to Westinghouse Electric Corporation. Apparatus for indicating when current exceeds a predetermined level and when said level is exceeded for a predetermined period of time. 3,775,675, 11-2773, Cl. 324-51.000.
Fregeolle, Oscar, to Pilot Research Corporation. Seamless knit lower body garment and method of making same. 3,748,870, 7-31-73, Cl. 66-177.000.
Freggens, Robert Alfred: *See—*
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Fregh, Kenneth J.: *See—*
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Frehn, Fritz, to Deutsche Edelstahlwerke Aktiengesellschaft. Sintered steel-bonded hard metal alloy and a method of preparing the same. 3,720,504, 3-13-73, Cl. 29-182.700.
Frehn, Fritz, to Deutsche Edelstahlwerke Gesellschaft mit beschrankter Haftung. Sintered alloys. 3,723,077, 3-27-73, Cl. 29-182.700.
Frehn, Fritz, to Deutsche Edelstahlwerke Aktiengesellschaft. Sintered titanium alloy. 3,737,290, 6-5-73, Cl. 29-182.700.
Frehn, Fritz, to Deutsche Edelstahlwerke Aktiengesellschaft. Sinter metal alloy. 3,771,975, 11-13-73, Cl. 24-182.700.
Frei, Armin Heinz; and Vettiger, Peter, to International Business Machines Corporation. High-speed analog switching with FET. 3,708,699, 1-2-73, Cl. 307-304.000.
Frei, Gerhard; and Hintergraber, Maximillian, to Siemens Aktiengesellschaft. Pressure maintaining device and method for pressurized water reactors. 3,722,578, 3-27-73, Cl. 165-1.000.
Frei, Joerg: *See—*
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Freiburger, Joseph Anthony. Shiftable ladder installation. 3,729,062, 4-24-73, Cl. 182-39.000.
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Freije, Michell J. Wire cutter and stripper. 3,716,914, 2-20-73, Cl. 30-90.100.
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Freimanis, Laimons, to Bell Telephone Laboratories, Incorporated. Balanced semiconductor switching network circuit and construction. 3,725,863, 4-3-73, Cl. 340-166.00r.
Freimanis, Laimons, to Bell Telephone Laboratories, Incorporated. Telephone subscriber line dial pulse detector circuit. 3,740,486, 6-19-73, Cl. 179-918.0fa.
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Freimark, Bernard; and Schaftlein, Richard W., to Scott Paper Company. Cellulosic sheet material having a thermosetting resin



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Freireich, Ernest; and Klooster, Henry J., to Fluor Corporation. Treatment of wet natural gas mixtures to recover liquid hydrocarbons. 3,770,622, 11-6-73, Cl. 208-340.000.
Freis, Richard E.; and Culbertson, Billy M., to Ashland Oil, Inc. Acrylamide of methacrylamide monomer with N-substituted aminimide residues. 3,728,387, 4-17-73, Cl. 260-561.00h.
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Fremont, Andrew De Mouilpied, to Marconi Company Limited, The. Television cameras. 3,755,707, 8-28-73, Cl. 315-22.000.
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French, Albert Graham; Keast, David Edward; and Oven, Terence, to Coal Industry (Patents) Limited. Dust suppression means for mining machines. 3,767,265, 10-23-73, Cl. 299-81.000.
French, Alfred W.; and Starrett, Forest J., Jr., to French Oil Mill Machinery Company, The. Mechanical screw press. 3,721,184, 3-20-73, Cl. 100-117.000.
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French, Fred W., to Noranda Metal Industries, Inc. Tubing with inner baffle fins and method of producing it. 3,776,018, 12-4-73, Cl. 72-367.000.
French, Gerald H., to Mosley Electronics Inc. Electrical connector. 3,710,005, 1-9-73, Cl. 174-89.000.
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French, James, Jr., to Video Aid Corporation of Colorado. Edit control apparatus for recording equipment. 3,733,444, 5-15-73, Cl. 179-100.20b.
French, John B.; and Schroeder, Hubert J. Labeling machine. 3,729,362, 4-24-73, Cl. 156-542.000.
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French, John Lischer; Kessler, Kenneth Quentin; Funk, Welker W.; Pierrot, Victor Charles, III; and Hiseler, Stanley Robert, to Deere & Company. Self-propelled tree delimber. 3,757,837, 9-11-73, Cl. 144-2.00z.
French, Lionel John Bryant Rushent, to Sulby Engineering Development Company Limited, The. Book binding. 3,731,330, 5-8-73, Cl. 11-1.0ad.
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French, Robert Williams; and Gardner, James Dennis, to Firestone Tire & Rubber Company, The. Tire having knit belt. 3,763,913, 10-9-73, Cl. 152-361.00r.
French State, represented by the Minister of Armed Forces, Ministerial Delegation for Weapons Technical Direction of Land Weapons Manufacturing Workshop of Tarbes: *See—*
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Frentrop, Arthur H., to Schlumberger Technology Corporation. Method for outgassing permanent magnets. 3,756,682, 9-4-73, Cl. 316-19.000.
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Fretwell, Richard D., to Design Elements, Inc. Modem CBS/CBT interface. 3,716,672, 2-13-73, Cl. 179-2.0dp.
Fretwell, Richard D., to Design Elements, Inc. Data terminal automatic control circuit. 3,745,251, 7-10-73, Cl. 179-2.0dp.
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Frey, Bernhard. Overrunning clutch. 3,739,889, 6-19-73, Cl. 192-45.200.
Frey, Christoph, to Ciba-Geigy AG. Pyrazolone pigments. 3,780,057, 12-18-73, Cl. 260-310.00a.
Frey, Dean Rudisill; Henn, Robert Walter; Smith, Donald Tolman; and Vedejs, Arthur Guntis, to Bell Telephone Laboratories, Incorporated. Universal miniature connector for plural conductors. 3,772,635, 11-13-73, Cl. 339-99.00r.
Frey, Dennis L.; Divita, Sam; and Smoke, Edward J., to United States of America, Army, mesne. Method of treating barium titanate. 3,718,730, 2-27-73, Cl. 423-81.000.
Frey, Dennis W., to Caterpillar Tractor Company. Vehicular parking brake control with lockable release mechanism. 3,780,822, 12-25-73, Cl. 180-114.000.
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Frey, Rudolf; Niedermaier, Arnold; and Maier, Peter, to Schnellpressenfabrik Frankenthal Albert & Cie Aktiengesellschaft. Doctor device for low pressure rotating presses. 3,720,163, 3-13-73, Cl. 101-169.000.
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Frey, William G., to Thomas & Betts Corporation. Electrical connector. 3,728,665, 4-17-73, Cl. 339-97.00c.
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Freyermuth, William J., to General Motors Corporation. Transmission gearshift indicator. 3,739,741, 6-19-73, Cl. 116-124.000.
Freyhold, Helmut V.; and Wehle, Volker. Readily-soluble, solid, water-containing alkali metal silicates and process. 3,749,759, 7-31-73, Cl. 423-332.000.
Freyler, Adalbert. Telescopic shock absorber for vehicles. 3,713,516, 1-30-73, Cl. 188-129.000.
Freyling, Edward N., Jr., to Williamson, Walter A., mesne. Method and apparatus for inhibiting article theft. 3,781,860, 12-25-73, Cl. 340-280.000.
Freyling, George. Tire bead breaker device. 3,747,661, 7-24-73, Cl. 157-1.170.
Freyschlag, Herwig; Stolp, Fritz; Reif, Werner; and Pommer, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of derivatives of omega-hydroxytigladehyde. 3,760,004, 9-18-73, Cl. 260-615.00a.
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Fridinger, Tomas L.; and Mutsch, Edward L., to Minnesota Mining and Manufacturing Company. Method of controlling insects or nematodes by using S,S-substituted 2,2-thio-sulfinyl-and sulfonyl-alkanyl and alkanone N-substituted carbamoyloximes and their carbaoyl derivatives. 3,720,772, 3-13-73, Cl. 424-277.000.
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Fries, Paul, to Siemens Aktiengesellschaft. Device for cooling rotors. 3,765,480, 10-16-73, Cl. 165-86.000.

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Fries, Walter; Bloching, Helmut; Rhld, Hilden; and Jung, Dieter, to Henkel & Cie G.m.b.H. Compositions useful in the aqueous cold-bleaching of textiles including optical brighteners. 3,779,931, 12-18-73, Cl. 252-99.000.

Friese, Harrison L., Jr. Clip device. 3,726,179, 4-10-73, Cl. 85-36.000.

Friesen, Wilmer J.; and Hulet, Frank A., to Hartmann, M. W., Manufacturing Co., Inc. Foundry mold jacket and weight shifter. 3,731,822, 5-8-73, Cl. 214-1.0bc.

Friesner, Charles E., to Industrial Plastic Specialties Company. Method for producing trim strip assembly. 3,780,152, 12-18-73, Cl. 264-174.000.

Frig, Gerald E.: *See—*
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Frigo, Richard J.; and Crowden, William F. Drum. 3,724,313, 4-3-73, Cl. 84-452.00p.

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Frill, Richard K.: *See—*
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Frimberger, Herbert H., to Polymer Machinery Corporation. Automatic hopper loader. 3,780,446, 12-25-73, Cl. 34-57.00r.

Frind, Gerhard; Korte, Richard M.; and Zlupko, John E., to General Electric Company. Arc chute for an electric circuit breaker. 3,735,074, 5-22-73, Cl. 200-144.00c.

Frings, Horst; Braun, Gunter; Mosle, Ernst; and Schmid, Ludwig, to Daimler-Benz Aktiengesellschaft. Wrench, especially torque wrench. 3,769,860, 11-6-73, Cl. 81-52.500.

Frink, Russell E.; and Kozlovic, John M., to Westinghouse Electric Corporation. Potential indicator for high voltage switchgear. 3,744,045, 7-3-73, Cl. 340-248.00r.

Frisbey, Devern C., to Western Wood Mfg. Co. Water ski binding. 3,761,981, 10-2-73, Cl. 9-310.0aa.

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Farthing, Winfield H.; and Frisbie, Herbert F., 3,744,913.

Frisbie, Jack G., to International Telephone and Telegraph Corporation. Circuit arrangement for generating radio frequencies. 3,731,201, 5-1-73, Cl. 325-105.000.

Frisbie, Milo W.; Polka, Frank E.; and Vaught, Philip, to Motorola, Inc. Vacuum die sensor for a semiconductor die bonding machine. 3,731,867, 5-8-73, Cl. 228-6.000.

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Frisch, Eldon E.: *See—*
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Fritsche, Gale Ray, to Sandel Industries, Inc. Apparatus for homogeneous refining and continuously casting metals and alloys. 3,752,216, 8-14-73, Cl. 164-252.000.





Fritzsche, Hellmut; Ovshinsky, Stanford R.; Shaw, Robert F.; Silver, Marvin; and Smeltek, Pavel, to Energy Conversion Devices, Inc. Method and apparatus for producing threshold type multistable characteristics in amorphous materials. 3,743,847, 7-3-73, Cl. 307-88.500.

Scheinpflug, Hans; Kuhle, Engelbert; Klauke, Erich; Frohberger,

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Frisch, Erling: *See—*
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Frisch, Erling; and Andrews, Harry N., to Westinghouse Electric Corporation. Combination of nuclear reactor and missile shield. 3,752,737, 8-14-73, Cl. 176-38.000.

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Frisch, Erling; and Andrews, Harry N., to Westinghouse Electric Corporation. Reactor refueling method. 3,775,246, 11-27-73, Cl. 176-30.000.

Frisch, Hans, to Frisch Kabel- und Verseilmaschinenbau GmbH. Advancing apparatus for coiling elongated flexible material. 3,739,999, 6-19-73, Cl. 242-82.000.

Frisch, Hans-Otto, to Marker, Hannes. Toe iron safety ski bindings. 3,778,076, 12-11-73, Cl. 280-11.55t.

Frisch, Juergen: *See—*
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Frisch, Kurt C., to Owens-Corning Fiberglas Corporation. Low smoke generating plastic compositions. 3,725,319, 4-3-73, Cl. 260-2.5aw.

Frisch, Natalie A.; and Vallis, Hubert J. Shoe attachment for golfers. 3,755,929, 9-4-73, Cl. 36-7.600.

Frisch, Peter: *See—*
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Frischbier, Klaus. Concentrating krypton and xenon in air separation by liquid oxygen wash. 3,751,934, 8-14-73, Cl. 62-41.000.

Frischkorn, Hans; and Behrenbruch, Horst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 1,4-Bis-benzoxazolyl-(2')-naphthalene derivatives. 3,709,896, 1-9-73, Cl. 260-307.00d.

Frischkorn, Hans; Pintschovius, Ulrich; and Behrenbruch, Horst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 1,4-Bis-[benzoxazolyl-(2')]-naphthalene derivatives. 3,743,625, 7-3-73, Cl. 260-75.00n.

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Frish, William G. Palletizing apparatus. 3,757,971, 9-11-73, Cl. 214-8.50k.

Frishof, Henry, to Alco Standard Corporation. Making an arctic thread protector. 3,719,984, 3-13-73, Cl. 29-482.000.

Frisiani, Attilio, to Etablissements Proner. Machine for automatically fitting insulating caps on connecting clips. 3,758,936, 9-18-73, Cl. 29-203.00d.

Frisk, Knut Olov, to AB Tico. Method and device for detachable coupling together of implement and vehicle. 3,734,319, 5-22-73, Cl. 214-131.000.

Frisone, John Batista, to International Business Machines Corporation. Loop communications system. 3,752,932, 8-14-73, Cl. 179-15.0al.

Frisque, Alvin J.: *See—*
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Fritsch, Udo H. Enclosure for coiled garden hose. 3,776,262, 12-4-73, Cl. 137-355.160.

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Fritsche, Gale Ray, to Sandel Industries, Inc. Apparatus for homogeneous refining and continuously casting metals and alloys. 3,752,216, 8-14-73, Cl. 164-252.000.

Fritsche, Peter; and Hulsmann, Heidemarie, to Glasurit-Werke M. Winkelmann GmbH. Electrophoretic coating composition containing a heat-curable acrylate resin, a fine particulate copolymer and a plasticizer. 3,741,923, 6-26-73, Cl. 260-23.0ar.

Fritsche, Peter, to Glasurit-Werke M. Winkelmann GmbH. Method for the production of aluminum coatings. 3,761,432, 9-25-73, Cl. 260-11.000.

Fritts, Rex E., to Amana Refrigeration, Inc. Safety interlock system for microwave ovens. 3,766,437, 10-16-73, Cl. 317-40.00r.

Fritts, Robert M.; and Zeman, Harold C. Variable copy command apparatus. 3,761,890, 9-25-73, Cl. 340-135.000.

Fritts, Russell A.: *See—*
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Fritts, Russell A., to Singer Company, The. Cassette threading arrangement in sewing machines. 3,749,039, 7-31-73, Cl. 112-218.00r.

Fritz, Andre, to Du Pont de Nemours, E. I., and Company. Aryleneisopropylidene copolymers. 3,770,661, 11-6-73, Cl. 260-2.00r.

Fritz, Bauer. Continuously adjustable lifting devices. 3,711,054, 1-16-73, Cl. 248-400.000.

Fritz, Edward A., to International Harvester Company. Tine guiding device for crop pick-up. 3,713,283, 1-30-73, Cl. 56-364.000.

Fritz, Edward J.; and Middendorf, William H., to Wadsworth Electric Manufacturing Company, The. Closure means for unoccupied circuit breaker opening in a panel board. 3,743,892, 7-3-73, Cl. 317-120.000.

Fritz, James S.; Gillette, Robert K.; and Beuerman, Donald R., to United States of America, Atomic Energy Commission. Separation of sulfonic acids from sulfuric acid. 3,719,703, 3-6-73, Cl. 260-505.00p.

Fritz, James S.; and Millen, William G., to United States of America, Atomic Energy Commission. Gold recovery from aequous solutions. 3,736,126, 5-29-73, Cl. 75-118.000.

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Fritz, Kurt; Lippitsch, Josef M.; and Lurf, Gunther, to Waagner-Biro Aktiengesellschaft. Tubular heat exchanger supporting and spacer structure. 3,720,259, 3-13-73, Cl. 165-162.000.

Fritz, Rene; and Fritz, Rene E., to Albany International Industries, Inc. Sweep table for wood-processing mill. 3,732,765, 5-15-73, Cl. 83-102.000.

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Fritz, William Baird. Coated ferrite RF filters. 3,743,978, 7-3-73, Cl. 333-79.000.

Fritz, William Baird; Sanders, Neil Harrison; Reyner, Emerson Marshall, II; and Fox Harry Alvin, Jr., to AMP Incorporated. Method of making a monolithic multiaperture core devices. 3,757,415, 9-11-73, Cl. 29-604.000.

Fritze, Peter E.; and Brode, George L., to Union Carbide Corporation. Preparation of thiolactones. 3,732,250, 5-8-73, Cl. 260-327.00r.

Fritze, Peter E., to Union Carbide Corporation. Thiolactone polymerization and catalysts. 3,755,268, 8-28-73, Cl. 260-79.000.

Fritzinger, Dale A.; and Newman, Robert H., to General Electric Company. Sync pulse defeat switch. 3,752,909, 8-14-73, Cl. 178-7.30r.

Fritzler, Gary L.: *See—*
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Fritzmayer, Louis H., to General Electric Company. Electronic oven with ferrite RF rejection filters. 3,742,397, 6-26-73, Cl. 333-70.00s.

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Fritzsche, Donald L., to General Electric Company. Fryer circuit for use with a hood circuit having fire protection apparatus. 3,772,499, 11-13-73, Cl. 219-490.000.

Fritzsche, Harold L., to General Electric Company. Method for producing a protective coating on the surface of a manufactured article. 3,734,771, 5-22-73, Cl. 117-234.000.





Fritzsche, Hellmut; Ovshinsky, Stanford R.; Shaw, Robert F.; Silver, Marvin; and Smejtek, Pavel, to Energy Conversion Devices, Inc. Multi-terminal amorphous electronic control device. 3,748,501, 7-24-73, Cl. 307-299.000.

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Fritzsche, Rudolf; Hofer, Friedrich Wilhelm; and Schmid, Rudi, to Bosch, Robert, G.m.b.H. Flow regulating valve for pressure fluids. 3,760,830, 9-25-73, Cl. 137-101.000.

Fritzzell, Walter; and Gilliland, Quinton D. Automated handling of vessel heads. 3,747,380, 7-24-73, Cl. 72-21.000.

Frizane, Kenneth; and Trzyna, William A., to Zenith Radio Corporation. Series-connected power supply and deflection circuits utilizing a single shunt regulator. 3,737,572, 6-5-73, Cl. 178-7.30r.

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Frobosilo, Raymond C.; and Levine, Samuel W. Retractable barrier. 3,738,413, 6-12-73, Cl. 160-35.000.

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Froede, Walter; Wilmers, Gottlieb; and Dekitsch, Anton, to Audi NSU Auto Union Aktiengesellschaft and Wankel G.m.b.H. Rotary piston combustion engine. 3,765,392, 10-16-73, Cl. 123-196.00r.

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Froehlich, Alfred; Piller, Bernhard; and Loeffel, Hansrolf, to Ciba-Geigy AG. Photographic, light-sensitive material containing a trisazo dyestuff. 3,716,368, 2-13-73, Cl. 96-99.000.

Froehlich, Alfred, to Ciba-Geigy AG. Silver halide photosensitive element containing hydrophilic colloid layers hardened with α~β-bis-acryloylamido-ethyleneglycol. 3,749,573, 7-31-73, Cl. 96-50.00r.

Froehlich, Alfred, to Ciba-Geigy AG. Photographic silver halide light-sensitive material containing azo dyes. 3,770,444, 11-6-73, Cl. 96-99.000.

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Froehlich, Monroe, Jr., to DHJ Industries Inc. Garment clip. 3,754,307, 8-28-73, Cl. 24-255.0tv.

Froehlich, Walter; and Lang, Walter, to Zeiss-Stiftung, Carl; d/b/a Zeiss, Carl and Siemens Aktiengesellschaft. Method for improving the accuracy of evaluating certain objects in the field of a raster scan. 3,728,481, 4-17-73, Cl. 178-7.100.

Froehlig, Rudolph A., to Modern Album and Finishing Co., Inc. Package construction. 3,752,386, 8-14-73, Cl. 229-32.000.

Froehling, Paul H., to Johnson Service Company. Common wire compensation circuit. 3,739,188, 6-12-73, Cl. 307-103.000.

Froelich, Dieter; and Welsch, Wolfgang, to Siemens Aktiengesellschaft. Method and device for scanning information content of an optical memory. 3,737,876, 6-5-73, Cl. 340-173.0cr.

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Frohardt, Esther E.; and Frohardt, Melvin W. Illuminated wig. 3,758,771, 9-11-73, Cl. 240-6.40w.

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Frohlich, Alfons; Cappel, Marie-Luise; and Stubiger, Ernst, to Opti-Holding AG. Warp-knit slide-fastener stringer. 3,708,836, 1-9-73, Cl. 24-205.10c.

Frohlich, Alfons; Cappel, Marie-Luise; and Stubiger, Ernst, to Opti-Holding A.G. Slide fastener stringer with stitched-on coupling element. 3,714,683, 2-6-73, Cl. 24-205.10c.

Frohlich, Alfons; and Hochlehnert, Franz, to Opti-Holding AG. Apparatus for thermofixing of slide-fastener coupling chains. 3,730,817, 5-1-73, Cl. 156-580.000.

Frohlich, Alfons; Cappel, Marie-Luise; and Stubiger, Ernst, to Opti-Holding AG. Stringer foundation for slide fastener. 3,757,541, 9-11-73, Cl. 66-193.000.

Frohlich, Alfons; Cappel, Marie-Luise; and Stubiger, Ernst, to Opti-Holding AG. Slide-fastener stringer with knit tape. 3,762,002, 10-2-73, Cl. 24-205.10c.

Frohlich, Alfons, to Opti-Holding AG. Dyed slide fastener with stitched-on coupling coil. 3,768,125, 10-30-73, Cl. 24-105.16c.

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Frohman-Bentchkowsky, Dov, to Intel Corporation. Electrically programmable read only memory array. 3,744,036, 7-3-73, Cl. 340-173.00r.

Frohman-Bentchkowsky, Dov, to Intel Corporation. Floating gate solid state storage device and method for charging and discharging same. 3,755,721, 8-28-73, Cl. 317-235.00r.

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Frohock, Millard M., Jr.; Riley, Michael A.; and French, William E., to Hughes Aircraft Company. Built-in test for tank fire control computer. 3,720,131, 3-13-73, Cl. 89-41.0me.

Frohock, Millard M., Jr.; and McAdam, William E., Jr., to Hughes Aircraft Company. Ballistic elevation angle generator. 3,739,152, 6-12-73, Cl. 235-61.50e.

Frohrib, Darrell A., to University of Minnesota, The Regents of the. Constant flexure stress energy storing beam. 3,742,800, 7-3-73, Cl. 83-587.000.

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Fromknecht, Charles Thomas; and Davis, John C., to Singer Company, The. Moisture sealing device for toggle switches. 3,778,577, 12-11-73, Cl. 200-168.00g.
Fromlath, Joseph J.; and Taylor, Forest E. Scaffold safety apparatus. 3,747,707, 7-24-73, Cl. 182-129.000.
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Froning, H. R., to Amoco Production Company. Method for increasing permeability of oil-bearing formations. 3,729,053, 4-24-73, Cl. 166-304.000.
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Frost, Charles C.; Shaw, Thomas E.; and Weiss, Siegfried K., to Frost Engineered Products, Inc. Method for finishing anti-friction bearings. 3,751,861, 8-14-73, Cl. 51-316.000.
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Frost, David A.; and Schieven, Stanley R., to Eastman Kodak Company. Liquid trapping means for in-camera processed photographic product. 3,776,732, 12-4-73, Cl. 96-76.000.
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Frost, Harold. Artificial hip joint and method of implanting in a patient. 3,744,061, 7-10-73, Cl. 3-1.000.
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Frost, Solomon. Contact photocopy apparatus. 3,744,903, 7-10-73, Cl. 355-117.000.
Frost, Wade W.; and Shy, Lamar G., to Oxford Industries, Inc. Button line strip cutter and stacker. 3,741,052, 6-26-73, Cl. 83-24.000.
Frost, Wade W., to Oxford Industries, Inc. Method of making a shirt front assembly. 3,780,682, 12-25-73, Cl. 112-262.000.
Frost, William B.; and Cooper, Edward N. K. Indicia display. 3,751,836, 8-14-73, Cl. 40-64.000.
Frost-Smith, Edward Hilary; Marten, Henry Richard; and Wilkinson, Alfred John. Apparatus for measuring the wear of cutting edges of cutting tools. 3,728,621, 4-17-73, Cl. 324-65.00r.
Frostad, Lars, to Rockwell Manufacturing Company. Movable blade guard and mounting for portable circular saws. 3,721,141, 3-20-73, Cl. 143-159.00h.
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Froumajou, Armand, to Automobiles Peugeot and Regie Nationale des Usines Renault. Drive device for an ignition distributor for an internal combustion engine. 3,763,841, 10-9-73, Cl. 123-146.50a.
Froumajou, Armand, to Automobiles Peugeot and Regie Nationale des Usines Renault. Arrangement of an engine-transmission unit in an automobile vehicle. 3,774,712, 11-27-73, Cl. 180-82.00r.
Frowein, Egbertus Adrianus, to N.V. "COQ". Metal clad electric distribution and switching plants for high voltages. 3,743,804, 7-3-73, Cl. 200-148.00b.
Frownfelter, Jerald L. Remotely controlled vehicle. 3,720,281, 3-13-73, Cl. 180-6.500.
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Frulla, Floro F.; Odinak, Alec; and Sayigh, Adnan A. R., to Upjohn Company, The. Conversion of scrap polyurethane foam to polyol. 3,738,946, 6-12-73, Cl. 260-2.300.
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Fruth, Jonathan N., to General Motors Corporation. Compound air register of one piece construction. 3,780,640, 12-25-73, Cl. 98-110.000.
Frutiger, Peter; and Schuler, Rolf, to Anstalt Europaische Handelsgesellschaft. Apparatus for selectively coupling electrical signals and scanning and recording devices to movable data carrier. 3,745,534, 7-10-73, Cl. 340-172.500.
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Fry, William Lawrence. Ignition coils. 3,731,246, 5-1-73, Cl. 336-192.000.
Fry, William Lawrence, to Rists Wires and Cables Limited. Wiring harnesses and method of making same. 3,733,428, 5-15-73, Cl. 174-72.00a.
Fryatt, Leslie Alva, to Mastabar Beltfasteners Limited. Apparatus for threading a hinge pin through interdigitated loops of beltfasteners. 3,731,365, 5-8-73, Cl. 29-241.000.
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Fryd, Michael, to Du Pont de Nemours, E. I., and Company. Polyurethanes based on mixed aromatic-aliphatic polyesters. 3,763,079, 10-2-73, Cl. 260-37.00n.
Frydenberg, Donald V.; and Cain, Troy D., to Clary Corporation. Apparatus for fastening structural members together. 3,716,179, 2-13-73, Cl. 227-48.000.
Frydenberg, Donald V., to Clary Corporation. Apparatus for routing recesses in doors and the like. 3,730,236, 5-1-73, Cl. 144-27.000.
Frydenberg, Donald V., to Clary Corporation. Device for marking locations of structural elements. 3,757,422, 9-11-73, Cl. 33-76.00r.
Frye, Bernard, to Tenneco Chemicals, Inc. Polyurethane solutions and methods for the production of uniformly microporous polyurethane sheet material therefrom. 3,743,620, 7-3-73, Cl. 260-32.6nr.
Frye, Cecil L.; and Klosowski, Jerome M., to Dow Corning Corporation. Tetrasila-adamantane compounds. 3,776,915, 12-4-73, Cl. 260-293.560.
Frye, Elroy E.; and Trentham, Harold L., to Thentham Corporation. Method of separating sulfur dioxide from gaseous mixtures. 3,767,777, 10-23-73, Cl. 423-575.000.
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Frye, George J.; and Frisch, Arnold M., to Elektros, Inc. Analog-to-digital conversion for processing wide-range and non-linear input signals. 3,781,872, 12-25-73, Cl. 340-347.0ad.
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Frye, Kenneth G., to Beloit Corporation. Web spreader element. 3,719,316, 3-6-73, Cl. 226-199.000.
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Fryfogle, James D.; and Garland, Carl C. Hand assist breather. 3,777,744, 12-11-73, Cl. 128-28.000.
Frykhult, Rune Helmer, to Aktiebolaget Celleco. Cyclone separator. 3,716,137, 2-13-73, Cl. 209-211.000.
Fryrear, William A., Jr.; and Metcalf, Joseph R. Horseshoeing. 3,712,381, 1-23-73, Cl. 168-4.000.
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Fuchs, Francis J., Jr., to Western Electric Company, Incorporated. Continuous material feeding and deformation process. 3,738,138, 6-12-73, Cl. 72-60.000.



Fuchs, Francis J., Jr., to Western Electric Company, Incorporated.
Fuchs, Otto, to Farbwerke Hocchst Aktiengesellschaft vormals

Fuchs, Francis J., Jr., to Western Electric Company, Incorporated. Apparatus and method for continous material feeding and deformation process. 3,738,145, 6-12-73, Cl. 72-270.000.

Fuchs, Francis Joseph, to Western Electric Company, Incorporated. Apparatus for clamping a workpiece. 3,727,447, 4-17-73, Cl. 72-270.000.

Fuchs, Francis Joseph, Jr., to Western Electric Company, Incorporated. Method and apparatus for operating on a blank of material, e.g., deep drawing. 3,715,902, 2-13-73, Cl. 72-60.000.

Fuchs, Francis Joseph, Jr., to Western Electric Company, Incorporated. Variable orifice die and control therefor. 3,719,065, 3-6-73, Cl. 72-9.000.

Fuchs, Francis Joseph, Jr., to Western Electric Company, Incorporated. Collapsible feed mechanism. 3,724,336, 4-3-73, Cl. 92-166.000.

Fuchs, Francis Joseph, Jr., to Western Electric Company, Incorporated. Apparatus and method for continuous extrusion. 3,740,985, 6-26-73, Cl. 72-60.000.

Fuchs, Francis Joseph, Jr., to Western Electric Company, Incorporated. Method of preforming materials which work-harden. 3,756,061, 9-4-73, Cl. 72-253.000.

Fuchs, Francis Joseph, Jr., to Western Electric Company, Incorporated. Tube cutter. 3,756,108, 9-4-73, Cl. 83-193.000.

Fuchs, Francis Joseph, Jr.; and Venkatesan, Peruvemba Swaminatha, to Western Electric Company, Incorporated. Method of and means for commencing a deforming operation, E. G. hydrostatic extrusion of a billet. 3,766,766, 10-23-73, Cl. 72-60.000.

Fuchs, Francis Joseph, Jr.; and Venkatesan, Peruvemba Swaminatha, to Western Electric Company, Incorporated. Method of and means for commencing a deforming operation, e.g. hydrostatic extrusion of a billet. 3,766,768, 10-23-73, Cl. 72-256.000.

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Fuchs, Francis Joseph, Jr., to Western Electric Company, Incorporated. Pressure regulator. 3,766,934, 10-23-73, Cl. 137-116.300.

Fuchs, Francis Joseph, Jr., to Western Electric Company, Incorporated. Method of and means for commencing a deforming operation, e.g., hydrostatic extrusion of a billet. 3,767,368, 10-23-73, Cl. 29-187.500.

Fuchs, Francis Joseph, Jr., to Western Electric Company, Incorporated. Method of producing clad wire. 3,777,361, 12-11-73, Cl. 29-470.600.

Fuchs, Franz, to SKF Kugellagerfabriken GmbH. Apparatus for mounting top rollers. 3,722,036, 3-27-73, Cl. 19-282.000.

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Fuchs, Julius J., to Du Pont de Nemours, E. I., and Company. Process for the preparation of carbamates of alkylthiolhydroxamates and intermediates. 3,752,841, 8-14-73, Cl. 260-453.00r.

Fuchs, Julius Jakob, to Du Pont de Nemours, E. I., and Company. Process for the preparation of hydroxamoyl chlorides. 3,778,475, 12-11-73, Cl. 260-566.00a.

Fuchs, Karl-Dieter: *See—*
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Fuchs, Otto; Bier, Gerhard; and Trautvetter, Werner, to Dynamit Nobel Aktiengesellschaft. Process for the manufacture of cementable polyvinyl fluoride sheeting. 3,709,776, 1-9-73, Cl. 161-189.000.

Fuchs, Otto. Process for the manufacture of PVF shaped articles. 3,723,171, 3-27-73, Cl. 117-122.0pf.

Fuchs, Otto, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Linear alkyl-amido trans-quinacridone pigments. 3,741,970, 6-26-73, Cl. 260-279.00r.

Fuchs, Otto; and Troster, Helmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Water-insoluble benzoxanthene-dicarboxylic acid imide dyestuffs. 3,741,971, 6-26-73, Cl. 260-281.000.

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Fukuda, Susumu, to Fuji Photo Film Co., Ltd. Slide-type film take-up mechanism. 3,741,097, 6-26-73, Cl. 95-31.0ac.

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Fukuda, Yasuhiko; and Yuyuma, Noboru, to Nippon Chemical Industrial Co., Ltd. Method for the production mordenite. 3,714,366, 1-30-73, Cl. 423-329.000.

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Fukuhara, Akira, to Hitachi, Ltd. Reversible phase modulating element. 3,781,084, 12-25-73, Cl. 350-150.000.

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Fukuroi, Takeo, to Yoshida Kogyo Kabushiki Kaisha. Method and machine for assembling slide fasteners of separable type. 3,714,698, 2-6-73, Cl. 29-408.000.
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Fukushima, Rinjiro. Liquid coupling. 3,722,926, 3-27-73, Cl. 285-261.000.
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Fukushima, Yoshikiyo; Ishihara, Yasushi; Momota, Kenzo; Usui, Yasuo; Sakumura, Tuyoshi; Sogo, Satoru; and Numokawa, Kogi, to Nippon Concrete Industries Co., Ltd. Apparatus for forming PC concrete pipe reinforcing. 3,726,461, 4-10-73, Cl. 228-5.000.
Fukushima, Yoshikiyo; and Akagi, Tadashi, to Nippon Concrete Industries Co., Ltd. Method for shaping indented steel wire and apparatus therefor. 3,742,747, 7-3-73, Cl. 72-68.000.
Fukushima, Yoshio, to Kabushiki Kaisha Ricoh. Illumination optical system for projecting multi-photographic image. 3,738,742, 6-12-73, Cl. 353-38.000.
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Fuller, David L., to Scripto, Inc. Shutter assembly for photographic equipment. 3,718,079, 2-27-73, Cl. 95-62.000.
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Fuller, David L., to Scripto, Inc. Camera with apparent image motion and direction compensation. 3,744,387, 7-10-73, Cl. 95-12.500.
Fuller, Edward H., to BASF Wyandotte Corporation. Reel cannister. 3,765,530, 10-16-73, Cl. 206-52.00f.
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Fuller, Frank J.; and Walters, Donald E., to United States of America, Navy. Short Schuler attitude/heading reference system. 3,727,177, 4-10-73, Cl. 340-2.000.
Fuller, George A., Jr.; Langevin, Wilfred Louis; Neilly, Geoffrey C., Jr.; and Pearson, Ole B., to USM Corporation. Fabric edge finishing machines. 3,752,097, 8-14-73, Cl. 112-121.120.
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Fuller, John Rodney Dyson, to United Kingdom of Great Britian and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Gap control apparatus. 3,736,751, 6-5-73, Cl. 60-262.000.
Fuller, Joseph C. Heat exchanger tube reamer and cleaning apparatus. 3,778,858, 12-18-73, Cl. 15-104.10r.
Fuller, Keith Lewis; and Lambell, Anthony John, to U.S. Philips Corporation. Luneberg lens. 3,781,900, 12-25-73, Cl. 343-911.001.
Fuller, Maurice D., to Korry Manufacturing Company. Front-mounted, clamp-to-hold electrical cartridge with swing-aside, push-to-test cap thereon. 3,708,640, 1-2-73, Cl. 200-167.00a.
Fuller, Maurice D., to Korry Manufacturing Company. Releasable cartridge mounted servomechanism for an operating unit latched to a keeper device on the cartridge thereof. 3,743,806, 7-3-73, Cl. 200-167.00a.
Fuller, Oliver C., to Evans Products Company. Hopper gate toggle operating mechanism. 3,780,672, 12-25-73, Cl. 105-253.000.
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Fuller, Robert T.; and Smith, Keith A. Edge-forming means for flooring. 3,710,414, 1-16-73, Cl. 16-8.000.
Fuller, Roger L.; Gustafsson, Sven G.; Harris, Derek V.; Kaye, Robert K.; and Oliver, Joseph J., to Raytheon Company. Vehicle command and control system. 3,714,650, 1-30-73, Cl. 343-6.52c.
Fuller, Sterritt R., Jr.; Munzel, Howard E.; and Woosley, Kenneth D., to International Business Machines Corporation. Coated carrier particles with magnitude of triboelectric charge controlled and method of making same. 3,725,118, 4-3-73, Cl. 117-100.00m.
Fuller, Walter T.: *See*—
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Fulton, Robert L. Securing device. 3,756,642, 9-4-73, Cl. 292-341.150.
Fulton, Theodore Alan, to Bell Telephone Laboratories, Incorporated. Supercurrent devices with enhanced self-field effects. 3,725,819, 4-3-73, Cl. 331-107.00s.
Fulton, Theodore Alan, to Bell Telephone Laboratories, Incorporated. SNS supercurrent device. 3,751,721, 8-7-73, Cl. 317-234.000.
Fulton, Thomas Philip; and Di Luca, Henry, to RCA Corporation. Encapsulated magnetic memory element. 3,713,886, 1-30-73, Cl. 117-234.000.
Fulton, Thomas Philip, to RCA Corporation. Magnetic core memory plane construction. 3,750,118, 7-31-73, Cl. 340-174.0ma.
Fulwiler, Stanley S., to Tapecon, Inc. Auxiliary device for a cassette tape recorder including a plug conformed as a cassette for enter-connection. 3,763,330, 10-2-73, Cl. 179-100.20z.
Fulwyler, Mack J.; Steinkamp, John A.; and Coulter, James R., to United States of America, Atomic Energy Commission. Multisensor particle sorter. 3,710,933, 1-16-73, Cl. 209-3.000.
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Fumia, Arthur, Jr.; and Brooker, Leslie G. S., to Eastman Kodak Company. Dyes and photographic materials. 3,758,461, 9-11-73, Cl. 260-240.100.
Fumia, Arthur, Jr., to Eastman Kodak Company. Photographic sensitizing dyes containing a bridgehead nitrogen. 3,772,034, 11-13-73, Cl. 96-136.000.
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Funaki, Takashi, to Kabushiki Kaisha Sankyo Seiki Seisakusho. Directly readable digital clock. 3,708,973, 1-9-73, Cl. 58-19.000.
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Funakubo, Toshiei, to Kabushiki Kaisha Eishin. Method of producing a band saw blade. 3,763,721, 10-9-73, Cl. 76-112.000.
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Funk, Albert G.: *See*—
Cook, Melvin A.; Udy, Lex L.; and Funk, Albert G., 3,728,173.
Funk, Albert G.; Hansen, Boyd L.; and Cook, Melvin A., to Ireco Chemicals. Liquid and slurry explosives of controlled high sensitivity. 3,765,967, 10-16-73, Cl. 149-21.000.
Funk, Clarence J., to United States of America, Navy. Pan and tilt underwater optical viewing system with adjustable source-receiver separation and zoom lenses. 3,757,042, 9-4-73, Cl. 178-7.200.
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Funk, Ernest J.: *See—*
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Funk, Forrest E., to General Electric Company. Pressure containment penetration nozzle. 3,746,375, 7-17-73, Cl. 285-286.000.
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Funk, John W.: *See—*
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Funk, Joseph C., to Funk Mfg., Company. Yieldable support means and drive mechanism for concrete mixer drums. 3,749,372, 7-31-73, Cl. 259-177.00r.
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Funk, Robert M., to Bethlehem Steel Corporation. Method for controlling the grind in a single stage autogenous grinding mill. 3,715,083, 2-6-73, Cl. 241-24.000.
Funk, Welker W.: *See—*
French, John Lischer; Kessler, Kenneth Quentin; Funk, Welker W.; Pierrot, Victor Charles, III; and Hiseler, Stanley Robert, 3,721,280.
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Funk, Wilmer E.; and Sage, Ira H., to Production Technology Inc., mesne. Internal flash removal method. 3,719,983, 3-13-73, Cl. 29-470.300.
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Funke, Ralph A. Compression paste tube dispenser. 3,744,674, 7-10-73, Cl. 222-103.000.
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Funke, Siegfried: *See—*
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Funkumura, Takashi, to Toray Industries, Inc. Process for preparing l-lysine. 3,770,585, 11-6-73, Cl. 195-29.000.
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Funsher, Jeffrey A.: *See—*
Asadorian, Arthur A.; Langer, Horst G.; and Funsher, Jeffrey A., 3,760,003.
Funt, Brunson Bert: *See—*
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Fuqua, Lloyd T., to General Motors Corporation. Fasteners. 3,710,673, 1-16-73, Cl. 85-75.000.
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Fuqua, Norman L., to Cornelius Company, The. Method and apparatus for automatically terminating dispensing of beverage when supply is empty. 3,756,464, 9-4-73, Cl. 222-57.000.
Furbeck, Warren R.: *See—*
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Furgal, Henry P.; Falivene, Pasquale J.; and Marchesani, Cesare N., to Colgate-Palmolive Company. Non-woven, sponge laminated cloth. 3,732,652, 5-15-73, Cl. 51-401.000.
Furgason, Roland W., to Ladish Co. Method of heat processing alloy steel to obtain maximum softness and uniformity. 3,732,127, 5-8-73, Cl. 148-12.400.
Furia, Andre, to Societe Anonyme D.B.A. Apparatus for testing the road tire adhesion of a vehicle. 3,772,698, 11-13-73, Cl. 343-13.00r.
Furia, Thomas E.; and Steinberg, David H., to Ciba-Geigy Corporation. Metal complexes of mercapto quinoline N-oxides. 3,723,435, 3-27-73, Cl. 260-270.00r.
Furkert, Herbert, to Chemiebau Dr. A. Zieren GmbH & Co. KG. Process for the cracking of ammonium sulfate. 3,761,575, 9-25-73, Cl. 423-356.000.
Furlani, Romeo, to International Telephone and Telegraph Corporation. Modulating ball valve. 3,722,545, 3-27-73, Cl. 137-625.300.
Furlong, Dale A.: *See—*
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Furlong, Dale A.; and Schmid, Alan H., to Combustion Power Company, Inc. Fluid bed reactor pre-heating method and apparatus. 3,769,922, 11-6-73, Cl. 110-28.00j.
Furlong, Donn B.; Forchini, James F.; and Luzaich, Samuel, to Ecodyne Cooling Products Company. Fan drive assembly. 3,712,760, 1-23-73, Cl. 417-424.000.
Furlong, Donn B.; and Ovard, John C., to Fluor Cooling Products Company. Drift eliminator. 3,748,832, 7-31-73, Cl. 55-257.000.
Furlong, Donn B.; Gobler, Harry W.; and Grotheer, Robert, to Ecodyne Corporation, mesne. Concrete cooling tower. 3,779,523, 12-18-73, Cl. 261-111.000.
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Furnsinn, Manfred: *See—*
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Furst, Stefan; deceased (by Dormanns, Stefanie; and Furst, Hans J.; heirs), to Reiners, Walter. Weft supplying device for a warp knitting machine. 3,732,707, 5-15-73, Cl. 66-84.000.
Furst, Stefan; deceased (by Dormanns, Stefanie, nee Furst; and Furst, Hans Joachim; heirs and legal representatives). Ring and traveler. 3,777,468, 12-11-73, Cl. 57-120.000.
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Furuhashi, Tokio, to Nippon Electric Company, Limited. Transistor circuit of compound connection. 3,725,754, 4-3-73, Cl. 317-235.000.
Furuhashi, Tokio, to Nippon Electric Company Limited. Amplifier circuit using complementary-symmetry transistors. 3,739,292, 6-12-73, Cl. 330-17.000.
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Furuishi, Haruhisa; Iida, Yasunobu; and Fukuoka, Toshiaki, to Matsushita Electric Industrial Co., Ltd. Ohmmeter for measuring the internal resistance of a battery and directly reading the measured resistance value. 3,753,094, 8-14-73, Cl. 324-29.500.
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Furukawa, Junji; Iseda, Yutaka; Haga, Kazuo; and Kataoka, Nobuyuki, to Bridgestone Tire Company Limited. Production of alternating copolymers of conjugated dienes and conjugated polar vinyl monomers. 3,773,854, 11-20-73, Cl. 260-82.500.
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Furusawa, Motoyoshi; and Asano, Seiji, to Fuji Shashin Koki Kabushiki Kaisha. Shutter operating mechanism. 3,766,839, 10-23-73, Cl. 95-42.000.
Furusho, Hirosuke; and Fukui, Shigetaka, to Daihatsu Kogyo Co., Ltd. Safety device assembly for vehicle occupant. 3,767,227, 10-23-73, Cl. 280-150.0ab.
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Fuss, Gunter G., to Free Flow Packaging Corporation. Packing material and method. 3,723,237, 3-27-73, Cl. 161-168.000.
Fuss, Gunter G., to Free-Flow Packaging Corporation. Air conveyance system and control. 3,762,772, 10-2-73, Cl. 302-28.000.
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Fuyama, Hiroshi; and Iida, Osamu, to Nippon Communication Industrial Company, Limited. Automatic card dialing device using photocell readout. 3,727,010, 4-10-73, Cl. 179-90.0cs.
Fuyuki, Minoru, to Konishiroku Photo Industry Co., Ltd. Drying means for electrophotographic copying machines. 3,717,747, 2-20-73, Cl. 219-216.000.
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Fuzio, Sumito: *See—*
Kanno, Iwau; Yoshioka, Junichi; and Fuzio, Sumito, 3,751,559.
Fuziyoshi, Kenzi: *See—*
Yamamoto, Hiroya; Tokita, Yuichiro; Fuziyoshi, Kenzi; Kasuga, Naoatu; Akamatsu, Akiyuki; and Sakurai, Hiroo, 3,764,487.
Fuzzell, Joe E., to Caterpillar Tractor Company. Proximity switch magnet control for bucket positioner. 3,717,073, 2-20-73, Cl. 91-388.000.
Fuzzell, Joe E., to Caterpillar Tractor Company. Remote control system for load manipulating vehicles. 3,768,367, 10-30-73, Cl. 91-361.000.
FWI, Inc.: *See—*
Elliott, Robert E., 3,746,027.
Fyans' Associates, Inc.: *See—*
Fyans, Frank, 3,740,976.
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Phillips, John J.; Posakony, Gerald J.; and Stephenson, Roger C., 3,748,635.
G. & W. Electric Specialty Company: *See—*
Lusk, George E.; and Nicholas, James H., 3,716,652.
Lusk, George E.; and Nicholas, James H., 3,758,699.
G-L-J Toy Co., Inc.: *See—*
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G-P Industries, Inc.: *See—*
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G-T-O Inc.: *See—*
Henderson, Raymond G.; and Hess, Ervin A., 3,780,545.
Gaa, Donald L.: *See—*
Frey, Sydney W., Jr.; Gaa, Donald L.; and Tetamore, Robert W., 3,723,937.
Gaab, Frederick; Padgett, John W.; and Van, Sherman T., to Moore & Munger, Inc. Wax compositions incorporating alpha olefins. 3,772,233, 11-13-73, Cl. 260-285.00a.
Gaalen, Neil Van. Fish egg sorting apparatus for separating small eggs from larger eggs. 3,746,166, 7-17-73, Cl. 209-74.000.
Gaarder, Gilbert W.: *See—*
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Gabano, Jean-Paul, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Preparation of electrodes containing metallic chlorides as active materials for use in electrochemical generators by chloridation. 3,743,546, 7-3-73, Cl. 136-20.000.
Gabbard, Ova G.: *See—*
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Gabbey, Eric G. Concentricity coil for screw threads. 3,727,904, 4-17-73, Cl. 269-52.000.
Gabbrielli, Guglielmo. Loading and unloading equipment of tiles or the like in baking plants. 3,762,581, 10-2-73, Cl. 214-16.40r.
Gabel, Heinz; and Lange, Gerhardt, to Messer Griesheim G.m.b.H. Torch for thermochemical processing of work pieces. 3,747,859, 7-24-73, Cl. 239-418.000.
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Gabel, Thomas H.: *See—*
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Gabella, Aristides A. Bumper and brake actuator assembly. 3,718,356, 2-27-73, Cl. 293-5.000.
Gabellieri, Rodolfo; and Osterreith, Michel, to Solvay & Cie. Process for the production of fibrillated structures. 3,740,383, 6-19-73, Cl. 260-88.200.
Gaber, Martin. Hammer operated switch construction. 3,746,809, 7-17-73, Cl. 200-67.00g.
Gable, Charles E.; and Gotsch, Marcus A., to General Electric Company. Bar stock storage dispensing and feeding apparatus and method. 3,757,927, 9-11-73, Cl. 198-105.000.
Gable, Charles M.; and Freitas, Ernest R., to Shell Oil Company. Sulfur-liquid hydrocarbon slurries. 3,745,124, 7-10-73, Cl. 252-309.000.
Gabler, Fritz; and Mihatsch, Hans. Drive means for weft inserting apparatus for a loom. 3,735,783, 5-29-73, Cl. 139-123.000.
Gabler, Karl F., to Beatrice Foods Co. Method and apparatus for gas stirring of molten metal. 3,744,781, 7-10-73, Cl. 266-34.0pp.
Gabler, Rudolf: *See—*
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Studinka, Josef; and Gabler, Rudolf, 3,738,966.
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Gabliks, Maigonis: *See—*
Croce, Louis J.; Bajars, Laimonis; and Gabliks, Maigonis, 3,743,683.
Gabor, Andrew, to Diablo Systems, Inc. Temperature compensation system for a magnetic disk memory unit. 3,723,980, 3-27-73, Cl. 340-174.10b.
Gabor, Andrew, to Diablo Systems, Inc. Apparatus for recovery of recorded bit information on a magnetic recording medium. 3,737,896, 6-5-73, Cl. 340-174.10h.
Gabor, Andrew, to Diablo Systems, Inc. Air circulation apparatus. 3,740,735, 6-19-73, Cl. 340-174.10e.
Gabor, Andrew, to Diablo Systems, Incorporated. Moving coil motor with no stray flux. 3,751,693, 8-7-73, Cl. 310-13.000.
Gabor, Andrew, to Diablo Systems, Incorporated. Vibration damped transducer head assembly. 3,769,467, 10-30-73, Cl. 179-100.2ca.
Gabor, Dennis, to Columbia Broadcasting System, Inc. Sonoradiography system. 3,745,814, 7-17-73, Cl. 73-67.50h.
Gabor, Dennis, to International Business Machines Corporation. Holographic system for subject recognition permitting conversion of a pattern into a machine-readable form. 3,764,979, 10-9-73, Cl. 340-146.300.
Gabor, Eva, International, Ltd.: *See—*
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Gabor, Kalman B. Fine grinding device. 3,770,214, 11-6-73, Cl. 241-42.000.
Gabor, Zoltan; Szanto, Jozsef; and Martini, Gyorgy, to Papiripari Vallslat. Ornamental packaging container for bottles and drinking glasses. 3,712,462, 1-23-73, Cl. 260-47.00r.
Gaboriault, Albert G. Method of exercise for pectoral muscle development. 3,776,547, 12-4-73, Cl. 272-57.00r.
Gabrail, Sami I.: *See—*
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Gabray, Emile, to Compagnie Generale de Radiologie. X-ray tube having a rotary anode. 3,711,736, 1-16-73, Cl. 313-330.000.
Gabriel, George S., to Lab Products, Inc. Watering bottle assembly for animals. 3,752,124, 8-14-73, Cl. 119-72.500.
Gabriel, James M.: *See—*
Maxwell, Douglas H.; and Gabriel, James M., 3,741,791.
Gabriel, James M.; and Reilly, William, to Chromalloy American Corporation. Powder metal magnetic pole piece. 3,739,445, 6-19-73, Cl. 29-182.500.
Gabriel, Jean-Pierre: *See—*
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Gabriel, Joseph T.: *See—*
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Gabriel, Malcolm Edward; and Anderson, David John, to International Standard Electric Corporation. Error correcting encoder. 3,775,747, 11-27-73, Cl. 340-146.10r.
Gabriel, Ralph Parton; and Kinross, Rupert Ivor, to Communications Patents Limited. Electrical switch devices. 3,721,929, 3-20-73, Cl. 335-206.000.
Gabriel-Willis Associates: *See—*
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Gabrielian, Genrikh Aramaisovich: *See—*
Lishevskaya, Marina Osipovna; Virnik, Alexandr Davidovich; Gabrielian, Genrikh Aramaisovich; Rogovin, Zakhar Alexandrovich; Borbat, Vladimir Fedorovich; Orlov, Alexandr Mikhailovich; Ferberg, Mirriam Borisovna; and Markelova, Nina Ivanovna, 3,728,103.
Gabrielian, Henry; and Csaszar, Steve, to Electronic Engineering Co. of California. Locking electrical cable connection apparatus. 3,713,076, 1-23-73, Cl. 339-91.00r.
Gabriels, Leonard, to Fraston (Hollinwood) Limited. Cutting apparatus for paper and like webs. 3,750,510, 8-7-73, Cl. 83-305.000.
Gabrielson, Edward M.: *See—*
Brown, William D., Jr.; and Gabrielson, Edward M., 3,744,280.
Gabrusenok, Pavel Stepanovich. Hygrosensitive element. 3,712,860, 1-23-73, Cl. 204-195.00w.
Gabryk, Stanislaw, 50% to Lee, Raymond, Organization, Inc., The. Radial flow inverted type steam turbine. 3,749,510, 7-31-73, Cl. 415-103.000.
Gabrys, Kenneth F.: *See—*
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G.A.C. International Inc.: *See—*
Baues, Dietrich; Marini, Richard; and McCauley, Donald, 3,729,824.
Gacek, Joseph A.; and Parker, Joseph E., to Tetrachord Corporation. Speech diagnostic and therapeutic apparatus including means for measuring the speech intensity and fundamental frequency. 3,760,108, 9-18-73, Cl. 179-1.0sa.
Gach, Peter P., to Sunbeam Plastics Corporation. Safety closure for a medicine bottle. 3,722,727, 3-27-73, Cl. 215-9.000.
Gach, Peter P., to Sunbeam Plastics Corporation. Tamperproof and childproof overcap for an aerosol can. 3,724,724, 4-3-73, Cl. 222-153.000.
Gach, Peter P., to Sunbeam Plastics Corporation. Cap having a removable wiping blade. 3,732,591, 5-15-73, Cl. 15-245.000.
Gach, Peter P., to Sunbeam Plastics Corporation. Child-proof container and closure unit. 3,733,001, 5-15-73, Cl. 215-9.000.
Gach, Peter P., to Sunbeam Plastics Corporation. Child proof overcap and actuator for an aerosol can. 3,734,354, 5-22-73, Cl. 222-153.000.
Gach, Peter P., to Sunbeam Plastics Corporation. Child proof protective overcap for an aerosol can. 3,738,536, 6-12-73, Cl. 222-153.000.
Gach, Peter P., to Sunbeam Plastics Corporation. Safety closure for aerosol can. 3,738,537, 6-12-73, Cl. 222-153.000.
Gach, Peter P., to Sunbeam Plastics Corporation. Tablet dispenser. 3,746,154, 7-17-73, Cl. 206-42.000.
Gach, Peter P., to Sunbeam Plastics Corporation. Child-proof overcap for an aerosol can. 3,747,807, 7-24-73, Cl. 222-153.000.
Gach, Peter P.; and Leonard, Henry K., to Sunbeam Plastics Corporation. Safety closure. 3,770,153, 11-6-73, Cl. 215-9.000.
Gach, Peter R.: *See—*
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Gackstetter, Henry Clinton: *See—*
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Gacs, Peter T.; and Williams, Lucien C., to General Steel Industries, Inc. Over-the-wing aircraft loading bridge. 3,722,017, 3-27-73, Cl. 14-71.000.
Gaczi, John: *See—*
Mutaffis, Thomas D.; Schmeider, Melvin G.; and Gaczi, John, 3,748,163.
Gadberry, William A. Diesel engine injector puller. 3,739,452, 6-19-73, Cl. 29-254.000.
Gadbois, Richard T.: *See—*
Currier, John W.; Gadbois, Richard T.; and Wilde, Arthur G., 3,716,066.
Gadbots, John F., to Offshore Company, The. Blowout and lost circulation detector. 3,760,891, 9-25-73. Cl. 175-48.000.
Gadd, John D.: *See—*
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Gadd, Ronald O. C.; and Smith, Frank K. Shoe lasting machine. 3,758,902, 9-18-73, Cl. 12-8.300.
Gaddy, Thomas W., to General Electric Company. Remote control circuit utilizing direct current of selected magnitude and polarity. 3,768,072, 10-23-73, Cl. 340-147.0pc.
Gade, John N.: *See—*
Butler, Ernest J.; Gade, John N.; and Herberger, Robert J., 3,742,586.
Kahwati, Ghassan N.; Gade, John N.; Mac Kay, James D.; and Druzynski, Conrad J., 3,780,961.
Gade, John N., to Eastman Kodak Company. Apparatus for unloading cartridges from trays. 3,776,405, 12-4-73, Cl. 214-310.000.
Gadefelt, Bengt Georg, to Saab-Scania Aktiebolag. System for controlling the supply of air to an internal combustion engine. 3,775,971, 12-4-73, Cl. 60-13.00n.
Gadelle, Claude: *See—*
Alagy, Jacob; Busson, Christian; Gadelle, Claude; and Seree de Roch, Irence, 3,717,662.
Gadet, Raymond, to Societe Nouvelle de Roulements. Integrated freewheel mechanisms. 3,776,335, 12-4-73, Cl. 192-41.000.
Gadient, Fulvio: *See—*
Jucker, Ernst; Lindenmann, Adolf; and Gadient, Fulvio, 3,726,879.
Gadient, Fulvio, to Sandoz Ltd. Certain 6,11-dihydro-11-(3-alpha-tropanyloxy)-dibenzo [b,e]thiepine-5-oxides and the corresponding dioxides and derivatives thereof. 3,716,544, 2-13-73, Cl. 260-292.000.
Gadren, George S.: *See—*
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Gaebelle, Rolf; and Gambera, Armand, to GTE Sylvania Incorporated. Automatic dark current control. 3,737,571, 6-5-73, Cl. 178-7.200.
Gaeddert, Melvin V., to Hesston Corporation. Rotor for chopping residue from combines. 3,717,062, 2-20-73, Cl. 146-107.000.
Gaefre, Andre Marc: *See—*
Teisseire, Paul Jose; and Gaefre, Andre Marc, 3,743,671.
Gaeke, Edward G., to General Motors Corporation. Road grade sensor. 3,752,251, 8-14-73, Cl. 180-104.000.
Gaeng, Manfred; and Dimroth, Peter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dyes of the 2,4-dihydroxyquinoline series. 3,715,360, 2-6-73, Cl. 260-288.00a.
Gaenzler, Carl W. Portable apparatus for testing fuel injection engines. 3,745,818, 7-17-73, Cl. 73-119.00a.
Gaenzler, Wolfgang: *See—*
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Gaertner, George W., Jr.: *See—*
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Gaetano, Salvatore. Intermittently flashing warning light. 3,729,707, 4-24-73, Cl. 340-81.00r.
Gaeth, Rudolf: *See—*
Stastny, Fritz; Gaeth, Rudolf; and Koerner, Heinz-Hermann, 3,755,518.
Gaeth, Rudolf; Schmitt, Bernhard; and Blum, Dieter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for the manufacture of polymer foams containing esters of tertiary alcohols as side groups. 3,760,047, 9-18-73, Cl. 264-54.000.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,379, 4-3-73, Cl. 260-94.90e.



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Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,381, 4-3-73, Cl. 260-94.90e.
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Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,429, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,430, 4-3-73, Cl. 260-94.90e.
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Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,437, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,438, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,439, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,440, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,441, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,442, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,443, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,444, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,445, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,446, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,447, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,448, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,449, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,450, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,451, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,452, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,453, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,454, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,455, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,456, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,457, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,458, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,459, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,460, 4-3-73, Cl. 260-94.90e.
Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,461, 4-3-73, Cl. 260-94.90e.
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Gaeth, Rudolf H., to Phillips Petroleum Company. Catalyst composition and process of polymerizing ethylene with same. 3,725,463, 4-3-73, Cl. 260-94.90e.
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Bellisio, Arthur A.; Psyras, Hippocrates G.; and Fein, Marvin M., 3,733,780.
Bellisio, Arthur A.; Psyras, Hippocrates G.; and Fein, Marvin M., 3,733,781.
Bellisio, Arthur A.; Psyras, Hippocrates G.; and Fein, Marvin M., 3,738,086.
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Berni, Rene P.; and Grifo, Richard A., 3,771,951.
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Boston, Robert L., 3,727,499.
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Erb, Edward R.; and Maass, Richard L., 3,741,851.
Erb, Edward Renninger; and Maass, Richard Leroy, 3,773,545.
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Field, Nathan D.; and Williams, Earl P., 3,723,375.
Field, Nathan D.; and Freyermuth, Harlan B., 3,725,064.
Field, Nathan D.; and Daniels, Wiley Edgar, 3,770,851.
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Freyermuth, Harlan B.; and Field, Nathan D., 3,728,322.
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Mackey, E. Scudder, 3,725,080.
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Mestetsky, Thomas S., 3,770,687.
Mestetsky, Thomas S., 3,778,398.
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Mutaffis, Thomas D.; Schmeider, Melvin G.; and Gaczi, John, 3,748,163.
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Psyras, Hippocrates G.; and Bellisio, Arthur Angelo, 3,745,747.
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Randall, David I.; and Wynn, Robert W., 3,711,272.
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Gaffney, Bernard J., to Conwed Corporation. Method for producing a tubular net product. 3,725,518, 4-3-73, Cl. 264-24.000.
Gaffney, Bernard J.; and Larsen, Ronald L., to Conwed Corporation. Apparatus for extrusion of plastic net. 3,749,535, 7-31-73, Cl. 425-150.000.
Gaffney, Bernard J., to Conwed Corporation. Apparatus for the extrusion of plastic net and net like structures. 3,767,353, 10-23-73. Cl. 425-464.000.
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Gage, Arthur F.; and Stamm, Alex F., to North American Rockwell Corporation. Friction welding method. 3,727,298, 4-17-73, Cl. 29-470.300.
Gage, Arthur F., to North American Rockwell Corporation. Friction welding brake system. 3,743,162, 7-3-73, Cl. 228-2.000.
Gage, Arthur F.; and Stamm, Alex F., to Rockwell International Corporation. Friction welding apparatus. 3,776,446, 12-4-73, Cl. 228-2.000.
Gage, Wayne T.; and Karski, Leo W., to Carborundum Company, The. Fluid energy grinder for increasing bulk density of materials. 3,741,485, 6-26-73, Cl. 241-39.000.
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Gagliani, John, to Honeywell Information Systems, Inc. Thermo-reclaiming process of aluminum substrates for disks. 3,748,176, 7-24-73, Cl. 134-2.000.
Gagliardi, Domenick D., to Union Carbide Corporation. After-fixing dyes with monoaminoalklysilicones with aminoalkyl chains having 3 carbon atoms. 3,741,721, 6-26-73, Cl. 8-74.000.
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Gagnon, Robert A. Toy road grader. 3,757,464, 9-11-73, Cl. 46-244.00a.
Gagnon, Robert A. Toy tilt bulldozer with winch. 3,772,825, 11-20-73, Cl. 46-274.000.
Gagnon, Robert A. Toy truck-pull. 3,775,902, 12-4-73, Cl. 46-244.00a.
Gagnon, Robert G., to United Aircraft Corporation. Digital anti-spin and anti-slide system for moving vehicles. 3,780,346, 12-18-73, Cl. 317-5.000.
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Gaia, Aldino J.; and Urani, Angelo, to McGraw-Edison Company. Protectors for electric circuits. 3,739,313, 6-12-73, Cl. 337-206.000.
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Radke, Arthur O.; and Galbraith, Donald C., 3,758,158.
Galbraith, Floyd M., Jr., to Eastman Kodak Company. Film advance and metering mechanism. 3,735,681, 5-29-73, Cl. 95-31.0fm.
Galbraith, Francis A. Batch operated milking apparatus. 3,759,225, 9-18-73, Cl. 119-14.040.
Galbraith, Lyle D.; and Harvey, Alan R., to Rocket Research Corporation. Pressure regulating valve. 3,712,332, 1-23-73, Cl. 137-495.000.
Galbraith, Lyle D., to Rocket Research Corporation. Liquefied gas vaporizer attachment for a pressure bottle. 3,719,054, 3-6-73, Cl. 62-50.000.
Galbraith, Lyle D.; and Harvey, Alan R., to Rocket Research Corporation. Drip irrigation system. 3,753,527, 8-21-73, Cl. 239-11.000.
Galbreath, Paul J.; Spaller, Albert E.; and Stockbridge, Bruce W., to Eastman Kodak Company. Underwater pelletizer die plate. 3,749,539, 7-31-73, Cl. 425-313.000.
Galcik, Anthony J.; and Lange, Ronald E., to Honeywell Information Systems, Inc. Apparatus for sampling an asynchronous signal by a synchronous signal. 3,764,920, 10-9-73, Cl. 328-110.000.
Galdabini, Renzo. Methods and apparatus for straightening or bending elongated. 3,713,312, 1-30-73, Cl. 72-10.000.
Galdo, Gustavo M.; and Adler, Irwin L., to General Foods Corporation. Process for the manufacture of a concentrated coffee product. 3,720,518, 3-13-73, Cl. 99-71.000.
Galdo, Norberto: *See*—
Bockhorn, Henning; Fetting, Fritz; Herbertz, Hans-Adolf; and Galdo, Norberto, 3,741,736.
Gale, Donald J., to Deering Milliken Research Corporation. Textile materials and processes for making the same. 3,720,500, 3-13-73, Cl. 8-115.700.
Gale, Edwin J., to Stanley Aviation Corporation. Coupling assemblies. 3,776,579, 12-4-73, Cl. 285-233.000.
Gale, Frederick Henry, to EMI Limited. Electron discharge devices. 3,720,889, 3-13-73, Cl. 333-83.000.
Gale, Frederick Henry, to EMI Limited. Discriminating devices. 3,742,239, 6-26-73, Cl. 250-83.30h.
Gale, Frederick Henry; and Cooper, Roy David, to EMI-Varian, Limited. Electron discharge devices. 3,780,332, 12-18-73, Cl. 313-252.000.
Gale, James G., to Newco Manufacturing Company, Inc. Web corner protector. 3,743,341, 7-3-73, Cl. 294-74.000.
Gale, Mae: *See*—
Gale, Ronald, 3,749,280.
Gale, Philip Franklin, to Electricity Council, The. Cable fault location indicator. 3,781,665, 12-25-73, Cl. 324-52.000.
Gale, Richard M.; and Lively, David H., to Lilly, Eli, and Company. Dipeptide antibiotic and method for the production thereof. 3,780,016, 12-18-73, Cl. 260-112.500.
Gale, Ronald; deceased (by Gale, Mae; executrix), to Rowe International, Inc., mesne. Bulk loading can dispenser. 3,749,280, 7-31-73, Cl. 221-67.000.
Gale, Ronald John, to Ford Motor Company. Self-adjusting clutch release mechanism. 3,768,612, 10-30-73, Cl. 192-111.00a.
Gale Systems, Inc.: *See*—
Fitzsimmons, Robert D., 3,732,615.
Fitzsimmons, Robert O., 3,773,242.
Gale, W. D., Inc.: *See*—
Lenhart, Robert L., 3,746,207.
Galeano, Sergio F.: *See*—
Amsden, Carl D.; and Galeano, Sergio F., 3,709,975.
Galen, Joseph J.: *See*—
Ciuffini, Anthony J.; and Galen, Joseph J., 3,709,683.
Ciuffini, Anthony J.; Galen, Joseph J.; and Relyea, Lloyd A., 3,748,089.
Galen, Martin P.: *See*—
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Galen, Ralph W. Protective enclosure for bicycle. 3,734,272, 5-22-73, Cl. 206-1.00r.
Galeone, Vincent A.: *See*—
Amidon, Charles H., Jr.; and Galeone, Vincent A., 3,736,669.
Galeone, Vincent A.; and Amidon, Charles H., Jr., to Gulf & Western Industrial Products Company. Method of making a composite roll. 3,711,913, 1-23-73, Cl. 29-148.40d.
Galetto, Louis V.: *See*—
Arnold, Robert W.; and Galetto, Louis V., 3,760,282.
Galetto, William G.; and Pace, Carol A., to McCormick & Company, Inc. Synthetic onion oil composition. 3,764,709, 10-9-73, Cl. 99-140.00r.
Galey, Jean: *See*—
Foulard, Jean; and Galey, Jean, 3,743,500.
Mola, Michel; Barthelemy, Philippe; Bentz, Gerard; and Galey, Jean, 3,776,295.
Galginattis, Simeon V.: *See*—
Barnett, Allen M.; and Galginattis, Simeon V., 3,715,245.
Galian, John N.; and Karkut, Ernest W., said Karkut assor. to Total Systems Corporation. Calling system utilizing a telephone. 3,777,065, 12-4-73, Cl. 179-6.0ta.
Galiano, Francis R.: *See*—
Harwell, Kenneth E.; and Galiano, Francis R., 3,729,455.
Mantell, Gerald J.; Smith, Wayne E.; Galiano, Francis R.; and Rankin, David, 3,732,333.
Galiano, Francis R.; and Greenlee, Norman A., to Gulf Research & Development Company. Method of recovering copolymers. 3,729,450, 4-24-73, Cl. 260-78.50t.
Galigher Company, The: *See*—
Huntington, Fred R., 3,716,167.
Huntington, Fred R., 3,727,739.
Galimov, Ravil Khusainovich; and Levsky, Alexandr Alexandrovich Modze. Device for automatic cut-off of tool carrier feed in metal-cutting machines. 3,712,159, 1-23-73, Cl. 82-22.000.
Galinke, Joachim: *See*—
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Stimberg, Hans-Josef; Galinke, Joachim; and Schmadel, Edmund, 3,751,370.
Galis, Alex J. Method and apparatus for continuous mining. 3,726,563, 4-10-73, Cl. 299-15.000.
Galiskarov, Rimm Zigangirovich: *See*—
Fridman, Georgy Nikolaevich; Fialkov, Abram Samuilovich; Davidovich, Yakov Gilievich; Ivanova, Irina Dmitrievna; Sysoeva, Ljudmila Petrovna; Gluskin, Abram Ykovlevich. Galiskarov, Rimm Zigangirovich; Liberman, Esfir Lvovna; and Pomortseva, Vera Stepanovna, 3,751,294.
Galitz, Raymond F., to Continental Can Company, Inc. Compound applying machine. 3,760,928, 9-25-73, Cl. 198-19.000.
Gall, James W., to Phillips Petroleum Company. Method of selectively plugging a formation with a polymeric elastomer latex-brine mixture. 3,730,271, 5-1-73, Cl. 166-294.000.
Gall, James W., to Phillips Petroleum Company. Subterranean formation permeability correction. 3,762,476, 10-2-73, Cl. 166-294.000.
Gall, John S., to Celanese Corporation. Reinforced polyaklylene terephthalate molding resin having reduced burning properties in thin sections. 3,751,396, 8-7-73, Cl. 260-40.00r.
Gall, Martin, to Upjohn Company, The. 2-[3-]1-(dimethylamino)alkyl[-1,5-dihydro-5-oxo-1 -substituted-4H-1,2,4-triazok-4-yl]benzophenone and process. 3,748,339, 7-24-73, Cl. 260-308.00c.
Gall, Martin, to Upjohn Company, The. 2-Imidazol-1-yl benzophenones. 3,763,179, 10-2-73, Cl. 260-309.000.
Gallaer, Charles A., to Envirotech Corporation, mesne. Gas flow regulation for electric precipitators. 3,733,785, 5-22-73, Cl. 55-129.000.
Gallaer, Charles A., to Envirotech Corporation, mesne. Fluid inlet structure for cyclone collectors. 3,745,752, 7-17-73, Cl. 55-418.000.
Gallager, Jacob Boon, Jr., to RCA Corporation. Edge connector. 3,710,303, 1-9-73, Cl. 339-61.00m.
Gallaghan, John A.; Benson, Ronald W.; and Carlson, Bertil V., to United States of America, Navy, mesne. Laser stimulated ordnance initiation device. 3,724,383, 4-3-73, Cl. 102-70.20a.
Gallagher, Bernard J.: *See*—
Tobbe, William F.; Benway, Ernest A.; Simko, David M.; Gallagher, Bernard J.; and Boylan, John, 3,761,052.
Gallagher, Bernard J.; Shufflebarger, Earl D.; Simko, David M.; and Medvick, Richard J., to Nupro Company. Check valve. 3,754,568, 8-28-73, Cl. 137-516.290.
Gallagher, Cornelius A., to Servo Corporation of America. Railway safety system for detecting overheated brakes. 3,767,146, 10-23-73, Cl. 246-169.00d.
Gallagher, George A.; and Walter, Henry C., to Du Pont de Nemours, E. I., and Company. Composite article containing an alpha-olefin hydrocarbon copolymer. 3,775,158, 11-27-73, Cl. 117-72.000.
Gallagher, James A.: *See*—
Zasadny, Ronald J.; Gallagher, James A.; and Trix, Herbert Phelps, 3,756,845.
Gallagher, James J., to Standard Pressed Steel Co. Method for applying a thermoplastic locking patch on a threaded fastener. 3,720,533, 3-13-73, Cl. 117-21.000.
Gallagher, James P.; and Mooi, John, to Atlantic Richfield Company. Hydrotreating high-nitrogen feedstocks with hydrodenitrogenation and hydrocracking catalyst. 3,726,790, 4-10-73, Cl. 208-111.000.
Gallagher, John F.; and Salo, Martin, to Eastman Kodak Company. Waterproof, abrasion resistant coatings having low gloss from aqueous systems. 3,733,293, 5-15-73, Cl. 260-29.6rw.
Gallagher, John P.: *See*—
Bulbenko, George F.; Sorg, Earl H.; and Gallagher, John P., 3,748,313.
Gallagher, John P.; Tonkin, Kenneth J.; and Borneman, Lawrence A., to Dick, A. B., Company. System for cleaning rollers of duplicating machine, such as ink rollers. 3,766,853, 10-23-73, Cl. 101-113.000.



Gallagher, Peter Christopher John, to N L Industries, Inc. Method of making a ball joint linkage. 3,763,535, 10-9-73, Cl. 29-149.50b.
Gallagher, R. Dennis, to Maitlen & Benson, Inc. Holder for marking material. 3,756,727, 9-4-73, Cl. 401-84.000.
Gallagher, Ruth E.: *See*—
Hwa, Jesse C. H.; and Gallagher, Ruth E., 3,764,638.
Gallagher, Terence J.: *See*—
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Gallagher, William J.: *See*—
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Gallagher, William, Jr., to Harris-Intertype Corporation. Corrugated paperboard slitter. 3,763,748, 10-9-73, Cl. 93-36.00m.
Gallagner, Hayden E., to Hughes Aircraft Company. Method and apparatus for offswitching crossed field switch. 3,749,978, 7-31-73, Cl. 315-236.000.
Gallaher Limited: *See*—
Arendt, John Harold; Sachetto, Jean Pierre; and Carriere, Jean-Paul, 3,720,660.
Gallant, Mel M.: *See*—
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Gallant, Reginald R., to Linbro Chemical Co., Inc. Diluter for laboratory titration. 3,757,584, 9-11-73, Cl. 73-425.40p.
Gallant, Reginald R., to Linbro Chemical Co., Inc. Serial dilution apparatus. 3,776,700, 12-4-73, Cl. 23-259.000.
Gallant, Stuart L.; and Waring, John W., to Philco-Ford Corporation. Voltage supply for voltage variable capacitor diode tuning. 3,727,139, 4-10-73, Cl. 325-453.000.
Gallant, William E.: *See*—
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Gallaoresi, Alfred P.; and Kurgan, Walter V., to Oberdorfer Foundries, Inc. Macerating pump with means for preventing blockages. 3,738,581, 6-12-73, Cl. 241-46.020.
Gallard, Jean Hilaire: *See*—
Betremieux, Pierre Arthur; Feissel, Henri Gerard; Gallard, Jean Hilaire; and Lagadec, Isidorc, 3,713,885.
Gallaro, Anthony V., to GTE Sylvania Incorporated. Dual persistence screen for a cathode ray tube. 3,721,849, 3-20-73, Cl. 313-92.000.
Gallatin, Victor: *See*—
Le Brasse, Gordon J.; and Gallatin, Victor, 3,732,083.
Gallay, Jean-Jacques: *See*—
Helary, Jean-Louis; De La Graviere, Marcel; and Gallay, Jean-Jacques, 3,709,678.
Spaun, Ruediger; Rochat, Alain Claude; Gallay, Jean-Jacques; and Brenneisen, Paul, 3,781,290.
Traber, Walter; Margot, Alfred; and Gallay, Jean-Jacques, 3,719,702.
Gallay, Jean-Jacques; deceased (by Gallay, Marielle; administratrix); Helary, Jean-Louis; and Jurien de la Graviere, Marcel, said Helary and said Jurien de la Graviere assor. to Commissariat a l'Energie Atomique. Preparation of metal ingots from the corresonding metal oxides. 3,721,549, 3-20-73, Cl. 75-84.100.
Gallay, Marielle: *See*—
Gallay, Jean-Jacques; Helary, Jean-Louis; and Jurien de la Graviere, Marcel, 3,721,549.
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Gallay, Maurice. Traction and steering device. 3,777,898, 12-11-73, Cl. 212-38.000.
Galle, Edward Louis; Mikkelson, Marvin Olaf; and Kolosky, Joseph Francis, to Pillsbury Company, The. Process for producing a simulated nutmeat. 3,719,497, 3-6-73, Cl. 99-14.000.
Galle, Edward M., to Hughes Tool Company. Well bore acoustic apparatus. 3,730,269, 5-1-73, Cl. 166-177.000.
Galle, Edward M., to Hughes Tool Company. Piston type shock absorbing and static load supporting drill string apparatus. 3,746,329, 7-17-73, Cl. 267-125.000.
Gallegra, Pasquale: *See*—
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Gallen, Richard P.: *See*—
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Galley, Gerald Jack, to Sheffield Steel Products Limited. Wheelbraces. 3,742,790, 7-3-73, Cl. 81-177.00e.
Gallez, Pierre, to Glaverbel S.A. Apparatus for bending sheet material. 3,764,288, 10-9-73, Cl. 65-273.000.
Galli, Charles, to United Aircraft Corporation. Helicopter blade with universally replaceable pockets. 3,749,517, 7-31-73, Cl. 416-226.000.
Galli, Guido: *See*—
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Galli, Guido, to International Business Machines Corporation. Preparation of photoconductive films. 3,761,308, 9-25-73, Cl. 117-201.000.
Galli, Paolo: *See*—
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Galli, Remo: *See*—
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Galli, Richard J., to Du Pont de Nemours, E. I., and Company. Semiconductor chip packaging apparatus and method. 3,724,068, 4-3-73, Cl. 29-626.000.
Galli, Richard J.; and Keleman, Denis G. Semiconductor chip carriers and strips thereof. 3,781,596, 12-25-73, Cl. 317-101.00f.
Galli, Richard Joseph: *See*—
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Galliano, Bruno J., Jr. Atomizing burner. 3,758,261, 9-11-73, Cl. 431-116.000.
Gallien, Jacqueline: *See*—
Kalopissis, Gregoire; Gascon, Jean; Gallien, Jacqueline; Bugaut, Andree; and Gaston-Breton, Hubert, 3,712,158.
Gallin, Paul G. Chin straps for caps and the like. 3,729,010, 4-24-73, Cl. 132-58.000.
Gallina, Harold. Drive mechanism. 3,719,129, 3-6-73, Cl. 95-53.00r.
Gallina, Joseph P. Shock absorbing bumper for motor vehicles. 3,712,657, 1-23-73, Cl. 293-86.000.
Gallo, Charles F., to Xerox Corporation. Light producing system. 3,781,585, 12-25-73, Cl. 313-184.000.
Gallo, Duane Gordon, to Mead Johnson & Company. Sebum inhibitors. 3,755,604, 8-28-73, Cl. 424-317.000.
Gallo, Giangualberto: *See*—
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Gallo, Joseph Sebato. Carrier with retaining rollers. 3,762,097, 10-2-73, Cl. 47-34.110.
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Galloway Company: *See*—
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Galloway, David E.: *See*—
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Galloway, Edwin J., to Galloway Company. Aseptic sample fitting. 3,779,082, 12-18-73, Cl. 73-421.00b.
Galloway, Frederick M.; and Webster, Earle F., to Porter, H. K., Company, Inc. Manufacture of multi-layer articles by in situ polymerization of adhesive components. 3,756,890, 9-4-73, Cl. 156-286.000.
Galloway, Gene C.: *See*—
Tomlinson, George A., Jr.; Long, Tommie J.; and Galloway, Gene C., 3,729,230.
Galloway, James H., to Oxy Metal Finishing Corporation, mesne. Isolation and transforming circuit. 3,714,540, 1-30-73, Cl. 321-2.000.
Galloway, James V. Method of forming a table from a single blank of heat-bendable sheet material. 3,751,317, 8-7-73, Cl. 156-196.000.
Galloway, John W.; and Griffee, Leslie V., to Collins Radio Company. Collinear dipole antenna. 3,727,231, 4-10-73, Cl. 343-813.000.
Galloway, Peter, to Angus, George, & Company, Limited. Shaft and line seals. 3,770,284, 11-6-73, Cl. 277-92.000.
Galloway, Robert K., to Scranton, R. A., Industries, Inc. Apparatus for cutting and forming leads of electrical components. 3,738,398, 6-12-73, Cl. 140-1.000.
Gallucci, Francis, to United States Steel Corporation. Method and apparatus for straightening continuous casting. 3,722,576, 3-27-73, Cl. 164-282.000.
Gallucci, Francis, to United States Steel Corporation. Roller cage for confining continuous casting as it emerges from mold. 3,727,673, 4-17-73, Cl. 164-282.000.
Gallucci, Francis, to United States Steel Corporation. Removable bending roll housing. 3,741,282, 6-26-73, Cl. 164-282.000.
Gallucci, Francis; and Slamar, Frank, to United States Steel Corporation. Method for controlling forces on a strand as it solidifies. 3,752,210, 8-14-73, Cl. 164-82.000.
Gallucci, Francis; and Wagner, George J., Jr., to United States Steel Corporation. Bending-roll unit for continuous-casting machine. 3,753,461, 8-21-73, Cl. 164-282.000.
Gallucci, Francis, to United States Steel Corporation. Extractor for withdrawing or inserting rollclusters. 3,763,923, 10-9-73, Cl. 164-282.000.
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Holm, Leroy W.; and Gallus, Julius P., 3,756,319.
Pye, David S.; Fischer, Paul W.; and Gallus, Julius P., 3,711,405.
Galluzzo, Vincent. Fume barrier. 3,727,540, 4-17-73, Cl. 98-115.01h.

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Hivert, Andre R.; and Galmiche, Philippe M., 3,711,279.
Galmiche, Philippe M.; Pelissier, Jean H.; and Spinat, Roland R., to Office National d'Etudes et de Recherches Aerospaticles Chatillon-Sous-Bagneux and Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Method for the manufacture of a compsite refractory metallic element with porous coating. 3,713,206, 1-30-73, Cl. 29-494.000.
Galowin, Lawrence S.; De Santis, Michael J.; and Miller, Cary, to Singer-General Precision, Inc. Flueric accelerometer. 3,709,041, 1-9-73, Cl. 73-515.000.
Galsken Co., Ltd.: *See—*
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Galuten, Jerry H.: *See—*
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Galvagni, Alighiero; Raccanelli, Mirco; and Eccettuato, Vittorio, to Olivetti, Ing. C., & C., S.p.A. Self-adapting synchronization system for reading information from a moving support. 3,711,843, 1-16-73, Cl. 340-174.10h.
Galvani, Giovanni. Method for repairing cracks in ingot molds, plates and similar cast iron elements for use in iron or steel casting. 3,758,939, 9-18-73, Cl. 29-402.000.
Galvin, Aaron A.; and Shapiro, L. Dennis, to Aerospace Research, Inc. Intrusion detection system employing quadrature sampling. 3,760,400, 9-18-73, Cl. 340-258.00a.
Galvin, Lee Robert; and Kline, Arthur J., Jr., to Motorola, Inc. Carrier for beam lead integrated circuits. 3,778,686, 12-11-73, Cl. 317-234.00r.
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Gambardella, Mario A., to Olin Corporation. Compression of layers of polyurethane foam containing at least alternate layers of partially cured foam. 3,709,966, 1-9-73, Cl. 264-46.000.
Gambell, James W.: *See—*
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Gambill, Ulysses T.; and Brock, Gregory C., Jr., to Owens-Corning Fiberglas Corporation. Molded product and apparatus for producing same. 3,764,243, 10-9-73, Cl. 425-3.000.
Gambini, Arnaldo, to Snam Progetti S.p.A. Apparatus for determining the compression strength of spheroidal material made of uranium, thorium and plutonium mixed oxides and the like. 3,771,357, 11-13-73, Cl. 73-94.000.
Gamble, Bobby G.: *See—*
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Gamble, Edward R., to American Air Filter Company, Inc. Palletized cargo trailer. 3,720,329, 3-13-73, Cl. 214-84.000.
Gamble Elton S., to Olin Corporation. Protective coating for materials exposed to molten aluminum and its alloys. 3,754,949, 8-28-73, Cl. 106-56.000.
Gamble, Elton S.; and Peterson, Warren S., to Olin Corporation. Non-ferrous refractory composition having improved resistance to molten non-ferrous metals and slags. 3,775,139, 11-27-73, Cl. 106-57.000.
Gamble, Fred R.; Klemm, Richard A.; and Ullman, Edwin F., to Synvar Associates. Chalcogenides intercalated with ammonia, hydrazine, and organic nitrogen compounds. 3,766,064, 10-16-73, Cl. 252-25.000.
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Gamble, James G., to Monsanto Company. Tow cutter. 3,768,356, 10-30-73, Cl. 83-411.00r.
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Gamble, John G., to Veeder Industries, Inc. Pulse generator. 3,742,243, 6-26-73, Cl. 307-106.000.
Gamble, Peter Charles David; and Marsh, John, to Ashmore, Benson Pease & Company Limited. Continuous casting moulds. 3,752,218, 8-14-73, Cl. 164-281.000.
Gamblin, Rodger L.; and Southard, Carl D., to International Business Machines Corporation. Holographic read/write storage system. 3,737,878, 6-5-73, Cl. 340-173.0lm.
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Gambs, Gerard C.; Nix, William H.; Barnhart, James H.; and Cathcart, John G., to Ford, Bacon & Davis Incorporated. Production of gaseous and liquid fuel from crude oil. 3,778,239, 12-11-73, Cl. 48-214.000.
Gamco Industries, Inc., mesne: *See—*
Gundlach, Richard P., 3,733,118.
Gamertsfelder, George R., to Singer Company, The, mesne. Correlator. 3,747,094, 7-17-73, Cl. 343-5.0mm.
Gamertsfelder, George R.; Goldfischer, Lester I.; McKendry, John K.; and Vesper, Richard M., to Singer Company, The, mesne. Cross-correlator with automatic rotational alignment. 3,747,103, 7-17-73, Cl. 343-100.0cl.
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Brock, Larry D.; and Games, John E., 3,778,601.
Games, John E., to United Aircraft Corporation. Variable center frequency filter. 3,731,526, 5-8-73, Cl. 73-71.400.
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Games, John E., to United Aircraft Corporation. True distance to way point and offset computer. 3,777,123, 12-4-73, Cl. 235-150.270.
Games, John E., to United Aircraft Corporation. Resolution of a triangle from hypotenuse and one side. 3,780,280, 12-18-73, Cl. 235-190.000.
Games, John F.; and Wyrostek, Albert J., to United Aircraft Corporation. Rotational statistical vibration analysts employing sidebands and/or weighting. 3,758,758, 9-11-73, Cl. 235-151.300.
Gamewell, Joseph M.: *See—*
Stockford, William F.; and Gamewell, Joseph M., 3,721,107.
Gamewell Mechanical Inc.: *See—*
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Gammill, Adrian M.; Runion, Thomas C.; and Housholder, William R., to Nuclear Fuel Services Inc. Ore separation process. 3,740,199, 6-19-73, Cl. 423-10.000.
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Gammill, Lawrence A., to Hewlett-Packard Company. Phase-linking rotating mechansim for plural switch assembly. 3,746,804, 7-17-73, Cl. 200-14,000.
Gammon, Fred. Golf accessory carrier. 3,753,519, 8-21-73, Cl. 224-5.00c.
Gammon, Geoffrey James: *See—*
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Gamon, Michael Hugh: *See—*
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Gamon-Calmet Industries, Inc.: *See—*
Evans, Ross Hugh; Seltzer, Daniel Arron; and Young, Robert Leonard, 3,764,918.
Seltzer, Daniel A., 3,748,539.
Young, Robert Leonard; and Seltzer, Daniel Arron, 3,729,727.
Gamon-Calmet Industries, Inc., mesne: *See—*
Munier, Ronald A.; and Ling, Charles Che, 3,777,565.
Gamon-Camet Industries, Inc.: *See—*
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Gampe, Egon, to Rheinmetall G.m.b.H. Apparatus for the production of hollow bodies of thermoplastic materials in a blowing process. 3,743,466, 7-3-73, Cl. 425-326.000.
Gampp, Robert J. Wildlife station holder. 3,777,711, 12-11-73, Cl. 119-23.000.
Gams, Erwin; Namenyi, Istvan; Wahlig, Helmut; Erdmann, Dietrich; and Koch, Wolfgang, to Merck Patent Gesellschaft mit beschrankter Haftung. Alkylaminoalkylsulfinic acid salts. 3,770,817, 11-6-73, Cl. 260-513.700.



Gamundi, Reynold F., to Eaton Corporation. Materials handling vehicle. 3,741,418, 6-26-73, Cl. 214-512.000.
Gan, Ramat: *See—*
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Gancia, Paul: *See—*
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Gancy, Alan Brian: *See—*
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Gandolfi, Giovanni: *See—*
Piacente, Luigi; and Gandolfi, Giovanni, 3,749,847.
Gandolfo, David Anthony; Grasse, Charles Louis; and O'Clock, George Daniel, Jr., to RCA Corporation. Switchable acoustic surface wave device. 3,745,564, 7-10-73, Cl. 340-365.00a.
Gandolfo, Peter F.; and Nilsen, Lornts B., to Hyster Company. Materials handling truck. 3,756,350, 9-4-73, Cl. 187-9.000.
Gandrud, Ebenhard S. Chemical applicator assembly for a row crop planter. 3,714,913, 2-6-73, Cl. 111-73.000.
Gandrud, Ebenhard S. Granular applicator for lawns. 3,773,229, 11-20-73, Cl. 222-177.000.
Gandrud, Ebenhard S. Hopper construction for dispensers of granular material. 3,776,430, 12-4-73, Cl. 222-177.000.
Gandrud, William Bentley, to Bell Telephone Laboratories, Incorporated. Twisted pair flat conductor cable with means to equalize impedance and prepagation velocity. 3,761,842, 9-25-73, Cl. 333-1.000.
Gandy, Gerald C.; and Reafler, Gerald G., to Eastman Kodak Company. Stabilization of cellulose ester dopes. 3,772,050, 11-13-73, Cl. 106-178.000.
Gane, Alan Ernest, to International Standard Electric Corporation. Speed detector. 3,742,299, 6-26-73, Cl. 317-5.000.
Ganellin, Charon Robin: *See—*
Black, James Whyte; Durant, Graham John; Emmett, John Colin; and Ganellin, Charon Robin, 3,734,924.
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Gang, Robert E.: *See—*
Kabler, Donald J.; Gang, Robert E.; and Reeser, William O., Jr., 3,735,306.
Gange, Robert Allen, to RCA Corporation. Light modulator. 3,772,612, 11-13-73, Cl. 332-7.510.
Ganger, Bertold; and Schuler, Roland, to Aktiengesellschaft Brown, Boveri & Cie. Method of and apparatus for voltage testing of high-voltage equipment and electrical machines. 3,775,686, 11-27-73, Cl. 324-54.000.
Gangl, Victor J.; and Skoog, Laurice G. Combination tool for fishermen. 3,747,253, 7-24-73, Cl. 43-4.000.
Ganguly, Achintya K.; Zemon, Stanley; and Zucker, Joseph, to GTE Laboratories Incorporated. Surface wave acoustic parametric amplifier. 3,743,953, 7-3-73, Cl. 330-4.600.
Gangwisch, William J.: *See—*
Trimmer, Robert Henry; Gross, William Franklin, Jr.; and Gangwisch, William J., 3,755,201.
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Ganiaris, Neophytos. Multi-stage concentration of coffee. 3,762,177, 10-2-73, Cl. 62-123.000.
Ganiaris, Neophytos, to Struthers Patent Corporation, mesne. Alternating filters for ice-wash water in coffee concentration. 3,775,990, 12-4-73, Cl. 62-58.000.
Ganier, Wolfgang; and Assmos, Friedrich, to Gebruder Junghans G.m.b.H., Firms. Circuit arrangement for the drive of a clockwork mechanism regulator-oscillator of a timepiece. 3,775,962, 12-4-73, Cl. 58-23.00a.
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Gann, Bernard M.: *See—*
White, Robert F.; Tavares, John F.; and Gann, Bernard M., 3,731,320.
Gannaway, Paul Henry: *See—*
Haslam, Fred; Horsewell, Henry George; and Gannaway, Paul Henry, 3,779,787.
Gannett, James R.; McKee, James W.; Ronberg, Henry E.; and Warner, John D., to United States of America, Federal Aviation Administration. Aircraft control handles. 3,726,497, 4-10-73, Cl. 244-83.00r.
Gannon, Charles R.; and Beddoe, George H., to Ashland Oil, Inc. Process for preparing rubberized bituminous paving compositions. 3,778,397, 12-11-73, Cl. 260-28.5as.
Gannon, John Allister, to Ciba-Geigy Corporation. Polyester derived from dimethylol propionic acid in admixture with polyepoxides. 3,749,758, 7-31-73, Cl. 260-835.000.
Gannon, Joseph A.; and Deck, Richard L., to Shell Oil Company. Clay-thickened grease containing synergistic additive combination. 3,763,042, 10-2-73, Cl. 252-21.000.
Gannon, Mathew R. Adapters including electro-magnetic attaching means for use with extruders. 3,779,063, 12-18-73, Cl. 72-253.000.
Gannon, Patrick M.: *See—*
Ahearn, Thomas P.; Capowski, Robert S.; Christensen, Neal T.; Gannon, Patrick M.; Lee, Arlin E.; and Liptay, John S., 3,781,808.
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Hubbard, Arthur Lowell; Copley, Russell Dean; and Gannon, Thomas Heral, 3,765,526.
Gans, Francois F. Segmented glass laser. 3,711,790, 1-16-73, Cl. 331-94.500.
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Gans, Michael James; and Reudink, Douglas Otto John, to Bell Telephone Laboratories, Incorporated. Diversity receiver suitable for large scale integration. 3,743,941, 7-3-73, Cl. 325-305.000.
Ganser, Alfred: *See—*
Ganser, Herman; and Ganser, Alfred, 3,781,024.
Ganser, Hans Gunther: *See—*
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Ganser, Herman; and Ganser, Alfred. Portable drilling apparatus including a mechanical, recirculating cooling system. 3,781,024, 12-25-73, Cl. 279-20.000.
Ganser, Josef: *See—*
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Ganser, Robert O.; and Dolgen, Igor E., to Perkin-Elmer Corporation, The. Rotary motion transmitting devices. 3,727,468, 4-17-73, Cl. 74-63.000.
Gansheimer, Josef; and Schanzer, Oswald, to Dow Corning Corporation. Extreme pressure lubrication through additives. 3,741,897, 6-26-73, Cl. 252-25.000.
Ganshorn, Peter, to Jaeger, Erich. Device for gas analysis with a rotatable cylindrically shaped chopper. 3,709,600, 1-9-73, Cl. 356-51.000.
Ganske, Kingston E., to Arvin Industries, Inc. Take-up hub and tape combination for tape treatment. 3,741,497, 6-26-73, Cl. 242-192.000.
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Gansloser, Emil. Apparatus and method for removing foreign matter from a pool of liquid. 3,712,470, 1-23-73, Cl. 210-61.000.
Ganss, Alfred G.: *See—*
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Ganss, Shirley: *See—*
Freeberg, Charles A.; and Ganss, Alfred G., 3,746,325.
Ganssen, Alexander: *See—*
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Gansweg, Eugene R., to Neotec Corporation. Collapsible reflector. 3,717,879, 2-20-73, Cl. 343-915.000.
Gansweg, Eugene R.; and Webster, Donald R., to Neotec Corporation. Optical internal quality analyzer. 3,765,775, 10-16-73, Cl. 356-188.000.
Gant, Lawrence A. Suspension device. 3,718,200, 2-27-73, Cl. 180-74.000.
Gant, Preston L.; Motes, Bill G.; and Brundage, Robert S., to Continental Oil Company. Method and apparatus for monitoring simultaneously two energy levels of radioactivity in a gas. 3,746,861, 7-17-73, Cl. 250-380.000.
Gant, Preston L.; Motes, Bill G.; and Aulor, Jerry T., to Continental Oil Company. Apparatus for the collection and measurement of the amount of mercury vapors present in a volume of air or other gases. 3,778,162, 12-11-73, Cl. 356-51.000.
Gantt, Robert Dwight; and Rhee, Dong Woo, to GTE Sylvania Incorporated. Horizontal output circuitry for cathode ray tube system. 3,764,846, 10-9-73, Cl. 315-27.0td.
Gantt, Wayne Carlton: *See—*
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Ganz & Co.: *See—*
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Ganz, Alexander J., to Hercules Incorporated. Method of making a thermoplastic food product. 3,769,029, 10-30-73, Cl. 99-17.000.
Ganz Brothers, Inc., mesne: *See—*
Brown, William M., 3,747,749.
Ganz, Robert H. Method and apparatus for automatically corner-breaking the side flange edges of paperboard blanks. 3,745,892, 7-17-73, Cl. 93-49.00m.
Ganz, Robert H. Shrink pack and method and apparatus for making the same. 3,756,395, 9-4-73, Cl. 206-65.00s.
Ganz, Robert H. Shrink pack construction and method. 3,756,397, 9-4-73, Cl. 206-65.00s.
Ganz, Robert H., to Continental Can Company, Inc. Package forming machine. 3,766,704, 10-23-73, Cl. 53-48.000.
Ganz, Robert H., to Federal Paper Board Company, Inc. Bottle carrier with gusseted ends. 3,767,042, 10-23-73, Cl. 206-65.00e.

Ganz, Walter C., to Chromatic Corporation, The. Perpetual calendar and writing instrument holder. 3,738,038, 6-12-73, Cl. 40-111.000.

Ganzert, Albert E.: *See—*
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Ganzler, Wolfgang; Schroder, Gunter; and Huch, Peter, to Rohm & Haas G.m.b.H. Foamed and foamable copolymers. 3,708,444, 1-2-73, Cl. 260-2.50n.

Gaon, David E., to GTE Automatic Electric Laboratories, Incorporated. Contact status sensing arrangement. 3,775,573, 11-27-73, Cl. 179-175.230.

Gappa, Gunther; Knoblauch, Karl; Maier, Franz; Schwarte, Jurgen; and Steiner, Peter, to Bergwerksverband GmbH. Process for removing sulfur oxides from sulfur oxide containing exhaust gas. 3,717,976, 2-27-73, Cl. 55-73.000.

Gaquer, George E.; Gaquer, John G.; and Nagourney, Alphonse. External heart massage apparatus. 3,739,771, 6-19-73, Cl. 128-51.000.

Gaquer, John G.: *See—*
Gaquer, George E.; Gaquer, John G.; and Nagourney, Alphonse, 3,739,771.

Garabedian, George: *See—*
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Garabedian, Joseph; and Garabedian, Mike. Unstacking machine for trays and the like. 3,722,713, 3-27-73, Cl. 214-8.50a.

Garabedian, Michele: *See—*
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Garabedian, Mike: *See—*
Garabedian, Joseph; and Garabedian, Mike, 3,722,713.

Garabedian, Taniel A., to Monsanto Company. Stabilization of pentachlorophenol. 3,770,835, 11-6-73, Cl. 260-623.00r.

Garabello, Romano, to Rom-Air International, Inc. Pressure operated retractable landing gear. 3,739,519, 6-19-73, Cl. 46-78.000.

Garamy, Frank, to American Air Filter Company, Inc. Pressure relief control valve. 3,747,635, 7-24-73, Cl. 137-539.500.

Garan, Incorporated: *See—*
Mazzenga, Anthony, 3,775,775.

Garard, Richard S.; and Mertens, William J., to Avco Corporation. Corrosion resistant rocket nozzle. 3,737,102, 6-5-73, Cl. 239-265.150.

Garate, Julian C.: *See—*
Tracy, Richard A.; and Garate, Julian C., 3,721,457.

Garavelli, Giancarlo, to Heron Establishment. Ice cream making machine. 3,724,234, 4-3-73, Cl. 62-308.000.

Garay, Fernando Creixell, to Hijos de Juan de Garay, S.A. Umbrella frame. 3,779,260, 12-18-73, Cl. 135-20.00r.

Garay, Lajos; Urban, Gabor; Romhanyi, Andras; and Sisa, Laszlo, to Hutogepgyar and Epitestudomanyi Intezet. Sandwich-panel building construction. 3,720,028, 3-13-73, Cl. 52-284.000.

Garbalizer Corporation of America: *See—*
Brewer, John C., 3,708,127.
Brewer, John C., 3,725,538.
Brewer, John C., 3,762,655.

Garbarini, Morries P.; and Spera, Edmond A. Telephone transmitter cut-off. 3,748,410, 7-24-73, Cl. 179-167.000.

Garbarini, Victor Charles, to Bell Telephone Laboratories, Incorporated. Photoresist method and products produced thereby. 3,716,390, 2-13-73, Cl. 117-34.000.

Garbarino, William L.: *See—*
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Garbark, Roman F., to Gottieb, D., & Company. Bobbin assembly for relay. 3,739,311, 6-12-73, Cl. 335-276.000.

Garber, Alan M., to GTE Sylvania Incorporated. Masking method of making semiconductor device. 3,728,167, 4-17-73, Cl. 148-187.000.

Garber, Daniel C., to Sun Shipbuilding & Dry Dock Company. Fabrication of heat exchanger tube bundles. 3,768,132, 10-30-73, Cl. 29-157.03r.

Garber Garment Technology, Inc.: *See—*
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Garber, William Wilson. Operating support for surgeons. 3,754,787, 8-28-73, Cl. 297-390.000.

Garber, William Wilson. Sailing outrigger for small watercraft. 3,777,690, 12-11-73, Cl. 114-39.000.

Garbini, Leo J.: *See—*
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Garbrecht, William L. Cephalosporin process and product. 3,781,282, 12-25-73, Cl. 260-243.00c.

Garbuzovsky, Boleslav Iosifovich: *See—*
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Garby, Louis C. Sequence indicating mechanism. 3,753,417, 8-21-73, Cl. 116-121.000.

Garcea, Giampaolo, to Alfa Romeo S.p.A. Diaphragm device, sensitive to absolute pressures. 3,721,127, 3-20-73, Cl. 73-406.000

Garcea, Giampaolo, to Alfa Romeo S.p.A. Variator for the setting of the camshafts of an internal combustion engine. 3,721,220, 3-20-73, Cl. 123-90.150.

Garcea, Giampaolo, to Alfa Romeo S.p.A. Internal combustion engine, more particularly for motor vehicles, and means for limiting the emmission of unburned cases and of volatile fuel. 3,731,665, 5-8-73, Cl. 123-136.000.

Garcea, Giampaolo, to Alfa Romeo S.p.A. Device for the timed injection of air into the exhaust ducts of an internal combustion engine. 3,742,712, 7-3-73, Cl. 60-294.000.

Garcea, Giampaolo, to Alfa Romeo S.p.A. Exhaust chamber for a motor vehicle provided with an internal combustion engine. 3,751,917, 8-14-73, Cl. 60-288.000.

Garceau, David S.; and Knoke, Silas J., to Lear Siegler, Inc. Height adjusting and locking assembly for cabinet mounted ironing table. 3,742,868, 7-3-73, Cl. 108-39.000.

Garcher, Harlan J. Guard shield for saws. 3,727,655, 4-17-73, Cl. 145-35.00r.

Garcia, Armando J.; Gunther, Gregory M.; and Villanueva, Juanito O., to Mattel, Inc. Figure toy having a limb including a tensioned, detented connector. 3,716,942, 2-20-73, Cl. 46-163.000.

Garcia Corporation, The: *See—*
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Garcia, Donald J., to Schlumberger Technology Corporation. Electronic noise filter with hose reflection suppression. 3,716,830, 2-13-73, Cl. 340-18.0ld.

Garcia, Donald J., to Schlumberger Technology Corporation. Electronic noise filter with means for compensating for hose reflection. 3,747,059, 7-17-73, Cl. 340-18.0ld.

Garcia, Gilbert C. Live shrimp securing fishing lure. 3,729,851, 5-1-73, Cl. 43-44.800.

Garcia, Gilberto Guerra: *See—*
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Garcia, Hernando J., to Integrated Systems Technology, Inc., mesne. Direct-current power supply system. 3,740,569, 6-19-73, Cl. 307-11.000.

Garcia, Hernando Javier; Peek, Benjamin Roger; and Meza, Jose, to Integrated Systems Technology, Inc., mesne. Radio frequency power amplifier. 3,717,820, 2-20-73, Cl. 330-21.000.

Garcia, Hernando Javier; and Peek, Benjamin Roger, to Integrated Systems Technology, Inc., mesne. Digital-to-tone converter utilizing a relaxation oscillator. 3,763,322, 10-2-73, Cl. 179-41.00a.

Garcia, Hernando Javier; and Peek, Benjamin Roger, to Integrated Systems Technology, Inc., mesne. Tone detector system. 3,763,324, 10-2-73, Cl. 179-84.0vf.

Garcia, Hernando Javier; and Peek, Benjamin Roger, to Integrated Systems Technology, Inc. Temperature compensated signal generation circuit employing a single temperature sensing element. 3,763,440, 10-2-73, Cl. 331-66.000.

Garcia, Javier Elizondo. Device for packing bottles or similar containers. 3,773,206, 11-20-73, Cl. 220-21.000.

Garcia, Jean-Claude, to Societe Nationale Industrielle Aerospatiale. Helicopter rotor pitch control system. 3,734,644, 5-22-73, Cl. 416-114.000.

Garcia, Joe N., to Yoakum, Marshall. Jump suit. 3,742,518, 7-3-73, Cl. 2-79.000.

Garcia, Joseph M.: *See—*
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Garcia, Juan A., to Esso Production Research Company. System and method for cleaning oily solid material. 3,723,309, 3-27-73, Cl. 210-44.000.

Garcia, Paulina H.: *See—*
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Garcia, Ramon: *See—*
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Garcia, Thomas. Shears and scissors grinder. 3,755,971, 9-4-73, Cl. 51-92.0bs.

Garcy Corporation: *See—*
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Garczynski, Jozef: *See—*
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Gard, Andrew J. Pitch stabilization in papermaking. 3,748,220, 7-24-73, Cl. 162-72.000.

Gard, Leslie H.: *See—*
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Gardberg-Medeiros Co.; d/b/a Magnetics Research Co.: *See—*
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Garde, Douglas, to Solartron Electronic Group Limited, The. Addressable memory FFT processor with exponential term generation. 3,767,905, 10-23-73, Cl. 235-156.000.

Gardella, Adriano M. Can spinning frame. 3,722,199, 3-27-73, Cl. 57-77.000.

Gardella, Anthony; and Kolton, David, to Addressograph-Multigraph Corporation. Film magazine dispensing unit and control system. 3,768,392, 10-30-73, Cl. 95-89.00r.





Gardella, John M.; Ciavattoni, Anthony; and Ujvary, Joseph I., to Pennwalt Corporation. Dental unit. 3,778,903, 12-18-73, Cl. 32-22.000.

Garden City Envelope Company: *See—*
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Palkovic, Victor; and Semple, Harry F., 3,741,535.

Gardeners of Gloucester Limited: *See—*
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Gardi, Rinaldo: *See—*
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Ercoli, Alberto; Gardi, Rinaldo; and Vitali, Romano, 3,766,223.
Ercoli, Alberto; and Gardi, Rinaldo, 3,780,177.

Gardi, Rinaldo; Vitali, Romano; and Falconi, Giovanni, to Warner-Lambert Company. 17-Esters of 6 alpha, 9 alpha-difluoro-21 desoxyprednisolone. 3,763,196, 10-2-73, Cl. 260-397.450.

Gardi, Rinaldo; Brianza, Carate; and Castelli, Pier Paolo, to Warner-Lambert Company. 3-Enolethers of Δ'-3-keto-5α-steroids and process for their preparation. 3,780,072, 12-18-73, Cl. 260-397.450.

Gardina, Jerome J. Crustacean trap. 3,772,818, 11-20-73, Cl. 43-100.000.

Gardiner, Charles W., to Itek Corporation. Optical image transfer apparatus. 3,756,696, 9-4-73, Cl. 350-169.000.

Gardiner, Errol Murray: *See—*
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Gardiner, Frances R.: *See—*
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Murray, Jerome L.; and Gardiner, Frances R., 3,756,236.

Gardiner, Robert Archie, to Du Pont de Nemours, E. I., and Company. Alkylated methylenedianiline tars. 3,779,923, 12-18-73, Cl. 252-50.000.

Gardiner, Terence Edward Gouvenot: *See—*
Petrie, James Alexander; Gardiner, Terence Edward Gouvenot; and Clampitt, John Aaron, 3,709,637.

Gardiner, Terence Edward Gouvenot, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Bladed rotors. 3,761,200, 9525-73, Cl. 416-220.000.

Gardioni, Paul Joseph. Paste gun. 3,741,438, 6-26-73, Cl. 222-96.000.

Gardner, Charles R.; and Johnson, Jay, to Republic Corporation. Resin radius roller. 3,717,899, 2-27-73, Cl. 15-230.110.

Gardner, Charles R.; and Goelz, David W., to Republic Corporation; d/b/a Glas-Craft of California; a division of Republic Corporation. Roving counter and brake. 3,777,856, 12-11-73, Cl. 188-65.100.

Gardner, Conrad O. Flight control apparatus for maintaining maximum ground speed while within the jet stream. 3,719,337, 3-6-73, Cl. 244-77.00d.

Gardner, Delbert J.: *See—*
Grabb, Frederick G.; Cripe, Maxwell L.; and Gardner, Delbert J., 3,768,366.

Gardner, Delbert J.; Rossigno, Louis P.; and McCormick, Leo H., Jr., to Bendix Corporation, The. Spring brake system with a constant force single stroke pumping means. 3,747,337, 7-24-73, Cl. 60-534.000.

Gardner, Delbert J., to Bendix Corporation, The. Servomotor vacuum seal. 3,768,379, 10-30-73, Cl. 92-99.000.

Gardner, Delbert J., to Bendix Corporation, The. Pressure differential assist for a servomotor. 3,780,620, 12-25-73, Cl. 91-6.000.

Gardner, Derek: *See—*
Rolt, Anthony P. R.; and Gardner, Derek, 3,760,922.

Gardner, Donald M.: *See—*
McKenna, Lawrence W., Jr.; and Gardner, Donald M., 3,763,117.

Gardner, Edward Boyd, to Emhart Corporation. Sequence detector circuit. 3,731,205, 5-1-73, Cl. 328-5.000.

Gardner, Frederick H.: *See—*
Jungbluth, Ernest J.; Kavanaugh, Paul K.; and Gardner, Frederick H., 3,715,503.

Gardner, Gary A.: *See—*
Abler, Roger L.; and Gardner, Gary A., 3,779,929.
Winter, Phillip M.; and Gardner, Gary A., 3,778,241.

Gardner, Gerald Marvin; and Gibbard, David William, to Image Analysing Computers Limited. Feature parameter measurement by line scanning. 3,740,468, 6-19-73, Cl. 178-6.800.

Gardner, Harry R.: *See—*
Becker, Herbert W., Jr.; and Gardner, Harry R., 3,756,494.

Gardner, Hugh R.; Ricketts, Calvin I.; and Joosten, Wesley L., to Peter Electronic Industries, Inc. Electric animal trainer. 3,777,712, 12-11-73, Cl. 119-29.000.

Gardner, Irving. Tensioning device for eyeglass frames. 3,713,731, 1-30-73, Cl. 351-113.000.

Gardner, Irwin J.; and Cozewith, Charles, to Esso Research and Engineering Company. Continuous process for the production of ethylene copolymers. 3,718,632, 2-27-73, Cl. 260-80.780.

Gardner, James Dennis: *See—*
French, Robert Williams; and Gardner, James Dennis, 3,763,913.

Gardner, Jeffrey M., to Container Corporation of America. Container with load carrying feature. 3,780,934, 12-25-73, Cl. 229-52.00b.

Gardner, John A., Jr., to Jet Spray Cooler, Inc. Magnetic drive coupling for beverage dispenser. 3,730,488, 5-1-73, Cl. 259-67.000.

Gardner, John A., Jr.; Brown, Merle S.; and Jacobs, William H., to Jet Spray Cooler, Inc. Atmospheric closed hot water tank system with separate expansion control. 3,737,076, 6-5-73, Cl. 222-146.00h.

Gardner, John F.; and Parry, Michael B., to Xerox Corporation. Cut and deflect web drive apparatus. 3,728,920, 4-24-73, Cl. 83-106.000.

Gardner, Leonard R.: *See—*
Malmer, Michael M., Jr.; Perkins, Cornelius C.; Waldenmayer, Donald W.; Chowning, Patrick J.; and Gardner, Leonard R., 3,725,868.

Gardner, Leslie William; Helbren, Nicholas James; and Stewart, Duncan, to Fulmer Research Institute Limited. Method and equipment for the determination of the degree of abrasiveness of magnetic tape. 3,753,093, 8-14-73, Cl. 324-65.00r.

Gardner, Lloyd E., to Phillips Petroleum Company. Process of preparing fluorethylene. 3,726,931, 4-10-73, Cl. 260-653.400.

Gardner, Louis T., to Le Blond Incorporated. Machine tool retrieval and interchange system. 3,744,124, 7-10-73, Cl. 29-568.000.

Gardner, Mervin Amos, to AMP Incorporated. High voltage electrical connector lead assembly. 3,750,084, 7-31-73, Cl. 339-61.00r.

Gardner, Newell John. Method of preparing intravenous feeding containers. 3,720,240, 3-13-73, Cl. 141-9.000.

Gardner, Orian R. Burner for light combustible materials. 3,744,440, 7-10-73, Cl. 110-18.00r.

Gardner, Phillip J.: *See—*
Silver, H. Graham; Heller, Adam; Gardner, Phillip J.; and Argue, Gary R., 3,771,009.

Gardner, Phillip J.; Silver, H. Graham; Ahmed, Samir A.; and Heller, Adam, to GTE Laboratories Incorporated. Electric discharge lamp. 3,720,855, 3-13-73, Cl. 313-229.000.

Gardner, Richard: *See—*
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Gardner, Selby A.; and Krackenberger, Robert J., to Lilly, Eli, and Company. Structure for folding carton. 3,744,708, 7-10-73, Cl. 229-48.00r.

Gardner, Stewart F. Back and end walls for bathtub alcove. 3,722,151, 3-27-73, Cl. 52-36.000.

Gardner, William H.; and Graham, Donald H., to Hercules Incorporated. Process and apparatus for the complete reclamation of valuable products from solid waste. 3,736,111, 5-29-73, Cl. 48-111.000.

Gardner, Willis W., to Waukesha Bearings Corporation. Tilting-flexible pad journal bearing. 3,711,169, 1-16-72, Cl. 308-73.000.

Gardner, Willis W., to Waukesha Bearings Corporation. Viscosity pump. 3,733,144, 5-15-73, Cl. 415-90.000.

Gardner, Willis W., to Waukesha Bearings Corporation. Flexible pad journal bearing. 3,738,717, 6-12-73, Cl. 308-122.000.

Gardner, Willis W.; and Rafferty, Richard L., to Waukesha Bearings Corporation. Forward sealing assembly for stern tubes. 3,740,058, 6-19-73, Cl. 277-15.000.

Gardner-Denver Company: *See—*
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Anderson, Theodore D.; and Harms, William J., 3,721,478.
Bos, John R.; Sorensen, Clarence A.; and Van Elzelingen, Laurens, 3,729,823.
Ebstrom, Soren E. H., 3,738,780.
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Mayer, James R.; and Tipton, Joe D., 3,721,305.
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Gardom & Lock Limited: *See—*
Gardom, George William, 3,781,520.

Gardom, George William, to Gardom & Lock Limited. Electric instantaneous water heater. 3,781,520, 12-25-73, Cl. 219-309.000.

Gardon, Roger J.: *See—*
Colleuille, Yves; and Gardon, Roger J., 3,712,887.

Gardy, Victor R.: *See—*
Folsom, Lawrence R.; Gardy, Victor R.; and Donovan, Gerard H., 3,766,823.

Garet, Pierre, to Rhone-Poulenc S.A. Preparation of inorganic pigments. 3,714,337, 1-30-73, Cl. 423-508.000.

Garey, Michael Randolph, to Bell Telephone Laboratories, Incorporated. Magnetic domain logic apparatus. 3,731,109, 5-1-73, Cl. 307-88.0lc.

Garfein, Irwin B., to Engineered Data Peripherals Corporation. Flying head support with damping means. 3,725,884, 4-3-73, Cl. 340-174.10e.

Garfield, Lawrence A.: *See—*

Boyd, James; Garfield, Lawrence A.; Hanninen, Clifford; and Maki, Eugen, 3,759,575.

Garfinkel, Harmon M.: *See—*
Bartholomew, Roger F.; and Garfinkel, Harmon M., 3,715,187.

Garfinkel, Harmon M., to Corning Glass Works. Purification of a molten salt bath. 3,711,393, 1-16-73, Cl. 204-180.00r.

Garfinkel, Marvin: *See—*
Brown, Dale M.; Engeler, William E.; Gray, Peter V.; and Garfinkel, Marvin, 3,714,525.
Engeler, William E.; and Garfinkel, Marvin, 3,762,966.
Engeler, William E.; and Garfinkel, Marvin, 3,781,827.

Gargatagli, Guglielmo: *See—*
Silvestri, Antonio; and Gargatagli, Guglielmo, 3,739,971.

Gargini, Eric J., to Communications Patents Limited. Wired broadcasting systems. 3,736,374, 5-29-73, Cl. 178-6.000.

Gargiulo, Gerald T.: *See—*
Sirota, Julius; and Gargiulo, Gerald T., 3,753,944.

Gariboldi, Franco, to Officine Moncenisio, gia Anonima Bauchiero. Knitting of stocking toes on circular knitting machines. 3,776,000, 12-4-73, Cl. 66-9.006.

Garick, Bordie B. Method and apparatus for coating of filaments. 3,749,057, 7-31-73, Cl. 118-420.000.

Garick, Bordie B., to Owens-Corning Fiberglas Corporation. Method of coating metal, glass or synthetic resin filaments with a heat-softenable material. 3,758,329, 9-11-73, Cl. 117-126.0gm.

Gariety, Harold L.; Maloney, Carol J.; and Maloney, George F. Game for learning correlated facts. 3,777,415, 12-11-73, Cl. 35-31.00f.

Garin, Jose Ignacio Martinez, to Cefilac. Hot extrusion of metals. 3,762,203, 10-2-73, Cl. 72-255.000.

Garinger, Jesse D. Adjustable scriber attachment for height gauge. 3,758,955, 9-18-73, Cl. 33-169.00r.

Garishore, Ian S.: *See—*
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Gariti, Victor T. Golf practice equipment. 3,718,330, 2-27-73, Cl. 273-187.00r.

Garkaljuk, Rodimir Ivanovich: *See—*
Paton, Boris Evgenievich; Medovar, Izrailevich Boris; Latash, Jury Vadimovich; Chekotilo, Leonty Vasilievich; Baglai, Vitaly Mikhailovich; Artamonov, Viktor Leonidovich; Garkaljuk, Rodimir Ivanovich; Timchenko, Viktor Anatolievich; Malichekno, Evgeny Fedorvich; Stupak, Leonid Mikhailovich; and Dubinsky, Rudolf Solomonovich, 3,721,286.
Skachko, Jury Nikolaevich; Moshkin, Venedikt Feofanovich; Garkaljuk, Rodimir Ivanovich; Popov, Nikolai Vladimirovich; Polukhin, Valery Vasilievich; Korshunov, Igor Illarionovich; Bokov, Vladimir Mikhailovich; and Skorudsky, Boris Pavlovich, 3,721,793.

Garland, Carl C.: *See—*
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Garland, Carl C. Capsule finishing apparatus. 3,738,485, 6-12-73, Cl. 209-74.000.

Garland, Carl C.; Kwarsick, Edmund J.; and Noren, Oscar B., to Parke, Davis & Company. Capsule handling apparatus and method. 3,739,909, 6-19-73, Cl. 209-90.000.

Garland, Milton W., to Frick Company. Condenser pressure control apparatus. 3,736,763, 6-5-73, Cl. 62-85.000.

Garland, Milton W. Variable speed transmission with proportional inverse torque reduction. 3,741,039, 6-26-73, Cl. 74-786.000.

Garland, Newton C.; Scanlon, James D.; Meier, Otto H.; Tassie, Douglas P.; Clark, Burton P.; and Backus, Lester F., to General Electric Company. Ammunition handling system. 3,720,301, 3-13-73, Cl. 198-32.000.

Garland Steel Company: *See—*
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Gray, James H.; and Rood, William E., Jr., 3,729,909.

Garland, Stuart M., to Teletype Corporation. Case shifting code generator. 3,742,137, 6-26-73, Cl. 178-17.00c.

Garlaschi, Eufemia. Machine for the production of half-punched rivets. 3,720,968, 3-20-73, Cl. 10-11.00a.

Garlinghouse Brothers: *See—*
Garlinghouse, Leslie H., 3,716,266.
Garlinghouse, Leslie H., 3,765,127.

Garlinghouse, Leslie H., to Garlinghouse Brothers. Clam shell gate action. 3,716,266, 2-13-73, Cl. 294-71.000.

Garlinghouse, Leslie H., to Garlinghouse Brothers. Polisher and burnisher. 3,765,127, 10-16-73, Cl. 51-163.000.

Garlock, Inc.: *See—*
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Messenger, Edward J., 3,746,488.
Stauffer, Du Wayne W., 3,761,038.
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Garlock, Inc., mesne: *See—*
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Garmaise, David Lyon; Paris, Gerard Yvon; and Plotnikoff, Nicholas Peter, to Abbott Laboratories. Certain-2-substituted-1,2,3,4-tetrahydro-beta or gamma carbolines. 3,718,657, 2-27-73, Cl. 260-296.00a.

Garman, Clair. Typewriter shield. 3,762,528, 10-2-73, Cl. 197-105.000.

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Garman, James A., to Caterpillar Tractor Company. Torsion bar recoil and adjuster mechanism. 3,768,878, 10-30-73, Cl. 305-31.000.

Garman, Lewayne E.; Kluythmans, Piet T.; and Vanbragt, Willy H., to CW Radiation, Inc. Gas laser. 3,775,700, 11-27-73, Cl. 331-94.500.

Garman, Mark B., to Monarch Enterprises, Inc. Coin-actuated crankcase pump control circuit. 3,726,607, 4-10-73, Cl. 417-12.000.

Garmonov, Izmail Vladimirovich: *See—*
Dolgoplosk, Boris Alexandrovich; Tinyakova, Elena Ivanovna; Beilin, Solomon Isaakovich; Makovetsky, Kirill Lvovich; Chernenko, Galina Moiseevna; Ostrovskaya, Irina Yakovlevna; Garmonov, Izmail Vladimirovich; Mamontov, Boris Vasilievich; and Kon, Alexandra, 3,723,400.

Garner, Charles: *See—*
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Garner, Howell D.; and Hellbaum, Richard F., to United States of America, National Aeronautics and Space Administration. Fluid pressure amplifier and system. 3,770,021, 11-6-73, Cl. 137-819.000.

Garner, James W.: *See—*
Tsou, Ivan H.; and Garner, James W., 3,737,401.

Garner, James W.; and Benedict, Bruce C., to Phillips Petroleum Company. Olefin isomerization process. 3,764,633, 10-9-73, Cl. 260-683.200.

Garner, James W.; and Johnson, Marvin M., to Phillips Petroleum Company. Hydroisomerization process and catalyst therefor. 3,772,400, 11-13-73, Cl. 260-683.200.

Garner, Jimmy D. Collapsible portable exercising machine. 3,709,488, 1-9-73, Cl. 272-58.000.

Garner, Joseph L., to Dow Chemical Company, The. Vinylidene chloride expandable microspheres. 3,740,359, 6-19-73, Cl. 260-2.50b.

Garner, Kenneth B., to Combustion Engineering, Inc. Cutting torch contour generator for cylindrical intersections. 3,726,516, 4-10-73, Cl. 266-23.00n.

Garner, Kerry E. Parking lot depository. 3,726,472, 4-10-73, Cl. 232-1.00r.

Garner, Lue O. Product vending apparatus. 3,734,345, 5-22-73, Cl. 221-81.000.

Garner, Oscar G.: *See—*
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Garner, Paul Johnson, to Imperial Chemical Industries, Limited. Injection moulding machines. 3,733,156, 5-15-73, Cl. 425-132.000.

Garner, Peter, to Thomas & Betts Corporation. Terminating machine for electrically connecting wire leads to posts on a terminal board. 3,713,196, 1-30-73, Cl. 29-203.00b.

Garner, Peter, to Thomas & Betts Corporation. Semi-automatic hand tool for extruding electrical connectors. 3,739,448, 6-19-73, Cl. 29-203.00h.

Garner, Philip O., to Litton Industries, Inc. Energy absorbing spring device. 3,768,794, 10-30-73, Cl. 267-74.000.

Garnett, Donald W., to Mahogany Farms, Inc., mesne. Method for blending and portioning meat and other food products. 3,769,036, 10-30-73, Cl. 426-231.000.

Garnett, Donald W., to Mahogany Farms, Inc., mesne. Method of shaping and compacting material. 3,770,458, 11-6-73, Cl. 264-294.000.

Garnett, Edward V., to SSP Truck Equipment, Inc., mesne. Extensible ladder assembly and aerial basket therefor. 3,767,007, 10-23-73, Cl. 182-2.000.

Garnett, John Lyndon; and Dilli, Sergio. Production of cellulosic graft polymers or copolymers by the use of a mineral acid and radiation. 3,748,241, 7-24-73, Cl. 204-159.120.

Garnett, Lawrence Taylor, to International Telephone and Telegraph Corporation. Fluid motor. 3,721,505, 3-20-73, Cl. 415-53.000.

Garnett, Lawrence Taylor, to International Telephone and Telegraph Corporation. Pulse generator. 3,755,687, 8-28-73, Cl. 307-117.000.

Garnett, Robert E., to Richard Manufacturing Company. Universal shoulder immobilizing support. 3,780,729, 12-25-73, Cl. 128-94.000.

Garnett, Willard R., to Emerson Electric Co. Mechanical and electrical disconnect. 3,739,319, 6-12-73, Cl. 339-66.00r.

Garnier, Andre, to Vallourec Usines a Tubes de Lorrane-Escaut et Vallourec Reunies. Process and apparatus for annealing the weld bead of a welded metallic tube. 3,767,882, 10-23-73, Cl. 219-8.500.

Garnier, Michael F.; and Nelson, Roland D., to International Business Machines Corporation. Trim erase mend assembly for providing a uniform erase field. 3,769,469, 10-30-73, Cl. 179-100.20d.

Garnier, Michel. Driving of fluids. 3,735,778, 5-29-73, Cl. 137-604.000.





Garnish, Edward William; Saffron, Walden; and Haskins, Clifford George, to Ciba-Geigy AG. Polyepoxide-polymercaptan-amine adducts. 3,732,309, 5-8-73, Cl. 260-583.00p.

Garnish, Sidney G.: *See—*
Islam, Rafiqul; Garnish, Sidney G.; Figov, Murray; and Mustacchi, Henry, 3,758,307.

Garnjost, Kenneth D., to Moog Inc. Hysteretic equalization in redundant electrically operated fluid powered servopositioning apparatus. 3,741,073, 6-26-73, Cl. 91-363.00a.

Garofano, Norman Rutledge: *See—*
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Garot, Lawrence F.; and Armstrong, Laurence W. Bow pull and arrow length indicator. 3,762,222, 10-2-73, Cl. 73-380.000.

Garr, Ernest J. Wrapping table attachment for dispensing boxes. 3,771,700, 11-13-73, Cl. 225-39.000.

Garrard, Bruce. Beverage dispensing valve. 3,717,284, 2-20-73, Cl. 222-108.000.

Garratt, Peter Garth; Hoigne, Jurg; and Heetman, Jaques G., to Lonza Ltd. Method for the manufacture of cellulose-containing material with improved abrasion resistance. 3,726,709, 4-10-73, Cl. 117-93.310.

Garratt, Philip M., to General Electric Company. Frequency-to-voltage converter having high noise immunity. 3,778,638, 12-11-73, Cl. 307-233.000.

Garraty, William Clayton: *See—*
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Garren, Leeroy L., to Lee-Tex Valve, Inc. Automatic test valve for testing pressure relief valves. 3,768,299, 10-30-73, Cl. 73-4.00r.

Garretson, George W. Tool for tensioning elongated tension member. 3,768,779, 10-30-73, Cl. 254-51.000.

Garretson, Owen L. Process for filling liquefied gas vessels. 3,749,141, 7-31-73, Cl. 141-5.000.

Garrett, B. Charles, to Ampex Corporation. Zero crossing detecting circuit. 3,727,079, 4-10-73, Cl. 307-235.000.

Garrett, B. Charles, to Ampex Corporation. Integrating level sensing circuit. 3,727,143, 4-10-73, Cl. 328-150.000.

Garrett, Ben B. Flexible joint for sewer pipe. 3,741,570, 6-26-73, Cl. 277-207.000.

Garrett, Billy J.: *See—*
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Garrett, Burton R. Method and apparatus for conveying containers. 3,752,292, 8-14-73, Cl. 198-25.000.

Garrett, Burton Robert. Bottle escapement device. 3,730,324, 5-1-73, Cl. 198-24.000.

Garrett Corporation, The: *See—*
Abbott, Jack W., 3,709,428.
Avant, William W., 3,769,998.
Beck, William H.; and Cardwell, Gilbert I., Jr., 3,763,418.
Boesel, Walter F., 3,761,754.
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Early, James R.; Eyring, William M.; McGrath, Donald W.; and Takenaka, Toshio, 3,752,642.
Elkins, William; and Connele, Eugene W., 3,743,368.
Gazzera, Raymond W.; Nordal, Donald A.; and Null, Robert A., 3,727,837.
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Norman, Leslie W.; and Hunter, Skillman C., 3,777,487.
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Schinnerer, Roy L.; Silver, Alexander; Sladek, Leonard T.; and Barnett, Morris A., 3,740,163.
Smialowicz, Edward H., 3,771,749.
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Garrett, David C.; and Reick, Harold W. Flashlight-continuity tester having plug and jack arrangement. 3,775,677, 11-27-73, Cl. 324-53.000.

Garrett, Henry O. Well bore blocking method. 3,771,601, 11-13-73, Cl. 166-297.000.

Garrett, Henry U., to Brown Oil Tools, Inc. Automatic choke. 3,747,633, 7-24-73, Cl. 137-489.300.

Garrett, Henry U., to Brown Oil Tools, Inc. Safety valve assembly. 3,754,597, 8-28-73, Cl. 166-72.000.

Garrett, Hubert Leon. Exercising steps. 3,743,283, 7-3-73, Cl. 272-70.000.

Garrett, Jim C.: *See—*
Garrett, Jim C.; Johnson, Robert H.; Shelton, Jack; and LaBarge, Louis P., 3,740,500.

Garrett, Jim C.; Johnson, Robert H.; and Shelton, Jack. Distributing terminal assembly test apparatus. 3,711,661, 1-16-73, Cl. 179-175.10r.

Garrett, Jim C.; Johnson, Robert H.; and Shelton, Jack. Telephone trunk-monitoring probe instrument. 3,729,597, 4-24-73, Cl. 179-175.000.

Garrett, Jim C.; Johnson, Robert H.; Shelton, Jack; and LaBarge, Louis P., to Garrett, Jim C., Johnson, Robert H. and said LaBarge assor. to said Shelton, Jack. Slide switch cutover device contactor. 3,740,500, 6-19-73, Cl. 200-16.00c.

Garrett, John Mansell, to Westinghouse Brake and Signal Company Limited. Semiconductor device. 3,725,752, 4-3-73, Cl. 317-235.00r.

Garrett, John Mansell, to Westinghouse Brake English Electric Semi-Conductors Limited. Inverse gate semiconductor controlled rectifier. 3,725,753, 4-3-73, Cl. 317-235.00r.

Garrett, Lawrence E.; and Garrett, Luther B. Dial-controlled dispenser for powdered or particular material. 3,758,004, 9-11-73, Cl. 222-181.000.

Garrett, Linda R.: *See—*
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Garrett, Luther B.: *See—*
Garrett, Lawrence E.; and Garrett, Luther B., 3,758,004.

Garrett, Michael R., to FMC Corporation. Downhole well casing hanger especially suitable for arctic environment. 3,736,984, 6-5-73, Cl. 166-208.000.

Garrett, Patrick H., to Ohio University, The President and Board of Trustees of the. Structure for and method of aircraft guidance. 3,715,752, 2-6-73, Cl. 343-7.300.

Garrett, Roscoe H., to Riley Company, The. Graphic display assembly. 3,754,244, 8-21-73, Cl. 340-381.000.

Garrett, Walter L.; and Ray, Thomas D., to Dow Chemical Company, The. Apparatus for molding hardenable materials. 3,764,247, 10-9-73, Cl. 425-224.000.

Garrett, Wayne C.: *See—*
Freedlander, Abraham L.; Garrett, Wayne C.; and Matthews, Robert E., 3,717,985.

Garrett, William R.: *See—*
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Garrett, William R., to Smith International, Inc. Drill string torque transmission sleeve. 3,754,609, 8-28-73, Cl. 175-323.000.

Garrett, William R., to Smith International, Inc. Vibration dampeners. 3,779,040, 12-18-73, Cl. 64-27.0nm.

Garrigue, Sylvette M.: *See—*
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Garrison, Arthur D.; and Hall, Earl L., to Stromberg-Carlson Corporation. Flat panel video display device. 3,748,378, 7-24-73, Cl. 178-5.40r.

Garrison, Clarence A.: *See—*
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Garrison, Harold Keith: *See—*
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Case, Cecil L.; and Garrison, Harold Keith, 3,715,928.

Garrison, Harold Keith, to Hesston Corporation. Press for uninterrupted filling of stack forming wagons. 3,733,798, 5-22-73, Cl. 56-350.000.

Garrison, Judd F.; and Batts, John H., to Batts, John Thomas, Inc. Garment clamping hanger with slidable locking clip. 3,767,092, 10-23-73, Cl. 223-96.000.

Garrison, William E., to Magic Circle Corporation, The. Wax shaping tool. 3,711,211, 1-16-73, Cl. 401-2.000.

Garrison, William H., to American Spin-A-Batch Company. Spin centrifuge baskets. 3,734,337, 5-22-73, Cl. 220-22.000.

Garrison, William H., to American Spin-A-Batch Company. Method of galvanizing. 3,753,762, 8-21-73, Cl. 117-51.000.

Garrity, James P.: *See—*
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Court, Patrick R. J., 3,770,367.

Garrity, William L.; and Tveras, Rimvydas Anthony. Collapsible bridge game. 3,730,519, 5-1-73, Cl. 273-1.00r.

Garrod, Norman John. Packaging gramophone records. 3,731,794, 5-8-73, Cl. 206-62.00p.

Garrod, Norman John. Recurd sleeves. 3,765,596, 10-16-73, Cl. 229-44.00r.

Garrone, Franco, to AMF Incorporated. Apparatus for separating solid particles suspended in a gaseous stream. 3,710,561, 1-16-73, Cl. 55-429.000.

Garrone, Vittorio. Automatic pleating machines. 3,712,610, 1-23-73, Cl. 270-79.000.

Garrow, Gerald L.: *See—*
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Garsevanishvili, Georgy Nikolaevich: *See—*
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Gartaganis, Phoebus A.; and Harvey, Denis Michael, to Domtar Limited. Method and apparatus for producing corrugated board. 3,712,843, 1-23-73, Cl. 156-499.000.
Garte, Gilbert M. Work station with self-storing desk. 3,748,010, 7-24-73, Cl. 312-314.000.
Garth, Bruce Hollis, to Du Pont de Nemours, E. I., and Company. High energy density battery having unsaturated heterocyclic solvent containing electrolyte. 3,778,310, 12-11-73, Cl. 136-100.00r.
Garth, Emory C., to Texas Instruments, Incorporated. Synchronous digital system having a clock distribution system. 3,745,472, 7-10-73, Cl. 328-63.000.
Garth, Emory Carl, to Texas Instruments, Incorporated. Synchronous digital system having a multispeed logic clock oscillator. 3,775,696, 11-27-73, Cl. 331-57.000.
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Gartmell, James V., to National Cash Register Company, The. Oriented light scattering display device. 3,749,474, 7-31-73, Cl. 350-160.01c.
Gartner, Joseph J. Internal combustion engine pollution control device. 3,779,221, 12-18-73, Cl. 123-119.00b.
Gartner, Klaus W. Multiple part key for conventional locks. 3,729,965, 5-1-73, Cl. 70-395.000.
Gartner, Klaus W. Lock construction. 3,758,142, 9-11-73, Cl. 292-254.000.
Gartner, Klaus W. Sequential switch means with a linearly movable and rotatable actuator means. 3,758,734, 9-11-73, Cl. 200-5.00r.
Gartner Research & Development Co.: *See—*
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Gartner, Robert. Screw drive. 3,756,092, 9-4-73, Cl. 74-424.80a.
Gartner, Robert J.: *See—*
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Gartner, Stanley J.: *See—*
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Gartner, Stanley J.; and Gearhart, Charles L., to GTE Sylvania Incorporated. Handling aid utilizing vacuum operated counterbalance. 3,746,185, 7-17-73, Cl. 214-1.0bh.
Gartner, William J.: *See—*
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Gartner, William Joseph, to Gartner Research & Development Co. Method and apparatus for making potable water. 3,756,413, 9-4-73, Cl. 210-205.000.
Gartner, William Joseph, to Steiner, William R. and Franklin, Richard P., mesne. Portable space heater. 3,775,590, 11-27-73, Cl. 219-366.000.
Garuts, Valdis E., to Tektronix, Inc. Wide band amplifier having two separate high and low frequency paths for driving capacitive load with large amplitude signal. 3,733,514, 5-15-73, Cl. 315-27.0td.
Garuts, Valdis E., to Tektronix, Inc. Continuously variable resistance attenuator using lossy transmission line and having constant signal transit time. 3,740,676, 6-19-73, Cl. 333-81.00a.
Garver, Robert V., to United States of America, Army. Phase shifter having at least one T-section LC circuit. 3,718,873, 2-27-73, Cl. 333-31.00r.
Garver, Robert V., to United States of America, Army. Single diode single sideband modulator. 3,739,301, 6-12-73, Cl. 332-16.00r.
Garvert, Clarence F. Cover for a pick-up truck. 3,765,717, 10-16-73, Cl. 296-137.00b.
Garvey, C. Godfrey; and McCoy, Harry Paul. Lock guard for trailer doors. 3,736,016, 5-29-73, Cl. 292-281.000.
Garvey, Glenwood L. Self-cleaning restroom. 3,720,961, 3-20-73, Cl. 4-1.000.
Garwood, George: *See—*
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Gary, Rex I., Jr.; and Kille, Charles Alden, to Glastron, Inc. Glass ball valve. 3,744,755, 7-10-73, Cl. 251-309.000.
Gary, Wardell, to Westinghouse Electric Corporation. Static on-delay circuit with improved holding means. 3,742,311, 6-26-73, Cl. 317-141.00s.
Garza, Alejandro E. Gaujardo; and Garza, Gustavo Guajardo. Method of metal coating a fibrous sheet. 3,730,752, 5-1-73, Cl. 117-11.000.
Garza, Benito Gonzalez. Fish hook and live bait harness. 3,738,049, 6-12-73, Cl. 43-44.400.
Garza, Gustavo Guajardo: *See—*
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Garzia, Aldo, to Istituto Chemioterapico Italiano S.p.A. Derivatives of amino dialkanoic acids. 3,769,334, 10-30-73, Cl. 260-519.000.
Garzia, Aldo, to Instituto Chemioterapico Italiano S.p.A. Derivatives of aminoalkanoic acids. 3,769,335, 10-30-73, Cl. 260-519.000.
Garzonio, Henry L. Yarn holder. 3,764,086, 10-9-73, Cl. 242-130.000.
Gas Council, The: *See—*
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Gasaway, Vincent T. Marker for radiology. 3,714,428, 1-30-73, Cl. 250-59.000.
Gasbjerg, Knud. Cheese treating systems. 3,713,850, 1-30-73, Cl. 99-452.000.
Gasc, Jean-Claude: *See—*
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Bucourt, Robert; Nedelec, Lucien; and Gasc, Jean-Claude, 3,720,713.
Nedelec, Lucien; and Gasc, Jean-Claude, 3,708,474.
Gasc, Jean-Claude; and Bucourt, Robert, to Roussel-UCLAF. 17 Beta-cyano-unsaturated steroids, process and therapeutic method. 3,770,725, 11-6-73, Cl. 260-239.500.
Gasc, Jean-Claude; and Pierdet, Andre, to Roussel-UCLAF. Novel delta 1,3,5(10)-estratrienes. 3,776,902, 12-4-73, Cl. 260-239.55r.
Gascon, Jean: *See—*
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Gascon, Joseph, to Fabriques de Produits Chimiques de Thann et de Mulhouse. Zirconium pigments. 3,756,840, 9-4-73, Cl. 106-299.000.
Gasdorf Tool & Machine Company, Inc.: *See—*
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Gasior, Joseph; and Pomper, Anthony W., to Midland-Ross Corporation. Cooled-cutter hot-die pelletizer. 3,753,637, 8-21-73, Cl. 425-313.000.
Gaske, Joseph E.; and Ansel, Robert E., to DeSoto, Inc. Radiation curing lacquers. 3,749,592, 7-31-73, Cl. 117-62.000.
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Gasparri, Mario, to Billi, G., & C. S.p.A. Feed system of a resiliently elongated yarn in hosiery machines and especially in a stocking machine. 3,733,858, 5-22-73, Cl. 66-140.00r.
Gaspers, Gunter, to Conrad Kern AG. Supporting structure. 3,708,928, 1-9-73, Cl. 52-90.000.
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Gass, Edward W.; and Paramore, Fred W., to Halliburton Company. Variable frequency multiplier and phase shifter. 3,743,946, 7-3-73, Cl. 328-110.000.
Gass, Edward W.; Hammond, Jack; Lorenzino, Paul; and Thomas, Joseph E., to Halliburton Company. Digital pulse count correction circuit. 3,748,446, 7-24-73, Cl. 235-151.350.



Gass, Edward W.; and Paramore, Fred W., to Halliburton Company. Fluid flow compensating method and system. 3,774,448, 11-27-73, Cl. 73w231.00m.
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Gass-Erb, Kurt. Immersion heater. 3,766,358, 10-16-73, Cl. 219-322.000.
Gasseling, Allen J. Kiln laying apparatus. 3,774,785, 11-27-73, Cl. 214-17.0ca.
Gasser, Richard E. Self-oscillating helium magnetometer. 3,725,775, 4-3-73, Cl. 324-.50r.
Gassett, Paul L.; and Mc Leod, Wilfred R., to Gulf Research & Development Company. Offshore terminal. 3,765,463, 10-16-73, Cl. 141-388.000.
Gassiev, Iran Alexandrovich; Kiknadze, Gennady Iraklievich; Garsevanishvili, Georgy Nikolaevich; and Akhobadze, Vakhtang Noevich. Method for the production of a neutron impulse flash and a nuclear reactor for its realization. 3,761,351, 9-25-73, Cl. 176-28000.
Gassmann, Hans Ulrich; and Frauchiger, Ulrich, to Ciba-Geigy AG. Method of recording liquid flow over a solid surface. 3,753,652, 8-21-73, Cl. 23-230.00r.
Gassmann, Willy: *See—*
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Gassner, Hans, to Kugelfischer Georg Schafer & Co. Friction roller for driving high-speed spinning or twisting tube. 3,768,129, 10-30-73, Cl. 29-110.000.
Gasson, Edward James, to BP Chemicals Limited. Catalyst composition. 3,709,829, 1-9-73, Cl. 252-461.000.
Gast, David Barend, to Lever Brothers Company. Process for preparing skinless dry sausage and product produced thereby. 3,770,459, 11-6-73, Cl. 426-8.000.
Gast, Theodor. Magnetic gas analyzer utilizing inductive means to sense displacements and to rebalance the analyzer. 3,714,557, 1-30-73, Cl. 324-36.000.
Gast, Uwe, to Hell, Rudolf, Dr.-Ing., GmbH. Method and apparatus for recording rastered continuous-tone pictures in printed graphics. 3,725,574, 4-3-73, Cl. 178-6.70r.
Gastebois, Philippe Marc Denis: *See—*
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Gasteiger, Otto Ferdinand. Partition. 3,720,026, 3-13-73, Cl. 52-241.000.
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Gaston, Claude; and Hwang, Kao, to Abbott Laboratories. 2,3-Dihydro-1H-pyrido(2,3-b)(1,4) thiazin-2-one as an anti-secretory agent. 3,755,579, 8-28-73, Cl. 424-246.000.
Gaston Country Dyeing Machine Company: *See—*
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Gastrock, William Henry, to American Cyanamid Company. Process for the preparation of 2-amino-5-(5-nitroimidazol-2-yl)-1,3,4-thiadiazoles. 3,770,760, 11-6-73, Cl. 260-306.0sd.
Gatco Rotary Bushing Company: *See—*
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Gate, James M.; Levy, Allen D.; and Nunez, Louis, Jr., to Westinghouse Electric Corporation. Fabricated bedplate structure for a machine. 3,742,241, 6-26-73, Cl. 290-52.000.
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Gates, John Warburton, Jr.; and Salminen, Ilmari Fritiof, to Eastman Kodak Company. Photographic elements containing ballasted resorcinols. 3,770,431, 11-6-73, Cl. 96-29.00d.
Gates Learjet Corporation: *See—*
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Gates, Marvin A.; and Parks, John H., to Caterpillar Tractor Company. Hydraulic governor. 3,718,127, 2-27-73, Cl. 123-140.000.
Gates, Marvin A.; and Sommars, Mark P., to Caterpillar Tractor Company. Fuel limiting device. 3,777,730, 12-11-73, Cl. 123-140.00r.
Gates, Paul, to Applied Power Inc. Dynamic modulator. 3,760,840, 9-25-73, Cl. 137-493.000.
Gates, Peter Stuart; and Gillon, John, to Fisons Limited. Benzodioxale derivatives useful as pesticides. 3,736,338, 5-29-73, Cl. 260-340.500.
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Gates, Robert B. Flexible harrow device. 3,774,694, 11-27-73, Cl. 172-617.000.
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Gates, Robert L., to Singer Company, The. Gyroscopic boresight alignment system and apparatus. 3,731,543, 5-8-73, Cl. 73-504.000.
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Gates, Thomas W.; Gates, Wesley R.; and Davis, Vayne R., to Gates, Thomas E., & Sons, Inc. Steam tunnels for treating logs and method of treatment. 3,750,303, 8-7-73, Cl. 34-9.500.
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Gatt, Michael E.: *See—*
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Gatt, Michael Earl, to Bendix Corporation, The. Trailer back-up brake release for surge operated brakes. 3,754,623, 8-28-73, Cl. 188-112.000.
Gatti, Alfred C. Refuse collection device. 3,716,263, 2-13-73, Cl. 294-19.00r.
Gatti, Anthony R., to Shell Oil Company. Sulfide precipitated catalysts. 3,761,397, 9-25-73, Cl. 208-143.000.
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Gatti, Giancarlo, to Honeywell Information Systems Italia. Card feeder. 3,770,265, 11-6-73, Cl. 271-10.000.
Gatto, Charles: *See—*
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Gattus, Jean; and Mallet, Maurice. Process for casting polyphenylene oxide film on stainless steel supports using a vegetable oil additive. 3,721,639, 3-20-73, Cl. 260-18.0pf.
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Gatwood, Robert K.: *See—*
Weintraub, Arthur; Cook, Wendell A.; Gatwood, Robert K.; and De Brosse, Kenneth L., 3,735,344.
Gaty, Theodore E., III. Electrical transformer coils. 3,766,506, 10-16-73, Cl. 336-192.000.
Gatzi, Karl: *See—*
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Hodel, Ernst; and Gatzi, Karl, 3,759,719.
Menasse, Raphael; and Gatzi, Karl, 3,751,466.
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Gatzke, Eckard: *See—*
Buchfuhrer, Gerhard; Dudszus, Alfred; Milles, Wilhelm; Lerche, Franz; Feyer, Gunter; Krause, Manfred; Grunwald, Josef; Hensel, Ulrich; Aust, Ingo; Ewald, Gunter; Langer, Walter; Ludke, Gunther; Mohle, Karl-Georg; Oberlander, Joachim; Kowalski, Horst; Gatzk, Eckard; Pernaux, Gerd; Schwank, Otto; Leschnewski, Konrad; Brose, Reinhard; Hartwig, Gunter; and Ploetz, Ulrich, 3,708,100.
Gatzke, Kenneth G., to Minnesota Mining and Manufacturing Company. Silver halide photographic elements containing removable antihilation layer. 3,779,771, 12-18-73, Cl. 96-84.000.
Gaub, Walter; Von Konig, Anita; Moll, Franz; Muller-Bardorff, Wolfgang; and Saleck, Wilhelm, to Agfa-Gevaert Aktiengesellschaft. Silver halide element containing a benzimidazoline-2-thione-N,N'-dicarbonic acid ester stabilizing agent. 3,761,278, 9-25-73, C. 96-109.000.
Gauberthier, Joseph: *See—*
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Gauch, Georg: *See—*
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Gauch, George J., to Uniroyal, Inc. Apparatus. 3,766,738, 10-23-73, Cl. 61-1.00f.
Gauchat, Richard H.; and Sabel, Nathan W., to United States of America, Navy. Quick-disconnect electrical connector. 3,723,944, 3-27-73, Cl. 339-45.00r.
Gauchet, Yves M., to Societe Anonyme: Poclain. Method and device for maneuvering the stabilising stays of a mechanical earth-working vehicle. 3,709,518, 1-9-73, Cl. 280-150.500.
Gauchet, Yves M., to Societe Anonyme: Poclain. Public works machines. 3,747,718, 7-24-73, Cl. 180-9.20r.
Gaud, Robert. Contraceptive device. 3,734,089, 5-22-73, Cl. 128-130.000.
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Gaudebout, Claude; and Quercy, Jean-Fred, to Hoffmann-La Roche Inc. Device for measuring the partial pressure of a gas in a fluid. 3,763,850, 10-9-73, Cl. 128-2.00c.
Gaudernack, Bjorn; Hannestad, Gunnar; and Hunderf, Ingleiv, to Forskningsgruppe for Sjeldna Jordarter. Process for separating yttrium values from the lanthanides. 3,751,553, 8-7-73, Cl. 423-21.000.
Gaudet, Peter W.: *See—*
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Gaudio, Joseph G.; and Debski, Thomas R., to United States of America, Navy. Broadband waveguide to coaxial line transition. 3,737,812, 6-5-73, Cl. 333-32.000.
Gaudio, Joseph G., to United States of America, Air Force. Stripline-to-two-conductor balun. 3,771,070, 11-6-73, Cl. 333-26.000.
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Gauger, Friedhelm, to Maschinenfabrik Ettlingen, Freidrich Pfeiffer KG. Apparatus for making concrete tubes. 3,746,494, 7-17-73, Cl. 425-262.000.
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Gaughan, Gerald E.; Buchanan, Earl H.; and Thompson, Emil W., to United States of America, Army. Infantry projectile. 3,760,731, 9-25-73, Cl. 102-56.000.
Gauje, Georges Maurice Celestin Alois: *See—*
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Gaul, Daniel R., to Crown Molding Co., mesne. Preformer. 3,709,475, 1-9-73, Cl. 263-21.00b.
Gaulier, Jean-Claude, to Compteurs Schlumberger. Gate and braking apparatus therefor. 3,771,262, 11-13-73, Cl. 49-43.000.
Gault, Robert, to J.R.A. Steel Processing Limited. Cutting blades for powered carving knives. 3,728,792, 4-24-73, Cl. 30-355.000.
Gaumer, Lee S., Jr.; and Newton, Charles L., to Air Products and Chemicals, Inc. Combined cascade and multicomponent refrigeration system and method. 3,763,658, 10-9-73, Cl. 62-40.000.
Gaur, Jai P., to National Cash Register Company, The. Multi-line plasma shift register display. 3,775,764, 11-27-73, Cl. 340-324.00r.
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Gause, Raymond L.; and Bynum, Bobby G., to United States of America, National Aeronautics and Space Administration. Erometer. 3,744,480, 7-10-73, Cl. 128-2.05r.
Gause, Raymond L.; and Spier, Raymond A., to United States of America, National Aeronautics and Space Administration. Restraint system for ergometer. 3,744,794, 7-10-73, Cl. 272-73.000.



Gause, Raymond L.; and Spier, Raymond A., to United States of America, National Aeronautics and Space Administration. Tilting table for ergometer and for other biomedical device. 3,750,479, 8-7-73, Cl. 73-379.000.
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Gauthier, Joseph Aldege; and Shank, Louis Marcel. Animal traps. 3,775,896, 12-4-73, Cl. 43-81.000.
Gauthier, Joseph, Jr. Environmental collection box. 3,768,689, 10-30-73, Cl. 220-24.00a.
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Gauthier, Roland A., to Ladish Co. Creep annealing and a multiple pin fixture for use therein. 3,745,805, 7-17-73, Cl. 72-364.000.
Gauthier, William D.; and Rogers, Daniel M., to Champion Spark Plug Company. Apparatus for coating with electrostatically charged particulate materials. 3,740,612, 6-19-73, Cl. 317-3.000.
Gauthier, William D.; and Ridley, Jeter L., to Champion Spark Plug Company. Environmental contamination control device. 3,745,991, 7-17-73, Cl. 128-2.00r.
Gauthier, William Kohlmann. Retractor apparatus. 3,724,449, 4-3-73, Cl. 128-20.000.
Gauthier, William Kohlmann. Surgical retractor device. 3,749,088, 7-31-73, Cl. 128-20.000.
Gautier, Pieter A.; Van der Plas, Franciscus J. F.; and Verbrugge, Pieter A., to Shell Oil Company. Linear monoolefin production. 3,776,974, 12-4-73, Cl. 260-683.00d.
Gautier, Rene, to Ugine Kuhlmann. Process for extracting uranium from its ores. 3,740,200, 6-19-73, Cl. 423-6.000.
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Gautney, George E.; Piombino, John; and Johnson, Rowland S., to Gautney & Jones. Receiver demuting arrangement employing sequential binary code. 3,739,278, 6-12-73, Cl. 325-64.000.
Gautney, George E., to Gautney & Jones. Remote control communications system. 3,746,991, 7-17-73, Cl. 325-55.000.
Gautraud, Michael G.: *See—*
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Gavagan, James A., to Irvin Industries Inc. Buckle mechanism. 3,710,426, 1-16-73, Cl. 24-224.00r.
Gavagan, James A.; and Romanzi, Louis, Jr., to Irvin Industries, Inc. Safety belt buckle. 3,711,904, 1-23-73, Cl. 24-230.0ak.
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Gavin, John Joseph; Walchli, Herman Henry, Jr.; and Stauffer, Dale Adrian, to Miles Laboratories, Inc. 3-Amino-flavanones. 3,753,985, 8-21-73, Cl. 260-247.70s.
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Gawlick, Heinz; and Bendler, Hellmut, to Dynamit Nobel Aktiengesellschaft. Primer for electric and percussion fuses for cartridge ammunition. 3,719,148, 3-6-73, Cl. 102-46.000.
Gawlick, Heinz; Marondel, Gunther; Sieglein, Werner; Wasser, Wolfgang; and Bendler, Hellmut, to Dynamit Nobel Aktiengesellschaft. Tear gas element. 3,724,381, 4-3-73, Cl. 102-65.000.
Gawlick, Heinz; and Stahlmann, Rudolf, to Dynamit Nobel Aktiengesellschaft. Projectile. 3,726,495, 4-10-73, Cl. 244-3.270.
Gawlick, Heinz; Bendler, Hellmut; Brede, Uwe; Hubsch, Gunter; and Gottwald, Gunther, to Dynamit Nobel Aktiengesellschaft. Acceleration responsive switch with linearly movable contactors. 3,742,163, 6-26-73, Cl. 200-61.45r.
Gawlick, Heinz; and Marondel, Gunther, to Dynamit Nobel Aktiengesellschaft. Process for production of propellant charges comprising compressing geometrically shaped powders together. 3,754,060, 8-21-73, Cl. 264-3.00c.
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Gawlik, Edward F.; and Schwehr, Richard A., to Towmotor Corporation. Electric propulsion motor mounting and drive means. 3,773,132, 11-20-73, Cl. 180-64.00r.
Gawlikowicz, Jan J.; Krywult, Jerzy; Wusatowski, Roman; Garczynski, Jozef; Makowski, Aleksander; and Sikora, Leopold, to Instytut Metalurgii Zelaza. Cluster mill with cantilevered rolls. 3,718,026, 2-27-73, Cl. 72-242.000.
Gawura, Andrew, 1/2 to Lawrence, A. Robert. Gastric cooling apparatus. 3,768,484, 10-30-73, Cl. 128-400.000.
Gay, Archibald, to General Dynamics Corporation. Method and apparatus for coordinating propulsion in a single stage space flight. 3,756,024, 9-4-73, Cl. 60-204.000.
Gay, Clarence Russell, to Firestone Tire & Rubber Company, The. Flat band method of making radial tires. 3,756,883, 9-4-73, Cl. 156-123.000.
Gay, Derek J.; Smedley, William H.; and Miller, Anthony D., to Mattel, Inc. Spring actuated projector having gravity fed magazine. 3,717,136, 2-20-73, Cl. 124-21.000.
Gay, Derek J.; and Smedley, William H., to Mattel, Inc. Retractable winding mechanism for elastic motors. 3,721,317, 3-20-73, Cl. 185-39.000.
Gay, Gordon M., to Commercial Solvents Corporation. Preparation of explosive nitric ester gels. 3,736,196, 5-29-73, Cl. 149-48.000.
Gay, James E., to Starline, Inc. Ground engaging baler. 3,740,935, 6-26-73, Cl. 56-16.400.
Gay, James E.; and Bliss, John W., to Starline, Inc. Ground engaging hay bale rolling apparatus. 3,751,890, 8-14-73, Cl. 56-16.400.
Gay, James L., to Starline, Inc. Apparatus for handling rolled bales of hay. 3,779,208, 12-18-73, Cl. 119-1.000.
Gay, Michael J., to Motorola, Inc. Active bootstrap circuit. 3,750,041, 7-31-73, Cl. 330-26.000.
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Gay, Walter A.; and Raymond, Maurice A., to Olin Corporation. Method for preparing 3-fluorosalicylaldehyde. 3,780,110, 12-18-73, Cl. 260-600.000.
Gaye, John H., to General Electric Company. Ammunition handling system. 3,762,268, 10-2-73, Cl. 89-34.000.
Gayeski, Thomas Edward Joseph, to RCA Corporation. Redundant Fraunhofer recording system. 3,749,469, 7-31-73, Cl. 350-3.500.
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Gaylord, John A., to Koch, H., & Sons, Inc. Lock and release for strap connector. 3,744,103, 7-10-73, Cl. 24-230.00a.
Gaylord, John A., to Koch, H., & Sons, Inc. Line release. 3,762,001, 10-2-73, Cl. 24-230.00a.
Gaylord, John A., to Koch, H., & Sons, Inc. Locking lever release for strap connector. 3,766,611, 10-23-73, Cl. 24-230.00a.
Gaylord, John A., to Koch, H., & Sons, Inc. Quick release harness. 3,767,143, 10-23-73, Cl. 244-151.00a.
Gaylord, John A., to Koch, H., & Sons, Inc. Selective single point release for parachute harness. 3,767,144, 10-23-73, Cl. 244-151.00a.
Gaylord, John F., Jr., to Medical Specialties, Inc. Clavicle brace. 3,718,137, 2-27-73, Cl. 128-87.00r.
Gaylord, Norman G., to Gaylord Associates. Grafting of a mixture of styrene and maleic anhydride onto backbone polymers containing active or labile hydrogen atoms. 3,708,555, 1-2-73, Cl. 260-878.00r.
Gaylord, Norman G., to Champion International Corporation. Thermoplastic polymer film-polyhydric polymer film laminate. 3,725,174, 4-3-73, Cl. 156-305.000.
Gaylord, Norman G., to Gaylord Research Institute, Inc. Novel graft copolymers having branches of alternating comonomer units. 3,740,362, 6-19-73, Cl. 260-17.4gc.
Gaylord, Norman G., to Champion International Corporation. Process for impregnating porous, cellulosic material by in situ polymerization of styrene-maleic anhydride complex. 3,765,934, 10-16-73, Cl. 117-148.000.
Gaylord, Norman G., to Borg-Warner Corporation. Process for preparing maleic anhydride-conjugated diene copolymers. 3,773,727, 11-20-73, Cl. 260-78.5bb.
Gaylord, Norman G., to Gaylord Research Institute, Inc. Graft copolymers having branches which are alternating copolymers, and processes therefor. 3,781,232, 12-25-73, Cl. 260-17.4gc.
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Gayner, Herbert; and Demsey, John N., Jr., to Aluminum Company of America. Laminated container wall structure. 3,753,847, 8-21-73, Cl. 161-116.000.
Gayner, Herbert; and Smith, David A., to Aluminum Company of America. Thermally treated container wall. 3,762,598, 10-2-73, Cl. 220-54.000.
Gaynor, Joseph, to Bell & Howell Company. Image transfer layers for infrared transfer. 3,730,091, 5-1-73, Cl. 101-471.000.
Gaynor, Joseph; and Anderson, Terry G., to Bell & Howell Company. Exposure meter for thermal imaging devices. 3,733,485, 5-15-73, Cl. 250-65.00t.
Gayot, Jean, to Engins Matra, mesne. Rail vehicle steering system. 3,759,187, 9-18-73, Cl. 104-130.000.
Gaz de France: *See—*
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Gazda, Edward S., to Dunham-Bush Inc. Compressor unloader indicator and refrigeration system controlled thereby. 3,738,116, 6-12-73, Cl. 62-131.000.
Gazda, Irvin William, to Great Lakes Carbon Corporation. Method of making a nipple-electrode joint. 3,717,911, 2-27-73, Cl. 29-25.140.
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Gazuit, Georges. Tire-making drum. 3,778,326, 12-11-73, Cl. 156-417.000.
Gazza, George E.; and Dutta, Sunil K., to United States of America, Army. Hot pressing ceramic oxides to transparency by heating in isothermal increments. 3,767,745, 10-23-73, Cl. 264-65.000.
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Gazzola, Ivaldo; D'Amato, Salvatore F.; and Foote, Chauncey P., Jr., to American Bank Note Company. Printing press with sheet inspection station. 3,759,177, 9-18-73, Cl. 101-232.000.
Gazzola, Valdo; D'Amato, Salvatore F.; and Foote, Chauncey P., Jr., to American Bank Note Company. Plate wiping mechanism for intaglio press. 3,762,319, 10-2-73, Cl. 101-155.000.
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Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,118, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,119, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,120, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,121, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,122, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,123, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,124, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,125, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,126, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,127, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,128, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,129, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,130, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,131, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,132, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,133, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,134, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,135, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,136, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,137, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,138, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,139, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,140, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,141, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,142, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,143, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,144, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,145, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,146, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,147, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,148, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,149, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,150, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,151, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,152, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,153, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,154, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,155, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,156, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,157, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,158, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,159, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,160, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,161, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,162, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,163, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,164, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,165, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,166, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,167, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,168, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,169, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,170, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,171, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,172, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,173, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,174, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,175, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,176, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,177, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,178, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,179, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,180, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,181, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,182, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,183, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,184, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,185, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,186, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,187, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,188, 3-13-73, Cl. 73-59.000.
Gelbman, Leonard, to Gelbman Instrument Company. Method and apparatus for measuring the viscosity of a liquid. 3,720,189, 3-13-73, Cl. 73-59.000.

Gelbman, Lawrence F. Synthetic light-weight material and process and system for manufacturing same. 3,765,919, 10-16-73, Cl. 106-288.00b.

Gelbrich, Werner W., to Borg-Warner-Stieber GmbH. Roller type freewheel clutch. 3,760,914, 9-25-73, Cl. 192-45.000.

Gelco-Project Lindgren & Co. Handelsbolag: *See—*
Lindgren, Mats E. G., 3,739,794.

Geld, Isidore, to United States of America, Navy. Cathodic protection anode with sections replaceable underwater. 3,718,570, 2-27-73, Cl. 204-196.000.

Geldard, Roger Michael: *See—*
Flory, Brian Allen; and Geldard, Roger Michael, 3,723,011.

Gelder, Franz. Method and arrangement for optically representing industrial management data. 3,725,650, 4-3-73, Cl. 235-151.300.

Gelder, Ronald: *See—*
Pass, Peter John; Carr, Douglas Wesley; Knight, Rogers Evert; Gelder, Ronald; Morrell, Moreton; Smith, Leslie William; Harris, Leonard Frederick; and Van Bastelaere, Karel Leon August, 3,741,236.

Geldmacher, Erwin Helmut. Method for producing cigarette packages. 3,732,663, 5-15-73, Cl. 53-14.000.

Gele, Pierre: *See—*
Laprade, Bernard; Laprade, Xavier; and Gele, Pierre, 3,713,630.

Gele, Pierre; Laprade, Bernard; and Laprade, Xavier. Constant negative-pressure carburetors. 3,721,428, 3-20-73, Cl. 261-23.00a.

Geleman, Ephrem J. Apparatus for cutting glass bottles and the like. 3,744,359, 7-10-73, Cl. 82-92.000.

Gelendwellenbau GmbH: *See—*
Schultenkamper, Josef, 3,770,993.

Gelenius, Robert B., to General Motors Corporation. Apparatus for supplying current through a load approximating a single cycle of a sine wave in response to an increasing signal voltage. 3,732,436, 5-8-73, Cl. 307-229.000.

Gelenius, Robert B.; and Levijoki, Wayne A., to General Motors Corporation. Combined wheel slip limiting and vehicle speed limiting apparatus. 3,752,249, 8-14-73, Cl. 180-82.00r.

Gelenkwellenbau GmbH: *See—*
Faulbecker, Gerd, 3,726,577.
Kluh, Emil, 3,756,349.
Schultenkamper, Josef, 3,779,039.

Geleziunas, Rimas J., to CEB Limited. Circuit breaker. 3,743,981, 7-3-73, Cl. 335-23.000.

Gelfand, Daniel, to Buchler Instruments Division, Nuclear-Chicago Corporation. Peristaltic pump with stacked components. 3,723,030, 3-27-73, Cl. 417-475.000.

Gelfand, Peter C., to Envirotech Corporation. Electric field directed control of dust in electrostatic precipitators. 3,719,031, 3-6-73, Cl. 55-136.000.

Gelfand, Peter C., to Envirotech Corporation, mesne. Circuits for controlling the power supplied to an electrical precipitator. 3,745,749, 7-17-73, Cl. 55-105.000.

Gelfenbein, Evgeny Jukhimovich; Karlinsky, Stanislav Evgenievich; Niskovskikh, Vitaly Masimovich; and Khimich, Georgy Lukich. Continuous metal-casting plant. 3,729,048, 4-24-73, Cl. 164-282.000.

Gelfgren, Erik Kurt Hannes; Peterson, Karl Verner; and Sundin, Olle, to AB Hagglund & Soner. Loading machine. 3,726,382, 4-10-73, Cl. 198-10.000.

Gelfman, Stan: *See—*
Duda, John; Gelfman, Stan; and Kaufman, Arne, 3,735,837.

Gelhaar, Erik Olov Bo. Apparatus for regulating the operation of a braking device. 3,716,118, 2-13-73, Cl. 188-181.00t.

Gelhard, Lgon; and Gunkel, Rudolf. Transportation system particularly useful in hostile environments. 3,776,141, 12-4-73, Cl. 104-123.000.

Gelin, Lysiane G.; and Garrigue, Sylvette M. Machine for striking floor coverings. 3,734,203, 5-22-73, Cl. 173-117.000.

Gelin, Robert J.: *See—*
Bolen, Gerhard N.; Gelin, Robert J.; and Haggerty, William N., 3,732,140.

Gelin, Robert J., to Owens-Corning Fiberglas Corporation. Chopper for linear material. 3,731,575, 5-8-73, Cl. 83-344.000.

Gelin, Robert J., to Owens-Corning Fiberglas Corporation. Apparatus for advancing strand. 3,746,230, 7-17-73, Cl. 226-168.000.

Gelinas, Richard: *See—*
Chae, Hi Chul; Gelinas, Richard; Trusty, Jon Caton; and Berntsen, Walter H., 3,757,943.

Gelinas, Yvan. Transmission and steering systems for vehicles provided with non-steerable wheels. 3,743,043, 7-3-73, Cl. 180-6.200.

Gelis, Avion Paul Lewis. Hoop-and-stick toy. 3,715,834, 2-13-73, Cl. 46-220.000.

Gelis, Christian, to Commissariat a l'Energie Atomique. Macroaggregates of copper-64 and gelatin, application and method of preparation of same. 3,743,712, 7-3-73, Cl. 424-1.000.

Gell, Dennis; and Hvidsten, Jan Hogbart, to Stibbe-Monk Development Limited. Machine for the preparation of pattern carriers for circular knitting machines. 3,738,553, 6-12-73, Cl. 225-97.000.

Gell, Philip Anthony Maunsell; Merritt, Frederick Maynard; and Steitz, William Richards, to Toledo Engineering Co., Inc. and Elemelt Limited. Protection of glass melting furnace electrode. 3,777,040, 12-4-73, Cl. 13-6.000.

Gellatly, Robert K.; and Creed, Sherman H., to FMC Corporation. Automatic banking for rotary filling machine. 3,771,576, 11-13-73, Cl. 141-150.000.

Gellekink, Bernard, to N.V. Hollandse Signaalapparaten. Monopluse radar apparatus. 3,728,723, 4-17-73, Cl. 343-7.400.

Geller, Henry A.: *See—*
Blount, Frederick T.; Geller, Henry A.; Moore, Richard D.; Leung, Howard; Lewis, Scott C.; and Redmond, Joseph M., 3,736,573.

Geller, Leo; and Wolfgang, Georg, to Ciba-Geigy Corporation. Device for the dispensing of a single dose of a liquid. 3,739,951, 6-19-73, Cl. 222-193.000.

Geller, Martin R.; and Goldman, David A. Annunciator system. 3,729,729, 4-24-73, Cl. 340-244.00c.

Geller, Myer; Altman, Daniel E.; and Barstow, Glidden J., to United States of America, Navy. High intensity light source. 3,758,805, 9-11-73, Cl. 313-225.000.

Gellert, Jobst Ulrich, to Mold Masters, Limited. Cassette case. 3,754,639, 8-28-73, Cl. 206-1.00r.

Gellert, Jobst Ulrich, to Helmac Products Corporation. Shoe tree with article basket. 3,772,722, 11-20-73, Cl. 12-115.800.

Gellon, Joseph; and Slonina, Jean-Pierre. Method of making a carbonized material of expanded graphite and carbon fibers. 3,726,738, 4-10-73, Cl. 156-276.000.

Gelman, Alexandr Shmulevich: *See—*
Melbard, Sergei Nikolaevich; Shakhnov, Anatoly Fedorovich; Gelman, Alexandr Shmulevich; Slepak, Moscowiezra Shmulevich; Oblasti, Malakhovka Moskovskoi; Vivsik, Svyatoslav Nikolaevich; Bondarev, Anatoly Ivanovich; Desyatskov, Leonid Pavlovich; and Morozov, ladimir Sergeevich, 3,748,431.

Gelman Instrument Company: *See—*
Keefer, Richard D., 3,750,187.

Gelmikh, Jury Dmitrievich: *See—*
Tatyanko, Nikolai Vasilievich; Usymbal, Alexandr Gavrilovich; Isikov, Sergei Alexandrovich; Sietsenko, Vladimir Vasilievich; Oleinik, Ivan Pavlovich; Betcher, Alexandr Samuilovich; Pasha, Leonid Georgievich; Ilge, Genrikh Karlovich; Sokulova, Maria Stepanona; Rusanov, Ivan Ivanovich; Gelmikh, Jury Dmitrievich; Khmel, Nikolai Dmitrievich; Kozhushko, Dmitry Ignatievich; and Beinisovich, Boris Anatolievich, 3,747,149.

Gelperina, Eleonora Grigorievna: *See—*
Khcheian, Khachik Egorovich; Revenko, Olga Mikhailovna; Shatalova, Alla Nikolaevna; and Gelperina, Eleonora Grigorievna, 3,751,443.

Gelsenberg Aktiengesellschaft: *See—*
Peterlein, Karl; and Rempfer, Heinz, 3,755,377.

Gelsenberg Benzin Aktiengesellschaft: *See—*
Muller, Helmut; and Peterlein, Karl, 3,723,516.

Gelzer, John R. Work-supporting fixture for a conveyor system. 3,737,024, 6-5-73, Cl. 198-181.000.

Gelzer, Justus Melchior: *See—*
Konopka, Edward Alexander; and Gelzer, Justus Melchior, 3,720,764.
Konopka, Edward Alexander; and Gelzer, Justus Melchior, 3,725,543.
Konopka, Edward Alexander; and Gelzer, Justus Melchior, 3,751,567.

Gelzheiser, Francis L.: *See—*
Frantti, Edsel W.; and Gelzheiser, Francis L., 3,745,414.

Gem City Engineering Co., The: *See—*
Waizmann, George H.; and Cook, Robert G., Sr., 3,752,028.

Gem Industries, Inc.: *See—*
Neunherz, Herbert W.; and Bryant, Robert G., 3,760,434.

Gem Oil Tool Company: *See—*
Alexander, Granison T., Jr., 3,762,472.

Gem Products, Inc.: *See—*
Johnsen, Eric C., 3,746,289.

Gema AG Apparatebau: *See—*
Braun, Franz; and Ribnitz, Peter, 3,764,883.

Gemco Electric Company: *See—*
Cork, Gordon H.; and Tenniswood, David M., 3,716,986.
Cork, Gordon H.; and Tenniswood, David M., 3,743,799.
Tenniswood, David M.; Arnold, John E.; Kaptur, Robert E.; Tonchev, Toncho G.; and Franke, Herbert J., 3,757,135.

Gemein, Rudolf: *See—*
Brucher, Adolf; Gemein, Rudolf; and Holzer, Gerold, 3,727,997.

Gemein, Rudolf; and Holzer, Gerold, to Kraftwerk Union Aktiengesellschaft. Radial slide bearings constructed as three-wedge bearings, preferably for turbomachines. 3,722,965, 3-27-73, Cl. 308-122.000.

Gement, Paul M., Jr. Refrigeration apparatus employing liquified gas. 3,757,531, 9-11-73, Cl. 62-156.000.





Gemigniani, Francois, to Societe d'Exploitation de Brevets pour l'Industrie La Marine Societe Anonyme. Safety valve. 3,754,566, 8-28-73, Cl. 137-488.000.

Gemmellaro, Carmelo, to Fiat Societa per Azioni. Automatic brake pressure control device for pneumatic anti-skid vehicle braking systems. 3,753,600, 8-21-73, Cl. 303-21.00f.

Gemmer-France: *See—*
Bayle, Robert Vincent, 3,745,850.

Gemmill, Wayne J., Sr.: *See—*
Arino, Hirofumi; Gemmill, Wayne J., Sr.; and Kramer, Henry H., 3,745,067.

Gemperle, Bruno, to Anstalt Europaische Handelsgesellschaft, mesne. Apparatus for enciphering and deciphering multidigit coded signals. 3,752,920, 8-14-73, Cl. 178-22.000.

Gename, John L., to Omeco-St. John Co., mesne. Packing plant conveyor trolley. 3,738,477, 6-12-73, Cl. 198-177.000.

Genaro, Joseph L., to Shur Brite Wax-O-Matic, Inc., mesne. Automatic surface polishing system. 3,774,259, 11-27-73, Cl. 15-97.00r.

Genbaufee, Francis S., to Robertshaw Controls Company. Burner construction and method of making the same or the like. 3,768,131, 10-30-73, Cl. 29-157.00r.

Genbauffe, Francis S., to Robertshaw Controls Company. Fuel control system and control device therefor or the like. 3,739,812, 6-19-73, Cl. 137-625.320.

Genbauffe, Francis S., to Robertshaw Controls Company. Heat motor operated gas valve construction and system and method. 3,750,999, 8-7-73, Cl. 251-11.000.

Genbauffe, Francis S., to Robertshaw Controls Company. Control system and control device therefor or the like. 3,780,940, 12-25-73, Cl. 236-15.00a.

Genbauffs, Francis S., to Robertshaw Controls Company. Burner construction. 3,780,954, 12-25-73, Cl. 239-560.000.

Genco, Joseph M.: *See—*
Cremeans, George E.; Berry, David A.; Rosenberg, Harvey S.; Genco, Joseph M.; and Morrison, David L., 3,730,833.

Genda, Satosi: *See—*
Yukutomi, Masuo; Tanaka, Yoshitaka; Genda, Satosi; and Kitaura, Masaki, 3,769,349.

Genda, Yoshikazu: *See—*
Sawabe, Shigeji; Genda, Yoshikazu; Yamamoto, Takeo; Masuyama, Kazuyoshi; and Takebayashi, Michinori, 3,767,585.

Gendreu, Robert, to Thomson-CSF. Landing aid system. 3,775,599, 11-27-73, Cl. 235-150.220.

Gendreu, Robert; and Genuist, Jean, to Thomson-CSF. Independent landing monitoring pulse radar system. 3,775,766, 11-27-73, Cl. 343-5.01s.

Gendrich, James A. Leveler for paving machine. 3,732,024, 5-8-73, Cl. 94-45.000.

Gendron, George J.: *See—*
Godley, Augustus P.; Fuller, Francis M.; Houk, Charles R.; Holland, Henry A. Nelson; and Gendron, George J., 3,707,847.
Godley, Augustus P.; Fuller, Francis M.; Houk, Charles R.; Holland, Henry A. Nelson; and Gendron, George J., 3,772,894.

Gendron, Lester J. Wall breaching attachment for fire hose. 3,762,645, 10-2-73, Cl. 239-271.000.

Gendron, Roger J.; and Skarin, Carl Richard, to Baker Perkins Inc. Transfer apparatus. 3,757,926, 9-11-73, Cl. 198-38.000.

Gendron-Diemer, Inc.: *See—*
Limpach, Paul D., 3,767,260.

Geneco Inc.: *See—*
Michel, Georges Maurice, 3,756,900.
Perret, Georges, 3,718,085.

General Acoustics Corporation: *See—*
Smith, Cloyd D.; and Schmidt, James H., 3,715,009.

General Alarm Corporation: *See—*
Colman, Robert, 3,761,632.
Hawkins, Paul Maddison, 3,713,947.

General American Transportation Corporation: *See—*
Eddy, Ira C.; and Taylor, William A., 3,718,219.
Heisterberg, Milton W., 3,774,799.
Johnson, Edwin W., 3,756,640.
Konrad, Parker, 3,723,078.
Levine, Marvin S., 3,728,294.
Metzger, Willy; Ott, Rudi; Pappe, Gunter; and Schmidt, Helmut, 3,753,667.
Sytko, Thomas H., 3,768,849.
Vaitys, Ramojus P., 3,710,966.

General Aviation Electronics, Inc.: *See—*
Atkinson, Noel D., 3,769,604.
Rice, Elmore W., III, 3,713,161.

General Battery Corporation: *See—*
Channing, Harry M.; and Elzer, Bernard J., 3,767,038.
Eberle, William J., 3,729,799.
Eberle, William J., 3,753,783.
Fallon, William H.; Rieger, Paul P.; and Richards, Donald K., 3,736,490.
Pavlo, William A., 3,754,445.

General Binding Corporation: *See—*
Morrissey, Neal J., 3,720,808.
Staats, Henry N.; and Levitan, Maurice D., 3,711,355.
Staats, Henry N., 3,720,385.
Staats, Henry N.; and Morrissey, Neal J., 3,720,564.
Staats, Henry N., 3,761,983.

General Cable Corporation: *See—*
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Genaro, Joseph L., to Shur Brite Wax-O-Matic, Inc., mesne. Automatic surface polishing system. 3,774,259, 11-27-73, Cl. 15-97.00r.

Genbaufee, Francis S., to Robertshaw Controls Company. Burner construction and method of making the same or the like. 3,768,131, 10-30-73, Cl. 29-157.00r.

Genbauffe, Francis S., to Robertshaw Controls Company. Fuel control system and control device therefor or the like. 3,739,812, 6-19-73, Cl. 137-625.320.

Genbauffe, Francis S., to Robertshaw Controls Company. Heat motor operated gas valve construction and system and method. 3,750,999, 8-7-73, Cl. 251-11.000.

Genbauffe, Francis S., to Robertshaw Controls Company. Control system and control device therefor or the like. 3,780,940, 12-25-73, Cl. 236-15.00a.

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Gendreu, Robert; and Genuist, Jean, to Thomson-CSF. Independent landing monitoring pulse radar system. 3,775,766, 11-27-73, Cl. 343-5.01s.

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Genesky, Leonard G.; Kottler, Franklin D.; and Allen, Robert F., to Eastman Kodak Company. Projection lamp mounting apparatus. 3,761,170, 9-25-73, Cl. 353-87.000.
Genest, Adrien P.; and Asselin, Jean C. Automotive vehicle parking system. 3,717,266, 2-20-73, Cl. 214-16.1ec.
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Geng, Hellmuth R.; Hajdu, Johann; Skuin, Petar; and Vogt, Edwin, to International Business Machines Corporation. Circuit arrangement for error detection in data processing systems. 3,763,470, 10-2-73, Cl. 340-146.1ag.
Geng, Hellmuth R.; Hajdu, Johann; and Skuin, Petar, to International Business Machines Corporation. Shift unit for variable data widths. 3,781,819, 12-25-73, Cl. 340-172.500.
Genge, Ulrich, to Demag Aktiengesellschaft. Method and apparatus for equalizing the gas pressures of sluice chambers and furnace zones of shaft furnaces, particularly blast furnaces. 3,735,970, 5-29-73, Cl. 266-27.000.
Genger, Horst, to Knox Manufacturing Company. Mounting device for projection screen. 3,750,995, 8-7-73, Cl. 248-324.000.
Geniges, Frank H., to United States of America, Navy. Method and apparatus for encoding and decoding analog signals. 3,746,799, 7-17-73, Cl. 178-22.000.
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Genot, Jeanne, nee Delarbre; Le Grives, Emile; and Berland, Guy, to Office National d'Etudes et de Recherches Aerospatiales (par abreviation O.N.E.R.A.). Rotor blades of rotary machines, provided with an internal cooling system. 3,738,771, 6-12-73, Cl. 41696.000.
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Genta, Guido R., to American Aniline Products, Inc. Arylthioanthraquinones. 3,734,933, 5-22-73, Cl. 260-371.000.
Genta, Guido R., to American Aniline Products, Inc. Polyester materials dyed with styryl dyes. 3,756,778, 9-4-73, Cl. 8-179.000.
Gentellalli, Gerald F. Fletching cover. 3,766,954, 10-23-73, Cl. 150-52.00r.
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Gentile, Anthony R.; and Hauck, Clarence Jonathan, III. Method and apparatus for forming a nonwoven fibrous web. 3,772,107, 11-13-73, Cl. 156-62.800.
Gentile, Frank. Easy opening container. 3,726,432, 4-10-73, Cl. 220-27.000.
Gentile, Ralph; and Calberg, Willis G., to Eastman Kodak Company. Splice tape handling mechanism. 3,775,224, 11-27-73, Cl. 156-506.000.
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Gentiluomo, Joseph A. Digital controlled golf ball teeing apparatus. 3,738,663, 6-12-73, Cl. 253-201.000.
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Genuit, Luther L.; and White, Robert B., to Honeywell Information Systems, Inc. Dual voltage regulator. 3,743,924, 7-3-73, Cl. 323-22.00t.
Genuit, Luther L.; and Nowell, John R., to Honeywell Information Systems, Inc. Lead network to prevent voltage overshoot in a switching regulator. 3,781,636, 12-25-73, Cl. 321-9.00r.
Genzer, Jerome; and Conrad, George, to Warner-Lambert Company. Process for the production of ethyl 8-hydroxy-1 3-dioxolo(4,5G)-quinoline-7-carboxylate. 3,725,413, 4-3-73, Cl. 260-287.00r.
Geoffray, Marcel. Process and apparatus for the taking of photographs in relief. 3,731,606, 5-8-73, Cl. 95-18.00p.
Geoffrey, David Charles, to Stanley Works, The. Garage door opener with instant reverse mechanism. 3,764,874, 10-9-73, Cl. 318-266.000.
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George, Ben B., Jr., to Shelly Associates, Inc. Electrical display device and method of making the same. 3,755,663, 8-28-73, Cl. 240-10.00r.
George, Charles R., to Halliburton Company. High temperature cementing composition containing a lignosulfonic acid salt and a pentaboric acid salt. 3,748,159, 7-24-73, Cl. 106-90.000.
George, Daniel J.; and Patterson, William C., to Aluminum Company of America. Cooking utensil assembly. 3,724,711, 4-3-73, Cl. 220-63.00r.
George, D'Arcy R.; and Ross, John R., to United States of America, Interior. Uranium recovery. 3,743,695, 7-3-73, Cl. 423-8.000.
George, Darcy R.; and Ross, J. Richard, to United States of America, Interior. Ion exchange process. 3,773,889, 11-20-73, Cl. 423-6.000.
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George, Howard Edward; and Guertin, Jean Marie, to Amsted Industries Incorporated. Apparatus for making brake shoes. 3,732,045, 5-8-73, Cl. 425-117.000.
George, Jay R., to Armstrong Cork Company. Glass-organic fiber scrim for flooring. 3,733,239, 5-15-73, Cl. 161-89.000.
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George, Lawrence C.; Ballard, Lee N.; and Feeler, Vernon H., to United States of America, Interior. Neutralization of metal containing wastes. 3,736,239, 5-29-73, Cl. 204-108.000.
George, Lee R.; and Hauenstine, Edgar F., to Mallory, P. R., & Co., Inc. Control with rotor and shaft assembly. 3,728,511, 4-17-73, Cl. 200-168.00b.
George, Leslie C., Jr. Expansible fluid rotary engine. 3,762,842, 10-2-73, Cl. 418-61.000.
George Lithograph Company: *See—*
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George, McCona L., to Bacon, Charles H., Company, mesne. Apparatus for measuring elastic fed to a sewing machine. 3,721,203, 3-20-73, Cl. 112-121.260.
George, Michael D.; Varano, Dominick J.; Bronson, George K.; Kitchin, Nelson L.; and Rose, William W., Jr., to General Motors Corporation. Vibratory shakeout apparatus. 3,749,151, 7-31-73, Cl. 164-260.000.
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George, Percy F., to Dow Chemical Company, The. Consumable magnesium anode with a tin-coated, ferrous metal core wire. 3,742,588, 7-3-73, Cl. 29-458.000.
George, Percy F., to Dow Chemical Company, The. Metal structures which are self-destructible by chemical corrosion. 3,744,664, 7-10-73, Cl. 220-10.000.
George, Percy F., to Dow Chemical Company, The. Self-destructing metal structures. 3,764,459, 10-9-73, Cl. 161-225.000.
George, Percy F., to Dow Chemical Company, The. Galvanically-destructing metal structures. 3,772,139, 11-13-73, Cl. 161-225.000.
George, Philip D.; and Boudreau, Robert J., to General Electric Company. Impregnated capacitor. 3,772,578, 11-13-73, Cl. 317-258.000.
George, Robert. Apparatus for fragmenting scrap metal. 3,768,739, 10-30-73, Cl. 241-65.000.
George, Robert A., to Collins Radio Company. Method and means for detecting error rate of transmitted data. 3,721,959, 3-20-73, Cl. 340-146.1ax.
George, Robert J. Aerial toy. 3,768,762, 10-30-73, Cl. 244-155.00r.
George, Stuart W.; and Bucciero, Henry R. Combined tool and holder. 3,752,020, 8-14-73, Cl. 82-36.00r.
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George, Thomas F.; and Lange, Daniel J., to George, P. D., Company, The. Bridged isocyanurates. 3,737,432, 6-5-73, Cl. 260-248.0ns.
George, Warren T.; and Mason, Donald E. Portable layover units. 3,711,878, 1-23-73, Cl. 5-133.000.
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George, William L., to Motorola, Inc. Process for making a fine geometry, self-aligned device structure. 3,725,150, 4-3-73, Cl. 148-187.000.
George, William Lloyd; and Price, James Brian, to Motorola, Inc. Controlled anistropic etching process for fabricating dielectrically isolated field effect transistor. 3,755,012, 8-28-73, Cl. 148-175.000.
Georgely, Gerhard, to Societe Francaise de Developpement et de Recherche Sofrader. Method for the manufacture of effervescent tablets. 3,773,922, 11-20-73, Cl. 424-44.000.
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Georges, Richard P. Orchard heater. 3,744,476, 7-10-73, Cl. 126-59.500.
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Georgi, Heinz W., to Ivac Corporation. Parenteral administration fluid flow control system. 3,736,930, 6-5-73, Cl. 128-214.00e.
Georgi, Heinz W., to Ivac Corporation. Fluid flow control apparatus. 3,756,556, 9-4-73, Cl. 251-7.000.
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Georgiana, Joseph M.; Rolls, James A.; Voss, Donald R.; Mierzwa, Anthony M.; and Paradis, Robert A., to Diamond Shamrock Corporation. Rigid polyvinyl chloride resin powder composition for extrusion processes. 3,775,359, 11-27-73, Cl. 260-23.70r.
Georgiev, Anatoly Konstantinovich; and Goldfarb, Veniamin Iosifovich. Orthogonal skew-axis gearing. 3,768,326, 10-30-73, Cl. 74-425.000.
Georgiev, Tancho; and Scanzani, Robert M. Modular building construction system. 3,712,008, 1-23-73, Cl. 52-79.000.
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Georgopoulos, Christos J., to Raytheon Company. Phased array antenna controller. 3,737,899, 6-5-73, Cl. 343-5.00r.
Georgopulos, Thomas, to GTE Automatic Electric Laboratories, Incorporated. Telephone type electrical connectors. 3,760,328, 9-18-73, Cl. 339-18.00r.
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Gerace, Robert E., to Xerox Corporation. Control system. 3,781,548, 12-25-73, Cl. 250-206.00r.
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Gerard, Paul, to Societe Generale d'Entreprises. Thermal power station. 3,769,943, 11-6-73, Cl. 122-510.000.
Gerard, William L.; and Pregont, Jack E., to Sherwood Medical Industries, Inc. Cup tray and container. 3,724,654, 4-3-73, Cl. 206-72.000.
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Gerauer, Ernst A., to Metron Corporation. Non-slip linear to rotary motion conversion apparatus. 3,709,049, 1-9-73, Cl. 74-89.200.
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Gerbasi, Dennis P., to Xerox Corporation. Transport for particulate material. 3,752,576, 8-14-73, Cl. 355-15.000.
Gerber, Albert. Articulator for constructing artificial teeth. 3,772,788, 11-20-73, Cl. 32-32.000.
Gerber, Arthur H., to Horizons Incorporated. Acid addition salts of 2,3,5,6-tetraaminopyridine and a process for their preparation. 3,740,410, 6-19-73, Cl. 260-295.00s.
Gerber, Arthur M. Process for the continuous recovery of materials from sea water. 3,763,049, 10-2-73, Cl. 252-301.10r.
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Gerber, Heinz Joseph, to Gerber Scientific Instrument Company, The. Apparatus for selectively exposing a photosensitive surface. 3,724,347, 4-3-73, Cl. 95-12.000.
Gerber, Heinz Joseph; and Pearl, David R., to Gerber Garment Technology, Inc. Apparatus for cutting and drilling sheet material. 3,730,634, 5-1-73, Cl. 408-22.000.
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Gerber, Heinz Joseph, to Gerber Garment Technology, Inc. Apparatus and method for cutting sheet material with chopping type blade motion. 3,732,764, 5-15-73, Cl. 83-34.000.
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Gerber, Heinz Joseph; and Pearl, David Raymond, to Gerber Garment Technology, Inc. Vacuum hold-down apparatus. 3,765,289, 10-16-73, Cl. 83-452.000.
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Gerber, Lewis, to Aero Service Corporation. Automatic lens changer. 3,767,295, 10-23-73, Cl. 352-79.000.
Gerber, Melvin N.; and Reaves, Woodrow W., to United States of America, Army. Plastic bonded smoke. 3,726,225, 4-10-73, Cl. 102-65.000.
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Gerbig, Hans-Erwin; and von Starck, Axel, to AEG-Elotherm GmbH. Electromagnetic conveyor for molten metal. 3,754,634, 8-28-73, Cl. 198-41.000.
Gerd, Hoelzle; and Ulrich, Paul, to Ciba-Geigy AG. Quaternary substituted triazines. 3,732,218, 5-8-73, Cl. 260-248.0ns.
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Gerdes, Theo, to Blau K.G. Fabrik fuer Kraftfahrzeughteile. Screw cap with lock. 3,750,434, 8-7-73, Cl. 70-172.000.
Gerdin, Yngve, to Sandvik Aktiebolag. Means for fastening cutting dies on a base plate. 3,739,676, 6-19-73, Cl. 83-698.000.
Gerding, Charles Christian, to Jones & Laughlin Steel Corporation. Method of cooling drum type strip casting apparatus. 3,712,366, 1-23-73, Cl. 164-87.000.
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Gerding, John E.: *See—*
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Gerhold, Clarence G., to Universal Oil Products Company. Carburetor control system and method for regulating air to fuel ratio. 3,730,157, 5-1-73, Cl. 123-119.00r.
Gerholt, Willem, to Industriele Onderneming Wavin N.V. Method for manufacturing a perforated tube. 3,709,972, 1-9-73, Cl. 264-236.000.
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Gerich, Anton J., to Therm-O-Disc, Incorporated. Bimetallic snap disc and method and apparatus for making same. 3,748,888, 7-31-73, Cl. 72-375.000.
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Gerke, Peter; Bock, Helmuth-Joachim; and Sennefelder, Anton, to Siemens Aktiengesellschaft. Switching circuit arrangement for cross-wire control apparatus for communication system. 3,723,660, 3-27-73, Cl. 179-18.0gg.
Gerke, Peter; Bock, Helmuth-Joachim; and Sennefelder, Anton, to Siemens Aktiengesellschaft. Cross field system with bistable polarized relays. 3,739,101, 6-12-73, Cl. 179-180.00e.
Gerken, Carl F.; and Bales, Emmett R., to American Standard, Inc. Folding table and seat support structure. 3,715,143, 2-6-73, Cl. 297-159.000.
Gerken, Carl F., to American Standard, Inc. Coilable partition with passdoor. 3,717,194, 2-20-73, Cl. 160-25.000.
Gerken, Carl F., to American Standard, Inc. Curved track with plastic liner. 3,729,044, 4-24-73, Cl. 160-201.000.
Gerkens, Dirk R. D'Arnaud, to Nibb-It Products Association Ltd. Method of making an expanded crisp snack food product. 3,753,735, 8-21-73, Cl. 99-100.00p.
Gerlach, Albrecht; and Burth, Rolf-Dieter, to ITT Industries, Inc. Circuit for phase comparison. 3,742,249, 6-26-73, Cl. 307-232.000.
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Gerlach, Horst W. A., to United States of America, Army. Microwave oscillator with coaxial leakage output coupling. 3,718,869, 2-27-73, Cl. 331-96.000.
Gerlach, Johannes; and Gock, Eberhard, to Metallgesellschaft Aktiengesellschaft. Method of refining nonferrous sulfide arsenide and antimonide mineral substances. 3,777,005, 12-4-73, Cl. 423-27.000.
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Gerlach, John R., to Emhart Corporation. Single engagement permanently secured keyless lock. 3,730,578, 5-1-73, Cl. 292-318.000.
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Gerlovich, Albert F.; and Dunbeker, George H., to Rheem Manufacturing Company. Process for preventing fluid leakage in extrusion blow molding. 3,733,384, 5-15-73, Cl. 264-98.000.
Gerlovich, Albert F., to Rheem Manufacturing Company. Automatic machine for spraying the interior of container shells. 3,741,149, 6-26-73, Cl. 118-2.000.
Germain, Andrew Gerald; and Wiles, Donald Ray, to Amsted Industries Incorporated. Permanent mold risering. 3,735,796, 5-29-73, Cl. 164-23.000.
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German, Louis E., to Morton Buildings, Inc. Down pressure assembly for truck mounted auger. 3,710,875, 1-16-73, Cl. 173-28.000.
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Germann, Albrecht, to Schnellpressenfabrik Koenig & Bauer Aktiengesellschaft. Plate clamping device for intaglio printing presses. 3,750,571, 8-7-73, Cl. 101-415.100.
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Germer, John A., to Budd Company, The. Vertical railway spring suspension system. 3,707,928, 1-2-73, Cl. 105-210.000.
Germer, John A. Brake spring apparatus. 3,708,039, 1-2-73, Cl. 188-62.000.
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Gernert, Herbert; Glockner, Hans; Meier, Ernst; Ohlschlager, Hans; and Riester, Oskar, to Agfa-Gevaert Aktiengesellschaft. Photographic material. 3,778,273, 12-11-73, Cl. 96-84.00r.
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Gerod, John T. Steam control method and apparatus for fabric pressing machine. 3,738,385, 6-12-73, Cl. 137-606.000.
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Gerosa, Augusto; and Martini, Marco, to Comitato Nazionale per l'Energia Nucleare. Fuel element for fast reactors with a device for exhausting the fission gases therefrom. 3,748,230, 7-24-73, Cl. 176-78.000.
Gerow, Clare William; and Sparapany, John Joseph, to Du Pont de Nemours, E. I., and Company. Interdiffusionally bonded structures of polyimide and fluoropolymer. 3,770,566, 11-6-73, Cl. 161-189.000.
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Gersbach, John Edwin, to International Business Machines Corporation. Pseudo-hierarchy memory system. 3,736,574, 5-29-73, Cl. 340-173.00r.
Gersbeck, Rolf, to Berstorff, Hermann, Maschinenbau, G.m.b.H. Vulcanising of rubber and other like sheet material. 3,726,627, 4-10-73, Cl. 425-371.000.
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Gerst, Carl W., to Anaren Microwave, Incorporated. Method and apparatus for binary data. 3,745,250, 7-10-73, Cl. 178-88.000.
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Ghwaki, Isao, to Victor Company of Japan, Limited. System for cutting and recording on a record disc. 3,772,467, 11-13-73, Cl. 179-100.4st.
Ghys, Theofiel Hubert: *See—*
Depoorter, Henri; and Ghys, Theofiel Hubert, 3,752,673.
Depoorter, Henri; and Ghys, Theofiel Hubert, 3,765,900.
Florens, Raymond Leopold; and Ghys, Theofiel Hubert, 3,759,713.
Poot, Albert Lucien; Van Besauw, Jan Frans; and Ghys, Theofiel Hubert, 3,734,733.
Schellekens, Jozef Remy; Ghys, Theofiel Hubert; and Depoorter, Henri, 3,765,901.
Van Pee, Paul Desire; Depoorter, Henri; Ghys, Theofiel Hubert; Berendsen, Jules Robert; and Vanassche, Willy Joseph, 3,745,015.
Ghys, Theofiel Hubert; Willems, Jozef Frans; and Van Veelen, George Frans, to Agfa-Gevaert N.V. Tetra-alkyl β-phenylene diamine with aromatic primary amino color developing agent. 3,767,403, 10-23-73, Cl. 96-55.000.
Giachetti, Alfredo: *See—*
Pieracci, Angiolo; and Giachetti, Alfredo, 3,769,814.
Giacini, Christopher: *See—*
Mookherjee, Braja D.; Giacini, Christopher; Karoll, Elizabeth A.; and Vock, Manfred H., 3,711,482.
Giacino, Christopher: *See—*
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Giacobbe, Thomas J.: *See—*
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Giacobbe, Thomas J.; and Edamura, Fred Y., to Dow Chemical Company, The. 2-(Substituted-phenyl)-τ-amino-alkan(thio)oate,-alken (thio)oate and -alkyn(thio)oate compounds. 3,766,244, 10-16-73, Cl. 260-471.00a.
Giacomello, Giacomo; Pedrazzini, Andrea; and Franzolini, Luciano. System of mechanical coupling for piloting rotative transducers. 3,777,577, 12-11-73, Cl. 74-89.220.
Giacone, Joseph; and Schulman, Marvin, to General Foods Corporation. Centrifugal coffee roasting. 3,725,082, 4-3-73, Cl. 99-68.000.
Giacosa, Dante, to Sira Societa Industriale Reicerche Automotoristiche. Jet propulsion unit for boats. 3,750,614, 8-7-73, Cl. 115-17.000.
Giaggi, Jacques, to Escher Wyss Aktiengesellschaft. Fluidised bed device. 3,768,174, 10-30-73, Cl. 34-164.000.
Giaimo, Edward Charles, Jr., to RCA Corporation. Magneto-electric apparatus for reproducing an image on a recording element. 3,712,733, 1-23-73, Cl. 355-3.000.
Giaimo, Edward Charles, Jr., to RCA Corporation. Method of transferring magnetic toner particles in an image configuration and apparatus therefor. 3,721,553, 3-20-73, Cl. 96-1.400.
Giallorenzi, Thomas G., to United States of America, Navy. High power beam combiner. 3,743,383, 7-3-73, Cl. 350-170.000.
Giallorenzi, Thomas G.; and Reilly, Michael H., to United States of America, Navy. Frequency selective optical isolator. 3,757,247, 9-4-73, Cl. 331-94.500.
Giambalvo, Vito Albert: *See—*
Thomas, Daniel Walter; and Giambalvo, Vito Albert, 3,749,590.
Giambalvo, Vito Albert, to American Cyanamid Company. Ammonium salt treated sulfonated phthalocyanines. 3,754,958, 8-28-73, Cl. 106-308.00n.
Giambazi, James D. Ski pole basket. 3,743,311, 7-3-73, Cl. 280-11.37z.
Giamei, Anthony: *See—*
Tschinkel, Johann G.; Giamei, Anthony; and Kearn, Bernard H., 3,763,926.
Giamei, Anthony F.: *See—*
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Giammarco, Giuseppe, 1/2 to Vetrocope Cokapuania S.p.A. Gas purification process. 3,714,327, 1-30-73, Cl. 423-220.000.
Giammarco, Guiseppe; and Giammarco, Paolo, 1/2 to Vetrocoke Cokapuania S.p.A., mesne and 1/2 to Giammarco, Giuseppe. Process for eliminating $CO_2$ and/or $H_2S$ from gaseous mixtures. 3,725,529, 4-3-73, Cl. 423-223.000.
Giammarco, Paolo: *See—*
Giammarco, Guiseppe; and Giammarco, Paolo, 3,725,529.
Giampalmi, John J., Jr.; and Oldford, William G., to Dow Chemical Company, The. Dry cleaning solvent filter. 3,730,347, 5-1-73, Cl. 210-266.000.
Gianatasio, Henry L.: *See—*
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Gianesc, Goffredo, to AMF Incorporated. Apparatus for feeding and cutting web material. 3,757,619, 9-11-73, Cl. 83-65.000.
Gianese, Goffredo, to AMF Incorporated. Labelling device. 3,758,103, 9-11-73, Cl. 271-4.000.
Gianese, Goffredo, to AMF Incorporated. Paper feeder for packaging machines. 3,761,076, 9-25-73, Cl. 271-95.000.
Gianese, Goffredo, to AMF Incorporated. Device for accompanying and supporting a continuous cigarette rod in the cutting area. 3,772,952, 11-20-73, Cl. 83-310.000.
Giangiulio, Clayton E. Multi-purpose cutting device. 3,765,288, 10-16-73, Cl. 83-408.000.
Giangrasso, Joseph A. Power transfer device. 3,714,852, 2-6-73, Cl. 81-57.300.
Giani, Aleardo, to Honeywell Information Systems Italia S.p.A. Control system for high-speed printing machines. 3,742,845, 7-3-73, Cl. 101-93.00c.
Giani, Celestino; and Valducci, Roberto, to Eurand S.p.A. Apparatus for laboratory testing of sustained release drugs. 3,742,190, 6-26-73, Cl. 219-389.000.
Gianini, Giovanni: *See—*
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Giannetto, Anthony D.: *See—*
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Giannone, Charles: *See—*
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Giannone, Guy E.: *See—*
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Giannotti Associates: *See—*
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Giannotti, Hugo V., to Giannotti Associates. Apparatus and method

Giannotti, Hugo V., to Giannotti Associates. Apparatus and method for separating particles from a flow of fluid. 3,725,271, 4-3-73, Cl. 210-65.000.
Giannuzzi, Louis N., to Die Cast and Forge Company, Inc., mesne. Anchor bolt. 3,766,819, 10-23-73, Cl. 85-77.000.
Gianopulos, William, to International Business Machines Corporation. Cathode ray deflection system using field effect transistors. 3,746,913, 7-17-73, Cl. 315-27.0td.
Giant Behemoth Industries: *See*—
Mincy, David R., 3,762,082.
Giaque, Harrie A. Device for opening wrappers of foodstuffs. 3,720,303, 3-13-73, Cl. 206-46.00f.
Giardina, Giovanni; and Lombardo, Giovanni, to Italsider S.p.A. Method for the automatic electric welding of angle metal plates through three arcs in series, in a single passing operation. 3,752,953, 8-14-73, Cl. 219-137.000.
Giarrusso, Frederick F.: *See*—
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Giatti, Filippo, to AMF Incorporated. Filter plug offset. 3,712,162, 1-23-73, Cl. 83-102.000.
Giatti, Filippo, to AMF Incorporated. Device for the continuous handling of rodlike articles particular cigarettes perfectly aligned in rows. 3,771,639, 11-13-73, Cl. 198-25.000.
Giattino, Louis: *See*—
Catanzarite, Vincent O., 3,773,351.
Gibb, John, to Victaulic Company of America. Stud system of joining pipe and couplings for same. 3,756,629, 9-4-73, Cl. 285-112.000.
Gibb, Thomson B.: *See*—
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Gibbard, David William: *See*—
Gardner, Gerald Marvin; and Gibbard, David William, 3,740,468.
Gibbins, Frank Billington. Propeller driven boats. 3,744,446, 7-10-73, Cl. 115-39.000.
Gibble, Walter P.: *See*—
Papahronis, Basil T.; and Gibble, Walter P., 3,780,076.
Gibble, Walter P., to Hunt-Wesson Foods, Inc. Process for improving the cooking stability of soybean oil. 3,758,532, 9-11-73, Cl. 260-420.000.
Gibbon, Enrique T.: *See*—
Fonseca, Marco A.; Gibbon, Enrique T.; and Gonzalle, Jose J., 3,756,270.
Gibbon, John D. Fibrillation process. 3,707,837, 1-2-73, Cl. 57-157.00f.
Gibbon, John D., to Fiber Industries, Inc. Fibrillation jet. 3,727,392, 4-17-73, Cl. 57-77.300.
Gibbon, John D.; and Mc Carthy, Stanley. Parting-off box for automatic screw machines. 3,736,819, 6-5-73, Cl. 82-2.500.
Gibbon, Robert Muir: *See*—
Flannigan, William Tait; and Gibbon, Robert Muir, 3,763,198.
Gibbons Brothers Limited: *See*—
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Gibbons, Carl B., to Eastman Kodak Company. Material edge detecting apparatus. 3,749,632, 7-31-73, Cl. 156-364.000.
Gibbons, Carl B.; Kerr, William C.; and Maddocks, Roger H., to Eastman Kodak Company. Web treatment apparatus and methods. 3,757,163, 9-4-73, Cl. 317-2.00r.
Gibbons, Carl L.; and Reinecke, Charles E., to Dow Chemical Company, The. Brominated phosphates. 3,732,342, 5-8-73, Cl. 260-950.000.
Gibbons, Douglas: *See*—
Brough, Denys William; and Gibbons, Douglas, 3,735,577.
Gibbons, Edward J.: *See*—
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Gibbons, Edward J.; and Daigle, Norman O., said Daigle assor. to said Gibbons, Edward J. Hollow stamp handle. 3,759,180, 9-18-73, Cl. 101-405.000.
Gibbons, Gregory J., to Lee, Raymond, Organization, Inc., The. Combined wheel barrow and hand truck. 3,743,312, 7-3-73, Cl. 280-47.180.
Gibbons, Hugh P.: *See*—
Beninga, Duane H.; and Gibbons, Hugh P., 3,767,518.
Gibbons, James F. Enhancement of diffusion of atoms into a heated substrate by bombardment. 3,718,502, 2-27-73, Cl. 117-212.000.
Gibbons, James H. Mold cavity locking apparatus. 3,743,469, 7-3-73, Cl. 425-450.000.
Gibbons, Loren Kenneth, to FMC Corporation. Arylisoxazoles as nematicides. 3,781,438, 12-25-73, Cl. 424-272.000.
Gibbs, Gerald W., to Consolidated Foods Corporation. Lubrication system. 3,753,528, 8-21-73, Cl. 239-61.000.
Gibbs, Gilbert Leslie; and Davies, Timothy Muir, to Robinson, E S & A Limited. Decorated or printed containers. 3,715,073, 2-6-73, Cl. 229-43.000.
Gibbs, James W.: *See*—
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Gibbs, John H.: *See*—
Bereday, Sigmund; Kolic, Edwin S.; Lutz, Garson A.; Grotta, Henry M.; and Gibbs, John H., 3,734,784.
Gibbs, John L.; and Gibbs, James W. Anti-reverse flow valve. 3,711,063, 1-16-73, Cl. 251-276.000.
Gibbs, Paul H., Sr. Hose-case assembly. 3,730,228, 5-1-73, Cl. 138-106.000.
Gibbs, Raymond: *See*—
Backlund, John G.; and Gibbs, Raymond, 3,756,529.
Gibbs, Robert K. Composite container. 3,729,112, 4-24-73, Cl. 220-17.000.
Gibbs, Thomas T. Exercising apparatus. 3,762,703, 10-2-73, Cl. 272-73.000.
Gibel, Stephen J. Multiple collimator muffler. 3,715,010, 2-6-73, Cl. 181-50.000.
Gibel, Stephen J. Expansion chambered, pressure relief muffler. 3,718,208, 2-27-73, Cl. 181-50.000.
Gibel, Stephen J. Dead-endable self-pressure regulating air nozzle. 3,762,653, 10-2-73, Cl. 239-541.000.
Gibellina, Michael C. Pool cleaning device. 3,718,148, 2-27-73, Cl. 134-167.00r.
Gibert, Pierre Antoine Theophile. Device for machining a workpiece by a flow turning operation. 3,779,109, 12-18-73, Cl. 82-2.500.
Gibier-Rambaud, Alain; and Blanc, Bernard. Process for the preparation of polyurethane prepolymers comprising terminal isocyanate groups. 3,723,394, 3-27-73, Cl. 260-77.5aa.
Gibney, Lloyd W., to American Optical Corporation. Extrusion die. 3,770,357, 11-6-73, Cl. 425-131.000.
Gibs, Gabriel Joseph: *See*—
Weiss, Martin Joseph; Gibs, Gabriel Joseph; Poletto, John Frank; and Remers, William Alan, 3,758,501.
Gibsen, Kenneth F.; and Saddington, Arthur W., to Kelco Company. Applying agricultural chemicals with xanthomonas hydrophillic colloids. 3,717,452, 2-20-73, Cl. 71-117.000.
Gibson, Archibald M., Jr., to General Electric Company. Method of manufacturing type fingers. 3,763,544, 10-9-73, Cl. 29-407.000.
Gibson Associates, Incorporated: *See*—
Grimaldi, Anthony J.; Kachur, Nicholas W.; and Tomburo, Anthony F., 3,773,203.
Gibson, Cleo E.; and Gibson, Lee Ben. Soap cone and holder. 3,729,421, 4-24-73, Cl. 252-90.000.
Gibson, Curtis E. Seat attachment for boats. 3,718,365, 2-27-73, Cl. 297-349.000.
Gibson, Daniel L.: *See*—
Coulter, Albert W., Jr.; Gibson, Daniel L.; and Nimerick, Kenneth H., 3,743,613.
Coulter, Albert W., Jr.; Gibson, Daniel L.; and Nimerick, Kenneth H., 3,763,934.
Gibson, David K.; and Johnson, Frederick W., to International Business Machines Corporation. Photoconductor discharge shutter assembly. 3,724,942, 4-3-73, Cl. 355-3.000.
Gibson, Earl D., to North American Rockwell Corporation. Automatic decision threshold adjustment. 3,736,511, 5-29-73, Cl. 325-321.000.
Gibson, Earl D., to North American Rockwell Corporation. Coarse initial timing recovery circuit. 3,745,248, 7-10-73, Cl. 178-69.50r.
Gibson, Earl D., to North American Rockwell Corporation. System for correcting detected errors in a high speed digital data transmission system. 3,747,065, 7-17-73, Cl. 340-146.10r.
Gibson, Earl D., to North American Rockwell Corporation. Digit error detector. 3,757,296, 9-4-73, Cl. 340-146.0ab.
Gibson, Elvin H., to Resources, Incorporated. Ground rod driver. 3,732,935, 5-15-73, Cl. 173-28.000.
Gibson, Fred D., Jr.; Rhees, Raymond C.; Gibson, James I.; and Halker, Bruce B., to Pacific Engineering & Production Company of Nevada. Method and apparatus for electrolytic treatment of sewage. 3,764,500, 10-9-73, Cl. 204-152.000.
Gibson, Geoffrey M.: *See*—
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Gibson, Harold F.: *See*—
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Gibson, Harry T. Methods of and apparatus for detecting minute holes in objects. 3,710,129, 1-9-73, Cl. 250-219.0df.
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Paul, Les, 3,725,561.
Gibson, James I.: *See*—
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Gibson, James O.; Schumacher, Robert L.; and Myler, Kay L., to McDonnell Douglas Corporation. Composites having low thermal expansion. 3,736,159, 5-29-73, Cl. 106-56.000.
Gibson, James O.; Schumacher, Robert L.; and Myler, Kay L., to McDonnell Douglas Corporation. Low thermal expansion composites. 3,766,000, 10-16-73, Cl. 161-170.000.
Gibson, James O.; Schumacher, Robert L.; and Gore, Thomas W., to McDonnell Douglas Corporation. Refractory composites. 3,770,487, 11-6-73, Cl. 117-46.0ca.



Gibson, James W.; Videtto, Donald A.; and Linse, Richard C., to General Electric Company. Barrel forming press. 3,729,969, 5-1-73, Cl. 72-127.000.
Gibson, James William; and Gibson, James William, Jr. Match holder. 3,781,051, 12-25-73, Cl. 294-1.00r.
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Gibson, James William; and Gibson, James William, Jr., 3,781,051.
Gibson, John C.; Fuchs, Siegfried H.; and Vaniman, Robert S., to GTE Automatic Electric Laboratories, Incorporated. Trunk circuit identification. 3,761,635, 9-25-73, Cl. 179-18.0fh.
Gibson, John James; and Peterson, Donald William, to RCA Corporation. Physically small combined loop and dipole all channel television antenna system. 3,721,990, 3-20-73, Cl. 343-726.000.
Gibson, John W.: *See*—
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Gibson, Lee Ben: *See*—
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Gibson, Robert V.,: *See*—
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Gibson, Roger E.: *See*—
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Gibson, Stan. Water float with paddle extension means. 3,714,921, 2-6-73, Cl. 115-28.00r.
Gibson, Steve B.; Lyttle, William B.; and Repasy, Andy J., to United States of America, Army. Uncooled gallium-aluminum-arsenide laser illuminator. 3,760,175, 9-18-73, Cl. 240-1.0el.
Gibson, Tony Leon: *See*—
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Gibson, Walter Maxwell; and Hutson, Andrew Rhodes, to Bell Telephone Laboratories, Incorporated. Impurity patterns produced by ion implantation. 3,709,741, 1-9-73, Cl. 148-1.500.
Gicca, Francis A., to Raytheon Company. Satellite communication system. 3,710,255, 1-9-73, Cl. 325-4.000.
Gicca, Francis A.; Passavant, Francis C.; Stebbins, William W.; and Worters, Allen J., to GTE Sylvania Incorporated. Display system with graphic fill-in. 3,778,811, 12-11-73, Cl. 340-324.0ad.
Gicca, Francis A.; Passavant, Francis C.; and Worters, Allen J., to GTE Sylvania Incorporated. Television type display system for displaying information in the form of curves or graphs. 3,781,850, 12-25-73, Cl. 340-324.0ad.
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Giddings & Lewis, Inc.: *See*—
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Murphy, David Duncan; and Giddings, David George, 3,778,338.
Giddings, Edward H. Gasification method and apparatus. 3,746,521, 7-17-73, Cl. 48-111.000.
Gidge, Lester, to Monsanto Company. Non-tear seams produced by radio frequency means. 3,725,189, 4-3-73, Cl. 161-146.000.
Gidge, Lester; and Poulin, Valmor R., Jr., to Burlington Industries, Inc. Apparatus for making garments from sheet material. 3,726,745, 4-10-73, Cl. 156-510.000.
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Gidick, Ward F., to Koppers Company, Inc. Reversing mechanism for coke oven battery. 3,751,342, 8-7-73, Cl. 202-141.000.
Gidlof, Karl Gunnar. Stand for Christmas trees. 3,779,493, 12-18-73, Cl. 248-44.000.
Giebel, Buddy E.; and Calia, Charles, to Union Camp Corporation. Box with interlocking inner wall panels. 3,727,824, 4-17-73, Cl. 229-16.00r.
Giebel, Buddy E.; and Nation, William H., to Union Camp Corporation. Box with five panel ends. 3,756,499, 9-4-73, Cl. 229-34.00r.
Giebel, Gerhard; and Fichtner, Rudi, to USM Corporation. Support for a shoe lasting machine. 3,715,768, 2-13-73, Cl. 12-125.000.
Giebel, Joseph L.: *See*—
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Giebel, Joseph L.; and Temple, Ernest E., to Mine Safety Appliances Company. Self-cocking explosively actuated cable cutter. 3,780,689, 12-25-73, Cl. 114-221.00a.
Giebel, Walter C. Agitator assembly for recovery of minerals. 3,778,034, 12-11-73, Cl. 259-107.000.
Giebeler, Robert Henry, to Varian Associates. High power beam tube having depressed potential collector containing field-shaping probe. 3,780,336, 12-18-73, Cl. 315-5.380.
Giebler, Fritz: *See*—
Jaskulke, Gerhard; Mayer, Max; Lampe, Bernst; Giebler, Fritz; and Steigenberger, Hasso, 3,717,723.
Giebler, Fritz, to Siemens Aktiengesellschaft. Method and apparatus for detecting terminal signals in centrally controlled telecommunication installations. 3,718,782, 2-27-73, Cl. 179-18.00j.
Giegerich, Raymond W., to Lovejoy, Inc. Pulley assembly. 3,736,804, 6-5-73, Cl. 74-230.17c.
Giegle, G., & Co., GmbH: *See*—
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Gier, Delta W.; and Wasleski, Daniel M., to Baychem Corporation, mesne. Process of killing undesired weeds. 3,738,823, 6-12-73, Cl. 71-108.000.
Gieringer, Carl K.; Kleimeyer, Vernon T.; Schinner, Thomas J.; Singer, Paul A.; and Zimmer, Ernest B., to Cincinnati Time Recorder Company, Inc. Automatic fee determining system for parking garage. 3,760,160, 9-18-73, Cl. 235-61.70r.
Gieringer, Carl K.; Kleimeyer, Vernon T.; Schinner, Thomas J.; and Singer, Paul A., to Cincinnati Time Recorder Company, Inc. Automatic fee determining system for parking garages. 3,775,593, 11-27-73, Cl. 235-61.80a.
Gieringer, Robert G.; Gieringer, Robert H.; and Gierlnger, William A., to Diehl, H. L., Co., Inc. Pallet wagon for sod pick-up machine. 3,740,066, 6-19-73, Cl. 280-32.500.
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Gieringer, William A.: *See*—
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Gierlach, Robert W.: *See*—
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Giers, Alfred J.; Widmann, Friedhelm; and Heiland, Manfred, to Schenck, Carl, Maschinenfabrik GmbH, Firma. Substantially rigid bearing mounting for rotary bodies. 3,754,801, 8-28-73, Cl. 308-15.000.
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Giese, Ralf; Korner, Paul; and Rauthmann, Axel, to Ford Motor Company. Safety seat with a safety belt, in particular for motor vehicles. 3,761,127, 9-25-73, Cl. 297-389.000.
Giesecke, Albert S. Closed-open sign. 3,748,767, 7-31-73, Cl. 40-65.000.
Giesecke, Henry A., to Apromat, Incorporated. Lens system with selective image reversion. 3,716,291, 2-13-73, Cl. 350-203.000.
Giesemann, Rolf: *See*—
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Giesfeldt, William Otto; and Pinnow, Roy Lee, to Globe-Union, Inc. Ohmic contact and composition. 3,767,438, 10-23-73, Cl. 106-193.00j.
Giesselmann, Gunter; Schreyer, Gerd; and Weigert, Wolfgang, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of hydrogen peroxide. 3,767,778, 10-23-73, Cl. 423-588.000.
Giesselmann, Hannes, to Husqvarna Vapenfabriks Aktiebolag. Portable sewing machine with accessories. 3,745,952, 7-17-73, Cl. 112-258.000.
Giessler, Horst; Lorenz, Klaus; Brutschin, Gerhard; and Walti, Marc, to Rene Blaser, Hebe- und Maschinenbau, Firma and Translift Gesellschaft fur Hebe- und Forderanlagen m.b.H. Central conveying system. 3,743,116, 7-3-73, Cl. 214-16.40r.
Gievers, John George, to Chrysler Corporation. Monitoring relative displacement. 3,773,421, 11-20-73, Cl. 356-152.000.
Giffen, James W., to Corning Glass Works. Mold assembly. 3,728,098, 4-17-73, Cl. 65-361.000.
Giffin, George S.: *See*—
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Giffith Laboratories, Inc., The: *See*—
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Giffon, James W., to Corning Glass Works. Method for forming subsurface fortified laminates. 3,746,526, 7-17-73, Cl. 65-121.000.
Gifford, Harry D., to Tidland Corporation. Mechanical variable torque chuck. 3,774,921, 11-27-73, Cl. 279-2.000.
Gifford, Henry A. Mechanical pile driving hammer. 3,743,030, 7-3-73, Cl. 173-124.000.
Gifford, Howard W.: *See*—
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Merrill, Charles E.; and Gifford, Joseph H., 3,722,134.

Merrill, Charles E.; and Gifford, Joseph H., 3,722,134.
Gifford, Robert T., to Vernay Laboratories, Inc. Thermally responsive valve assembly. 3,719,322, 3-6-73, Cl. 236-102.000.
Gifford, Robert T., to Vernay Laboratories, Inc. Vacuum check valve. 3,727,629, 4-17-73, Cl. 137-205.000.
Gifford, Robert T., to Vernay Laboratories, Inc. One way check valve. 3,771,556, 11-13-73, Cl. 137-533.110.
Gifford, William E.: *See—*
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Gigante, Ernesto Nesofsky. Modular furniture. 3,779,177, 12-18-73, Cl. 108-114.000.
Gigante, Philip J. Shelf clip to support a razor. 3,772,742, 11-20-73, Cl. 24-84.00b.
Gigantino, Leonard D.: *See—*
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Gigantino, Otto M.; Parrill, Victor; and Gigantino, Leonard D., to Steinen, Wm., Mfg. Co. Magnetic valve. 3,747,892, 7-24-73, Cl. 251-65.000.
Giger, Adolf Josef, to Bell Telephone Laboratories, Incorporated. Phase locked loop with non-linear filter responsive to error signal amplitude. 3,757,244, 9-4-73, Cl. 331-17.000.
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Gigou, Claude: *See—*
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Giguere, Irving J., to Superior Electric Company, The. Interface circuit. 3,723,759, 3-27-73, Cl. 307-203.000.
Giguere, Irving Jules, to Superior Electric Company, The. Stepping motor control including pulse responsive means to dienergize presently energized windings while delaying energization of windings to be energized. 3,742,329, 6-26-73, Cl. 318-696.000.
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Gilberg, Robert C.; Donohue, James P.; and Patel, Ramesh S., to National Cash Register Company, The. Input control logic for a code reading system. 3,717,750, 2-20-73, Cl. 235-61.11e.
Gilberg, Robert C., to National Cash Register Company, The. Recirculating counter. 3,733,471, 5-15-73, Cl. 235-92.0ng.
Gilberg, Robert C.; Donohue, James P.; and Patel, Ramesh S., to National Cash Register Company, The. Field detecting logic. 3,752,958, 8-14-73, Cl. 235-61.11e.
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Gilbert, Barrie, to Tektronix, Inc. Large scale integrated circuit of reduced area including counter. 3,708,691, 1-2-73, Cl. 307-225.00b.
Gilbert, Bony. Electrically controlled dielectric panel lens. 3,708,796, 1-2-73, Cl. 343-754.000.
Gilbert, Bruce: *See—*
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Gilbert, Charles E., Jr.: *See—*
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Gilbert, Daniel, to Carrier Engineering Company Limited. Air distribution apparatus. 3,762,301, 10-2-73, Cl. 98-40.00c.
Gilbert, Dixie E., to Phillips Petroleum Company. Rapid heating of parison preforms. 3,715,109, 2-6-73, Cl. 432-122.000.
Gilbert, Dixie E., to Phillips Petroleum Company. Biaxially oriented blow molded article with ribs parallel to seam. 3,757,978, 9-11-73, Cl. 215-1.00c.
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Gilbert, Edward O.; and Oliver, Theodore A., to Reliance Electric Company. Amplifier offset compensation arrangement. 3,764,922, 10-9-73, Cl. 328-162.000.
Gilbert, Elmer G.: *See—*
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Gilbert, Everett, to Allied Chemical Corporation. Derivatives of quinoxaline. 3,772,273, 11-13-73, Cl. 260-250.00r.
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Gilbert, Harold James, to Wickman Machine Tool Sales Limited. Multi-spindle automatic lathes. 3,722,333, 3-27-73, Cl. 82-29.000.
Gilbert, Harold James; and Dixon, Reginald John, to Wickman Machine Tool Sales Limited. Automatic lathes. 3,730,030, 5-1-73, Cl. 82-21.00r.
Gilbert, Harold James, to Wickman Machine Tool Sales Limited. Automatic lathes. 3,744,354, 7-10-73, Cl. 82-3.00r.
Gilbert, John H.; and Weight, Donald, to Monsanto Chemicals Limited. Footwear. 3,735,511, 5-29-73, Cl. 36-44.000.
Gilbert, Joseph; and Shafer, Simon. Fire escape ladder. 3,727,724, 4-17-73, Cl. 182-198.000.
Gilbert, Joseph G. Composition and method for the treatment of damaged skin. 3,777,016, 12-4-73, Cl. 424-80.000.
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Gilbert, Paul T., to Beckman Instruments, Inc. Pressure measuring system. 3,714,829, 2-6-73, Cl. 73-398.00r.



Gilbert, Richard H., to Abex Corporation. Railroad brake shoes. 3,751,330, 87-73, Cl. 161-165.000.
Gilbert, Robert W.: *See—*
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Gilbert, Ronald E., to Gulf Research & Development Company. Method of manufacturing a fluorinated polymer. 3,709,855, 1-9-73, Cl. 260-87.350.
Gilbert, Ronald E.; Jamieson, Donald R.; and Clampitt, Bert H., to Gulf Research & Development Company. Process for the preparation of ethylene-carboxylic acid polymers having improved optical properties. 3,711,456, 1-16-73, Cl. 260-88.10r.
Gilbert, Ronald E., to Gulf Research & Development Company. Method of manufacturing a fluorinated polymer and blends of said fluorinated polymer with polyethylene. 3,763,280, 10-2-73, Cl. 260-897.00c.
Gilbert, Ronald E., to Gulf Research & Development Company. Article coated with fluorinated polymer. 3,770,493, 11-6-73, Cl. 117-132.0cf.
Gilbert, Roswell W., to Technical Management Services, Inc. Alternating and direct current transformer using harmonic modulator. 3,710,135, 1-9-73, Cl. 307-88.00r.
Gilbert, Roswell W., to Technical Management Services, Inc. Analog-digital and digital-analog conversion device and method. 3,745,557, 7-10-73, Cl. 340-347.0ad.
Gilbert, Roswell W., to Technical Management Services, Inc. Multiplier, divider and wattmeter using a switching circuit and a pulse-width and frequency modulator. 3,746,851, 7-17-73, Cl. 235-194.000.
Gilbert, Roy O., to Collier-Keyworth Company. Tilt mechanism for chairs or the like. 3,720,396, 3-13-73, Cl. 248-378.000.
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Gilbertson, John E. Air purifying and deodorizing device for automobiles. 3,722,182, 3-27-73, Cl. 55-124.000.
Gilbertson, Jon C.; and Gorsky, Raymond A., to Combustion Engineering, Inc. Control rod release mechanism. 3,733,251, 5-15-73, Cl. 176-36.00r.
Gilbo, Arnold W., to Sanders Associates, Inc. Long wire V-antenna system. 3,757,341, 9-4-73, Cl. 343-733.000.
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Gilboy, Joseph J.; Deane, Robert C.; Kirtley, Paul R.; and Jenkins, William C., to Gilboy, Joseph J.,. Electrical impulse counter for automatic car wash and the like. 3,748,444, 7-24-73, Cl. 235-92.0ct.
Gilbreath, Benjamin F., to Hunt Electronics Company. Overload protection system for a light dimmer unit. 3,719,858, 3-6-73, Cl. 317-16.000.
Gilbreath, Benjamin F., to Hunt Electronics Company. Dimmer unit for a lighting control system. 3,733,528, 5-15-73, Cl. 315-291.000.
Gilbrech, Donald A. Magnetic friction brake. 3,712,426, 1-23-73, Cl. 188-164.000.
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Gilbu, Agnar, to Vera Fabrikker A/S. Method for producing tubes of reinforced setting plastic material. 3,770,541, 11-6-73, Cl. 156-173.000.
Gilby, Anthony C.; and Horton, James Alan, to Wilks Scientific Corporation. Multiple pass optical absorption cell. 3,726,598, 4-10-73, Cl. 356-244.000.
Gilby, Anthony C.; and Gaglione, John P., to Wilks Scientific Corporation. Enrichment of chromatograph output. 3,735,565, 5-29-73, Cl. 55-197.000.
Gilch, Heinrich; Bottenbruch, Ludwig; Zecher, Wilfried; and Merten, Rudolf, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of substituted phthalimido-N-carboxylic acids. 3,712,907, 1-23-73, Cl. 260-326.00a.
Gilchrist, Allan Boyd Earl, to SCM Corporation. Process and apparatus for electric cell treatment of liquor. 3,748,244, 7-24-73, Cl. 204-180.00r.
Gilchrist, Allan F., to SCM Corporation. Process for treatment of liquors using multicompartment baths. 3,766,039, 10-16-73, Cl. 204-180.00r.
Gilchrist, Lee D. Knitting method. 3,750,427, 8-7-73, Cl. 66-172.00r.
Gilchrist, Ralph E.; and Cox, Jack C., to Tenneco Oil Company. Composition for the control of oils floating on water. 3,755,189, 8-28-73, Cl. 252-316.000.
Gilchrist, Reginald Selby. Textile apparatus. 3,719,035, 3-6-73, Cl. 57-77.300.
Gilchrist, Timothy Michael. Construction of rigid tensioned frame structure. 3,765,134, 10-16-73, Cl. 52-63.000.
Gildemeister, A. Donald, to NL Industries, Inc. Method of manufacturing foam-filled metal bat. 3,727,295, 4-17-73, Cl. 29-455.000.
Gildersleeve, Benjamin T. Machine for detasseling corn. 3,712,035, 1-23-73, Cl. 56-63.000.
Gildone, Anthony M., to Sifco Industries Inc. Vibratory applicator for electroplating solutions. 3,779,887, 12-18-73, Cl. 204-224.00r.
Giles, Charles E. Collet and collet fixture. 3,751,027, 8-7-73, Cl. 269-152.000.
Giles, George R.; and Lockitt, John A., to GTE Sylvania Incorporated. Modified integrate and dump filter. 3,740,537, 6-19-73, Cl. 235-152.000.
Giles, James, to American Chain & Cable Company, Inc. Conveyor structure. 3,762,533, 10-2-73, Cl. 198-127.00r.
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Gilev, Vitaly Konstantinovich; Popov, Vyacheslav Dmitrievich; Sarkisov, Rafael Tevosovich; and Stephanian, Ernst Arakelovich. Charging device for automatic punch-presses. 3,708,165, 1-2-73, Cl. 271-62.00r.
Gilev, Vitaly Konstantinovich; Evzlin, Volf Nakhimovich; Sarkisov, Rafael Tevosovich; and Stepanian, Ernst Arakelovich. Automatic press for die blanking of two concentric parts from steel strips. 3,747,452, 7-24-73, Cl. 83-132.000.
Gilev, Vitaly Konstantinovich; Bragin, Alexandr Sergeevich; Sarkisov, Rafael Tevosovich; and Stephanian, Ernst Arakelovich. Device for piling sheet-material strips cut by rotary shears. 3,765,150, 10-16-73, Cl. 53-162.000.
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Gilham, Peter Thomas; and Weith, Herbert Lee, to Purdue Research Foundation. Polynucleotide analysis. 3,730,844, 5-1-73, Cl. 195-103.50r.
Giliham, Helen Currier; Sherr, Allan Ellis; and Klein, Harvey Gerald, to American Cyanamid Company. Flame-retardant agents for thermoplastic products. 3,736,349, 5-29-73, Cl. 260-486.00r.
Gilinson, Philip J., Jr.; and Dauwalter, Charles R., to Massachusetts Institute of Technology. Oscillating viscometer. 3,722,262, 3-27-73, Cl. 73-59.000.
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Gilkey, Walter W. Mercury screen centrifugal separator. 3,732,979, 5-15-73, Cl. 209-199.000.
Gill, Anthony Howard, to Gill, Arthur, (London) Limited. Feed device for loading binding bars. 3,727,256, 4-17-73, Cl. 11-1.00r.
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Gill, Frank A., 1/2 to Dowd, David C. Method for facing a single-faced corrugated web. 3,775,211, 11-27-73, Cl. 156-205.000.
Gill, George H., to United States of America, Navy. Direct current motor starter circuit. 3,735,227, 5-22-73, Cl. 318-394.000.
Gill, George Herbert, to United States of America, Navy. Carbon dioxide indicating meter. 3,720,093, 3-13-73, Cl. 73-27.00r.
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Gill, Joseph G.; Gill, John H.; and Holmes, Arthur J. Hydraulic control system for a skip hoist. 3,722,718, 3-27-73, Cl. 214-100.000.
Gill, Raymond B.; and McMahon, Floyd J., to Westinghouse Air Brake Company. Pendulum light sensor. 3,776,315, 12-4-73, Cl. 172-45.000.
Gill, Raymond E.; and McMahon, Floyd J., to Westinghouse Air Brake Company. Position sensing apparatus. 3,743,026, 7-3-73, Cl. 172-4.500.
Gill, Raymond E.; and McMahon, Floyd J., to Westinghouse Air Brake Company. Skid supported cutting blade. 3,770,065, 11-6-73, Cl. 172-4.500.
Gill, Raymond L., to Westinghouse Air Brake Company. Blade position control apparatus. 3,757,870, 9-11-73, Cl. 172-4.500.
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Gill, Thomas R., to GS Equipment Company. Plating barrel apparatus including means for rotating the barrel. 3,769,193, 10-30-73, Cl. 204-213.000.
Gill, Victor A., to Nasco Engineering Incorporated. Incinerator toilet. 3,776,152, 12-4-73, Cl. 110-9.00r.
Gillberg, Carl Edward, to Johns-Manville Corporation. Machine for grooving brake blocks. 3,724,327, 4-3-73, Cl. 90-11.00c.
Gillchriest, William Clarence, to International Development Labs. Process for purification of tungsten. 3,717,697, 2-20-73, Cl. 423-58.000.
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Gillem, Luke D., 1/2 to McCoy, Roger W. Vehicle lifting and towing apparatus. 3,779,407, 12-18-73, Cl. 214-86.00a.
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Thompson, John T.; and Gillemot, George W., 3,771,112.
Thompson, John T.; and Gillemot, George W., 3,775,204.
Thompson, John T.; and Gillemot, George W., 3,781,461.
Gillemot, George W.; and Thompson, John T. Re-enterable cable splice assembly and method including provision for addding branchout service cables as needed. 3,725,581, 4-3-73, Cl. 174-38.000.
Gillemot, George W.; and Thompson, John T. Bonding device and anchorage for shielded cables. 3,777,049, 12-4-73, Cl. 174-78.000.
Giller, Arnold; Hultzsch, Kurt; and Hesse, Wolfgang, to Chemische Werke Albert. Rubber mixtures reinforced by phenol novolac resins and process for preparing phenol novolac resins suitable therefor. 3,778,414, 12-11-73, Cl. 260-51.00r.
Giller, William Leslie. Electric lamps. 3,721,850, 3-20-73, Cl. 313-114.000.
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Ellis, Rollo G.; and Ditty, Allan V., 3,746,306.
Gilles, Auguste Prosper: *See—*
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Gilles, Martin; and Thiel, Anton, to Clouth Gummiwerke AG. Flexible structural member for a vehicle casing. 3,776,094, 12-4-73, Cl. 89-36.00a.
Gilles, Martin; and Thiel, Anton, to Clouth Gummiwerke AG. Casing for track-laying and wheel-equipped vehicles. 3,776,571, 12-4-73, Cl. 280-154.50r.
Gilles, Richard C.: *See—*
Davis, William J.; and Gilles, Richard C., 3,729,415.
Gillespie, Daniel C., to Borg-Warner Corporation. Clutch disc and method of making. 3,760,921, 9-25-73, Cl. 192-107.00r.
Gillespie, Frank C., to Commonwealth of Australia, The; care of Secretary Department of Supply, The. Diffused heterojunction multilayer coatings for electrostatic photography. 3,773,567, 11-20-73, Cl. 148-1.500.
Gillespie, Herman L. Bow-eye or lifting-eye, especially for mounting on a boat. 3,765,365, 10-16-73, Cl. 114-218.000.
Gillespie, Neal D.: *See—*
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Gillespie, Peter James, to Energy Conversion Limited. Electrochemical cells. 3,762,956, 10-2-73, Cl. 136-86.00a.
Gillespie, Richard L., Sr., to Wham-O Mfg. Co. Flying saucer. 3,724,122, 4-3-73, Cl. 46-74.000.
Gillessen, Dieter: *See—*
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Gillett, Brian Arthur: *See—*
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Gillett, Jimmie Douglas, to Electric Machinery Mfg., Company. A.C. motor speed control system for two individual limiting circuits therein. 3,748,556, 7-24-73, Cl. 318-227.000.
Gillett, Orval B. Set of hollow core shots. 3,759,513, 9-18-73, Cl. 272-59.00b.
Gillette Company Research Institute, The, mesne: *See—*
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Chafitz, Steven Roy; and Laden, Karl, 3,739,952.
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Gillette, Dean; and Pelech, Ivan, to Bell Telephone Laboratories, Incorporated. Crosspoint switch utilizing electrically conducting liquid. 3,753,175, 8-14-73, Cl. 335-47.000.
Gillette, Robert K.: *See—*
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Gillette, Robert P.; and Kunz, Henry P., to Foster Wheeler Corporation. Pulverizer with fixed-arm spacer assembly. 3,776,478, 12-4-73, Cl. 241-103.000.
Gilley, Charles H.: *See—*
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Gilley, Paul J., to United States of America, National Aeronautics and Space Administration. Material fatigue testing system. 3,714,821, 2-6-73, Cl. 73-90.000.
Gilli, Paul Viktor; Fritz, Kurt; Lippitsch, Josef M.; and Lurf, Gunther, to Waagner-Biro Aktiengesellschaft. Radial-flow heat exchanger. 3,712,370, 1-23-73, Cl. 165-125.000.
Gilliam, Clarence W.; and Hall, Thomas N., to United States of America, Navy. Chemical lighting device. 3,764,796, 10-9-73, Cl. 240-2.250.
Gilliam, James D.; and Dauben, Dwight L., to Amoco Production Company. Micellar fluids for injection well stimulation and oil recovery. 3,770,632, 11-6-73, Cl. 252-8.55d.
Gilliatt, Charles L.: *See—*
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Gilliatt, Charles L., to Raytheon Company. Dielectric heating apparatus for tires. 3,770,931, 11-6-73, Cl. 219-10.570.
Gillie, Frances Burton. Simulated bow tie and method of making same. 3,728,737, 4-24-73, Cl. 2-151.000.



Gillie, Robert E., to Western Electric Company, Incorporated. Apparatus for supporting and rotating a workpiece. 3,777,703, 12-11-73, Cl. 118-49.000.
Gillies, William MacArthur, to Eadie Bros. & Company Limited. Devices for holding travellers for use on rings of ring spinning, twisting doubling and like frames. 3,724,718, 4-3-73, Cl. 221-267.000.
Gilligan, William H.; and McQuistion, William E., to United States of America, Navy. Difluoroamino compounds. 3,714,261, 1-30-73, Cl. 260-583.0nh.
Gilligan, William H.; McDonnell, Chilton H.; and Jones, Orlando, to United States of America, Navy. Process for the preparation of vinyltetrazole. 3,716,550, 2-13-73, Cl. 260-308.00d.
Gilliland, James Harold, to Memphis Furniture Manufacturing Co. Drawer pull anchoring device. 3,768,845, 10-30-73, Cl. 287-53.00h.
Gilliland, Quinton D.: *See—*
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Anderson, Karl R., 3,781,758.
Gillingham, Ernest Lee, to Jet Research Center, Inc. Explosive assembly for restoring damaged casing. 3,734,018, 5-22-73, Cl. 102-20.000.
Gilliom, John W., to Tappan Company, The. Pyrolytic oven. 3,739,146, 6-12-73, Cl. 219-393.000.
Gillis, Marina N.: *See—*
Mazzeo, Michael P.; Gobran, Riad H.; Santaniello, Anthony F.; and Gillis, Marina N., 3,721,647.
Gillis, William Warren, to Milland Timber Products Ltd. Board edging machine. 3,779,294, 12-18-73, Cl. 144-117.00b.
Gillock, Jack W., to Park-Ohio Industries, Inc. Inductor for heating an elongated workpiece having different cross-sections. 3,737,613, 6-5-73, Cl. 219-10.790.
Gillon, John: *See—*
Gates, Peter Stuart; and Gillon, John, 3,736,338.
Gillooly, George R., to General Electric Company. Halophosphate phosphor treatment process. 3,725,297, 4-3-73, Cl. 252-301.40p.
Gillot, Jacques: *See—*
Aubry, Bernard; Gillot, Jacques; Masselot, Yves; and Teboul, Albert, 3,708,157.
Gillow, Albert V.; and Marple, Wendell P., to International Business Machines Corporation. Current sensor for low pass filter. 3,733,536, 5-15-73, Cl. 321-10.000.
Gillum, Donald E., to Information Magnetics Corporation. Compensated linear motor. 3,723,779, 3-27-73, Cl. 310-13.000.
Gillum, Donald E., to Information Magnetics Corporation. Self shielding linear motor. 3,723,780, 3-27-73, Cl. 310-13.000.
Gillund, Arden G.: *See—*
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Gillund, Arden G.; and Moretti, John A., to General Motors Corporation. Electronic vehicle seat occupant sensor. 3,732,538, 5-8-73, Cl. 340-52.00e.
Gillund, Arden G. Seat occupancy responsive air cushion actuation and minitoring circuit. 3,767,002, 10-23-73, Cl. 180-102.000.
Gillyns, Emile; and Thill, Norbert, to Du Pont de Nemours, E. I., and Company. Electrostatic pinning of polymeric film. 3,758,251, 9-11-73, Cl. 425-174.80e.
Gilman, Clarence R., to United States of America, Interior. Photomechanical method. 3,743,415, 7-3-73, Cl. 355-52.000.
Gilman, Leland M: *See—*
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Gilman, Paul: *See—*
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Gilman, Paul B.; and Heseltine, Donald W., to Eastman Kodak Company. Photoconductive compositions and elements containing methine dye in J-aggregate state. 3,769,011, 10-30-73, Cl. 96-1.600.
Gilman, Paul B., Jr.; Raleigh, Ronald G.; and Koszelak, Thaddeus D., to Eastman Kodak Company. Direct-positive emulsion containing internally fogged, silver halide grains free of surface fog and a desensitizing compound. 3,772,030, 11-13-73, Cl. 96-101.000
Gilman, Paul Brewster, Jr.: *See—*
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Gilman, Paul Brewster, Jr.; Raleigh, Ronald George; and Koszelak, Thaddeus Donald, to Eastman Kodak Company. Direct positive processes utilizing silver halide surface image emulsions containing desensitizers. 3,730,723, 5-1-73, Cl. 96-64.000.
Gilman, Paul Brewster, Jr.; Raleigh, Ronald George; and Merrigan, Joseph Andrew, to Eastman Kodak Company. Photographic element containing monodispersed, unfogged, dye sensitized silver halide grains metal ions sensitized internally and the use thereof in eversal process. 3,761,267, 9-25-73, Cl. 96-64.000.
Gilman, Samuel, to Terminal Data Corporation. Hub-core assembly. 3,722,929, 3-27-73, Cl. 287-53.0ss.
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Zielinski, Richard J.; and Gilmore, Cecilia, 3,746,552.
Gilmore, Chace D., to SW Industries, Inc., mesne. Method of modifying the characteristics of flexible cellular material. 3,775,526, 11-27-73, Cl. 264-156.000.
Gilmore, Charles G., to FMC Corporation. Strap sealing tool. 3,709,758, 1-9-73, Cl. 156-494.000.
Gilmore, Jerry; and Scarlett, John A., to Rogers Brothers Company. Method for reducing bacteria level of dehydrated union products with $H_2O_2$. 3,728,134, 4-17-73, Cl. 99-156.000.
Gilmore, Jerry L.: *See—*
Lemberger, Robert A.; and Gilmore, Jerry L., 3,724,664.
Gilmore, John A., to Laundry Machine Specialties Corporation. Rug duster. 3,772,732, 11-20-73, Cl. 15-309.000.
Gilmore, John F.; and Epting, Roy W., to Westinghouse Electric Corporation. Tubular electric discharge lamp with integral protective-insulating sleeve. 3,720,826, 3-13-73, Cl. 240-11.40h.
Gilmore, Thomas P., to Allis-Chalmers Corporation. Static control for step voltage regulator. 3,725,771, 4-3-73, Cl. 323-20.000.
Gilmore, William J.; and Mesler, Lilburn L., to American Chain & Cable Company, Inc. Flat wire structure and apparatus and method of making same. 3,717,987, 2-27-73, Cl. 57-9.000.
Gilmore-Tatge Mfg. Co., Inc.: *See—*
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Gilmour, Alexander Scott, Jr.: *See—*
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Gilsing, Johannes Andries Arnoldus, to U.S. Philips Corporation. Method of manufacturing a gas discharge panel and panel manufactured by said method. 3,755,027, 8-28-73, Cl. 156-67.000.
Gilsinger, Frederick M., to Simmons Company. Positive clutch with dual releasing cams. 3,760,919, 9-25-73, Cl. 192-89.00a.
Gilson Bros. Co.: *See—*
Enters, Edward W.; Detjen, Edgar W.; and Rubin, Robert M., 3,708,968.
Enters, Edward W.; and Price, Warren H., 3,720,112.
Enters, Edward W., 3,736,674.
Enters, Edward W.; Price, Warren H.; and Hochwitz, Lynn E., 3,774,322.
Price, Warren H., 3,732,940.
Gilson, Robert E. Sheave for ratchet block. 3,714,838, 2-6-73, Cl. 74-230.240.
Gilson Screen Company: *See—*
Smith, Robert H.; Tonjes, Burl D.; and Leader, Charles B., 3,744,631.
Gilson, Stanley M. Hydrocarbon vapor collecting apparatus. 3,710,830, 1-16-73, Cl. 141-93.000.
Gilson, Verle A., to United States of America, Atomic Energy Commission. Gas laser having excitation chambers with multiple channels. 3,750,047, 7-31-73, Cl. 331-94.005.
Gilstrap, James Thomas. Press head insulator. 3,775,880, 12-4-73, Cl. 38-66.000.
Gilvar, Martin, to Morgan Construction Company. Product handling system for cooling beds. 3,718,062, 2-27-73, Cl. 83-268.000.
Gilvar, Martin; Wykes, Robert E.; and Mercer, Charles S., to Morgan Construction Company. Coupling device. 3,776,575, 12-4-73, Cl. 285-18.000.
Gilwin Corporation, mesne: *See—*
Engler, Clifford E., 3,769,729.
Gimbel, Frederick M.: *See—*
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Gimbel, William T. Play slide. 3,743,281, 7-3-73, Cl. 272-56.50r.
Gimenez, German Artigas, to Saint-Gobain. Method for homogenization of molten glass and additives. 3,725,025, 4-3-73, Cl. 65-134.
Gimenez, German Artigas, to Saint-Gobain. Apparatus for modifying molten glass by an additive. 3,759,684, 9-18-73, Cl. 65-145.000.
Gimlett, Gilbert Donald; and Hawthorne, Brian James, to British Railways Board. Railway wheel and axle assembly. 3,756,646, 9-4-73, Cl. 295-43.000.
Ginard, John A. Alarm unit. 3,732,554, 5-8-73, Cl. 340-258.00c.
Ginaven, Marvin E., to Bauer Bros. Co., The. Classifying and screening apparatus. 3,777,893, 12-11-73, Cl. 210-499.000.
Ginda Inc.: *See—*
Proctor, Sidney E.; and Carden, John C., 3,711,161.
Gindes, Bernard C.: *See—*
Ballentine, Earle W.; and Gindes, Bernard C., 3,762,396.
Gindi, Abraham M., to International Business Machines Corporation. Data storage system having skew compensation. 3,710,358, 1-9-73, Cl. 340-174.10b.
Gindler, E. Melvin, to Pierce Chemical Company. Micelle-forming protective colloid in colorimetric analysis. 3,754,864, 8-28-73, Cl. 23-230.00b.
Gindler, E. Melvin, to Pierce Chemical Company. Colorimetric determination of calcium in biologic fluids. 3,754,865, 8-28-73, Cl. 23-230.00b.
Gindy Manufacturing Corporation: *See—*
Bende, Albert J.; and Defalco, Ralph L., 3,722,054.
Hindin, Eugene, 3,711,148.
Reidenbach, Robert B., 3,741,561.

Giner, Jose, to Tyco Laboratories, Inc. Device for converting electrical energy to mechanical energy. 3,739,573, 6-19-73, Cl. 60-37.000.
Ginga Electric Industrial Co., Ltd.: *See—*
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Gingras, Claude A., 20% to Lee, Raymond, Organization, Inc., The. Telescopic jump rope toy with selective latching structure. 3,762,704, 10-2-73, Cl. 272-75.000.
Gingrass, Robert J. Board game apparatus. 3,734,506, 5-22-73, Cl. 273-130.00e.
Ginn, David W.: *See—*
Ott, Owen J.; and Ginn, David W., 3,735,416.
Ginn, David W., to Data-Control Systems, Inc. Error rate detection system. 3,760,354, 9-18-73, Cl. 340-146.10e.
Ginsberg, Leon. Electrical safety control circuit for punch presses and the like. 3,748,541, 7-24-73, Cl. 317-135.00r.
Ginsberg, Thomas N.; and Smolin, Edward Marvin, to GAF Corporation. Coating compositions. 3,766,297, 10-16-73, Cl. 260-853.000.
Ginsburg, Milton. Method of making a toilet seat. 3,772,111, 11-13-73, Cl. 156-79.000.
Ginther, Gary D., to Clyde Corporation. Elevator-feeder structure. 3,713,527, 1-30-73, Cl. 198-53.000.
Gintic, Michael Norman: *See—*
Gintick, Richard Conway; and Gintic, Michael Norman, 3,719,370.
Gintick, Richard Conway; and Gintic, Michael Norman. Anti-theft shopping cart. 3,719,370, 3-6-73, Cl. 280-33.99c.
Gintz, Francis Paul, to BP Chemicals (U.K.) Limited. Vinyl ester/isobutene copolymer dispersion. 3,738,954, 6-12-73, Cl. 260-29.60r.
Ginzel, Severin; and Niederhuber, Peter, to Bussmann W., KG. Hydraulic press for compacting metal powder. 3,771,930, 11-13-73, Cl. 425-78.000.
Giombini, Guiseppe: *See—*
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Giordano, Arthur A.: *See—*
Pease, Richard R.; Blitzer, Frank; Giordano, Arthur A.; and Less, Frank L., 3,778,166.
Giordano, Frank L., to Insect-O-Cutor, Inc. Insect electrocutor. 3,729,857, 5-1-73, Cl. 43-112.000.
Giorgi, Angelo L.; and Szklarz, Eugene G., to United States of America, Atomic Energy Commission. Process for preparing high-transition-temperature superconductors in the Nb-Al-Ge system. 3,713,898, 1-30-73, Cl. 148-126.000.
Giorgi, Jean Claude: *See—*
Retali, Roger; Dambrine, Francis; Giorgi, Jean Claude; and Windal, Georges, 3,725,127.
Giorgi, Lewis A. Process of making tridimensional color photographs. 3,772,106, 11-13-73, Cl. 156-58.000.
Giorgi, Tiziano A.: *See—*
della Porta, Paolo; Giorgi, Tiziano A.; Kindl, Bruno; and Zucchinelli, Mario, 3,746,658.
Giori, Gualtiero, to De La Rue Giori S.A. Method of preparing copper-plate printing plates for printing. 3,741,835, 6-26-73, Cl. 156-14.000.
Giotti, Alberto; and Sicuteri, Federigo. Method for activating the blood fibrinolysis by administration of 2-amino-ethanesulphonic acid or salts thereof. 3,725,553, 4-3-73, Cl. 424-315.000.
Giouvalakis, Antonios I.: *See—*
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Giovanelli, Alfred: *See—*
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Giovanetti, Albert: *See—*
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Giovannetti, Fiorello. Connector. 3,730,568, 5-1-73, Cl. 287-20.927.
Giovanni, Cuneo, to Montecatini Edison S.p.A. Process for the preparation of polyboric esters. 3,755,408, 8-28-73, Cl. 260-462.00r.
Giovanni, Joseph. Trawl device. 3,774,334, 11-27-73, Cl. 43-9.000.
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Nistri, Ugo; Vargiu, Silvio; Giovanni, Sesto S.; and Pitzalis, Mario, 3,720,645.
Vargiu, Silvio; Spelta, Osvaldo; Giovanni, Sesto S.; and Abruzzi, Pierluigi, 3,711,431.
Giovannini, Michel, to La Cellophane. Machine for cutting and folding sheet material. 3,773,314, 11-20-73, Cl. 270-63.000.
Gipe, Harry Frank, to Scott Paper Company. Plate for dry planography. 3,728,123, 4-17-73, Cl. 96-75.000.
Gipstein, Edward; Hewett, William Ainslie; and Levine, Harold A., to International Business Machines Corporation. Electron beam sensitive polymer t-butyl methacrylate resist. 3,779,806, 12-18-73, Cl. 117-212.000.
Girard, Dean C., 1/2 each to Guide Tube Inc. and LaForce, Jean. Composite consumable wire guide electrode. 3,748,434, 7-24-73, Cl. 219-146.000.
Girard, Donald J., to National Cash Register Company, The. Logic for color bar printer. 3,713,138, 1-23-73, Cl. 340-347.00d.
Girard, Eric Lionel, to Plastic Coating Corporation, The. Light-activated diazography. 3,713,825, 1-30-73, Cl. 96-49.000.
Girard, Lauret H.: *See—*
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Girard, Pierre, to Manufacture des Montres Rolex S.A. Time display device for timepieces. 3,712,047, 1-23-73, Cl. 58-50.00r.
Girard, Pierre, to Manufacture des Montres Rolex S.A. Display control device for timepieces. 3,715,881, 2-13-73, Cl. 58-50.00r.
Girard, Pierre, to Manufacture des Montres Rolex S.A. Timepiece with electronically designed digital read-out. 3,733,810, 5-22-73, Cl. 58-4.00a.
Girard, Pierre; Lerouge, Claude P. H.; and Regnier, Marc A., to International Standard Electric Corporation. Regenerative repeater for PCM signals transmitted in the alternate polarity mode. 3,757,051, 9-4-73, Cl. 179-15.0ad.
Girard-Perregaux S.A.: *See—*
Vuffray, Georges C., 3,747,320.
Vuffray, Georges C., 3,778,999.
Girardin, Donald W.: *See—*
Drake, Stevens S.; Lane, George A.; Staudacher, Gerald R.; and Girardin, Donald W., 3,712,233.
Girardin, Pierre, to Froid Industriel Brissonneau. Expansion and evaporation apparatus for refrigerating machines. 3,779,036, 12-18-73, Cl. 62-512.000.
Girardin, Roger, to Ateliers des Charmilles, S.A. Apparatus for holding and guiding an elongated electrode in electro-erosion machining. 3,711,675, 1-16-73, Cl. 219-69.00e.
Giras, Theodore C.; and Podolsky, Leaman B. Method and system for operating a boiling water reactor-steam turbine plant preferably under digital computer control. 3,778,347, 12-11-73, Cl. 176-24.000.
Giraud, Adrien: *See—*
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Giraud, Alain: *See—*
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Giraud, David. Particle-collecting device. 3,777,461, 12-11-73, Cl. 56-202.000.
Giraud, Francois L., to LTV Aerospace Corporation, mesne. Transportation installation. 3,747,538, 7-24-73, Cl. 104-105.000.
Giraud, Francois L., to LTV Aerospace Corporation, mesne. Endless-chain conveyor, particularly for transporting independent cars. 3,749,025, 7-31-73, Cl. 104-25.000.
Giraud, Francois L., to LTV Aerospace Corporation, mesne. Transportation installation, particularly for passengers. 3,760,738, 9-25-73, Cl. 104-150.000.
Giraud, Francois L., to LTV Aerospace Corporation, mesne. Moving track for a transportation installation having independent vehicles. 3,771,461, 11-13-73, Cl. 104-123.000.
Giraud, Pierre; and Redon, Michel, to Intertechnique S.A. Method for correcting systematic errors in differential linearity of a pulse height-to-time converter and converter for the application of said method. 3,711,851, 1-16-73, Cl. 340-347.0cc.
Giraudeau, Yves: *See—*
Groudel, Charles; Giraudeau, Yves; and Geantet, Jean-Claude, 3,760,784.
Giraudi, Giorgio Aldo Maria; and Imperiale, Nino, to Grace, W. R., & Co. Packaging apparatus and method. 3,763,620, 10-9-73, Cl. 53-22.00b.
Girauldon, Jean-Claude, to Societe Anonyme D.B.A. Disc brake anti-rattle means. 3,712,423, 1-23-73, Cl. 188-73.500.
Girauldon, Jean-Claude, to Societe Anonyme D.B.A. Composite caliper for a disc brake. 3,734,243, 5-22-73, Cl. 188-72.400.
Girault, Jean, to Thomson-CSF. Speed control system for hall effect motors. 3,754,175, 8-21-73, Cl. 318-138.000.
Girault, Pierre: *See—*
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Gittinger, Norman C., to General Electric Company. Hybrid filter. 3,775,704, 11-27-73, Cl. 333-11.000.
Gittinger, Norman C., to General Electric Company. Hybrid band pass-band stop filter. 3,781,718, 12-25-73, Cl. 333-11.000.
Gittos, Maurice Ward; James, John William; and Wiggins, Leslie Frederick, to Aspro-Nicholas Limited. Pharmaceutical compositions containing N-cyclopropyl-1-aminoindane compounds and adapted for administration to obtain inhibition of monoamine oxidase enzye and process. 3,709,996, 1-9-73, Cl. 424-330.000.
Gittos, Maurice Ward; James, John William; and Wiggins, Leslie Frederick, to Aspro-Nicholas Limited. Pharmaceutical compositions containing N-cyclopropyl-1-amino indanes and use of such N-cyclopropyl compounds as hypotensives. 3,758,690, 9-11-73, Cl. 424-30.000.
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Giuliani, Robert L. Electric credit card system for use with cash register. 3,749,887, 7-31-73, Cl. 235-61.70b.
Giuliani, Robert L. Apparatus for and method of making conductive record cards. 3,755,651, 8-28-73, Cl. 235-61.100.
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Given, Richard A., 30% to Canada-Cities Service, Ltd., 30% to Imperial Oil Limited, 30% to Atlantic Richfield Canada, Ltd. and 10% to Gulf Oil Canada Limited. Process for integration of extraction processing streams. 3,726,786, 4-10-73, Cl. 208-11.000.

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Gjettum, Dag Poppe; and Odegaard, Gunnar Viggo, to International Standard Electric Corporation. Direction finder calibration system. 3,778,834, 12-11-73, Cl. 343-119.000.
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Glade, Elmer F.; Anderson, Perry W.; and Lafisidis, Siergios, to Food Technology Inc. Dough composition for a cup-shaped shell. 3,764,344, 10-9-73, Cl. 426-138.000.
Gladney, Frank L.; and Turner, Michael L., to Dow Chemical Company, The. Burner unit for carbonaceous gas waste. 3,764,254, 10-9-73, Cl. 431-89.000.
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Gladwin, Floyd R. Trash compactor. 3,726,211, 4-10-73, Cl. 100-100.000.
Gladych, B. Michael, to Gentle Toy Co., Inc. Slow-flying aircraft. 3,778,926, 12-18-73, Cl. 46-79.000.
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Glamkowski, Edward J.; Rosas, Carlos B.; Sletzinger, Meyer; and Wantuck, Joseph A., to Merck & Co., Inc. Process for the preparation of cis-1-propenylphosphonic acid. 3,733,356, 5-15-73, Cl. 260-543.00p.
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Glance, Patrick M., to Ford Motor Company. Energy absorbing seat back. 3,761,125, 9-25-73, Cl. 297-216.000.
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Glanzer, Stefan, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Apparatus for oiling continuously moving stock. 3,734,055, 5-22-73, Cl. 118-8.000.
Glanzer, Stefan, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Apparatus for oiling sheet metal stock. 3,736,902, 6-5-73, Cl. 118-50.000.
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Glasbergen, Johannes Wilhelmus; Greefkes, Johannes Anton; de Jager, Frank; and van den Enden, Adrianus Wilhelmus Maria, to U.S. Philips Corporation. PCM system including a pulse pattern analyzer. 3,729,678, 4-24-73, Cl. 325-38.000.
Glasby, Alan Geoffrey Scruton, to Glasby Pharmaceuticals Limited. Reaction products of halogens and alkoxylated primary amines. 3,775,480, 11-27-73, Cl. 260-584.00b.
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Glaser, Donald A.; Dunn, Bud W.; and Underwood, John C., to Didde-Glaser, Inc. Sheet feeder sucker and hold down assembly. 3,773,318, 11-20-73, Cl. 271-106.000.
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Glaser, Harold, to Glaser Organization, The. Spring operated ball pitching device. 3,754,544, 8-28-73, Cl. 124-7.000.
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Glaser, Rudolf; Hofmann, Alfred; and Bronstert, Klaus, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Multi-ply, metal-clad sandwich panels. 3,767,521, 10-23-73, Cl. 161-216.000.
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Glass, Floyd M., to United States of America, Atomic Energy Commission. Small-current integrator. 3,727,077, 4-10-73, Cl. 307-229.000.
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Glintz, Georgia E. Resilient hair dryer cushion. 3,716,877, 2-20-73, Cl. 5-338.000.
Glintz, Georgia E. Collapsible bed shampoo basin with throw away liner. 3,733,620, 5-22-73, Cl. 4-159.000.
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Gloeckler, Fred A., to Star Sprinkler Corporation of Florida. Flush type sprinkler. 3,756,321, 9-4-73, Cl. 169-40.000.
Gloeckler, Fred A., to Star Sprinkler Corporation of Florida. Fusible link. 3,779,004, 12-18-73, Cl. 59-93.000.
Gloge, Detlef Christoph, to Bell Telephone Laboratories, Incorporated. Integrating electromagnetic beam position sensor. 3,739,174, 6-12-73, Cl. 250-201.00r.
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Glomski, Ronald L.; Davis, Lewis E.; and Grover, Joseph A., to Dow Chemical Company, The. Cellulose ether thickener for latex paint. 3,769,247, 10-30-73, Cl. 260-143.000.
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Gloviak, John A.; and Sakats, Gerald, to S. & C. Electric Company. Sub-surface switch construction for underground electric power distribution. 3,755,637, 8-28-73, Cl. 200-168.00g.
Gloyd, Lawrence E., to Amerock Corporation. Self-service merchandiser. 3,741,617, 6-26-73, Cl. 312-108.000.
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Gluck, Bruno Anthony, to Lever Brothers Company. Fabric softening compositions. 3,756,950, 9-4-73, Cl. 252-8.750.
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Gmeiner, Gunter; and Grabner, Christian, to Daimler-Benz Aktiengesellschaft. Seat-adjusting mechanism, especially for vehicle seats. 3,711,056, 1-16-73, Cl. 248-429.000.
Gmeiner, Gunter, to Daimler-Benz Aktiengesellschaft. Attachment of a safety belt for an adjustable seat of a motor vehicle. 3,727,977, 4-17-73, Cl. 297-344.000.
Gmitter, George T.; and Mudde, John P., to General Tire & Rubber Company, The. Polymerization of episulfides using metal containing catalysts. 3,726,840, 4-10-73, Cl. 260-79.000.
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Gnau, Donald V.; and Pierstorff, Buckley C., to Cornell Aeronautical Laboratory, Inc. Optical processing system. 3,726,997, 4-10-73, Cl. 178-6.800.
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Gniffke, Glenn D.; and Fratzke, Harold A., to Metro Hydraulics Inc. Tractor hitch apparatus. 3,716,253, 2-13-73, Cl. 280-415.00a.
Gnoth, Bernhard, to Licentia Patent-Verwaltungs-G.m.b.H. Device for temporarily holding articles of different sizes. 3,724,835, 4-3-73, Cl. 269-21.000.
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Go, Junichi. Method and device for power transmission transfer. 3,707,884, 1-2-73, Cl. 74-372.000.
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Goade, James C., to Caterpillar Tractor Company. End cap locking means for hydraulic cylinders and method. 3,777,627, 12-11-73, Cl. 92-168.000.
Goan, John C.; and Joo, Louis A., to Great Lakes Carbon Corporation. Oxidized carbon fibers. 3,746,560, 7-17-73, Cl. 106-307.000.
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Gobeille, William P., to Sheller-Globe Corporation. Composite V-belt pulley and method. 3,772,928, 11-20-73, Cl. 74-230.700.
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Goda, George G. Adjustable dispensing apparatus. 3,741,444, 6-26-73, Cl. 222-309.000.
Goda, George G. Liquid check valve assembly. 3,768,509, 10-30-73, Cl. 137-539.000.
Godard, Bruno; and Lacour, Bernard, to Compagnie Generale d'Electricite, mesne. Traveling wave excited gas laser. 3,729,689, 4-24-73, Cl. 331-94.500.
Godard, Pierre, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Apparatus for recharging an emergency battery. 3,735,234, 5-22-73, Cl. 320-44.000.
Godart, Michel, to Commissariat a l'Energie Atomique. Device for leak-tight transfer of objects. 3,717,267, 2-20-73, Cl. 214-17.00b.
Godbee, Herschel W.; and Lovelace, Roy C., to United States of America, Atomic Energy Commission. Method for storing radioactive combustible waste. 3,764,552, 10-9-73, Cl. 252-301.10w.
Godbersen, Byron L. Implement attachment. 3,743,269, 7-3-73, Cl. 267-164.000.
Godbersen, Byron Leroy. Boat trailer. 3,774,790, 11-27-73, Cl. 214-84.000.
Godberson, Harold W. Machine and method for preparing a surface and for slip forming a concrete structure. 3,779,661, 12-18-73, Cl. 404-72.000.
Godbey, John K.; Hawk, Daniel E.; and Slover, Vasel R., Jr., to Mobil Oil Corporation. Logging-while-drilling apparatus. 3,739,331, 6-12-73, Cl. 340-18.0ld.
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Godfrey, James, to Bell Telephone Laboratories, Incorporated. Semiconductor device fabrication using combination of energy beams for masking and impurity doping. 3,737,346, 6-5-73, Cl. 148-1.500.
Godfrey, John J.; and Morgan, Charles R., to Grace, W. R., & Co. Process for preparing aminonitriles. 3,714,223, 1-30-73, Cl. 260-465.50a.
Godfrey, John N., to Northrop Carolina Inc. Gas generator method and apparatus. 3,739,574, 6-19-73, Cl. 60-39.030.
Godfrey, Keith Ernest, to Reckitt & Colman Products Limited. Substituted 2-phenoxyphenoyl acetic acids. 3,766,263, 10-16-73, Cl. 260-520.000.
Godfrey, Leonard Robert; and Cook, John Daniel, to Dendix Brushes Limited. Device for removing snow. 3,735,510, 5-29-73, Cl. 37-43.00r.
Godfrey, Leslie Kenneth: *See—*
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Godfrey, Nelson Frederick John: *See—*
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Godfrey, Norman Bell: *See—*
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Godfrey, Peter Brian, to Hawker Siddeley Dynamics Limited. Fuze device with target detecting means. 3,727,553, 4-17-73, Cl. 102-70.20p.
Godfrey, Peter James, to Fratelli Rotondi Di E. Rotondi & C. S.A.S. Measuring devices. 3,716,015, 2-13-73, Cl. 116-115.500.
Godfrey, Thomas G.: *See—*
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Godfrey, Wesley L., to United States of America, Atomic Energy Commission. Method of reducing the release of mobile contaminants from granular solids. 3,723,338, 3-27-73, Cl. 252-301.10w.
Godfrey, Wesley Lynn. Heavy small arms projectile. 3,720,170, 3-13-73, Cl. 102-92.300.
Godfroid, Jean Jacques; and Thuillier, Jean Eugene, to C.E.R.P.H.A. (Centre Europeen de Recherches Pharmacologiques). Phenoxyacctic acid derivatives. 3,758,506, 9-11-73, Cl. 260-332.20a.
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Godin, Edmund J., to Kedsell Company. Unitary resilient guide member. 3,720,449, 3-13-73, Cl. 308-3.00r.
Godin, Jacques J.; and Stephan, Jacques A., to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Method for levelling the decks of ships. 3,769,102, 10-30-73, Cl. 148-130.000.
Godin, Jacques J.; and Stephan, Jacques A. Apparatus for leveling the decks of ships. 3,770,256, 11-6-73, Cl. 266-44.00f.
Godin, Pascal Albert; Seite, Guy Henri; DuPont, Bertrand Georges; and Vidal, Max Laurent, to Societe Anonyme d'Etudes et Realisations Nucleaires Sodern. High precision stellar pointing device for spacecraft. 3,744,740, 7-10-73, Cl. 244-3.190.
Godines, Henri, to Creusot-Loire. Extrusion assembly. 3,779,521, 12-18-73, Cl. 259-191.000.
Goding, Thomas Joseph: *See—*
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Godlewski, Joseph F., 1/2 to McMahon, Vincent K. Dual blade spatula. 3,753,587, 8-21-73, Cl. 294-7.000.
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Godley, Augustus P.; Fuller, Francis M.; Houk, Charles R.; Holland, Henry A. Nelson; and Gendron, George J., to Raymond International Inc. Installation of sand drains. 3,772,894, 11-20-73, Cl. 61-63.000.
Godley, Augustus P.; and Kruse, William E., to Raymond International, Inc. Pile installation. 3,779,025, 12-18-73, Cl. 61-53.520.
Godley, Fred Darroll, to Modular Wall Systems, Inc. Building roof structure and method. 3,722,171, 3-27-73, Cl. 52-745.000.
Godley, Lisbeth N.: *See—*
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Godshalk, James B.; and Alburger, William P., to Fox Products Company. Animal operated watering device. 3,716,030, 2-13-73, Cl. 119-72.500.
Godshalk, James B., to Fox Products Company. Method and apparatus for determining battery performance at one temperature when battery is at another temperature. 3,781,658, 12-25-73, Cl. 324-29.500.
Godshall, Walter E. Locking device for sliding closure. 3,712,656, 1-23-73, Cl. 292-251.000.
Godtfredsen, Wagn Ole: *See—*
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Godwin, Ernest. Heel enlarger. 3,780,454, 12-25-73, Cl. 36-58.006.
Godwin, Gilbert Alan; and Pratt, Chapin A., to Howe Richardson Scale Company. Electrical weighing systems. 3,731,754, 5-8-73, Cl. 177-165.000.
Godwin, James B., III: *See—*
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Prajsnar, Tadeusz; Rulinski, Jozef; Zglobicki, Edward; Lyzwinski, Ryszard; Lacheta, Ireneusz; Szczepanik, Aleksander; Piaskowski, Stanislaw; and Godyn, Adam, 3,740,990.
Goebel, Fred M., to LeBlond, Inc. Positioning apparatus. 3,724,291, 4-3-73, Cl. 74-815.000.
Goebel, Hellmut; and Raiser, Ernst, to BW-Weber Verwaltungsgesellschaft m.b.H. Tool changing mechanism for a machine tool. 3,741,023, 6-26-73, Cl. 74-110.000.
Goebel, Hellmut; and Raiser, Ernst, to BW-Weber Verwaltungsgesellschaft m.b.H. Machine tool with tool exchanging mechanism. 3,762,036, 10-2-73, Cl. 29-568.000.
Goebel, Henry R., to Western Kraft Corporation. Cylindrical carton. 3,713,576, 1-30-73, Cl. 229-21.000.
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Goeke, Alfons, to Kieserling, Th., & Albrecht. Apparatus for clamping workpieces in draw benches or the like. 3,712,104, 1-23-73, Cl. 72-290.000.
Goeke, Alfons; Riedel, Franz; and Weck, Karl Gustav, to Kieserling, Th., & Albrecht. Adjusting mechanism for radially movable tools in rotary tubular tool holders of shaving machines for wire or the like. 3,750,497, 8-7-73, Cl. 82-20.000.
Goeke, Alfons, to Kieserling, Th., & Albrecht. Method and apparatus for connecting sleeves with tapered internal threads to pipes with tapered external threads. 3,766,632, 10-23-73, Cl. 29-428.000.
Goeldner, Richard W., to Aqua-Chem, Inc. Flash evaporator structure. 3,729,383, 4-24-73, Cl. 202-173.000.
Goell, James Emanuel, to Bell Telephone Laboratories, Incorporated. Dielectric circuit forming process. 3,748,246, 7-24-73, Cl. 204-192.000.
Goell, James Emanuel, to Bell Telephone Laboratories, Incorporated. Method of selective multilayered etching. 3,751,248, 8-7-73, Cl. 96-36.200.
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Stevens, Laurence G.; Miller, Marilyn; and Goeller, Leonhard A., 3,772,424.
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Goeltz, Richard R.; Schumacher, Howard; and Roth, Albee, to Electrocardio Dynamics Inc. Method and system for automatic processing of physiological information in greater than real time. 3,779,237, 12-18-73, Cl. 128-2.06a.
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Goertzen, John, III; and Hargrave, Robert W. Pool vacuum system. 3,755,843, 9-4-73, Cl. 15-1.700.
Goes, Friedrich; Seiffert, Ulrich; Hinzmann, Dieter; and Borenius, Gunnar, to Volkswagenwerk Aktiengesellschaft. Safety device for vehicle occupants. 3,747,953, 7-24-73, Cl. 280-150.0ab.
Goetchfus, Ronald O.; and Collins, Michael John, to Celanese Corporation. Analyzer apparatus and method. 3,777,127, 12-4-73, Cl. 235-151.300.
Goethe, Robert L.; and Green, Robert R., to Crestmark Products Company Incorporated. Machine for cleaning paving cracks. 3,755,841, 9-4-73, Cl. 15-334.000.
Goethert, Winfried H., to United States of America, Air Force. Laser doppler velocimeter detector. 3,753,616, 8-21-73, Cl. 356-28.000.
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Goettl, Adam D. Centrifugal blower assembly. 3,746,464, 7-17-73, Cl. 415-201.000.
Goettl, Adam D. Seal. 3,771,175, 11-13-73, Cl. 4-172.190.
Goettl, Adam D. Acoustical speaker mounting means. 3,771,621, 11-13-73, Cl. 181-31.00b.
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Goetz, Edward A. Colostomy aid. 3,718,141, 2-27-73, Cl. 128-283.000.
Goetz, Fay M. Pipe cutting machine. 3,711,076, 1-16-73, Cl. 266-23.0nn.
Goetz, Frederick J.: *See—*
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Goetze, Walter; Kasper, Werner; Klatt, Gerhard; and Schulz, Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 2-mercaptoethanol. 3,710,439, 1-16-73, Cl. 260-609.00r.
Goetze, Walter; Wolf, Peter; Schulz, Gerhard; and Luedemann, Horst, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of mixtures of monoethanolamine and triethanolamine. 3,723,530, 3-27-73, Cl. 260-584.00r.
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Goffe, William L., to Xerox Corporation. Imaging system. 3,719,482, 3-6-73, Cl. 96-1.00r.
Goffe, William L., to Xerox Corporation. Electrophotographic process. 3,723,110, 3-27-73, Cl. 96-1.0pc.
Goffe, William L., to Xerox Corporation. Polychromatic electrosolographic imaging process. 3,723,113, 3-27-73, Cl. 96-1.200.
Goffe, William L., to Xerox Corporation. Photoelectrosolographic imaging employing a releasable imaging layer. 3,740,216, 6-19-73, Cl. 96-1.000.
Goffe, William L., to Xerox Corporation. Migration imaging structure. 3,740,223, 6-19-73, Cl. 96-1.500.
Goffe, William L., to Xerox Corporation. Migration image developed by splitting or abrading softenable layer. 3,741,757, 6-26-73, Cl. 96-1.00r.
Goffe, William L., to Xerox Corporation. Agglomeration imaging process using hardenable material. 3,753,705, 8-21-73, Cl. 96-1.00r.
Goffe, William L.; Jones, Bruce A.; and Blackert, John E., to Xerox Corporation. Apparatus for splitting a softenable film comprising bite rollers. 3,770,554, 11-6-73, Cl. 156-510.000.
Goffredo, Daniel L.; and Shakley, Conrad Dale, to Chemcut Corporation. Etching apparatus. 3,776,800, 12-4-73, Cl. 156-345.000.
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Goforth, Samuel P.; and Goforth, Joseph A., to Goforth Brothers, Inc. Stabilizing means for tram cars. 3,728,969, 4-24-73, Cl. 104-28.000.
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Goksel, Mehmet Adnan, to Michigan Technological University, Board of Control of. Treatment of zinc rich steel mill dusts for reuse in steel making processes. 3,770,416, 11-6-73, Cl. 75-25.000.
Golahny, Yehuda; and Gwinn, David A. Reactance measurement apparatus. 3,771,050, 11-6-73, Cl. 324-57.00r.
Golaski, Frank W., to Westinghouse Electric Corporation. Electrical inductive apparatus. 3,719,910, 3-6-73, Cl. 336-146.000.
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Gold, Edward, to Philco-Ford Corporation. Thermal mechanical processing of aluminum alloy. 3,726,725, 4-10-73, Cl. 148-12.700.
Gold, Harold, to United States of America, National Aeronautics and Space Administration. Gas turbine engine fuel control. 3,713,290, 1-30-73, Cl. 60-39.28r.
Gold, Harold. Fluid tight conduit fastening system. 3,746,376, 7-17-73, Cl. 285-334.200.
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Gold, Marvin H.; and Marcus, Henry J., to Aerojet-General Corporation. Halo dinitro-alkanoic acid esters of alkanediols. 3,732,289, 5-8-73, Cl. 260-487.000.
Gold, Nicholas, to Polaroid Corporation. Photographic film container. 3,748,983, 7-31-73, Cl. 95-19.000.
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Gold, Robert D.: *See—*
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Goldan, Theodore J., to International Telephone and Telegraph Corporation. Repetitive pulse generating system. 3,715,755, 2-6-73, Cl. 343-18.00e.
Goldbach, Horst; Brandenburg, Rudolf; and Dabringhausen, Erich, to Arn. Kiekert Sohne Kiekert Sohne, Firma. Vehicle doors. 3,728,819, 4-24-73, Cl. 49-216.000.
Goldbeck, Heinz: *See—*
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Nicolay, Karl; and Goldbeck, Heinz, 3,747,545.
Goldbeck, Leroy J., to Kimberly-Clark Corporation. Non-woven applique material. 3,762,984, 10-2-73, Cl. 161-57.000.
Goldberg, Abraham A. Electrically remote controlled device attachable to switch box face plate for alternately actuating and deactuating the switch. 3,753,173, 8-14-73, Cl. 335-1.000.
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Goldberg, Daniel E., to Waterfun, Inc. Skate sail. 3,768,823, 10-30-73, Cl. 280-11.37s.
Goldberg, Edward M.: *See—*
Bazell, Seymour; Ostensen, Ralph G.; and Goldberg, Edward M., 3,775,606.
Walker, Robert D.; Bazell, Seymour; Goldberg, Edward M.; and Ostensen, Ralph G., 3,734,100.
Goldberg, Gerald L.; and Wasselle, Henry W., III, to Budd Company, The. Method of impact testing a metallic structure. 3,757,562, 9-11-73, Cl. 73-12.000.
Goldberg, Harold D.; and Goldberg, Milton I. Deformable pick up coil and cooperating magnet for measuring physical quantities, with means for rendering coil output independent facilitate process. 3,731,184, 5-1-73, Cl. 324-34.00r.
Goldberg, Herbert E.: *See—*
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Goldberg, Herbert E.; and Bosworth, Jonathan E., to American Optical Corporation. Pacer with magnetic coupling means for external rate adjustment. 3,766,928, 10-23-73, Cl. 128-419.00p.
Goldberg, Herbert E., to American Optical Corporation. Source testing cardiac pacer with source-independent rate circuitry and disabling means therefor. 3,774,619, 11-27-73, Cl. 128-419.00p.
Goldberg, Howard Zev. Disposable garment bag construction. 3,747,122, 7-24-73, Cl. 2-48.000.
Goldberg, Ilya Mordukhovich: *See—*
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Goldberg, Jack, to Monsanto Company. Variable duty cycle signal generator. 3,714,470, 1-30-73, Cl. 307-261.000.
Goldberg, Jacob, to United States Scientific Instruments, Inc. Flash discharge apparatus and method. 3,758,819, 9-11-73, Cl. 315-204.000.
Goldberg, Jacob, to United States Scientific Instruments, Inc. Method of and apparatus for flash discharge. 3,775,641, 11-27-73, Cl. 315-261.000.
Goldberg, Lawrence S.; and Schnur, Joel M., to United States of America, Navy. Tunable internal-feedback liquid crystal-dye laser. 3,771,065, 11-6-73, Cl. 331-94.501.
Goldberg, Leon I., to Arnar-Stone Laboratories, Inc. Method of treatment of cardiac bradyarrhythmias. 3,764,675, 10-9-73, Cl. 424-267.000.
Goldberg, Louis. Plier-type tool for orthodontists. 3,727,316, 4-17-73, Cl. 32-66.000.
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Goldberg, Morris I. Two-position child's seating system. 3,768,861, 10-30-73, Cl. 297-253.000.
Goldberg, Morton E., to Mallinckrodt Chemical Works. Methods for inhibiting aggressive behavior by means of s-triazolo-[3,4-a]-isoquinolines. 3,746,714, 7-17-73, Cl. 424-258.000.
Goldberg, Nathaniel D., to Fenco, Inc. Conveyor device. 3,730,331, 5-1-73, Cl. 198-189.000.
Goldberg, Newton N.: *See—*
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Goldberg, Norman P., to Goldberg Brothers, Inc. Lid latch. 3,744,828, 7-10-73, Cl. 292-59.000.
Goldberg, Paul R., to Smith Kline Instruments, Inc. Fetal heartbeat monitoring system with plural transducers in one planc and at different angles thereto. 3,780,725, 12-25-73, Cl. 128-2.05t.
Goldberg, Raymond; and Shaw, Irving F., to West Laboratories, Inc. Safety device when opening ampoules. 3,720,250, 3-13-73, Cl. 150-52.00r.
Goldberg, Ronald A. Combination step ladder and work support. 3,739,876, 6-19-73, Cl. 182-27.000.
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Goldberger, Max, to Catalytic Technology Corporation. 100-Watt fuel cell. 3,716,414, 2-13-73, Cl. 136-86.00r.
Goldbert, Donald D.; and Rosen, Stanley R. Prosthetic knee joint assembly with mutually slidable and rollable joint sections. 3,765,033, 10-16-73, Cl. 3-1.000.
Goldblat, Alexander; and Miller, Raymond. Disposable combined sphygmomanometer cuff and sound chamber. 3,757,772, 9-11-73, Cl. 128-2.05g.
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Golden, Eddie R. Wick-burning candle with multiple points of light emmission in its body. 3,753,643, 8-21-73, Cl. 431-126.000.
Golden, Gerald: *See—*
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Golden, Gerald; Wrobel, Charles V., Jr.; and Dian, Walter, to Excel Incorporated. Reflective bicycle pedal tread. 3,755,050, 8-28-73, Cl. 161-2.000.
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Golden, Michael E. Remote-control system for intelligence-recording apparatus with control tone eliminating switching. 3,725,589, 4-3-73, Cl. 179-6.00e.
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Golden, William Donald. Waterbed bedstead. 3,724,008, 4-3-73, Cl. 5-348.0wb.
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Goldfarb, Adolph E. Moving target game. 3,713,654, 1-30-73, Cl. 273-108.000.
Goldfarb, Adolph E.; and Soriano, Rene, said Soriano assor. to said Goldfarb, Adolph E. Magnetic play apparatus. 3,713,655, 1-30-73, Cl. 273-135.0ad.
Goldfarb, Adolph E. Vehicle loading toy. 3,721,035, 3-20-73, Cl. 46-40.000.
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Goldfarb, Adolph E. Mechanical doll. 3,721,040, 3-20-73, Cl. 46-119.000.
Goldfarb, Adolph E. Jump rope toy. 3,721,041, 3-20-73, Cl. 46-119.000.
Goldfarb, Adolph E.; and Strader, George C., said Strader assor. to said Goldfarb, Adolph E. Target and magnetically releasable projectile. 3,721,442, 3-20-73, Cl. 273-101.000.
Goldfarb, Adolph E.; and Ayala, Carl, said Ayala assor. to said Goldfarb, Adolph E. Push button doll. 3,724,125, 4-3-73, Cl. 46-119.000.
Goldfarb, Adolph E. Gear molding device. 3,724,803, 4-3-73, Cl. 249-102.000.
Goldfarb, Adolph E.; and Fernandez, Manuel, said Fernandez assor. to said Goldfarb, Adolph E. Stacking toy. 3,751,849, 8-14-73, Cl. 46-40.000.
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Goldfarb, Adolph E.; and Soriano, Rene, to Goldfarb, Adolph E. Game board for play of collision game. 3,768,810, 10-30-73, Cl. 273-120.00r.
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Goldman, Alan J.; and Shapiro, Stanley, to Olin Corporation. Plated copper base alloy article. 3,778,236, 12-11-73, Cl. 29-199.000.
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Goldman, Irving M., to Pfizer Inc. 1,3-Dimethyl-1,2,3,4-tetrahydroheterocyclo [x,y-f]purine-2,4-diones. 3,770,741, 11-6-73, Cl. 260-256.000.
Goldman, Irving M.; O'Shea, Daniel P.; Adams, Richard C.; and Nakanishi, Susumu, to Pfizer Inc. Process for the preparation of alpha-carboxyarylmethyl- and alpha-carboaryloxyarylmethyl penicillins. 3,773,757, 11-20-73, Cl. 260-239.100.
Goldman, Jerome L., to Lash Systems, Inc. Stabilizing device for lighters on hatch covers of cargo vessels. 3,722,736, 3-27-73, Cl. 220-97.00b.
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Morlock, Elizabeth Benz; Albright, Jay Donald; and Goldman, Leon, 3,741,992.
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Goldman, Leonid Semenovich; and Shteinfaier, Evgeny Lvovich. Device for winding continuous winding with interlay sections. 3,750,719, 8-7-73, Cl. 140-92.200.
Goldman, Lewis S.; Jeannotte, Dexter A.; and Krall, Bodgan, to International Business Machines Corporation. Quantitative test method for measuring solder-flux surface tension interaction. 3,780,568, 12-25-73, Cl. 73-64.400.
Goldman, Martin; and Johnson, Arthur L., to Eastman Kodak Company. Photoconductive elements containing organo-metallic photoconductors. 3,719,486, 3-6-73, Cl. 96-1.600.
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Goldowsky, Michael. Liquid administration apparatus. 3,756,233, 9-4-73, Cl. 128-214.00c.
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Goldsmith, Henry John; and Kirk, Frank, to Whiteley Lang and Neill Limited. Peritoneal dialysis apparatus. 3,730,183, 5-1-73, Cl. 128-213.000.
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Goldstein, Arnold M.; Effron, Edward; and Hochman, Jack M., to Esso Research and Engineering Company. Reactor vessel and up-down mixer. 3,734,469, 5-22-73, Cl. 259-8.000.
Goldstein, Barry, to Stagg Zipper Corporation. Zipper stringer. 3,735,454, 5-29-73, Cl. 24-205.130.
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Goldstein, Frederick A. Racket with resilient surface. 3,734,499, 5-22-73, Cl. 273-73.00e.
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Golitz, Hans Dietrich; Noll, Walter; Schnurrbusch, Karl; Seyfried, Klaus; and Simmler, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Aminomethyl-substituted organopolysiloxane as water-repellent and gloss-imparting coating for lacquered metal surface. 3,737,336, 6-5-73, Cl. 117-75.000.
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Gollnick, Cyril R., to Leach Company. Mechanism for refuse collection vehicles. 3,739,927, 6-19-73, Cl. 214-83.300.
Gollwitzer, Lee H.; and Lafleur, Clovis L., to Schlumberger Technology Corporation. Acoustic transmitting transducer apparatus. 3,712,410, 1-23-73, Cl. 181-.5rm.
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Golze, Richard R.; and Kienle, Richard F., to Rockwell International Corporation. High strength vehicle bumper. 3,779,592, 12-18-73, Cl. 273-98.000.
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Gomes, John M.; Uchida, Kenji; and Wong, Morton M. United States of America, Interior Recovery of niobium and tantalum. 3,725,221, 4-3-73, Cl. 204-61.000.
Gomes, John M.; and Uchida, Kenji, to United States of America, Interior. Electrolytic preparation of zirconium and hafnium diborides using a molten, cryolite-base electrolyte. 3,769,185, 10-30-73, Cl. 204-71.000.
Gomes, John M.; and Uchida, Kenji, to United States of America, Interior. Electrolytic preparation of titanium and zirconium diborides using a molten, sodium salt electrolyte. 3,775,271, 11-27-73, Cl. 204-71.000.
Gomez, Eloy A.; Goodsir, Stephen W.; and Marrocco, Dominic A., to American Home Products Corporation. Disposable cartridge for admixing two components of injectable medicament. 3,724,460, 4-3-73, Cl. 128-218.00m.
Gomez, Francisco M. Abaca chipper machine. 3,708,830, 1-9-73, Cl. 19-5.00r.
Gomez, Ivan, to Cane Machinery & Engineering Company, Inc. Mobile sugar cane wagon unloader. 3,752,335, 8-14-73, Cl. 214-44.00b.
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Gomp, Theodore Q., to Hunter Engineering Co., Inc. Emission-controlled pain line heat source. 3,737,280, 6-5-73, Cl. 432-41.000.
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Gonzalez, Bartolome Gauza. Batting practice device. 3,762,705, 10-2-73, Cl. 273-26.00r.
Gonzalez, Francisco V. Drafting instrument for drawing parallel lines. 3,745,657, 7-17-73, Cl. 33-110.000.
Gonzalez, Jose Angel Fernandez-Colmeiro, to Fernandez-Colmeiro S.A. Dispenser housing for wire and the like. 3,780,964, 12-25-73, Cl. 242-129.000.
Gonzalez, Paul S. Modular concrete floatation unit. 3,779,192, 12-18-73, Cl. 114-.50f.
Gonzalez, Teodoro J., to American Safety Equipment Corporation. Push button buckle. 3,708,838, 1-9-73, Cl. 24-230.000.
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Gooch, John Henry. Resilient railway vehicle transmission. 3,734,029, 5-22-73, Cl. 105-131.000.
Gooch, John Henry. Railway transmission. 3,762,336, 10-2-73, Cl. 105-136.000.
Gooch, Lester, to Midland Optical Incorporated. Two piece goggle construction. 3,713,732, 1-30-73, Cl. 351-153.000.
Good, Arthur L., to Robertshaw Controls Company. Electrical switch construction having barbed means for locking together the casing parts thereof. 3,718,795, 2-27-73, Cl. 200-168.00r.
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Good, Harper W., to Carborundum Company, The. Apparatus for granulating molded sand. 3,759,451, 9-18-73, Cl. 241-77.000.
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Good, Paul F., to Speedco, Inc. Mixing gland for stuffing meat dough. 3,774,266, 11-27-73, Cl. 17-41.000.
Good, Wayne W., to Harter Corporation. Chair back rest joint. 3,708,189, 1-2-73, Cl. 287-100.000.
Good, William E.; Di Grasso, Leonard; and Hoffman, James D., to Kelsey-Hayes Company. Turbine regenerative seal and method of making same. 3,761,101, 9-25-73, Cl. 277-96.000.
Goodacre, Cecil, to Lansing Bagnall Limited. Pedestrian operated industrial truck. 3,724,586, 4-3-73, Cl. 180-91.000.
Goodacre, Cecil, to Lansing Bagnall Limited. Differential gear mechanisms. 3,731,552, 5-8-73, Cl. 74-393.000.
Goodale, Richard J. Apparatus for trimming the stems of cut flowers. 3,738,212, 6-12-73, Cl. 83-602.000.
Goodale, Richard J. Apparatus for trimming the ends off vegetables. 3,738,258, 6-12-73, Cl. 99-643.000.
Goodale, William B., to Ford Motor Company. Pump suitable for a hydraulic steering power system having an auxiliary power source. 3,733,148, 5-15-73, Cl. 417-214.000.
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Goode, George E.; Morgan, Barrie O.; and Branscome, Kenneth M., to Datotek, Inc. Digital data ciphering technique. 3,781,472, 12-25-73, Cl. 178-22.000.
Goode, George E.; and Branscome, Kenneth M., to Datotek, Inc. Random digital code generator. 3,781,473, 12-25-73, Cl. 178-22.000.
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Gooderum, Leoda J. Channel insert attachment for a zipper foot. 3,724,408, 4-3-73, Cl. 112-240.000.
Goodfellow, Robert D., to Kennametal Inc., mesne. Rotary cutter for excavation, especially for use with raise boring and tunnel boring machines. 3,734,213, 5-22-73, Cl. 175-374.000.
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Goodhouse, Carl J.; and Niemand, Emil, to Robertshaw Controls Company. Computer cooking means. 3,746,250, 7-17-73, Cl. 235-61.00a.
Goodhue, William V.; and Pitts, Thomas E., to Leesona Corporation. Strand detection. 3,751,893, 8-14-73, Cl. 57-34.00r.
Goodie, Muriel L., 49 1/2% to Vessio, Robert J. and 1% to Valeri, Frank E. Baseboard electric heater shield. 3,768,549, 10-30-73, Cl. 165-55.000.
Goodin, Raymon L. Pool cleaning systems. 3,765,432, 10-16-73, Cl. 134-168.00r.
Gooding, Chester Martin; Parker, Wilbur; and Melnick, Daniel, to CPC International Inc. Peanut butter. 3,766,226, 10-16-73, Cl. 260-398.500.
Gooding, Gale A., to Johnson Plastic Corporation. Electrical raceway and decorative molding. 3,721,762, 3-20-73, Cl. 174-48.000.
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Goodman, Abraham. Elastic snood. 3,746,016, 7-17-73, Cl. 132-46.00r.
Goodman, Allan C. Optical verification device. 3,757,944, 9-11-73, Cl. 209-111.700.
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Goodman, Charles Jimmie. Navigational aid. 3,733,708, 5-22-73, Cl. 33-355.000.
Goodman, Daniel J. Current monitoring system for electric arc furnace conductors. 3,769,440, 10-30-73, Cl. 13-12.000.
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Goodman, Earl H. Pipe tight all. 3,774,481, 11-27-73, Cl. 81-57.013.
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Goodman, Harold. Toy submarine convertible to an airplane. 3,713,249, 1-30-73, Cl. 46-74.00r.
Goodman, Harold. Toy airplane. 3,733,737, 5-22-73, Cl. 46-79.000.
Goodman, Jack P. Pressurized cable system with lower pressure splice case. 3,770,871, 11-6-73, Cl. 174-11.00r.
Goodman, James L., to Morrison Molded Fiber Glass Company, mesne. Apparatus for impregnating fiber reinforcements with hardenable resin. 3,718,527, 2-27-73, Cl. 156-381.
Goodman, Johnny, 1/2 to Bristoni, Joseph J. Vehicle internal-combustion engine fuel control and signal device. 3,738,346, 6-12-73, Cl. 123-198.0db.
Goodman, Murray; and Wartman, Albert, to Sutures, Inc. Morpholineamide of α-cyanoacrylates and polymers thereof. 3,711,448, 1-16-73, Cl. 260-78.40n.
Goodman, Murray; and Kirshenbaum, Gerald S., to Sutures, Inc. Hydrolyzable polymers of amino acid and hydroxy acids. 3,773,737, 11-20-73, Cl. 260-78.00a.
Goodman, Robert; and Kilpatrick, David G. Adjustable hospital beds. 3,743,905, 7-3-73, Cl. 318-227.000.
Goodman, Robert; and Kilpatrick, David G., to Goodman Bros. Mfg. Co. Adjustable hospital beds. 3,763,979, 10-9-73, Cl. 192-89.00a.
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Gordon, Eugene Irving; and Maydan, Dan, to Bell Telephone Laboratories, Incorporated. High efficiency injection laser cavities. 3,715,685, 2-6-73, Cl. 331-94.50c.

Gordon, Frank. Means for applying glue to articles. 3,715,259, 2-6-73, Cl. 156-363.000.

Gordon, Frank J.; and Damm, Charles C., to United States of America, Atomic Energy Commission. Multiple ion source array. 3,723,730, 3-27-73, Cl. 250-41.90c.

Gordon, Gary B.: *See—*
Marshall, Howard D.; Gordon, Gary B.; Pipkin, Jesse E.; and Adler, Robin, 3,781,689.

Gordon, Gary B., to Hewlett-Packard Company. Method and apparatus for interrupting continuous pulse trains for counter readout without information loss. 3,716,703, 2-13-73, Cl. 235-92.0pl.

Gordon, George Simon, to RCA Corporation. Method of preventing inoperation of a component by loose particles of material. 3,765,941, 10-16-73, Cl. 134-42.000.

Gordon, Harry W., to Schmid, Julius, Inc. Method of treating prostatic hypertrophy. 3,714,347, 1-30-73, Cl. 424-115.000.

Gordon, Harry W.; and Schaffner, Carl P., to Schmid, Julius, Inc. Method for controlling absorption of cholesterol. 3,714,348, 1-30-73, Cl. 424-117.000.

Gordon, Harry W., to Schmid, Julius, Inc. Method of treating prostatic hypertrophy. 3,721,734, 3-20-73, Cl. 424-278.000.

Gordon, Harry W.; and Wasserstein, Paul B., to Schmid, Julius, Inc. Method of treating gonorrhea. 3,737,552, 6-5-73, Cl. 424-313.000.

Gordon, Harry W.; and Schaffner, Carl P., to Schmid, Julius, Inc. Compositions containing polyenic macrolide and aryl derivative of aliphatic acid and method for treating hyperlipidaemia. 3,777,018, 12-4-73, Cl. 424-117.000.

Gordon, Irving: *See—*
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Gordon, Jerry Dale. Aircraft towing vehicle. 3,749,266, 7-31-73, Cl. 214-334.000.

Gordon, Jing. Device for retaining trouser-legs in position while being machine ironed. 3,739,959, 6-19-73, Cl. 223-63.000.

Gordon, John Edward. Rope feed piston assembly. 3,717,071, 2-20-73, Cl. 92-137.000.

Gordon, John Henry, to Beloit Corporation. Mold trim device. 3,752,629, 8-14-73, Cl. 425-305.00b.

Gordon, Larry; and Paskow, Larry J. Surveillance camera. 3,752,047, 8-14-73, Cl. 95-11.000.

Gordon, Lenore. Method of preparing improved selective culture medium. 3,741,874, 6-26-73, Cl. 195-102.000.

Gordon, Leonard W.: *See—*
Dulebohn, Richard E.; and Gordon, Leonard W., 3,750,332.

Gordon, Lester. Camera film imaging device. 3,733,985, 5-22-73, Cl. 95-1.100.

Gordon, Lillian H.: *See—*
Gordon, Richard O., 3,768,261.

Gordon, Mack; and Phillippi, John F., to Aerodyne Development Corporation. Apparatus for collecting finely divided sticky material. 3,740,929, 6-26-73, Cl. 55-261.000.

Gordon Manufacturing Co.: *See—*
De Graaf, Clare J., 3,712,672.

Gordon, Maxwell: *See—*
Pachter, Irwin Jacob; and Gordon, Maxwell, 3,773,955.

Gordon, Maxwell; and Weisbach, Jerry A., to Smith Kline & French Laboratories. Phosphatide derivatives of prostaglandins. 3,746,728, 7-17-73, Cl. 260-403.000.

Gordon, Norman R.; and Pedersen, Herbert N., to United States of America, Atomic Energy Commission. Method of making a molded piezoelectric transducer assembly. 3,775,816, 12-4-73, Cl. 29-25.350.

Gordon, Paul, to Newport Pharmaceuticals, Inc. Inosine derivatives. 3,728,450, 4-17-73, Cl. 424-180.000.





Gordon, Peter R., to Leland Stanford Junior University, The Board of Trustees of the. High pressure valve. 3,733,050, 5-15-73, Cl. 251-214.000.

Gordon, Philip L.; and La Torre, Augustin, to General Latex and Chemical Corporation. Acrylic-nitrile foam-backed fabric and method of preparation. 3,713,868, 1-30-73, Cl. 117-65.200.

Gordon, Philip L.; and La Torre, Augustin, to General Latex and Chemical Corporation. Foamable acrylic latex composition and method of preparation. 3,714,078, 1-30-73, Cl. 260-2.50l.

Gordon, Phillip B., Jr.; and Whitehurst, Gerald Edward, to Caterpillar Tractor Company. Timing mechanism for engines. 3,742,925, 7-3-73, Cl. 123-139.0aq.

Gordon, Richard O., to Harnischfeger Corporation. Hoist-testing apparatus and control system therefor. 3,722,267, 3-27-73, Cl. 73-133.00r.

Gordon, Richard O., to Harnischfeger Corporation. Speed control system for hydraulic motor. 3,733,813, 5-22-73, Cl. 60-393.000.

Gordon, Richard O., to Harnischfeger Corporation. Hydraulic-electric control system for hydraulic motor. 3,760,591, 9-25-73, Cl. 60-444.000.

Gordon, Richard O., to Harnischfeger Corporation. Spring centered, spring modulated control cylinder. 3,766,836, 10-23-73, Cl. 92-85.000.

Gordon, Richard O.; deceased (by Gordon, Lillian H.; executrix), to Harnischfeger Corporation. Control system for hoist testing apparatus. 3,768,261, 10-30-73, Cl. 60-328.000.

Gordon, Robert Cornelius, Jr.; Walker, Jerry Lee; Sharpe, Andrew Jackson, Jr.; and Boothe, Jerry Emile, to Calgon Corporation. Silt removal. 3,752,760, 8-14-73, Cl. 210-58.000.

Gordon, Robert Cornelius, Jr., to Calgon Corporation. Glassy silicate corrosion inhibitor with controlled solution rate. 3,770,652, 11-6-73, Cl. 252-387.000.

Gordon, Robert E., to Mueller Steam Specialty Division SOS Consolidated. Adjustable valve assembly. 3,707,987, 1-2-73, Cl. 137-543.000.

Gordon, Robert Louis; and Siegele, John Charles, to International Paper Company. Case for shipping articles in an upright position and in spaced lateral separation. 3,709,325, 1-9-73, Cl. 206-65.00y.

Gordon, Robert M., to Milford Rivet and Machine Company. Brake shoe and method of manufacture thereof. 3,767,018, 10-23-73, Cl. 188-250.00g.

Gordon, Robert W. Compressor lubrication apparatus for closed reversible cycle ice-making systems. 3,769,812, 11-6-73, Cl. 62-352.000.

Gordon, Ronald H.: *See—*
Barker, Graham; and Gordon, Ronald H., 3,734,858.

Gordon, Ronnie D.; and Starks, Charles M., to Continental Oil Company. Isomerization of 1,2-dichloro-3-butene to 1,4-dichloro-2-butene. 3,709,949, 1-9-73, Cl. 260-654.00r.

Gordon, Sherritt, Mines Limited: *See—*
Evans, David John Ivor; Fustukian, David Alan Wayne; Norris, Leon Frederick; and Fraser, Robert William, 3,716,357.
Weir, Donald Robert; and Kofluk, Russell Peter, 3,716,618.

Gordon, Theodore J.; and Becker, Harold S., to Applied Futures, Inc. Voting machine. 3,766,541, 10-16-73, Cl. 340-332.000.

Gordon, Travis Hill; Marino, Patrick John; and Pilc, Randolph John, to Bell Telephone Laboratories, Incorporated. Time-division switch providing time and space switching. 3,715,505, 2-6-73, Cl. 179-15.0aq.

Gordon, Travis Hill; Marino, Patrick John; and Pilc, Randolph John, to Bell Telephone Laboratories, Incorporated. Recirculating store circuit for time-division switch processor. 3,731,281, 5-1-73, Cl. 340-172.00s.

Gordon, William J. J.: *See—*
Gordon, William J. J.; Marden, Carleton S.; and Sperry Charles R., 3,737,241.

Gordon, William J. J.; Marden, Carleton S.; and Sperry Charles R., to Gordon, William J. J., Fenn, Lawrence E.,, Gobhai, Cavas M. and Prince, George M. Container. 3,737,241, 6-5-73, Cl. 401-59.000.

Gordon, Wolfgang; Kleiner, Hans-Jerg; and Van Spankeren, Ulrich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Antistatic thermoplastic moulding compositions. 3,709,852, 1-9-73, Cl. 260-88.20s.

Gordon, Wolfgang; Rust, Kurt; and Schrott, Erwin, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Mixed catalyst for the polymerization of α-olefins. 3,752,797, 8-14-73, Cl. 260-93.700.

Gordon-Ross, Ronald H., to Stone Container Corporation. Divisible carton. 3,758,021, 9-11-73, Cl. 229-51.0db.

Gordy, Edward L.; and Gordy, Laura Jane. Device and method for bridge instruction. 3,731,399, 5-8-73, Cl. 35-8.00b.

Gordy, Edward M. Bacon broiler. 3,713,379, 1-30-73, Cl. 99-349.000.

Gordy, John. Process for the electrolytic recovery of lead, silver and zinc from their ore. 3,772,003, 11-13-73, Cl. 75-101.000.

Gordy, John. Process for the electrolytic recovery of copper from its ores. 3,778,360, 12-11-73, Cl. 204-107.000.

Gordy, Laura Jane: *See—*
Gordy, Edward L.; and Gordy, Laura Jane, 3,731,399.

Gordy, Travis L., to Continental Oil Company. Strippable coating compositions. 3,746,561, 7-17-73, Cl. 117-6.000.

Gore, Douglas Alan: *See—*
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Gore, Isaac E. Undercarriage container. 3,764,048, 10-9-73, Cl. 224-42.410.

Gore, Ralph E. Hand and arm washer. 3,761,989, 10-2-73, Cl. 15-104.920.

Gore, Thomas W.: *See—*
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Gore, W. L., & Associates, Inc.: *See—*
Gore, Wilbert L., 3,756,004.

Gore, Wilbert L., to Gore, W. L., & Associates, Inc. Method and apparatus for insulating electrical conductors. 3,756,004, 9-4-73, Cl. 57-11.000.

Gore, William C.; and Shapiro, Eugene B., to Beatrice Foods Co. Flapper flush valve. 3,707,733, 1-2-73, Cl. 4-57.00p.

Gore, William C.; and Shapiro, Eugene B., to Beatrice Foods Co. Means for controlling the direction of the flow of a liquid or fluid through a selected outlet and for sealing said outlets. 3,709,256, 1-9-73, Cl. 137-625.470.

Gore, William C.; and Shapiro, Eugene B., to Beatrice Foods Co. Clutch for use in the plumbing field. 3,710,591, 1-16-73, Cl. 64-30.00r.

Gorecki, Joseph S.: *See—*
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Goren, Yoram; and Lloyd, Samuel H., III, to Santa Fe International Corporation. Single column semisubmersible drilling vessel. 3,771,481, 11-13-73, Cl. 114-.50d.

Gorenshtein, Ilya Vladimirovich: *See—*
Basin, Genrikh Maxovich; Gorenshtein, Ilya Vladimirovich; Lemberg, Mark Eleazarovich; Linetsky, Semen Grigorievich; Myasoed, Anatoly Eliseevich; and Zanis, Yakov Benediktovich, 3,760,596.

Gores, Kenneth W., to Products Research & Chemical Corporation. Dual ingredient storage, intermixing and dispensing storage. 3,735,900, 5-29-73, Cl. 222-145.000.

Gores, Kenneth W. Reservoir dispenser. 3,739,955, 6-19-73, Cl. 222-385.000.

Goret, Jean R.: *See—*
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Gorey, Edward F.: *See—*
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Gorg, Otto: *See—*
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Gorgei, Donald J.; Weisz, Daniel I.; and Cooper, Russell B., to Beaver-Advance Corporation. Conveyor system for viscous or cementitious material. 3,767,031, 10-23-73, Cl. 198-92.000.

Gorgels, Martin J.: *See—*
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Mars, Pieter; Duyverman, Coenraad J.; and Gorgels, Martin J., 3,767,758.

Gorgen, Kurt: *See—*
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Gorgens, Joseph E.; and Bissell, Robert D., to Dresser Industries, Inc. Double seated regulating valve. 3,720,234, 3-13-73, Cl. 137-625.360.

Gorgens, Joseph E.; Heske, William A.; and Goff, Randall, to Dresser Industries, Inc. Differential pressure indicating apparatus. 3,739,645, 6-19-73, Cl. 73-407.00r.

Gorgens, Joseph E.; Heske, William A.; and Goff, Randall, to Dresser Industries, Inc. Motion displacement transducer. 3,742,233, 6-26-73, Cl. 250-231.00r.

Gorgens, Joseph E.; and Heske, William A., to Dresser Industries, Inc. Motion responsive electrical control apparatus. 3,768,311, 10-30-73, Cl. 73-398.0ar.

Gorges, Friedrich J., to Boeing Company, The. High lift leading edge device. 3,743,219, 7-3-73, Cl. 244-42.0ca.

Gorgie, Frank J.; and Johnson, Gene A. Brake lining condition indicator system. 3,716,832, 2-13-73, Cl. 340-52.002.

Gorginsky, Herbert L., to Raytheon Company. Transformer system for orthogonal digital. 3,742,201, 6-26-73, Cl. 235-156.000.

Gorglione, Victor T.: *See—*
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Gorin, Everett: *See—*
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Gorin, Everett, to Consolidated Coal Company. Conversion of calcium sulfate to calcium oxide and elemental sulfur. 3,729,551, 4-24-73, Cl. 423-638.000.

Gorin, Everett, to Consolidation Coal Company. Conversion of coal by solvent extraction. 3,748,254, 7-24-73, Cl. 208-8.000.

Gorin, Georges J., to LFE Corporation. Gas reaction apparatus. 3,775,621, 11-27-73, Cl. 250-531.000.

Gorinas, Guy; and Drnu, Claude, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Vacuum deposition apparatus. 3,763,821, 10-9-73, Cl. 118-49.000.

Goring, Cleve A. I.; and Sbragia, Ronald J., to Dow Chemical Company, The. Fungicidal methods and compositions containing a tricyclohexyltin compound and an aliphatic amine. 3,755,595, 8-28-73, Cl. 424-288.000.
Goritsky, Boris Sergelvich: *See—*
Golumev, Alexei Ivanovich; Gordeev, Vitaly Viktorovich; Goritsky, Boris Sergelvich; and Friedisman, Grigory Markovich, 3,751,046.
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Gorka, Donald J.; and Laskin, Harold B., to Minnesota Mining and Manufacturing Company. Fusing device. 3,716,221, 2-13-73, Cl. 118-60.000.
Gorke, Klaus: *See—*
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Hesse, Karl Dieter; and Gorke, Klaus, 3,766,215.
Gorke, Ronald R. Sound producing attachment for bicycles. 3,754,350, 8-28-73, Cl. 46-175.00r.
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Gorlitz, Hans: *See—*
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Gorman, Harry. Assembly for making a paper board sound recording package. 3,745,055, 7-10-73, Cl. 161-102.000.
Gorman, James J., Jr. Petroleum oil vaporizer. 3,728,092, 4-17-73, Cl. 48-102.00r.
Gorman, John F. Aerosol inhalation apparatus. 3,739,950, 6-19-73, Cl. 222-182.000.
Gorman, John F. Vehicle safety device. 3,753,576, 8-21-73, Cl. 280-150.0ab.
Gorman, John Thomas, to RCA Corporation. Bus bar with integral terminals. 3,740,693, 6-19-73, Cl. 339-19.000.
Gorman, Kenneth P. Toroidal head winding machine. 3,764,082, 10-9-73, Cl. 242-4.00b.
Gorman, Paul T.: *See—*
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Gorman, Roger A.: *See—*
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Gorner, Hurst; Kohler, Manfred; Limberger, Alois; and Osbeck, Walter, to Kienzle Apparate GmbH. Apparatus for separating and guiding sheet means of different thickness and width. 3,754,753, 8-28-73, Cl. 271-34.000.
Gornometallurgichesky Institut Kolskogo Filliala Akademii Nauk USSR: *See—*
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Gorog, Istvan; and Spong, Fred William, to RCA Corporation. Holographic recording system for large objects. 3,740,111, 6-19-73, Cl. 350-3.500.
Gorog, Sandor: *See—*
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Goron, John, to Midland-Ross Corporation. Manifold and adjustable nozzle assembly for molding machines. 3,718,166, 2-27-73, Cl. 141-236.000.
Goronkin, Herbert; and Lunden, John W., to General Electric Company. High power microwave field effect transistor. 3,737,743, 6-5-73, Cl. 317-235.00r.
Goroshkov, Boris Ivanovich; and Kovshov, Nikolai Ivanovich. Coherent analyzer of frequency-phase spectrum of electric signals. 3,781,568, 12-25-73, Cl. 307-232.000.
Gorrell, Gerald A.: *See—*
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Gorsuch, Harold F., to Westinghouse Electric Corporation. Control for an automatic washer. 3,750,429, 8-7-73, Cl. 68-12.00r.
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Gorton, Bert S., to Du Pont de Nemours, E. I., and Company. Polymeric film coated with vinyl acetate/ethylene copolymer adhesive. 3,725,124, 4-3-73, Cl. 117-138.8va.
Gortz, Norman; and Maccarone, Michael B. Bladder type dispenser. 3,767,078, 10-23-73, Cl. 220-63.00r.
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Goserud, Chester O. Lawn mower cutters. 3,715,874, 2-13-73, Cl. 56-295.000.
Gosger, Peter, to AEG-Elotherm GmbH. Method and apparatus for countersinking cavities in a workpiece. 3,719,569, 3-6-73, Cl. 204-129.550.
Gosger, Peter, to AEG-Elotherm G.m.b.H. Method of electrochemically machining titanium or titanium alloy workpieces. 3,753,878, 8-21-73, Cl. 204-129.100.
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Goshima, Takeshi; and Sato, Hideaki, to Canon Kabushiki Kaisha. Video disk signal recording system with cyclical speed control. 3,718,754, 2-27-73, Cl. 178-6.6dd.
Goshy, Allyn N.; and Rehm, Russell L. Coilometric metering device. 3,768,008, 10-23-73, Cl. 324-94.000.
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Gosselink, Eugene Paul; and Henderson, John H., to Procter & Gamble Company, The. Process for production of mellitic acid. 3,736,353, 5-29-73, Cl. 260-523.00a.
Gosser, Lawrence Wayne; and Tolman, Chadwick Alma, to Du Pont de Nemours, E. I., and Company. Compounds of zero-valent nickel containing N-bonded nitriles. 3,766,231, 10-16-73, Cl. 260-439.00r.
Gossick, Benjamin R.; and Schneider, Karl A., to University of Kentucky Research Foundation, The, mesne. Non-transposing mute. 3,760,679, 9-25-73, Cl. 84-400.000.
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Gossling, Robert C., to Clopay Corporation. Window shade cutter. 3,760,664, 9-25-73, Cl. 82-63.00r.
Gossling, Robert C., to Clopay Corporation. Window shade motor. 3,763,916, 10-9-73, Cl. 160-318.000.
Gosswiller, Earl W., to Federal Sign and Signal Corporation. Modular housing system for emergency vehicle accessory controls. 3,756,677, 9-4-73, Cl. 312-108.000.
Gostavson, Carl A.; Shutes, Emmett B.; and Wuenschel, Paul C., to Gulf Research & Development Company. Clamped detector. 3,777,814, 12-11-73, Cl. 166-212.000.
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Gostyn, Terence M.; and Schtlke, Waldemar. Apparatus for molding polyurethane articles. 3,771,928, 11-13-73, Cl. 425-4.00r.
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Berlin, Zalman Leivikovich; Isarev, Igor Vladimirovich; Vasilchenko, Anatoly Stepanovich; Maslovsky, Gennady Vasilievich; Serkov, Anatoly Gavrilovich; Yakimovich, Hviktor Yakovlevich; and Ivanovsky, Evgeny Alexandrovich, 3,712,369.
Goswami, Jagadish C.; and Jin, Jung Il, to Stauffer Chemical Company. Fire retardant resin compositions of post chlorinated vinyl halide-bis(hydrocarbyl) vinyl phosphonate copolymers. 3,725,359, 4-3-73, Cl. 260-78.5bb.
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Gotham, Robert W.; McKnight, Robert J.; and Neuwirth, Frank F., to Unex Conveying Systems, Inc. Conveyor assembly. 3,726,376, 4-10-73, Cl. 193-35.00r.
Gotham, Stanley T., to Cumberland Engineering Company, Inc. Granulator. 3,711,033, 1-16-73, Cl. 241-47.000.
Gotham, Stanley T.; and Thurber, Gerald A., to Cumberland Engineering Company, Inc. Cutting machine. 3,750,512, 8-7-73, Cl. 83-356.300.
Gothard, David Olen: *See—*
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Gothard, Nicholas, to Filteron International, Inc. Methods of and apparatus for separating solid and liquid particles from air and other gases. 3,740,925, 6-26-73, Cl. 55-5.000.
Gotmalm, Toro Christer. Propelling means for motor boats and auxiliary sailing yachts. 3,709,186, 1-9-73, Cl. 115-34.00a.
Goto, Eizo, to Tokyo Shibaura Electric Co., Ltd. Spark chamber apparatus for detecting radiations. 3,723,788, 3-27-73, Cl. 313-93.000.
Goto, Hachiro: *See—*
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Goto, Hideyuki, to Omron Tateisi Electronics Co. Article dispensing which arranges articles so that several may be viewed at one time for simultaneous approval of the operation. 3,724,717, 4-3-73, Cl. 221-155.000.
Goto, Hiro: *See—*
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Goto, Kazuhiro, to GSW Appliances Limited. Valve structure. 3,768,514, 10-30-73, Cl. 137-609.000.
Goto, Kenijiro, to Mansei Kogyo Kabushiki Kaisha. Impacting mechanism for impacting a piezo-electric body. 3,724,993, 4-3-73, Cl. 431-255.000.
Goto, Kenji; Shibata, Norio; and Mizuno, Kiyohiko, to Toyota Jidosha Kogyo Kabushiki Kaisha. Safety device for an enginc equipped with an exhaust gas purifier. 3,738,108, 6-12-73, Cl. 60-277.000.
Goto, Kunihiro: *See—*
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Goto, Mitsuhiro, to Kabushiki Kaisha Suwa Seikosha. Thin-type switchboard. 3,750,062, 7-31-73, Cl. 335-206.000.
Goto, Muncharu: *See—*
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Goto, Seizo, to Goto Optical Manufacturing Co., Ltd. Panoramic motion picture camera. 3,740,126, 6-19-73, Cl. 352-69.000.
Goto, Sugio, to Asahi Kasei Kogyo Kabushiki Kaisha. Method and apparatus for on-line yarn quality control. 3,757,211, 9-4-73, Cl. 324-61.00r.
Goto, Tomio: *See—*
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Goto, Tsugio; and Tamura, Tsutomu, to Asahi Kasei Kogyo Kabushiki Kaisha. Apparatus for detecting yarn quality information. 3,731,069, 5-1-73, Cl. 235-151.300.
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Gott, Brian E. B., to General Electric Company. Combination flux shield and flux shunt for a dynamoelectric machine. 3,714,477, 1-30-73, Cl. 310-256.000.
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Ritter, Klaus; Gott, Hans; Ritter, Josef; and Ritter, Gerhard, 3,708,646.
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Gottfried, Arthur. Juvenile seating system. 3,779,599, 12-18-73, Cl. 297-253.000.
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Gottfried Bischoff, bau Kompl. Gasreinigungs- und Wasserruckkuhlanlagen KG: *See—*
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Gottfried, Herbert. Continuous freeze dryer. 3,731,392, 5-8-73, Cl. 34-3.000.
Gottfried, Siegfried, to Biorex Laboratories Limited. Method for the treatment of atherosclerosis employing glucuronoglycosaminoglycan hyaluronate lyase. 3,708,575, 1-2-73, Cl. 424-94.000.
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Gottlieb, Alfred, to DESA Industries, Inc. Oiler apparatus for power tools. 3,763,962, 10-9-73, Cl. 184-15.00a.
Gottlieb, Arnold J.; and Majesko, George A., to Driver, Wilbur B., Company. Bimetal capable of deformation. 3,743,485, 7-3-73, Cl. 29-195.500.
Gottlieb, Arnold J.; and Majesko, George A., to Driver, Wilbur B., Company. Method for producing metallic filaments. 3,762,025, 10-2-73, Cl. 29-419.000.
Gottlieb, Arnold J.; and Majesko, George A., to Chase, W. M., Company, mesne. Thermostatic bimetals. 3,765,846, 10-16-73, Cl. 29-195.500.
Gottlieb, Carl R.: *See—*
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Gottlieb, Milton, to Westinghouse Electric Corporation. Display of manifestation. 3,727,001, 4-10-73, Cl. 178-7.30d.
Gottlieb, Nathan. Surgical clamp for circumcision. 3,757,787, 9-11-73, Cl. 128-34.600.
Gottliebson, Mayo; and Faes, Charles, to Flomatcher Co., Inc. Manometer control. 3,751,185, 8-7-73, Cl. 417-7.000.
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Gottschal, Gernot, to Morat, Franz, G.m.b.H., Firma. Device for the optical-electrical scanning of an information carrier. 3,766,394, 10-16-73, Cl. 250-205.00r.
Gottschalk, Friedrich; and Wildgruber, Otto, to Siemens Aktiengesellschaft. Clamping connector for bus bars. 3,733,575, 5-15-73, Cl. 339-22.00b.
Gottschalk, Horst; and Schulz, Hans-Georg, to Schwarzkopf, Hans, GmbH. Method for producing 2-acetyl-7-methoxy-1,2,3,4,9, 10-hexahydrophenanthrene. 3,773,835, 11-20-73, Cl. 260-586.00h.
Gottschlich, Rudolf W., to LaSalle Steel Company. Metallurgical process of bending steel to desired curvature or straightness while avoiding losses in strength. 3,720,087, 3-13-73, Cl. 72-364.000.
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Gottstein, William J.; and Cheney, Lee C., to Bristol-Myers Company. Novel syntheses of cephalexin and intermediates therefor. 3,714,146, 1-30-73, Cl. 260-239.100.
Gottwald, Gunther: *See—*
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Gotz, Hans, to Daimler-Benz Aktiengesellschaft. Water intercepting connection between the rear window and roof of a motor vehicle. 3,745,724, 7-17-73, Cl. 52-11.000.
Gotz, Hans, to Daimler-Benz Aktiengesellschaft. Installation for prevention of draft in the interior space of motor vehicles. 3,750,555, 8-7-73, Cl. 98-2.010.
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Gotzfried, Konrad. Method and apparatus for spinning yarns of staple fibers and filaments. 3,722,198, 3-27-73, Cl. 57-58.890.
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Goudreau, Noel G., to Goudreau-Behan, Incorporated. Weighting device for game club including tapered shaft. 3,716,239, 2-13-73, Cl. 273-194.00a.
Goudreau, Noel G., to Conco Inc. Loading balancer. 3,721,416, 3-20-73, Cl. 248-325.000.
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Gough, Arthur; and Tompsett, Alan John, to Imperial Chemical Industries Limited. Plasticising composition. 3,736,348, 5-29-73, Cl. 260-475.00r.
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Gough, George Terah, to Gough and Company (Hanley) Limited. Apparatus for casting ceramic articles. 3,720,494, 3-13-73, Cl. 425-147.000.
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Gough, Stanley T. D., to Mobil Oil Corporation. Phosphoryl and thiophosphoryl pyrones as insecticides. 3,714,350, 1-30-73, Cl. 424-203.000.
Gough, Stanley T. D., to Mobil Oil Corporation. 1-(2-Cyanoethoxy)-2,2-dichlorovinyl phosphate esters. 3,725,511, 4-3-73, Cl. 260-940.000.
Gouin, Albert J.; and Hall, Richard H., to Dow Chemical Company, The. Removal of vinylbenzylhalide polymeric deposits from surfaces. 3,762,952, 10-2-73, Cl. 134-38.000.
Gouirand, Rene, to Mercadante, Joseph. Air suspension with tapered air bag. 3,713,665, 1-30-73, Cl. 280-124.00f.
Gouirand, Rene, to Mercadante, Joseph. Combined vehicle chassis and air suspension system. 3,774,948, 11-27-73, Cl. 293-68.000.
Goukon, Atsushi: *See—*
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Gould, Charles D. Marine crane, particularly designed for handling cargo containers. 3,722,705, 3-27-73, Cl. 212-15.000.
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Gould, Douglas E.; Young, David E.; Anderson, Lowell Ray; and Fox, William Burke, to Allied Chemical Corporation. Tertiary poly fluoroalkyl hypochlorites and process for the preparation thereof. 3,755,405, 8-28-73, Cl. 260-453.00r.
Gould, Douglas Eugene: *See—*
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Gould, Douglas Eugene; Anderson, Lowell Ray; Young, David Edward; and Fox, William Burke, to Allied Chemical Corporation. Novel hydrogen containing fluoroalkyl hypochlorites and process for the preparation thereof. 3,716,570, 2-13-73, Cl. 260-453.00r.
Gould, Douglas Eugene; Anderson, Lowell Ray; and Fox, William Burke, to Allied Chemical Corporation. Process for the preparation of polyhaloorgano hypochlorites. 3,769,312, 10-30-73, Cl. 260-453.00r.
Gould, Edson B., III, 1/2 to Gibson, Robert V., and 1/2 to Ross, Thurston H., Jr. Electrical thermometer system and sensor therefor. 3,776,040, 12-4-73, Cl. 73-362.0ar.
Gould, Eric G.; and Davis, Edward P. Method for controlling the state of cure of curable articles. 3,718,721, 2-27-73, Cl. 264-40.000.
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Gould, Francis E.; and Shepherd, Thomas H., to National Patent Development Corporation. Water soluble entrapping of a fragrance. 3,772,215, 11-13-73, Cl. 252-522.000.
Gould, Gordon E., to Dow Chemical Company, The. Slitting device and method. 3,747,449, 7-24-73, Cl. 83-22.000.
Gould, Henry: *See—*
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Gould, Ira L., to General Motors Corporation. Range ventilating system. 3,719,137, 3-6-73, Cl. 98-115.00j.
Gould, James J., to Duro Paper Bag Manufacturing Company. Handle means. 3,737,945, 6-12-73, Cl. 16-125.000.
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Gould, Lawrence P., to Aspen Industries, Inc. Method for phosphate-free, synthetic detergent-based cleansing composition for use therein. 3,761,415, 9-25-73, Cl. 252-89.000.
Gould, Lawrence P.; and Hoffman, Robert J., to Allied Chemical Corporation. Anti-caking additives for inorganic salts. 3,777,007, 12-4-73, Cl. 423-268.000.
Gould, Leslie R., to Esso Research and Engineering Company. Continuous dewaxing of oils by in situ refrigeration. 3,720,599, 3-13-73, Cl. 208-33.000.
Gould, Reginald J., to North American Rockwell Corporation. Detector probe for mapping discontinuities in electromagnetic paths. 3,736,541, 5-29-73, Cl. 336-84.000.
Gould, Robert R., Jr., to General Motors Corporation. Oven heater element control circuit. 3,775,591, 11-27-73, Cl. 219-501.000.
Gould, Robert W., to Cable Switch Corporation. Alarm utilizing pressure and temperature responsive switch. 3,778,805, 12-11-73, Cl. 340-272.000.
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Gould, William; and Gould, Charna. Street sweeping brush. 3,750,225, 8-7-73, Cl. 15-182.000.
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Gould, William I., Jr.; and Evans, Jack, to United States of America, National Aeronautics and Space Administration. Millimeter wave antenna system. 3,716,869, 2-13-73, Cl. 343-779.000.
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Gourdine, Meredith C.; and Law, S. Edward, to Gourdine Systems, Inc. Electrostatic mass per unit volume dust monitor. 3,718,029, 2-27-73, Cl. 73-28.000.
Gourdine, Meredith C., to Gourdine Systems, Inc. Apparatus for suppressing airborne particles. 3,757,491, 9-11-73, Cl. 55-107.000.
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Goutos, George. Apparatus for removing particulate matter from a filter chamber. 3,726,402, 4-10-73, Cl. 210-107.000.
Gouw, Tan Hok, to Chevron Research Company. Extractive crystallization method for the separation of mixtures of alkenes and alkanes. 3,767,724, 10-23-73, Cl. 260-676.00r.
Gouws, Wentzel Christoffel. Pressure moulding machine. 3,724,988, 4-3-73, Cl. 425-348.000.
Gouy, Jean-Claude, to Service d'Exploitation Industrielle des Tabacs et des Allumettes. Transfer device for cigarettes and similar objects. 3,776,343, 12-4-73, Cl. 198-20.00c.
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Gowan, Richard L., to United States of America, Navy. Non-interfering on-line communication receiver test system. 3,736,512, 5-29-73, Cl. 325-363.000.
Gowanlock, Thomas W., to General Electric Company. Cutting tool. 3,731,356, 5-8-73, Cl. 29-96.00r.
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Goward, Stanley Harold; and Gooddard, Michael Robert, to BTR Industries Limited. End fittings. 3,768,844, 10-30-73, Cl. 285-137.00r.
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Graf, Carlton Eugene, to General Electric Company. Stabilizing means for an A-C motor drive. 3,753,063, 8-14-73, Cl. 318-227.000.
Graf, Carlton Eugene; Skogsholm, Einar Aasen; and Tracy, John Gaylor, to General Electric Company. Power system overcurrent protection means utilizing voltage adjustment. 3,775,651, 11-27-73, Cl. 318-227.000.
Graf, Edward D.: *See—*
Arora, Harpal S., 3,732,698.
Graf, Ernest, to Kahn, Ben, Furs Corporation. Fur skin hand mitten. 3,735,421, 5-29-73, Cl. 2-158.000.
Graf, Felix; Hablutzel, Karl; and Wirz, Armin, to Rieter Machine Works, Ltd. Heater drawroll for draw-twisting, draw-winding and spin-draw-winding machines. 3,761,666, 9-25-73, Cl. 219-10.490.
Graf, Hans. Device for producing X-ray pictures of temporomandibular joint. 3,777,140, 12-4-73, Cl. 250-490.000.
Graf, Mary C. Educational device. 3,708,892, 1-9-73, Cl. 35-31.00d.
Graf, Max E., to Badische Maschinenfabrik GmbH. Method and apparatus for cleaning and recuperating shot in the circulatory system of blasting apparatus. 3,716,946, 2-20-73, Cl. 51-9.000.
Graf, Max E.; Roth, Helmut; and Von Fahland, Jurgen W., to Badische Maschinenfabrik G.m.b.H. Control system for the circulatory system of a shot blasting apparatus. 3,742,650, 7-3-73, Cl. 51-5.000.
Graf, Robert E.: *See—*
Deeg, Emil W.; and Graf, Robert E., 3,763,052.
Prouty, Robert E.; and Graf, Robert E., 3,716,811.
Prouty, Robert E.; and Graf, Robert E., 3,733,568.
Robinson, Charles C.; Graf, Robert E.; Young, Robert W.; and Sproul, Merrill F., 3,711,264.
Snitzer, Elias; and Graf, Robert E., 3,731,226.
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Whalen, George J.; and Graf, Rudolf F., 3,710,371.
Graf, Stefano Arturo: *See—*
Amemiya, Hiroshi; and Graf, Stefano Arturo, 3,717,821.
Grafe, Hans; and Ullrich, Hans, to Siemens Aktiengesellschaft. Method of producing electrically insulated aluminum contacts. 3,759,798, 9-18-73, Cl. 204-15.000.
Graff, Harry James: *See—*
Baumgartner, Robert Garland; and Graff, Harry James, 3,757,269.
Graff, Kenneth W.; and Sherman, Albert H., to ICI America Inc. Textile treating compositions, process of treating textiles and textile articles. 3,738,981, 6-12-73, Cl. 260-239.30r.
Graff, Kenneth W., to ICI America Inc. Surfactants for solvent/water systems and textile treating compositions. 3,775,051, 11-27-73, Cl. 8-115.600.
Graff, Kurt; and Wijinhoven, Jan Mathijs Antoon, to Monroe Belgium N.V. Shock absorber and valve assembly. 3,756,357, 9-4-73, Cl. 188-282.000.
Graff, Renier J. L.; and Marchal, Adrianus G., to Stamicarbon N.V. Process of preparing polymers of conjugated dienes. 3,753,967, 8-21-73, Cl. 260-94.300.
Graff, Roderich W. Adsorber method and apparatus. 3,757,492, 9-11-73, Cl. 55-181.000.
Graff, Ronald A. Illuminated wax form and method of making same. 3,749,904, 7-31-73, Cl. 240-10.00b.
Graff, Stuart L.: *See—*
Johnson, Marvin F. L.; and Graff, Stuart L., 3,781,219.
Graff, William A.; and Kohut, Jaroslaw, to General Electric Company. Glass seals. 3,770,568, 11-6-73, Cl. 161-193.000.
Graffeo, Anthony J.: *See—*
Lieberman, Hillel; and Graffeo, Anthony J., 3,751,373.
Graffius, Kermit W. Dryer for athletic equipment. 3,747,226, 7-24-73, Cl. 34-104.000.
Graffman, Johan H.: *See—*
Winquist, Knut Ludvig; and Backman, Sture Anders, 3,720,403.
Grafford, John G., to Rowe International Inc. Semi-automatic sequencing machine. 3,710,482, 1-16-73, Cl. 29-203.00b.
Graflex, Inc.: *See—*
Deck, Howard C., 3,734,602.
Hickory, Roy E.; McFadden, Robert N.; and Delfin, Irwin, 3,737,220.
Grafstein, Daniel: *See—*
Barnes, Robert L.; and Grafstein, Daniel, 3,725,176.
Barnes, Robert L.; Block, William M.; and Grafstein, Daniel, 3,730,950.
Grafstrom, Stig Olof; and Blomovisi, Nils Verner, to Mo Och Domsjo Aktiebolag. Apparatus for converting sheet cellulose pulp to defibrated pulp. 3,753,530, 8-21-73, Cl. 241-34.000.
Gragert, Robert J. Combination holder for skis and ski poles. 3,737,956, 6-12-73, Cl. 24-81.0sk.
Graham, A. Douglas: *See—*
Abrahams, David H.; and Graham, A. Douglas, 3,762,860.
Graham, Alfred R., to United States of America, Army. Apparatus for a gun purging system. 3,771,414, 11-13-73, Cl. 89-1.00e.
Graham, Bruce C.: *See—*
O'Connor, Donald T.; Graham, Bruce C.; and Prine, David W., 3,774,030.
Graham, Bruce C.; and Dukats, Ilmars Z., to Magraflux Corporation. Biodegradable composition for detecting surface discontinuities. 3,716,492, 2-13-73, Cl. 252-301.20p.
Graham, Charles E. Drive transmitting mechanism. 3,777,493, 12-11-73, Cl. 60-493.000.
Graham, Charles H., to Anarak Incorporated. Coupling unit. 3,753,582, 8-21-73, Cl. 285-305.000.
Graham, Clyde B.: *See—*
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Graham, David Alan: *See—*
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Graham, Dennis P.: *See—*
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Graham, Donald W.: *See—*
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Graham, Douglas J., to United States of America, Navy. Floating water jet for oil slick control. 3,762,169, 10-2-73, Cl. 61-1.00f.
Graham, Edward P., to FMC Corporation. Wheel mounted tool support mechanism. 3,709,451, 1-9-73, Cl. 248-205.00r.
Graham Engineering Corporation: *See—*
Waterloo, William C., 3,751,014.
Waterloo, William C., 3,753,636.
Waterloo, William C., 3,753,639.
Waterloo, William C., 3,764,250.
Waterloo, William C., 3,764,253.
Graham, Hugh S.; and Hughes, Charles R., to Bethlehem Steel Corporation. Moving bed reactor. 3,747,764, 7-24-73, Cl. 210-189.000.
Graham, James F. Surgical dressing. 3,750,666, 8-7-73, Cl. 128-156.000.
Graham, James J., to Badger Company, Inc., The. Explosion and fire suppression system for catalytic reactors. 3,770,059, 11-6-73, Cl. 169-1.00a.
Graham, James Leo: *See—*
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Graham, James R. Catalytic control of auto exhaust emissions. 3,741,725, 6-26-73, Cl. 423-213.000.
Graham, James R., to Grace, W. R., & Co. Catalytic control of auto exhaust emissions. 3,755,534, 8-28-73, Cl. 423-213.700.
Graham, James T.; and Hackstock, Fred W., to Bendix Corporation, The. Over travel linkage for assembly machine station. 3,724,052, 4-3-73, Cl. 29-200.00p.
Graham, John W.: *See—*
Ayers, Robert C., Jr.; Bayless, Jack H.; Graham, John W.; Lloyd, James R.; Loth, William D.; and Williams, Robert E., 3,780,809.
Graham, John W. Tensiometer assembly for substitution type analytical balances. 3,780,569, 12-25-73, Cl. 73-64.400.
Graham, John W.; and Rickey, Wynn P., to Esso Production Research Company. Gravel-packing method and composition. 3,780,807, 12-25-73, Cl. 166-278.000.
Graham, John William: *See—*
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Graham, Joseph J. Electricians tool. 3,763,510, 10-9-73, Cl. 7-14.10r.
Graham, Joseph P.: *See—*
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Graham, Joseph P. Method of separating continuous form stationery. 3,777,958, 12-11-73, Cl. 225-4.000.
Graham, Leonard P.: *See—*
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Graham, Leroy C., to Goodyear Aerospace Corporation. Interferometer null multiplication technique and apparatus. 3,727,219, 4-10-73, Cl. 343-5.0cm.
Graham, Leslie Wilfred: *See—*
Voice, Eric Handley; Graham, Leslie Wilfred; and Sturge, Derek William James, 3,708,559.
Graham, Leslie Wilfred; Voice, Eric Handley; and Brinkmann, Heinz Ulrich, to United Kingdom Atomic Energy Authority. Pyrolytic deposition process for applying a multi-layer coating to a nuclear fuel kernel. 3,736,169, 5-29-73, Cl. 117-46.0cg.
Graham, MacKellar K.: *See—*
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Aspinwall, Ronald A.; and Graham, MacKellar K., 3,753,183.
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Ehrreich, John E.; and Reti, Adrian R., 3,755,008.
Graham, Martin H., to Comprehensive Health Testing Laboratories, Inc. Electrocardiograph apparatus. 3,757,778, 9-11-73, Cl. 128-2.06r.
Graham, Michael M., to Heyman Laboratory, The. Sedimentation measuring device. 3,781,118, 12-25-73, Cl. 356-201.000.
Graham, Patricia M.: *See—*
Witzel, Bruce E.; Shen, Tsung-Ying; Graham, Patricia M.; Clark, Robert L.; and Pessolano, Arsenio A., 3,721,676.
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Graham, Paul R.; Merchant, Morris V.; and Ottinger, August F., to Monsanto Company. Bonded nonwoven fibrous product. 3,752,733, 8-14-73, Cl. 161-170.000.
Graham, Philip G.; and Reich, Lawrence, to Lorbon Manufacturing Co., Inc. Electronic long-distance telephone call computer and recorder. 3,769,463, 10-30-73, Cl. 179-7.1tp.
Graham, Raymond C., to Denticator Co., Inc., The. Dental prophylaxis right angle hand piece. 3,727,313, 4-17-73, Cl. 32-27.000.
Graham, Richard P.; and Schaeflern, Henry, to Singer Company, The. Regulator for cam controlled feed in sewing machine. 3,753,411, 8-21-73, Cl. 112-210.000.
Graham, Robert C., to Polychrome Corporation. Apparatus for developing offset printing plates. 3,732,808, 5-15-73, Cl. 101-463.000.
Graham, Robert H., to Pearson, R. A., Company. Case packer. 3,766,706, 10-23-73, Cl. 53-124.00d.
Graham, Robert H.; and Wilson, John R., to Pearson, R. A., Company. Cover applicator for bottles. 3,768,136, 10-30-73, Cl. 29-208.00b.
Graham, Robert P.: *See—*
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Graham, Roger K.: *See—*
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Graham, Rooonald Lewis; and Pollak, Henry Otto, to Bell Telephone Laboratories, Incorporated. Interconnected loop digital transmission system. 3,710,026, 1-9-73, Cl. 179-15.0al.
Graham, Seymour C. Stackable cookie package and tray. 3,740,238, 6-19-73, Cl. 99-171.0ct.
Graham, Stanley: *See—*
Steels, Gordon; and Graham, Stanley, 3,770,358.
Graham, Thomas A. Portable charcoal igniter. 3,739,732, 6-19-73, Cl. 110-1.00f.
Graham, Thomas G., to Singer Company, The. Skip stitch mechanism for sewing machines. 3,727,568, 4-17-73, Cl. 112-221.000.
Graham, W. Waverly, III; and Jamieson, John M., to Valcometrix Corporation. Credit sales system. 3,742,451, 6-26-73, Cl. 340-149.00a.
Graham, William; and Wetherill, Lewis A., to Glaxo Laboratories Limited. Method of producing 7β-acylamido-3-methylceph-3-em-4-carboxylic acid esters and catalysts therefor. 3,725,397, 4-3-73, Cl. 260-243.00c.
Grahl, Darwin R.: *See—*
Eschbaugh, John T.; and Grahl, Darwin R., 3,738,573.
Grahl, Darwin R., to Parker-Hannifin Corporation. Coupling joint for plastic covered metal tube. 3,722,923, 3-27-73, Cl. 285-55.000.
Grahn, Arne Y., to Poly-Choke Company, Incorporated, The. Universal tool sharpening fixture. 3,722,148, 3-27-73, Cl. 51-225.000.
Grahn, Robert D., to Sunbeam Corporation. Hedge trimmer. 3,751,805, 8-14-73, Cl. 30-220.000.
Grahn, Robert Donald: *See—*
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Maksutov, Rafkhat; Asfandiyarov, Khalim Akhmetovich; Pashin, Vasily Fedorovich; Gubarev, Yakov Fedorovich; Sadykov, Rifgat Suleimanovich; Akhunov, Albert Musagitovich; Vakhitov, Gadel Galyautdinovich; Graifer, Valery Isaakovich; Zyalyaev, Vagiz Murzakhanovch; Kostrjukov, Gennady Vasilievich; and Efanov, Boris Fedorovich, 3,729,803.
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Grainger, Frederick: *See—*
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Grainger, Lewis M. D. Antipollution jet engine with reversible auxiliary jet engines operable independently to serve as auxiliary thrusters and brakes. 3,733,824, 5-22-73, Cl. 60-224.000.
Grainger, Lewis M. D. Anti-pollution portable oil heater. 3,738,798, 6-12-73, Cl. 432-222.000.
Grainger, Lewis M.D. Anti-pollution heating system. 3,713,433, 1-30-73, Cl. 126-116.00r.
Grainger, Robert B.: *See—*
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Marco, Gino J.; and Grainger, Robert B., 3,781,440.
Grakauskas, Vytautas, to United States of America, Navy, mesne. Preparation of fluoramine. 3,708,571, 1-2-73, Cl. 423-413.000.
Grakauskas, Vytautas, to Aerojet-General Corporation. Bis-n-n-difluorocarbamates. 3,729,504, 4-24-73, Cl. 260-482.00b.
Grakauskas, Vytautas; and Remanick, Allen H., to Aerojet-General Corporation. Preparation of fluoroammonium salts and their applications. 3,732,291, 5-8-73, Cl. 260-573.00r.
Gralenski, Nicholas M.; and Wada, George, to Watkins-Johnson Company. Convergent flow hollow beam X-ray gun with high average power. 3,751,701, 8-7-73, Cl. 313-57.000.
Grall, Kenneth J.: *See—*
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Malecki, Ronald J.; and Grall, Kenneth J., 3,731,550.
Gram, Hans, to Brodrene Gram A/S. Annular table for a rotating freezing apparatus. 3,733,846, 5-22-73, Cl. 62-345.000.
Gramatica, Giorgio: *See—*
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Gramdy, Andrew J., to United States of America, Army. Universal smoke marking grenade for dry and inundated areas. 3,726,226, 4-10-73, Cl. 102-65.000.
Gramera, Robert E.: *See—*
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Gramig, Harry A., to Springer Company, Inc. Adapter connector. 3,731,718, 5-8-73, Cl. 141-384.000.
Gramiger, Adrian; and Baumann, Willy. Block action for sporting guns dropping breech. 3,710,493, 1-16-73, Cl. 42-23.000.
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Gramling, Wesley A. Nozzle apparatus for cementious material. 3,768,939, 10-30-73, Cl. 425-87.000.
Gramling, William D. Television signal converter. 3,725,570, 4-3-73, Cl. 178-5.20r.
Gramm, Eugene R., to Bourns, Inc. Non-linear potentiometer with conductor array. 3,723,938, 3-27-73, Cl. 338-162.000.
Gramm, Herman W.; Gorby, Clifford L.; and Leetma, Juri G., to Hughes Aircraft Company. Die cast waveguide low pass filter. 3,777,286, 12-4-73, Cl. 333-70.00s.
Grammagnac, Jacques Leopold Emile: *See—*
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Grams, Ralph R. Biological fluid sampling apparatus. 3,771,965, 11-13-73, Cl. 23-259.000.
Gramse, Harold E., to Pullman Incorporated. Container bracket arrangement for railway car. 3,768,421, 10-30-73, Cl. 105-366.00d.
Gramza, Eugene P.; and Schreiber, David D., to Eastman Kodak Company. Photoconductive composition and method. 3,732,180, 5-8-73, Cl. 260-33.60r.
Gramza, Eugene P.; and Stahly, Frederick A., to Eastman Kodak Company. Photoconductive coating employing an imbibed conductive interlayer. 3,740,217, 6-19-73, Cl. 96-1.500.
Gramza, Eugene Patrick, to Eastman Kodak Company. Radiographic screen. 3,712,827, 1-23-73, Cl. 117-33.50r.
Gran, Torleif. Apparatus for heating water by means of an oilburner. 3,730,166, 5-1-73, Cl. 126-350.00r.
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Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,693, 9-25-73, Cl. 235-153.00ac.
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Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,710, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,711, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,712, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,713, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,714, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,715, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,716, 9-25-73, Cl. 235-153.00ac.
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Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,718, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,719, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,720, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,721, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,722, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,723, 9-25-73, Cl. 235-153.00ac.
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Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,728, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,729, 9-25-73, Cl. 235-153.00ac.
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Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,731, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,732, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,733, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,734, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,735, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,736, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,737, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,738, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,739, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,740, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,741, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,742, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,743, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,744, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,745, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,746, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,747, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,748, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,749, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,750, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,751, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,752, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,753, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,754, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,755, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,756, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,757, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,758, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,759, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,760, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,761, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,762, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,763, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,764, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,765, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,766, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,767, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,768, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,769, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,770, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,771, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,772, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,773, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,774, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,775, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,776, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,777, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,778, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,779, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,780, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,781, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,782, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,783, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,784, 9-25-73, Cl. 235-153.00ac.
Granahan, Thomas J., to Sperry Rand Corporation. Method and apparatus for testing the operation of a digital computer. 3,761,785, 9-25-73, Cl. 235-153.00ac.
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Granada, Richard Paul, to International Telephone and Telegraph Corporation. Sealing ring. 3,756,126, 9-4-73, Cl. 92-38.000.
Granatek, Alphones Peter: *See—*
Kaplan, Murray A.; and Granatek, Alphones Peter, 3,711,471.
Granath, Kirsti Annikki: *See—*
Bjork, Lars; Erikson, Uno Eugen; Granath, Kirsti Annikki; Ingelman, Bjorn Gustav-Adolf; and Lindberg, Bernt Jabes, 3,733,397.
Granati, Salvatore. Adapter for fitting oversized spools of thread on a spool mount. 3,738,590, 6-12-73, Cl. 242-130.000.
Granato, Jack L.; and Moore, Richard F., to Honeywell Inc. Plated wire memory fabrication. 3,727,304, 4-17-73, Cl. 29-604.000.
Granberg, Donald R., to Koehring Company. Live axle drive system. 3,774,709, 11-27-73, Cl. 180-53.0wa.
Granberg, Elof. Sighting device. 3,729,199, 4-24-73, Cl. 273-183.00b.
Granberg, Elof. Grinding apparatus and method. 3,738,200, 6-12-73, Cl. 76-25.00a.
Granberg, Frederick M.: *See—*
Lee, Charles A.; and Granberg, Frederick M., 3,773,613.
Granberg, Mauritz; and Mueller, Hubert W., Jr., to Sperry Rand Corporation. Digital vector generator utilizing intensity control as a function of vector angle and velocity. 3,723,802, 3-27-73, Cl. 315-18.000.
Granberg, Mauritz; and Mueller, Hubert W., Jr., to Sperry Rand Corporation. Digital vector generator which causes the electron beam to move in the largest possible increment by sensing if the line is divisible by 2*. 3,728,575, 4-17-73, Cl. 315-18.000.
Grancher, Pierre: *See—*
Douchet, Charles; Grancher, Pierre; and Vecchiutti, Robert, 3,708,542.
Grand City Container Corporation: *See—*
Rous, Arthur, 3,722,783.
Grand Haven Stamped Products Company: *See—*
Bruhn, Max R. C., Jr., 3,765,264.
Bruhn, Max R. C., Jr., 3,774,469.
Grand, Marcel: *See—*
Bayssat, Michel; Fontaine, Louis; and Grand, Marcel, 3,780,102.
Grand, Paul Sheldon, to Colgate-Palmolive Company. Compositions containing aminopolyureylene resin. 3,726,815, 4-10-73, Cl. 252-544.000.
Grandbouche, Emil A.: *See—*
Fichels, Harry A.; and Grandbouche, Emil A., 3,773,356.
Grandell, Charles E.: *See—*
Pile, Donald L.; Grandell, Charles E.; Flye, Arthur H.; and Scheuermann, Henry R., Sr., 3,731,400.
Grandfield, Joseph P.: *See—*
Dawson, Harry J.; Hoftiezer, Wallace A.; Keedy, David E.; Mangus, Ervin E.; Patton, Eugene K.; and Grandfield, Joseph P., 3,759,323.
Grandin, Daniel, to Fives Lille-Cail. Dock crane. 3,735,879, 5-29-73, Cl. 214-14.000.
Grandio, Philip, Jr.; and Allen, Paul T., to Mobil Oil Corporation. Recovery of isomers from aromatic mixtures. 3,729,523, 4-24-73, Cl. 260-674.00a.
Grandjanny, Charles. Terminal gripping device for elastic cord. 3,751,772, 8-14-73, Cl. 24-126.00c.
Grandjean, Philippe, to Sandoz Ltd. Difluoropyrimidylamino-group-containing metallized water-soluble reactive formazane dyes. 3,725,382, 4-3-73, Cl. 260-146.00d.
Grandjean, Philippe; and Steinemann, Willy, to Sandoz Ltd. Metal complexes of substituted carbamoyl formazane. 3,773,748, 11-20-73, Cl. 260-149.000.
Grandmaison, John P.: *See—*
Cooper, Stuart B.; and Grandmaison, John P., 3,766,531.
Grando, Jean: *See—*
Fremiot, Charles; and Grando, Jean, 3,778,656.
Grandrud, Ebenhard S. Rotary drive mechanism. 3,738,181, 6-12-73, Cl. 74-13.000.
Grandy, Andrew J., to United States of America, Army. Training cartridge. 3,745,923, 7-17-73, Cl. 102-41.000.
Grandy, Andrew J., to United States of America, Army. Cartridge ladder link. 3,759,137, 9-18-73, Cl. 89-35.00r.
Granfield, John S. Material removal device. 3,712,174, 1-23-73, Cl. 90-12.000.
Grangaard, Orrin H.; and Peake, Ernest R., to Stage-Brite Inc. Circuitry for controlling A.C. power. 3,708,743, 1-2-73, Cl. 323-22.0sc.
Grange, Kenneth H.: *See—*
Binns, Julian R. H.; and Grange, Kenneth H., 3,733,043.
Granger, Alain; and Sausse, Andre, to Rhone-Poulenc S.A. Device for purging gas from a liquid. 3,778,971, 12-18-73, Cl. 55-159.000.
Granger, Charles C. Tree fruit picking apparatus. 3,744,226, 7-10-73, Cl. 56-328.00r.
Granger, Edward H., to Phillips, F. C., Incorporated. Athletic shoe spike anchor plate. 3,735,507, 5-29-73, Cl. 36-59.00r.
Granger, Edward H., to Phillips, F. C., Incorporated. Shoe outsole unit. 3,738,026, 6-12-73, Cl. 36-59.00r.
Granger, Edward H., Jr., to Phillips, F. C., Incorporated. Golf shoe cleat and support therefor. 3,757,434, 9-11-73, Cl. 36-2.0ah.
Granger, Joe, Jr. Walking-type concrete edger. 3,758,909, 9-18-73, Cl. 15-235.800.
Granger, Richard J., to Cincinnati Milacron, Inc. Fine adjustment mechanism for stock feeding device. 3,709,050, 1-9-73, Cl. 74-121.000.
Granger, Wallace H. Ink transfer cylinder mounting with adjustable drive clutch. 3,709,147, 1-9-73, Cl. 101-351.000.
Granges Essem Aktiebolag: *See—*
Jonason, Karl Gunnar; Karlsson, Karl Harry; and Remning, Ake Gustaf Vilhelm, 3,745,631.
Jonason, Karl Gunnar; Karlsson, Karl Harry; and Remning, Ake Gustaf Vilhelm, 3,762,031.
Nilsson, Karl-Ivar Sigurd, 3,758,044.
Granges Essem Aktiebolag, mesne: *See—*
Roos, Erling, 3,744,824.
Granier, Hector, to A-T-O Inc. Screw-down valves for filling bottles with drinks. 3,773,092, 11-20-73, Cl. 141-46.000.
Granig, Hubert. Collision actuated bumper. 3,729,221, 4-24-73, Cl. 293-9.000.
Granig, Hubert. Impact protector for automotive vehicles. 3,751,092, 8-7-73, Cl. 293-73.000.
Granite State Machine Company, Inc.: *See—*
Richer, Donald R., 3,734,261.
Granitz, Richard Francis, to AMP Incorporated. Slide selector switch assembly. 3,745,270, 7-10-73, Cl. 200-16.00c.
Granja, Louis Albert: *See—*
McGovern, Harold Joseph, Jr.; and Granja, Louis Albert, 3,780,843.
Granlund, Gosta Holger: *See—*
Jonason, Arne Holger; and Granlund, Gosta Holger, 3,709,565.
Jonason, Arne Holger; and Granlund, Gosta Holger, 3,744,849.
Granlund, Gosta Holger, to Saab-Scania Aktiebolag. Control unit for monitoring electronic control systems for braking devices in wheeled vehicles. 3,723,965, 3-27-73, Cl. 340-53.000.
Granlund, Gosta Holger, to Saab-Scania Aktiebolag. System for automatically checking brake regulating systems. 3,750,101, 7-31-73, Cl. 340-52.00b.
Grannen, Edward A., to Occidental Petroleum Corporation. Flotation of siliceous materials with diamine reaction products. 3,768,646, 10-30-73, Cl. 209-166.000.
Granning, Ole, to Granning Suspensions, Inc. Vehicle suspension. 3,713,663, 1-30-73, Cl. 280-112.00r.
Granning, Ole, to Granning Suspensions, Inc. Vehicle suspension. 3,747,948, 7-24-73, Cl. 280-112.00r.
Granning Suspensions, Inc.: *See—*
Granning, Ole, 3,713,663.
Granning, Ole, 3,747,948.
Grannis, Norman J.; and Winkler, Ted, to TRW Inc. Digital cell for large scale integration. 3,772,536, 11-13-73, Cl. 307-304.000.
Grannis, Roland K., to Pacific Utilities Supply Co. Mechanical load limiter for power lines. 3,711,049, 1-16-73, Cl. 248-64.000.
Gransart, Philippe: *See—*
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Granskog, Roland; and Degerman, Rolf, to Linden-Alimak AB. Mining equipment suspended from roof-mounted rails. 3,731,976, 5-8-73, Cl. 299-18.000.
Grant, Alan, & Partners: *See—*
Grant, Alan Barnett; and Sherman, Ralph, 3,738,112.
Grant, Alan Barnett; and Sherman, Ralph, to Grant, Alan, & Partners. Bridging or spanning of bodies of water. 3,738,112, 6-12-73, Cl. 61-43.000.
Grant, Arthur G.: *See—*
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Grant, Bernard Carrington; and Reilly, John F., to General Tire & Rubber Company, The. Replaceable seat insert and process of making. 3,708,367, 1-2-73, Cl. 156-267.000.
Grant, Carl C., to Brown & Williamson Tobacco Corporation. Cigarette carton with pack separator. 3,721,335, 3-20-73, Cl. 206-48.500.
Grant, Charles H., to Dow Chemical Company, The. Method for creating underground cavities employing explosives. 3,710,718, 1-16-73, Cl. 102-23.000.
Grant, Charles H., to Dow Chemical Company, The. Preparing explosive composition having precipitated salt matrix. 3,737,350, 6-5-73, Cl. 149-17.000.
Grant, Clarence L.: *See—*
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Grant, Donald S., to Merrow Machine Company. Connection of tubular element to a garment. 3,725,955, 4-10-73, Cl. 2-90.000.
Grant, Gene Louise: *See—*
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Grant, Herbert Charles Furney. Pump means. 3,771,920, 11-13-73, Cl. 417-211.000.
Grant, John M., to International Telephone and Telegraph Corporation. Microchannel plate gas display panel. 3,745,554, 7-10-73, Cl. 340-324.00r.



Grant, John M., to International Telephone and Telegraph Corporation. Cathode ray tube system. 3,772,551, 11-13-73, Cl. 313-2.000.
Grant, John Milton. Method of making photocells. 3,736,207, 5-29-73, Cl. 156-294.000.
Grant, McLean M.: *See—*
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Grant, Norman H.: *See—*
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Fenichel, Richard L.; Grant, Norman H.; and Alburn, Harvey E., 3,755,569.
Wendt, Gerhard R.; Clark, Donald E.; and Grant, Norman H., 3,734,904.
Grant, Norman H.; and Alburn, Harvey E., to American Home Products Corporation. 2-Phenoxyalkanoic acid esters. 3,717,669, 2-20-73, Cl. 200-473.00g.
Grant, Norman H.; and Alburn, Harvey L., to American Home Products Corporation. 2-Phenoxyalkanoic acid esters. 3,759,950, 9-18-73, Cl. 260-326.00a.
Grant, Norman H.; and Alburn, Harvey E., to American Home Products Corporation. Method of reducing serum cholesterol with 2-phenoxyalkanoic acid esters. 3,769,431, 10-30-73, Cl. 424-308.000.
Grant Oil Tool Company: *See—*
Cugini, Edward T., 3,750,771.
Leathers, Clarence H., 3,749,187.
Leathers, Clarence H., 3,757,877.
Grant, Perry J., to Klamer, Reuben B.; d/b/a Klamer, Reuben, & Associates. Game bap having a maze. 3,731,933, 5-8-73, Cl. 273-113.000.
Grant, Ralph M.: *See—*
Stetson, Karl A.; and Grant, Ralph M., 3,744,911.
Grant, Roger L. Gauge for indicating exhaust time of air supply for scuba divers. 3,715,927, 2-13-73, Cl. 73-389.000.
Grant, Ronald D., to JFD Electronics Corporation. Director array for antennas. 3,727,232, 4-10-73, Cl. 343-815.000.
Grant, Whitney I., to Vilter Manufacturing Corporation. Two-stage refrigeration system having crankcase pressure regulation in high stage compressor. 3,719,057, 3-6-73, Cl. 62-193.000.
Grant, Whitney I., to Vilter Manufacturing Corporation. Single stage dry cylinder compressor having automatic oil drain from suction chamber to crankcase. 3,724,231, 4-3-73, Cl. 62-157.000.
Granta Corporation: *See—*
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Grantham, Charles R. Shop towel folder. 3,744,785, 7-10-73, Cl. 270-45.000.
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Grantham, Le Roy F., to North American Rockwell Corporation. Removal of nitrogen oxides and other impurities from gaseous mixtures. 3,754,074, 8-21-73, Cl. 423-210.500.
Grantham, Paulette. Continuous laundering. 3,720,080, 3-13-73, Cl. 68-19.100.
Grantham, Paulette. Continuous laundering. 3,744,277, 7-10-73, Cl. 68-53.000.
Grantley Company, The: *See—*
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Granure Corporation Limited, The, mesne: *See—*
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Granville, James E. Ski safety strap. 3,776,565, 12-4-73, Cl. 280-11.35n.
Granville, William Francis; deceased (by Granville, Winifred Mary; executrix). Infinitely variable speed transmissions. 3,728,911, 4-24-73, Cl. 74-752.00f.
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Granzotti, Angelo N., to International Business Machines Corporation. Free hand drawing display system utilizing light pen to write and erase information. 3,758,717, 9-11-73, Cl. 178-.800.
Granzow, Wayne G., to Armco Steel Corporation. Deep drawing method. 3,769,824, 11-6-73, Cl. 72-41.000.
Grapengiesser, Johann-Claus; Klein-Albenhausen, Heinrich; Van Hees, Adrian; and Siefert, Gerhard, to Peters, Claudius, Aktiengesellschaft. Pneumatic conveyer chute. 3,774,972, 11-27-73, Cl. 302-29.000.
Grapentin, Kurt: *See—*
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Graphic Arts Center: *See—*
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Graphic Arts Packaging Corporation: *See—*
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Graphic Controls Corporation: *See—*
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Graphic Electronics, Inc.: *See—*
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Graphic Sciences, Inc.: *See—*
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Graphic Systems, Inc.: *See—*
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Graphic Trend Associates Ltd.: *See—*
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Grapin, Basile Pierre. Method for fixing a lining. 3,755,024, 8-28-73, Cl. 156-57.000.
Gras, Silvio S.: *See—*
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Graseby Instruments Limited: *See—*
Sharman, Lewis Godfrey; and Morris, Richard, 3,763,298.
Grasenick, Fritz; and Jakopic, Erich. Method for producing preparations for electromicroscopic examination. 3,729,629, 4-24-73, Cl. 250-49.5te.
Grasenick, Fritz. Apparatus for the preparation and treatment of thin layers. 3,736,246, 5-29-73, Cl. 204-298.000.
Graser, Clarence F., to Westinghouse Electric Corporation. Ice cube storage container and dispenser. 3,747,810, 7-24-73, Cl. 222-199.000.
Graser, Earl J., to Olinkraft, Inc. Returnable wrap-around. 3,747,801, 7-24-73, Cl. 220-113.000.
Graser, Earl J., to Olinkraft, Inc. Wrap-around article carrier with secondary retention end panels. 3,747,835, 7-24-73, Cl. 229-40.000.
Graser, Earl J., to Olinkraft, Inc. Crown-support carrier with straight lock. 3,764,001, 10-9-73, Cl. 206-65.00e.
Graser, Earl J., to Olinkraft, Inc. Multiple-article carrier of the crown-support type. 3,767,041, 10-23-73, Cl. 206-65.00e.
Graser, Fritz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Dyes of the pyrathrone series. 3,754,008, 8-21-73, Cl. 260-360.000.
Grashoff, Adolph W.: *See—*
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Grason, Rufus L.: *See—*
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Grason-Stadter Company: *See—*
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Grass, George M., Jr.; and Unangst, Raymond R., to Smith Kline & French Laboratories. Process for preparing polyhalohemiacetal derivatives of polysaccharides. 3,753,976, 8-21-73, Cl. 260-233.30a.
Grass, Gunther: *See—*
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Grasse, Charles Louis: *See—*
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Grasselli, Robert K.; and Callahan, James L., to Standard Oil Company, The. Fuel cell containing an electrolyte consisting of an aqueous solution of arsenic acid. 3,719,528, 3-6-73, Cl. 136-86.00r.
Grassi, Arturo: *See—*
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Grassi, Ralph A.; and Leemhuis, Louis J. Constant volume flow device. 3,763,884, 10-9-73, Cl. 137-504.000.
Grassl, Herbert; and Muller, Robert, to Elcon A.G. Prefabricated buildings. 3,762,122, 10-2-73, Cl. 52-741.000.
Grassman, Willard F.; and Erich, Malcolm, to Silco, Inc. Mop frame. 3,775,802, 12-4-73, Cl. 15-147.00a.
Grassmayr, Klaus: *See—*
Bretschneider, Hermann; Grassmayr, Klaus; Hohenlohe-Oehringen, Kraft; and Grussner, Andre, 3,770,761.
Grasso, Albert P.: *See—*
Gagnon, Richard N.; Banic, Carl V.; and Grasso, Albert P., 3,716,415.
Grasso, Albert P.; and Stedman, James K., to United Aircraft Corporation. Wet bulb temperature sensor. 3,712,140, 1-23-73, Cl. 73-338.000.
Grasso, Carmen P.: *See—*
Schulz, Max; and Grasso, Carmen P., 3,772,666.
Grasso, Vito A.; and Frankel, Michael S., to Budd Company, The. Vacuumized container for a parachute. 3,712,568, 1-23-73, Cl. 244-148.000.
Grassos Koninklijke Machinenfabrieken N.V.: *See—*
Romijn, Johannes Gerardus, 3,765,188.
Grataloup, Xavier Roger, to Societe Anonyme: Nodet-Gougis. Proportioning device for granulated or pulverulent products. 3,744,725, 7-10-73, Cl. 239-669.000.
Grate, Gilbert M.: *See—*
Davis, Donald A.; and Grate, Gilbert M., 3,711,174.
Grate Manufacturing, Company, The: *See—*
Newman, Charles J., 3,748,462.
Gratsch, Jack M., to Cutters Exchange, Inc. Sew-off means for automatic sewing machines. 3,776,155, 12-4-73, Cl. 112-121.150.



Gratton, Charles Peter, to United Kingdom Atomic Energy Authority.

Gratton, Charles Peter, to United Kingdom Atomic Energy Authority. Coolant systems for nuclear reactors. 3,773,618, 11-20-73, Cl. 176-60.000.
Grattoni, Giusio. Hand manipulative ball and race puzzle device. 3,749,405, 7-31-73, Cl. 273-153.00r.
Gratz, Ronald L., to Continental Oil Company. Submersible single point mooring facility. 3,722,223, 3-27-73, Cl. 61-46.000.
Gratzke, Werner, to Siemens Aktiengesellschaft. Protective circuit arrangement for a switching transistor in an inductive load circuit. 3,729,655, 4-24-73, Cl. 317-33.00r.
Gratzmuller, Jean Louis. Control device. 3,727,639, 4-17-73, Cl. 137-596.160.
Gratzmuller, Jean Louis. Pneumatic spring devices. 3,752,461, 8-14-73, Cl. 267-113.000.
Gratzmuller, Jean Louis. High power hydraulic control systems for an electric switch. 3,766,343, 10-16-73, Cl. 200-82.00b.
Gratzmuller, Jean Louis. Interrupter device for high voltage direct current. 3,777,178, 12-4-73, Cl. 307-136.000.
Grau, Gerard: *See—*
Fontanel, Andre; and Grau, Gerard, 3,721,954.
Grau, Gerard; and Fontanel, Andre, to Institut Francais du Petrole, des Carburants et Lubrifiants. Method for the composition of recordings and device for carrying out the same. 3,764,967, 10-9-73, Cl. 340-15.5ss.
Grau, Gerhard: *See—*
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Grau, Werner: *See—*
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Gruner, Hans; and Nicolay, Heinz, 3,718,372.
Gruner, Hans; and Nicolay, Heinz, 3,767,274.
Grauel, Edwin L. Multi-keeled kite. 3,740,008, 6-19-73, Cl. 244-153.00r.
Grauer, Christopher B. Spring type grounding means for electrical fixtures. 3,728,468, 4-17-73, Cl. 174-51.000.
Grauer, Oscar, to Fischer & Porter Company. Lined flow tube for electromagnetic flowmeter. 3,750,468, 8-7-73, Cl. 73-194.0em.
Grauer, Oscar H.; Seglem, Omund A.; and Kaucher, Erwin K., to Fischer & Porter Company. End-sealed variable-area flowmeter. 3,715,921, 2-13-73, Cl. 73-209.000.
Grauer, Oscar H., to Fischer & Porter Company. Ball valves. 3,773,291, 11-20-73, Cl. 251-315.000.
Graulich, Wilhelm; Beck, Manfred; Marwede, Gunter; and Theisen, Dieter, to Bayer Aktiengesellschaft. Mixtures of polyisoprene rubber and polypentenamer. 3,769,369, 10-30-73, Cl. 260-887.000.
Graup, Josef: *See—*
Messner, Sigfried; Depmeyer, Lothar; Barth, Lothar; Graup, Josef; and Rhein, Stein A., 3,750,310.
Graup, Josef. Hinge boot. 3,718,995, 3-6-73, Cl. 36-2.5ac.
Graupner, Eberhard: *See—*
Johne, Hans; and Graupner, Eberhard, 3,750,570.
Graupner, Eberhard, to VEB Polygraph Leipzig Kombinat fur Polygraphische Maschinen und Ausrustungen. Stirring apparatus for circulating color or ink in the colorchest of a printing machine. 3,710,714, 1-16-73, Cl. 101-364.000.
Grauso, Robert N.: *See—*
Morena, John J.; and Grauso, Robert N., 3,757,027.
Grav-I-Flo Corporation, The: *See—*
Davidson, Richard L., 3,715,840.
Gravel, Charles: *See—*
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Gravel, Charles L.: *See—*
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Gravely, Lawrence Edmond; and Newton, Richard Paul, Jr., to Brown & Williamson Tobacco Corporation. Microbial digestion of tobacco materials. 3,747,608, 7-24-73, Cl. 131-141.000.
Graven, Richard G.; and Heinemann, Heinz, to Mobil Oil Corporation. Split-stream reforming to upgrade-low-octane hydrocarbons. 3,753,891, 8-21-73, Cl. 208-62.000.
Graven, Richard G., to Mobil Oil Corporation. Split feed reforming and N-paraffin elimination from low boiling reformate. 3,770,614, 11-6-73, Cl. 208-62.000.
Graven, Robert M. Pen light, a graphical input device for a computer. 3,761,620, 9-25-73, Cl. 178-18.000.
Graver, Odd, to A/S Ingeniorfiroiset Fornhart & Giertsen. Method and apparatus for wrapping a load with heat-shrinkable film. 3,777,446, 12-11-73, Cl. 53-30.000.
Graver, Richard Byrd: *See—*
Dalton, Jerry Owen; and Graver, Richard Byrd, 3,709,743.
Graver, Richard T. Jar opening fixture. 3,724,296, 4-3-73, Cl. 81-3.30r.
Gravereaux, Daniel W.: *See—*
Bauer, Banjamin B.; and Gravereaux, Daniel W., 3,708,631.
Graversen, Niels P. G.; and Sorensen, Carl; deceased (by Sorensen, Inger Vorre; administratrix), to Danfoss A/S. Valve for a heating element. 3,735,776, 5-29-73, Cl. 137-359.000.
Gravert, William H., to Marine Moisture Control Company, Inc. Emergency hand pump connection for hydraulically operated valves. 3,756,281, 9-4-73, Cl. 137-625.480.
Graves Corporation: *See—*
Zemlin, John C.; and Dow, Glenn W., 3,758,126.
Graves, Donald C.: *See—*
Heap, James C.; Brown, Fred; and Graves, Donald C., 3,766,862.
Graves, Gail W.; Pope, Gerald R.; Stewart, Joseph T., Jr.; and Petrosky, Willard L., to Dore, John L., Co. Lined butterfly valve. 3,778,028, 12-11-73, Cl. 251-306.000.
Graves, Howard K.: *See—*
Szpak, Anthony D.; and Graves, Howard K., 3,726,998.
Graves, Howard K., to Olin Corporation, mesne. Pulley belt assembly. 3,719,098, 3-6-73, Cl. 74-216.500.
Graves, Howard T.: *See—*
Bradshaw, Bobbie G.; and Graves, Howard T., 3,766,539.
Graves, James G. Two-cycle internal combustion engine. 3,729,927, 5-1-73, Cl. 60-39.600.
Graves, Kenneth E.: *See—*
McCune, Clarence G.; Vincer, John C.; and Graves, Kenneth E., 3,759,442.
Porter, Lawrence C.; and Graves, Kenneth E., 3,780,365.
Graves, Paul D. Rotary internal combustion engine. 3,726,259, 4-10-73, Cl. 123-8.230.
Graves, Ralph L.: *See—*
Schumacher, Walter C.; and Graves, Ralph L., 3,781,502.
Graves, Ralph L., to General Electric Company. Mercury button closure. 3,711,671, 1-16-73, Cl. 200-221.000.
Graves, Richard H.: *See—*
DeRouen, Ray J.; Tuggle, Ray; and Graves, Richard H., 3,752,318.
Graves, Thomas M., to Chevron Research Company. Seed coating composition. 3,707,807, 1-2-73, Cl. 47-57.600.
Graves, William P.; Passavant, Francis C.; and Worters, Allen J., to GTE Sylvania Incorporated. Apparatus for displaying waveforms of time-varying signals employing a television type display. 3,765,009, 10-9-73, Cl. 340-324.00a.
Gravicast Patentverwertungsgesellschaft m.b.H.: *See—*
Tenner, Oskar, 3,777,801.
Gravimetrics Incorporated: *See—*
Codina, Jorge G., 3,721,984.
Gravina, Timothy J., to Westinghouse Brake and Signal Company, Limited. Dispensing control and/or monitoring apparatus. 3,756,463, 9-4-73, Cl. 222-26.000.
Graviner (Colnbrook) Limited: *See—*
Bakly, Peter K.; and McCulloch, Alistair, 3,747,557.
McCulloch, Alister L., 3,741,309.
McCulloch, Alister L., 3,747,685.
Gravitt, Elmer W. Fish lure. 3,748,772, 7-31-73, Cl. 43-41.000.
Gravlee, Leland C., to Becton, Dickinson and Company. Aspirating syringe with grasping rings. 3,758,006, 9-11-73, Cl. 222-323.000.
Gravley, Wilton: *See—*
Sexton, James H.; Slover, Vasel R., Jr.; Patton, Bobbie J.; and Gravley, Wilton, 3,770,006.
Gravoki Systems Limited: *See—*
Roberts, George Wavell, 3,730,652.
Gravure-Flex Packaging Corporation: *See—*
Roman, Robert R., 3,750,873.
Grawey, Charles E., to Caterpillar Tractor Company. Flexible track belts. 3,773,394, 11-20-73, Cl. 305-38.000.
Grawey, Charles E., to Caterpillar Tractor Company. Belted oval pneumatic tube-tire. 3,776,792, 12-4-73, Cl. 156-124.000.
Gray, Alden J., to Howe Richardson Scale Company. Quadrature-to-serial pulse converter. 3,710,265, 1-9-73, Cl. 328-61.000.
Gray, Alden J., to Howe Richardson Scale Company. Piece counting system. 3,716,706, 2-13-73, Cl. 235-151.330.
Gray, Arnold Leo. Portholes. 3,779,198, 12-18-73, Cl. 114-178.000.
Gray, Charles A.: *See—*
Seglin, Leonard; and Gray, Charles A., 3,734,716.
Seglin, Leonard; and Gray, Charles A., 3,734,717.
Gray, Charles S.: *See—*
Allen, George W.; and Gray, Charles S., 3,715,128.
Gray, Claude W. Stringshot back-off tool. 3,713,484, 1-30-73, Cl. 166-117.500.
Gray, Colin, to Crosfield Business Machines Limited. Sheet conveyor and printer which outstacks and prints selected sheets. 3,709,146, 1-9-73, Cl. 101-317.000.
Gray, Colin; and Burge, Anthony Robert, to Crosfield Business Machines Limited. Sheet feeding apparatus. 3,764,133, 10-9-73, Cl. 271-103.000.
Gray, Darwyn T.: *See—*
Lynch, Edward J.; and Gray, Darwyn T., 3,776,028.
Gray, Don N., to Owens-Illinois, Inc. Olefin-$SO_2$ compositions containing finely divided fusible inorganic material and method for bonding therewith. 3,728,185, 4&17-73, Cl. 156-89.000.
Gray, Donald R.; and Germuska, Richard W. Fuser for electrostatic image. 3,772,497, 11-13-73, Cl. 219-216.000.
Gray, Frederick William, to Colgate-Palmolive Company. Stain removal. 3,714,050, 1-30-73, Cl. 252-99.000.



Gray, Frederick William, to Colgate-Palmolive Company. Exothermic cosmetic. 3,772,203, 11-13-73, Cl. 252-90.000.
Gray, Gary W. Article transporting device. 3,735,831, 5-29-73, Cl. 180-19.00r.
Gray, George Carrol: *See—*
Caron, Fred Joseph; Caron, James Oliver; and Gray, George Carrol, 3,718,170.
Caron, Fred Joseph; Caron, James Oliver; and Gray, George Carrol, 3,724,342.
Gray, George William, to Hoffmann-La Roche Inc. Ultrasonic visualization. 3,718,032, 2-27-73, Cl. 73-67.700.
Gray, George William, to Hoffmann-La Roche Inc. Ultrasonic visualization improvement. 3,750,462, 8-7-73, Cl. 73-67.700.
Gray, Ira M. Entrance structure for a liquid conduit. 3,777,786, 12-11-73, Cl. 138-109.000.
Gray, Jack K. Leaf and refuse catcher. 3,722,023, 3-27-73, Cl. 15-257.100.
Gray, James G.; and Sontag, Kenneth E., to McDonnell Douglas Corporation. Fitting and method for filling or evacuating a container. 3,771,278, 11-13-73, Cl. 53-7.000.
Gray, James H.; and Rood, William E., Jr., to Garland Steel Company. Cotton stripping means. 3,729,909, 5-1-73, Cl. 56-34.000.
Gray, James S., to Harris-Intertype Corporation, mesne. High-speed high-sensitivity threshold detector. 3,770,983, 11-6-73, Cl. 307-235.00r.
Gray, Joe W.; Hartnell, Geoffrey W.; and Legg, James C., to United States of America, Atomic Energy Commission. Method of locating defects in a high-voltage insulating tube. 3,761,720, 9-25-73, Cl. 250-302.000.
Gray, John; and Anderson, Gene W., to Liqui-Trol Systems, Inc. Water pressure booster system using auxilliary pump to super charge pressurized reservoir. 3,746,471, 7-17-73, Cl. 417-7.000.
Gray, John F. Continuous cascade shelving assembly of knockdown character. 3,777,897, 12-11-73, Cl. 211-55.000.
Gray, John H.; Schneider, Alfred; Cormak, Anthony F.; and Ayers, Arnold L., to Allied Chemical Corporation. Apparatus for electrolytic oxidation or reduction, concentration, and separation of elements in solution. 3,770,612, 11-6-73, Cl. 204-261.000.
Gray, John McCutcheon; Pionke, Jerzy; and Johnson, Edwin, to Pilkington Brothers Limited. Apparatus for scoring sheet material. 3,742,793, 7-3-73, Cl. 83-8.000.
Gray, John W., to Singer Company, The. Sine cosine frequency tracker. 3,748,590, 7-24-73, Cl. 331-12.000.
Gray, Kenneth W.: *See—*
Hardy, Walter H.; and Gray, Kenneth W., 3,777,270.
Trant, Robert F.; Gray, Kenneth W.; and Capron, John W., 3,730,087.
Gray, Laverne E.: *See—*
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Craft, Roger L.; and Gaarder, Gilbert W., 3,780,987.
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Gray, Marion I., Jr., to Owens-Illinois, Inc. Method for making heat exchange matrix by crystallation. 3,773,484, 11-20-73, Cl. 65-4.000.
Gray, Martin Ernest; Whittaker, Dennis William; and Appleton, David, to Pilkington Brothers Limited. Cutting glass. 3,744,690, 7-10-73, Cl. 225-2.000.
Gray, Norman E., to Newport Laboratories. Counter anti-jitter circuit. 3,728,524, 4-17-73, Cl. 235-92.0pl.
Gray, Paul E., to Veeder Industries, Inc. Optical display device and drive circuit therefor. 3,750,140, 7-31-73, Cl. 340-336.000.
Gray, Peter V.: *See—*
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Gray, R. A., Jr.: *See—*
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Gray, R. Flanagan; Caswell, John; and Muller, William G. Rotogyro. 3,721,403, 3-20-73, Cl. 244-7.00a.
Gray, R. Flanagan; Caswell, John; and Muller, William G. Sucking wound plug and chest aspirator. 3,777,757, 12-11-73, Cl. 128-278.000.
Gray, Ralph B. Anti-drip device. 3,762,591, 10-2-73, Cl. 215-100.500.
Gray, Richard G., to Magnetic Head Corporation. Combined battery charger and automatic ignition booster. 3,729,637, 4-24-73, Cl. 307-10.0bp.
Gray, Richard W., to USM Corporation. Automatic hemmimg machines. 3,736,892, 6-5-73, Cl. 112-141.000.
Gray, Richard W.; Rumball, Paul G.; and Brett, Oliver C., Jr., to USM Corporation. Top sheet separating, hold-back-down mechanism. 3,738,645, 6-12-73, Cl. 271-97.000.
Gray, Robert C.: *See—*
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Leis, Michael D.; and Gray, Robert C., 3,743,839.
Gray, Robert M.: *See—*
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Gray, Roy A.; and Brady, Donnie G., to Phillips Petroleum Company. Flame retarded block copolymers and additive system therefor. 3,755,227, 8-28-73, Cl. 260-28.50a.
Gray, Samuel A.; and Perello, Armando, to Textron, Inc. Apparatus for monitoring pressure variations in a fluid pressure system. 3,748,656, 7-24-73, Cl. 340-240.000.
Gray, Samuel A. Push-pull linear motor. 3,774,642, 11-27-73, Cl. 137-625.650.
Gray, Sidney; Levin, Burton Joshua; and Miller, David Joseph, to RCA Corporation. Comprising a slab of semiconductor material. 3,721,923, 3-20-73, Cl. 333-31.00a.
Gray, Stuart William, to U.S. Philips Corporation. Controlling and monitoring combustible gases. 3,766,441, 10-16-73, Cl. 317-157.000.
Gray Tech Industries, Inc.: *See—*
Sticker, Charles W., Jr., 3,733,831.
Stickler, Charles W., Jr., 3,742,102.
Gray, Thomas E. H.: *See—*
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Gray, Thomas H.; and Martin, Jack P., to Allegheny Ludlum Industries, Inc. Method of producing substantially non-oriented silicon steel strip by three-stage cold rolling. 3,770,517, 11-6-73, Cl. 148-111.000.
Gray Tool Company: *See—*
Holbert, Marvin L., Jr., 3,710,860.
Holbert, Marvin L., Jr., 3,713,485.
Holbert, Marvin L., Jr., 3,726,341.
Phipps, Willis M.; Holbert, Marvin L., Jr.; and McGee, John K., 3,780,802.
Gray, Vernon H., to United States of America, National Aeronautics and Space Administration. Ablative system. 3,720,075, 3-13-73, Cl. 62-467.000.
Gray, Vernon H., to United States of America, National Aeronautics and Space Administration. Space vehicle with artificial gravity and earth-like environment. 3,749,332, 7-31-73, Cl. 244-1.0sc.
Gray, Virgil E. Nail driver. 3,716,088, 2-13-73, Cl. 145-46.000.
Graybeal, Cicero R. Multiple pass fluid irradiator with sediment removal capability. 3,767,918, 10-23-73, Cl. 250-433.000.
Graybeal, Michael Robin, to Champion Corporation. Power rodder construction. 3,774,827, 11-27-73, Cl. 226-50.000.
Graybill, Howard W., to I-T-E Imperial Corporation. High-voltage pressurized gas-insulated power transmission systems. 3,767,837, 10-23-73, Cl. 174-27.000.
Graybill, Howard W.; and Wilson, Walter M., to I-T-E Imperial Corporation. Circuit breaker connection to gas insulated bus. 3,767,976, 10-23-73, Cl. 317-103.000.
Graybill, Wilbur H. Harvesting machine. 3,742,691, 7-3-73, Cl. 56-259.000.
Grayron Industries Limited: *See—*
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Grayson, Allan S.: *See—*
Grayson, Barry H.; and Grayson, Allan S., 3,726,012.
Grayson, Barry H.; and Grayson, Allan S. Dental apparatus with enhanced handpiece manipulability. 3,726,012, 4-10-73, Cl. 32-22.000.
Grayson, Bobby W., to Sellers and Brace. Non-stretching explosive cord. 3,731,626, 5-8-73, Cl. 102-27.00r.
Grayson, Martin: *See—*
Farley, Charles Edward; and Grayson, Martin, 3,719,552.
Grayson, Martin; and Farley, Charles Edward, to American Cyanamid Company. Catalyzed oxygen bleaching. 3,736,224, 5-29-73, Cl. 162-65.000.
Grayson, Martin, to American Cyanamid Company. Tertiary organophosphines. 3,754,035, 8-21-73, Cl. 260-584.00r.
Grayson, Richard D.; Dobson, John W.; and Unfried, Happy H., to International Telephone and Telegraph Corporation. Pilot light apparatus. 3,770,368, 11-6-73, Cl. 431-354.000.
Grayson, Richard Davis, to International Telephone and Telegraph Corporation. Oven with automatic cook and keep warm mode selection. 3,743,179, 7-3-73, Cl. 236-15.00a.
Grayson, Richard Davis, to International Telephone and Telegraph Corporation. Oven valve circuit and thermostatic actuator therefor. 3,754,704, 8-28-73, Cl. 236-15.00a.
Grazen, Frank S.; Buike, Melvin L.; and Bryzinsky, Frank M., to Hooker Chemical Corporation. Friction element composition. 3,767,612, 10-23-73, Cl. 260-38.000.
Grazen, Frank S.; Buike, Melvin E.; and Bryzinsky, Frank M., to Hooker Chemical Corporation. Friction particle for brake lining. 3,781,241, 12-25-73, Cl. 260-38.000.
Graziani, Danio, to International Standard Electric Corporation. Automatic time control circuit. 3,712,994, 1-23-73, Cl. 307-293.000.
Grazioli, Alberto: *See—*
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Greaney, Gerald F.: *See—*
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Greaney, Harry D. Game device having push-pull cue for holding plurality of playing pieces. 3,765,678, 10-16-73, Cl. 273-119.00r.

Greaney, John E., to General Nuclear, Inc. Radioactive tracer method and apparatus for boreholes. 3,766,388, 10-16-73, Cl. 250-266.000.
Greason, William Wallace, III: *See—*
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Swenson, Paul F., Sr., 3,760,439.
Great Western Sugar Company, The: *See—*
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Greatbatch, Wilson, to Medtronic, Inc., mesne. Rate controller and checker for pulse generator means. 3,718,909, 2-27-73, Cl. 340-167.00a.
Greatbatch, Wilson, to Greatbatch, Wilson, Ltd. Lithium battery enclosure. 3,723,183, 3-27-73, Cl. 136-83.00r.
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Greathouse, Jack F., to Mack Trucks, Inc. Miniature fuel injection nozzle and holder assembly. 3,777,984, 12-11-73, Cl. 239-533.000.
Greathouse, Russell E. Toe holder. 3,712,271, 1-23-73, Cl. 119-96.000.
Greatrix, Graham Roland: *See—*
Quayle, Joshua Creer; and Greatrix, Graham Roland, 3,762,371.
Greaves, Jeffrey Chester; and Oakes, William George, to Imperial Chemical Industries, Limited. Olefine polymerisation at high pressures using a dispersed Ziegler-type catalyst. 3,723,403, 3-27-73, Cl. 260-94.900.
Greaves, Melvin J., to McKee, Arthur G., & Company. Blast furnace with staggered tuyere system. 3,722,871, 3-27-73, Cl. 266-29.000.
Greaves, Melvin J.; and Werner, Tage, to McKee, Arthur G., & Company. Furnace apparatus. 3,733,065, 5-15-73, Cl. 266-43.000.
Greaves, Richard Johnson, to Brownbuilt Limited. Storage facility. 3,724,389, 4-3-73, Cl. 104-162.000.
Greaves, Richard William: *See—*
Fowler, Eliot Patrick; and Greaves, Richard William, 3,710,269.
Grebe, Konrad. Control for self-advancing hydraulic roof supports for longwall faces in mines. 3,724,329, 4-3-73, Cl. 91-189.000.
Grebe, Kurt R.: *See—*
Anacher, Wilhelm; Grebe, Kurt R.; Greiner, James H.; Lahiri, Syamal K.; Park, Kyo C.; and Zappl, Hans H., 3,733,526.
Grebe, Ludwig, to Kramer & Grebe KG Maschinen- und Modellfabrik. Apparatus for guiding a foil web. 3,738,556, 6-12-73, Cl. 226-173.000.
Grebe, Robert Karl; and Kreinberg, Earl Raymond, to AMP Incorporated. Automatic lead making and wiring machine. 3,766,624, 10-23-73, Cl. 29-203.0mw.
Greber, Gerd; and Schott, Herbert, to Papierwerke "Waldhof-Aschaffenburg" AG. Gels for use in gel chromatographic procedures and processes for producing the same. 3,778,393, 12-11-73, Cl. 260-17.45g.
Greber, Gerd; and Darns, Roland, to Ciba-Geigy Corporation. Process for the production of shapeable polymers containing COQ-silyl groups. 3,779,990, 12-18-73, Cl. 260-47.0cp.
Greber, Isaac, to Bell Telephone Laboratories, Incorporated. Laminar flow wall attachment fluid logic device. 3,739,814, 6-19-73, Cl. 137-81.500.
Grebinar, Paul D. Rotational lighting system. 3,751,654, 8-7-73, Cl. 240-52.00r.
Grebner, Fritz; Kolsch, Wilhelm; Spindler, Gerhard; and Ehemann, Walter. Lattice girder. 3,777,433, 12-11-73, Cl. 52-693.000.
Grebow, Wolfe. Washer shaping tool. 3,744,069, 7-10-73, Cl. 7-4.000.
Grecchi, Giorgio. Process and apparatus for coating panels with resinous compositions. 3,713,935, 1-30-73, Cl. 156-231.000.
Greck, Eugene, to American Flange & Manufacturing Co., Inc. Article handling system. 3,747,738, 7-24-73, Cl. 198-33.0aa.
Greco, Alberto: *See—*
Carbonaro, Antonio; Greco, Alberto; Dall Asta, Gino; and Cameli, Nazzareno, 3,766,284.
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Greco, Alberto; Carbonaro, Antonio; and Asta, Geno Dall, to Goodrich, B. F., Company, The. Catalysts for preparing polycyclic unsaturated hydrocarbons. 3,748,279, 7-24-73, Cl. 252-429.00b.
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Stamm, Walter; and Greco, Carl C., 3,752,880.
Greco, Carl C.; and Martin, Donald J., to Stauffer Chemical Company. Plasticized sulfur compositions. 3,734,753, 5-22-73, Cl. 106-19.000.
Greco, Carl C.; Mirviss, Stanley B.; and Martell, Arthur E., to Stauffer Chemical Company. Complex mixtures of N-benzyldihydronicotinic acid dimers and metal salts thereof and derivatives thereof. 3,781,296, 12-25-73, Cl. 260-295.50r.
Greco, Edgar J., to Eastman Kodak Company. Optical glass. 3,715,221, 2-6-73, Cl. 106-47.00q.
Greco, Phillip V., Sr. Heating torch. 3,759,245, 9-18-73, Cl. 126-406.000.
Greco, Vincent: *See—*
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Greczin, John J. Circular knitting machine and method of knitting a tubular envelope over a flexible hose. 3,760,606, 9-25-73, Cl. 66-9.00a.
Greefkes, Johannes Anton: *See—*
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Greek, John C., Jr.; and Tanner, Howard C., to International Business Machines Corporation. System for revision line retrieval. 3,755,784, 8-28-73, Cl. 340-172.500.
Green, A. P., Refractories Co.: *See—*
Crookston, James A.; and Charles, Glen W., 3,718,489.
Green, Aaron F., to Knobelsdorff Instruments Incorporated. System for linarizing signals. 3,760,185, 9-18-73, Cl. 250-226.000.
Green, Alfred James, to Westbourne Engineering (Bournemouth) Limited. Rotary water sprinkler. 3,721,388, 3-20-73, Cl. 239-230.000.
Green, Allen T.; and Tetelman, Alan S., to Becton, Dickinson Electronics Company, mesne. Acoustic emission damage measurement. 3,774,443, 11-27-73, Cl. 73-67.300.
Green Ball Bearing Company, The: *See—*
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Green, Basil Wayland, to Bateman, Edward L., Limited. Hydraulic solids conveyance. 3,751,186, 8-7-73, Cl. 417-118.000.
Green, Brian Noel; and Watson, John Merza, to Associated Electrical Industries Limited. Electron spectroscopy. 3,733,483, 5-15-73, Cl. 250-49.5ae.
Green, Brian Noel, to Associated Electrical Industries Limited. Plural beam mass spectrometer. 3,740,551, 6-19-73, Cl. 250-41.9me.
Green, Charles David: *See—*
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Green, Charles J., to Rocket Research Corporation. Cool working gas generator. 3,721,102, 3-20-73, Cl. 62-48.000.
Green Cross Corporation, The: *See—*
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Green, Dale E. Ski carrier. 3,780,920, 12-25-73, Cl. 224-49.000.
Green, David T.: *See—*
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Green, Derek, to United Kingdom Atomic Energy Authority. Extrusion. 3,765,216, 10-16-73, Cl. 72-262.000.
Green, Donald; Kane, Michael; and Sullivan, James P., to Magnion Inc.; in care of Kane, Michael. Brush with retractable bristles. 3,765,049, 10-16-73, Cl. 15-169.000.
Green, Donald T.; and Snarr, James L., to Imagex, Inc. X-ray inspection system. 3,758,723, 9-11-73, Cl. 178-6.800.
Green, Donald T., to Picker Corporation. Tire inspection apparatus. 3,761,722, 9-25-73, Cl. 250-490.000.
Green, Edward H. Aerosol valve and sprayhead. 3,715,081, 2-6-73, Cl. 239-573.000.
Green, Edward H.; and Benedict, Herbert, to Green, Edward H., mesne. Reusable tamperproof cap for aerosol dispensing containers. 3,729,116, 4-24-73, Cl. 220-60.00r.
Green, Edward H. Safety valve for aerosol package. 3,741,445, 6-26-73, Cl. 222-397.000.
Green, Edward H., mesne: *See—*
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Green, Elberson D., to United States of America, Navy, mesne. Radar map comparison guidance system. 3,737,120, 6-5-73, Cl. 244-3.170.
Green, Elmer R.: *See—*
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Green, Eugene D., to General Dynamics Corporation. Apparatus for diffusion molding. 3,743,455, 7-3-73, Cl. 425-78.000.
Green, Evert S. Planter irrigation system with sand drain. 3,778,928, 12-18-73, Cl. 47-38.100.
Green, Franklin C. Electro-mechanical free pistol. 3,738,043, 6-12-73, Cl. 42-69.00a.
Green, Franklin H. Toy bank. 3,742,641, 7-3-73, Cl. 46-4.000.
Green, Frederic L.: *See—*
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Green, George D.; and Weiner, Jerold S., to Cozzoli Machine Company. Automatic tray loader. 3,708,947, 1-9-73, Cl. 53-55.000.
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Green, Harold A.; and Petrella, Robert G., to Air Products and Chemicals, Inc. Low temperature epoxy curing accelerators and system. 3,763,098, 10-2-73, Cl. 260-47.0en.
Green, Harry E.: *See—*
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Green, Howard C. R. Door-operated vehicle boarding step. 3,751,068, 8-7-73, Cl. 280-166.000.
Green, Irving C.; Rosales, Joseph G.; and Elmore, John O. Sprinkler angular grass cutter. 3,747,213, 7-24-73, Cl. 30-279.00r.
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Green, Jeffrey S. Tuna tower. 3,724,595, 4-3-73, Cl. 182-118.000.
Green, John F., to Douglas & Lomason Company. Pressure type bag filling machine. 3,716,082, 2-13-73, Cl. 141-68.000.
Green, John William; and Donovan, Rodney Edward, to Westinghouse Brake and Signal Company, Limited. Braking equipment. 3,761,137, 9-25-73, Cl. 303-3.000.
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Roth, Shirley H.; Green, Joseph; and Seipel, John J., 3,714,082.
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Versnel, John; and Green, Joseph, 3,730,940.
Green, Joseph; and Versnel, John, to Cities Service Company. Self-extinguishing composition. 3,730,942, 5-1-73, Cl. 260-41.00a.
Green, Joseph, to Thiokol Chemical Corporation. High burning rate solid propellant having a silicon-carboranyl copolymer fuel binder. 3,738,878, 6-12-73, Cl. 149-19.000.
Green, Joseph A., to International Telephone and Telegraph Corporation. Modulated composition flame photometer. 3,740,154, 6-19-73, Cl. 356-187.000.
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Green, Laurence. Guiding light system for trailer tow car hook-up. 3,731,274, 5-1-73, Cl. 340-52.00r.
Green, Lawrence E., to General Motors Corporation. Variable power train and control. 3,748,929, 7-31-73, Cl. 74-844.000.
Green, Lawrence R., to Ford Motor Company. Tractor hydraulic lift system. 3,768,570, 10-30-73, Cl. 172-9.000.
Green, Leon K. Trailer frame construction. 3,735,998, 5-29-73, Cl. 280-106.00t.
Green, Leslie. Massage device. 3,766,911, 10-23-73, Cl. 128-66.000.
Green, Lonzo F.: *See—*
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Green, Martin, to Westinghouse Electric Corporation. Multielectrode signal plate storage tube for standards conversion of electrical signals. 3,719,778, 3-6-73, Cl. 178-6.800.
Green, Martin. Multi-game system. 3,730,524, 5-1-73, Cl. 273-85.00r.
Green, Max B.: *See—*
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Green, Melvin E.; Oltra, Claude H.; and Bubley, Henry J., to American Screen Process Equipment Company. Vacuum belt. 3,741,116, 6-26-73, Cl. 101-287.000.
Green, Morris L. Cassette caddy. 3,717,188, 2-20-73, Cl. 150-1.000.
Green, Norman: *See—*
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Green, Patrick Hart; and Foster, George Wilbert, to Mond International, Limited. Method for making signs and other artistic works. 3,751,319, 8-7-73, Cl. 156-242.000.
Green, Peter Nicholl; and Shapero, Maurice, to Blenkinsop, Ward, & Company Limited. Substituted 1,4-benzodioxanes. 3,755,367, 8-28-73, Cl. 260-340.300.
Green, Philip S., to American Express Investment Management Company. Acoustic to optical image converter using an acoustic grating. 3,711,823, 1-16-73, Cl. 340-5.00i.
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Green, Rex W. Safety shoe. 3,747,239, 7-24-73, Cl. 36-72.00r.
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Green, Robert P.: *See—*
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Goethe, Robert L.; and Green, Robert R., 3,755,841.
Green, Robert W.; and Ettlinger, Louis F., to General Electric Company. Pressure relief device for sealed electrical apparatus. 3,762,595, 10-2-73, Cl. 220-44.00r.
Green, Ronald E., to Red Jacket Manufacturing Company. Submersible electric motor. 3,761,750, 9-25-73, Cl. 310-87.000.
Green, Rosemary. Protection of metallic surfaces. 3,743,547, 7-3-73, Cl. 148-6.270.
Green, Stanley, to Lucas, Joseph, (Industries) Limited. Combined lens and reflector for a vehicle lamp. 3,779,629, 12-18-73, Cl. 350-103.000.
Green, Talmage O., to Snap-On Tools Corporation. Pointers, dials, and method of calibrating dials for measuring instruments. 3,738,152, 6-12-73, Cl. 73-1.00c.
Green, Talmage O., to Snap-On Tools Corporation. Automatic torque release wrench of the preset type. 3,763,724, 10-9-73, Cl. 81-52.40r.
Green, Victor J. Means for setting grommets in woven fabrics. 3,777,966, 12-11-73, Cl. 227-61.000.
Green, William; and Heisler, Itzhak. Plug-in chamber furnace. 3,751,633, 8-7-73, Cl. 219-390.000.
Green, William G. Viscous oil recovery system. 3,780,805, 12-25-73, Cl. 166-266.000.
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Greenbaum, Sheldon B.; Hacke, Walter; and Horn, Herman, to Diamond Shamrock Corporation. Process for preparation of D,L-alpha tocopherol. 3,708,505, 1-2-73, Cl. 260-345.500.
Greenbaum, Sheldon B.; Schaaf, Kurt H.; and Klein, Howard C., to Diamond Shamrock Corporation. Injectable oxytetracycline compositions. 3,712,949, 1-23-73, Cl. 424-227.000.
Greenberg, Allen A., to General Mills Firm Group, Inc. Balance toy. 3,774,908, 11-27-73, Cl. 273-1.00r.
Greenberg, Bernard. Method of purifying sewage effluent and apparatus therefor. 3,756,933, 9-4-73, Cl. 204-149.000.
Greenberg, Charles B.; and Crissman, Roy G., to PPG Industries, Inc. Wet chemical method of producing transparent metal films. 3,723,155, 3-27-73, Cl. 117-35.00s.
Greenberg, Daniel H.: *See—*
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Greenberg, Hoyne E.; and Wexler, Max L., to Hoyne Industries, Inc. Process of making a mirror backed picture unit. 3,715,795, 2-13-73, Cl. 29-412.000.
Greenberg, Hoyne E.; and Wexler, Max L., to Hoyne Industries, Inc. Mirrored picture. 3,775,153, 11-27-73, Cl. 117-35.00r.
Greenberg, Jack; and Spiegel, Lawrence S., to Robins, A. H., Company, Incorporated. Compositions for enhancing flavor of pet foods. 3,745,023, 7-10-73, Cl. 99-140.00r.
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Greenberg, Sol; Gold, Robert D.; and Projain, Richard J., to Lambda Electronics Corporation. Hybrid regulated power supply having individual heat sinks for heat generative and heat sensitive components. 3,710,193, 1-9-73, Cl. 317-100.000.
Greenberg, Walter H. Glass fiber reinforced thermoplastic cellular plastics. 3,734,985, 5-22-73, Cl. 264-45.000.
Greenberg, Walter H., to Bischoff Chemical Corporation. Mixing of molten plastic and gas. 3,744,775, 7-10-73, Cl. 261-122.000.
Greenberger, Joseph Irwin, to Wean United, Inc. Hydraulic mills. 3,757,553, 9-11-73, Cl. 72-21.000.
Greenberger, Joseph Irwin, to Wean United, Inc. Coolant control for hot strip mill. 3,779,054, 12-18-73, Cl. 72-13.000.
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Greene, Charles W., to Deering Milliken Research Corporation. Endless reinforcement and method for producing same. 3,729,365, 4-24-73, Cl. 161-57.000.
Greene, Charles W., to Deering Milliken Research Corporation. Method and apparatus for positioning a plurality of continuous strips on a support surface. 3,748,203, 7-24-73, Cl. 156-175.000.
Greene, Charles W.; and Varner, George C., to Deering Milliken Research Corporation. Endless reinforcement and method for producing same. 3,770,042, 11-6-73, Cl. 152-361.00r.
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Greene, Franklin R., to E-Z-EM Company, Inc. Container for administering barium sulfate for upper gastro-intestinal radiological examination. 3,773,243, 11-20-73, Cl. 229-7.00s.
Greene, Frederick C., to Shepherd Casters, Inc. Caster fastening retention. 3,755,852, 9-4-73, Cl. 16-37.000.
Greene, George. Decorative belt links. 3,754,285, 8-28-73, Cl. 2-336.000.
Greene, George J., Jr., to Greene Research Engineering Co. Pump. 3,726,612, 4-10-73, Cl. 417-454.000.
Greene, Harry A., Jr.; and Wing, Charles, to Remler Company. Blood pressure measuring devices with variable frequency recorder and linearized leak means. 3,712,297, 1-23-73, Cl. 128-2.05q.
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Greene, Jack C., to United States of America, Navy. Pulsed repeater amplifier. 3,740,647, 6-19-73, Cl. 325-6.000.
Greene, Kenneth F., to International Business Machines Corporation. Two resist method for printed circuit structure. 3,745,094, 7-10-73, Cl. 204-15.000.
Greene, Leonard M., to Safe Flight Instrument Corporation. Actuating and control system for gas-operated fog horn. 3,716,017, 2-13-73, Cl. 116-137.000.
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Greene, Michael L.; and Waugh, Theodore R., to United States of America, Navy. Programmed cord cutter. 3,730,045, 5-1-73, Cl. 83-580.000.
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Greene, Norman D. Black body thermoelectric radiometer. 3,731,099, 5-1-73, Cl. 250-83.30h.
Greene, Norman D. Speed sensor. 3,732,729, 5-15-73, Cl. 73-181.000.
Greene, Oliver W., III. Display and shipping container for flowers. 3,734,275, 5-22-73, Cl. 206-45.310.
Greene, Oscar; deceased (by Pelz, Robert L.; and Greene, Robert S.; executors). Theft-preventive attachment for locks. 3,731,506, 5-8-73, Cl. 70-97.000.
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Greene, Udell T., to Diamond Shamrock Corporation. Method of bleaching pulp with an aqueous chlorine solution while suppressing vaporization of liquid chlorine. 3,759,784, 9-18-73, Cl. 162-87.000.
Greene, Walter J.; and Perron, Robert R., to Eastern Company, The, mesne. Digital display distance log. 3,717,027, 2-20-73, Cl. 73-181.000.
Greene, Woodrow P., to Snow Products, Inc. Artificial ski slope. 3,731,923, 5-8-73, Cl. 272-56.500.
Greenebaum, James E., II, to Seaquist Valve Company. Spra-mate overcap. 3,738,541, 6-12-73, Cl. 222-402.100.
Greenewald, Herbert, Jr., to Berry Metal Company. Method of making alloyed copper. 3,726,673, 4-10-73, Cl. 75-153.000.
Greenfield, Charles; Casparian, Robert E.; and Bonanno, Anthony J., to Carver-Greenfield Corporation. Process and apparatus for recovering clean water from dilute solutions of waste solids. 3,716,458, 2-13-73, Cl. 203-11.000.
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Seidel, Michael C.; Von Meyer, William C.; and Greenfield, Stanley A., 3,769,411.
Greenfield, Stanley A., to Rohm & Haas Company. 1,3-Dithietanes. 3,772,331, 11-13-73, Cl. 260-327.00m.
Greenfield, Stephen J.: *See—*
Korn, Homer; Greenfield, Stephen J.; and Stemmle, Denis J., 3,719,266.
Greenfield, Walter; and Berg, Raymond, to Cooper Laboratories (Cooper), mesne. Resealable hermetically sealed ampules and closure thereof. 3,720,341, 3-13-73, Cl. 215-6.000.
Greeninger, Marvin J., to Lectro Precision Tolls, Inc. Component lead cutting and bending apparatus. 3,769,823, 11-6-73, Cl. 72-24.000.
Greenlaw, Albert H., to United States of America, Navy. SUS cable trolley. 3,744,014, 7-3-73, Cl. 340-3.00t.
Greenlay, Charles A.: *See—*
Lambert, Gerard L.; and Greenlay, Charles A., 3,757,973.
Greenlay, John Edwin; Pulling, Bruce Denis William; and Morton, Arthur Francis, to Northern Electric Company, Limited. Device for exposing small rollable bodies to sputtering. 3,755,133, 8-28-73, Cl. 204-298.000.
Greenleaf, Jack W., to Everett Sound Machine Works, Inc. Wheeled ladder with a weight actuated self-locking wheel thereon. 3,735,838, 5-29-73, Cl. 182-15.000.
Greenlee, Norman A.: *See—*
Galiano, Francis R.; and Greenlee, Norman A., 3,729,450.
Greenlee, Thomas W.: *See—*
Clark, William H.; Greenlee, Thomas W.; and Toporcer, Louis H., 3,719,634.
Clark, William H.; Greenlee, Thomas W.; and Toporcer, Louis H., 3,719,635.
Greenlee, Thomas W., to Dow Corning Corporation. Method of adhering silicone rubber to metal surfaces using salts. 3,754,967, 8-28-73, Cl. 117-49.000.
Greenlee, Thomas W., to Dow Corning Corporation. Method of adhering room temperature vulcanizable silicone rubber to metal surfaces. 3,754,969, 8-28-73, Cl. 117-49.000.
Greenlee, Thomas W., to Dow Corning Corporation. Method of adhering silicone rubber to metal surfaces using glycine or dimethylformamide. 3,769,064, 10-30-73, Cl. 117-49.000.
Greenlee, Thomas W., to Dow Corning Corporation. Silicone elastomers containing. 3,772,240, 11-13-73, Cl. 260-37.0sb.
Greenly, George D.: *See—*
Raitport, Eli; and Greenly, George D., 3,754,204.
Greeno, Thomas M.: *See—*
Luebbe, Ray H., Jr.; Byrne, John F.; and Greeno, Thomas M., 3,741,762.
Greenough, Paul E., to Lubrizol Corporation, The. Treated over-based complexes. 3,714,042, 1-30-73, Cl. 252-33.200.
Greenough, Roger W.: *See—*
Newman, Howard S.; and Greenough, Roger W., 3,743,932.
Greenplate, Alvin E., to G-P Industries, Inc. Sawhorse. 3,721,316, 3-20-73, Cl. 182-181.000.
Greenside Machine Company Limited: *See—*
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Greensides, Geoffrey Charles: *See—*
Alexander, David George; Lloyd, Anthony Michael; Greensides, Geoffrey Charles; and Thompson, David Harry, 3,708,512.
Greenspan, Donald J., to U.S. Medical Research and Development Incorporated. Medical office facility with two or more examining rooms having a common equipment core area. 3,742,932, 7-3-73, Cl. 128-1.00r.
Greenspan, George: *See—*
Buzby, George C., Jr.; and Greenspan, George, 3,733,254.
Leeming, Michael R. G.; and Greenspan, George, 3,726,765.
Greenspan, Jacob, to United States of America, Army. Use of alumina as a sintering aid in manufacture of hot pressed beryllin. 3,763,295, 10-2-73, Cl. 264-65.000.
Greenspan, Joseph; and Hawkins, Clay E., to Frigidmeats, Inc. Meat tenderizer. 3,719,504, 3-6-73, Cl. 99-353.00r.
Greenspan, Myron, to Patented Technology Company. Apparatus for automatically synchronizing the operation of a device to correspond with its movement along a predetermined route. 3,755,818, 8-28-73, Cl. 434-228.000.
Greenspan, Nathan. Awning. 3,741,275, 6-26-73, Cl. 160-58.000.
Greenstein, Bernard; Langston, Perry Robert, Jr.; Narken, Bernt; and Turetzky, Melvin Norris, to International Business Machines Corporation. Process for forming a multi-layer glass-metal module adaptable for integral mounting to a dissimilar refractory sustrate. 3,726,002, 4-10-73, Cl. 29-577.000.
Greenwald, Charles, to International Telephone and Telegraph Corporation. Signal-to-noise ratio measuring system for frequency modulated communication systems. 3,775,689, 11-27-73, Cl. 325-363.000.
Greenwald, Donald J.: *See—*
Holtey, Thomas O.; and Greenwald, Donald J., 3,728,690.
Greenwald, Harry, to Greenwald Industries, Inc. Coin slide assembly for receiving a coin standing on edge. 3,712,440, 1-23-73, Cl. 194-55.000.
Greenwald, Harry; and Lambiris, Christos, to Kidde, Walter, & Company, Inc., mesne. Tumbler lock code pin and key coding set and method of coding a lock and complementary key. 3,727,440, 4-17-73, Cl. 70-411.000.
Greenwald, Harry, to Kidde, Walter, & Company, Inc. Anti-pick tumbler lock device. 3,733,864, 5-22-73, Cl. 70-363.000.
Greenwald, Harry; and Tuppo, Robert, to Kidde, Walter, & Company, Inc. Switching device for a coin controlled machine. 3,735,066, 5-22-73, Cl. 200-52.00r.
Greenwald, Harry, to Kidde, Walter, & Company, Inc. Rotary coin meter. 3,756,366, 9-4-73, Cl. 194-84.000.
Greenwald, Harry; and Lambiris, Christos, to Kidde, Walter, & Company, Inc. Coin slide assembly. 3,763,984, 10-9-73, Cl. 194-92.000.
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Greenwald, John R.: *See—*
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Pierce, Ogden R.; and Greenwald, John R., 3,714,276.
Greenwald, Richard: *See—*
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Greenwald, Richard B.: *See—*
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Greenwald, Richard B., to Polaroid Corporation. Colorless precursor of alkyl viologen as filter agent in photographic film. 3,772,026, 11-13-73, Cl. 96-77.000.
Greenwald, Richard B., to Polaroid Corporation. Naphthalides and their preparation. 3,772,338, 11-13-73, Cl. 260-343.20r.
Greenwald, Richard B., to Polaroid Corporation. Preparation of naphthalides. 3,772,339, 11-13-73, Cl. 260-343.20r.
Greenway, John Michael: *See—*
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Coats, Robert Reid; and Greenway, John Michael, 3,741,050.
Coats, Robert Reid; and Greenway, John Michael, 3,766,614.
Greenwell, Jack E., to Lear Motors Corporation. Induction motor system for traction. 3,753,060, 8-14-73, Cl. 318-227.000.
Greenwell, Jack E., to Lear Motors Corporation. Polyphase motor system with DC motor characteristics. 3,753,062, 8-14-73, Cl. 318-225.00r.
Greenwell, Jack E., to Lear Motors Corporation. Adjustable speed induction motor system. 3,780,324, 12-18-73, Cl. 310-180.000.
Greenwood, Alan, to Goodyear Tire & Rubber Company, The. Segmented tire mold. 3,741,696, 6-26-73, Cl. 425-47.000.
Greenwood, Alan, to Goodyear Tire & Rubber Company, The. Segmented tire mold. 3,779,677, 12-18-73, Cl. 425-46.000.
Greenwood, Albert C., to Westinghouse Electric Corporation. Current monitoring means. 3,720,894, 3-13-73, Cl. 335-204.000.
Greenwood, Arthur R.; and Vesily, Kenneth D., to Universal Oil Products Company. Continuous reforming-regeneration process. 3,761,390, 9-25-73, Cl. 208-65.000.
Greenwood, Arthur Raymond: *See—*
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Greenwood, Arthur Raymond; and Vesely, Kenneth Donald, to Universal Oil Products Company. Method of operating a reforming process. 3,725,248, 4-3-73, Cl. 208-138.000.
Greenwood, Charles S.: *See—*
Irving, Donald Q.; and Greenwood, Charles S., 3,750,883.
Greenwood, Charles S.; and Chamberlin, Donald W., to FMC Corporation. Apparatus for sorting fruit according to color. 3,770,111, 11-6-73, Cl. 209-73.000.
Greenwood, Derek: *See—*
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Greenwood, Donald, to G-L-J Toy Co., Inc. Motion picture film projector. 3,749,482, 7-31-73, Cl. 352-80.000.
Greenwood, Eugene C. Heart rate counter with digital storage and numerical readout. 3,717,140, 2-20-73, Cl. 128-2.05t.
Greenwood, Ivan A.; and Kaufman, Jesse C., to Singer Company, The. Laser scanning electrophoresis instrument and system. 3,764,512, 10-9-73, Cl. 204-299.000.
Greenwood, Ivan A., to Singer Company, The. Electromagnetic thickness gauging using a transmitting coil shaped to provide a constant field over a range of measuring distances. 3,764,897, 10-9-73, Cl. 324-40.000.
Greenwood, Ivan A., Jr.: *See—*
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Greenwood, James. Cosmetic stick holder. 3,708,236, 1-2-73, Cl. 401-60.000.
Greenwood, Kenneth: *See—*
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Greenwood Mills Corporation: *See—*
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Greenwood, Robert; and Shepherd, John Michael, to T.M.M. (Research) Limited. Textile spinning machines. 3,724,194, 4-3-73, Cl. 57-156.000.



Greenwood, Robert; and Shepherd, John M., to T.M.M. (Research)



Greg, Roland S., to Rushton Parry Corporation, The. Machine

Greenwood, Robert; and Shepherd, John M., to T.M.M. (Research) Limited. Textile spinning machines. 3,750,381, 8-7-73, Cl. 57-58.910.
Greenwood, Robert C.: *See—*
Burke, William F.; Greenwood, Robert C.; and Jones, Thomas E., 3,731,777.
Greenwood, Robert P.; and Tiley, William L., to United States Steel Corporation. Slipping cope assembly. 3,729,049, 4-24-73, Cl. 164-352.000.
Greenwood, Roger, to International Telephone and Telegraph Corporation. Pressure responsive switch with parallel contact blades bent apart by axial force applied by diaphragm. 3,723,684, 3-27-73, Cl. 200-83.00r.
Greenwood, Roger; and Van Bellen, Leo William, to International Telephone and Telegraph Corporation. Fluid flow control manifolds and devices. 3,747,623, 7-24-73, Cl. 137-269.000.
Greer, Edward M., to Crown Parking Products Co., mesne. Vertical-lift double-deck parking structure. 3,750,899, 8-7-73, Cl. 214-16.1ec.
Greer, Henry W.: *See—*
Dolce, Leonard J.; Greer, Henry W.; and Martell, George E., 3,744,214.
Greer, Homer L., to Honeywell Inc. Conductivity sensor. 3,714,555, 1-30-73, Cl. 324-30.00b.
Greer Hydraulics, Inc.: *See—*
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Greer, James Edward, to Ronson Products, Ltd. Cigarette lighters. 3,756,766, 9-4-73, Cl. 431-254.000.
Greer, John R.: *See—*
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Greer, Mary H.: *See—*
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Greer Products, Inc.: *See—*
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Greer, Richard R. Watercraft. 3,768,429, 10-30-73, Cl. 114-43.500.
Greer, Walter D.; and Schlicht, Richard C., to Greer Products, Inc. Metal forming. 3,774,430, 11-27-73, Cl. 72-60.000.
Greeson, James C., Jr., to International Business Machines Corporation. Cathode ray tube module. 3,716,661, 2-13-73, Cl. 178-7.800.
Greet, William E.: *See—*
Gageant, Louis M.; and Greet, William E., 3,731,715.
Greever, James E., to Carrier Corporation. Method of making soldered joints. 3,760,481, 9-25-73, Cl. 29-157.30r.
Greeves, Thomas William, to Cadbury Limited. Mechanism for correcting any tendency for a moving web to deviate from a required path. 3,743,152, 7-3-73, Cl. 226-19.000.
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Herzhoff, Peter; Gref, Hans; and Schweicher, Wolfgang, 3,726,628.
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Koepke, Gunther; Bardorff, Wolfgang Muller; Herzhoff, Peter; Gref, Hans; Schweicher, Wolfgang; Frenken, Hans; Voss, Karl; Wasser, Willi; Browatzki, Kurt; and Friedsan, Josef, 3,779,518.
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Gregan, Daniel P., to Foseco International Limited. Apparatus for locking hot tops. 3,737,138, 6-5-73, Cl. 249-197.000.
Greger, Georg, to Constantin Film GmbH. Copying cinematographic film. 3,751,144, 8-7-73, Cl. 352-38.000.
Greger, Karl, to Siemens Aktiengesellschaft. Contactless switching device. 3,771,092, 11-6-73, Cl. 338-32.00r.
Greger, Paul L., to Parke, Davis & Company. Triglyceride-lowering compositions and methods. 3,773,946, 11-20-73, Cl. 424-318.000.
Gregerson, David A.; and Selm, Gerald J., to Philco-Ford Corporation. Sight glass. 3,722,537, 3-27-73, Cl. 137-559.000.
Gregerson, Stanley Martin, to Deere & Company. Tractor-implement hitch control. 3,757,868, 9-11-73, Cl. 172-9.000.
Gregg, Anton T.: *See—*
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Gregg, Clement V.: *See—*
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Gregg, David Paul. Intravenous feeding apparatus and system. 3,739,777, 6-19-73, Cl. 128-214.00e.
Gregg, Galen C.: *See—*
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Gregg, Hendrick J. Wind turbine generator with exhaust gas heater. 3,720,840, 3-13-73, Cl. 290-55.000.
Gregg, Michael C.; and Cox, Charles S., to United States of America, Navy. Conductivity and temperature sensing probe. 3,748,899, 7-31-73, Cl. 73-170.00a.
Gregg, Richard G. Foldable product display. 3,763,583, 10-9-73, Cl. 40-124.100.
Gregg, Rodman I., to Hercules Incorporated. Apparatus for scouring and blooming pile carpet. 3,747,375, 7-24-73, Cl. 68-13.00r.
Gregg, Roland S., to Bunker-Ramo Corporation, The. Method and apparatus for code conversion. 3,750,147, 7-31-73, Cl. 340-347.0dd.
Gregg, Stanley J., to Allied Chemical Corporation. Gelled alcohols. 3,759,674, 9-18-73, Cl. 44-7.00c.
Grego, Peter; and Howell, Robert G., to Corning Glass Works. Method of chemically strengthening a silicate article containing soda. 3,751,238, 8-7-73, Cl. 65-30.000.
Grego, Peter; and Panzarino, Joseph N., to Corning Glass Works. Decorating glass-ceramic materials. 3,775,154, 11-27-73, Cl. 117-38.000.
Gregoire, Clyde G. Roller bender for outset printing plates. 3,733,872, 5-22-73, Cl. 72-213.000.
Gregoire, Harvey G., to United States of America, Navy. Adjustable anthropometer. 3,722,103, 3-27-73, Cl. 33-174.00d.
Gregoire, Stephen E.: *See—*
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Gregor, Harry P.: *See—*
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Gregor, John S.; and Radlinsky, Raymond, to International Business Machines Corporation. Unprintable character recognition. 3,760,366, 9-18-73, Cl. 340-172.500.
Gregor, Vaughn. Modular distributor system for bulk material. 3,731,787, 5-8-73, Cl. 198-82.000.
Gregorian, Razmic S.; Kirk, Charles C.; and Cute, James A., to Grace, W. R., & Co. Shrinkable permeable texture film. 3,736,218, 5-29-73, Cl. 161-164.000.
Gregorian, Razmic S.; and Bafford, Richard A., to Grace, W. R., & Co. Tertiary-tertiary bisperoxides. 3,764,628, 10-9-73, Cl. 260-610.00r.
Gregory, Charles A., Jr.: *See—*
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Gregory, Derek P., to Institute of Gas Technology. Method and apparatus for $CO_2$ conversion to methane. 3,766,027, 10-16-73, Cl. 204-72.000.
Gregory, Douglas W., to United States of America, Army. Integral twist top for mechanically actuated munition containers. 3,718,090, 2-27-73, Cl. 102-64.000.
Gregory, Edward G., to Rockwell Manufacturing Company. Hinge butt template assembly. 3,738,013, 6-12-73, Cl. 33-197.000.
Gregory, Eric; Marancik, William G.; and Shattes, Walter J., to Airco, Inc. Flashlamp with improved combustible foil. 3,749,547, 7-31-73, Cl. 431-95.000.
Gregory, Francis Xavier. Adjustable bed. 3,768,105, 10-30-73, Cl. 5-2.000.
Gregory, Frederick S., to Aeropet, Inc. Animal shipping crate. 3,710,761, 1-16-73, Cl. 119-19.000.
Gregory, Gerald A., to Singer Company, The, mesne. Spherical camera model system. 3,727,532, 4-17-73, Cl. 95-86.000.
Gregory, Gerrett W. Pop-top can re-sealer. 3,727,787, 4-17-73, Cl. 220-25.000.
Gregory, Gerrett W., to Rohr Industries, Inc. Nutplate riveting device and method. 3,729,801, 5-1-73, Cl. 29-243.530.
Gregory, Gerrett W., to Rohr Corporation. Automatic riveting device. 3,747,193, 7-24-73, Cl. 29-243.530.
Gregory, Gordon Ian: *See—*
Davis, Benjamin; Pearce, Derek Roger; Cook, Martin Christopher; Weir, Niall Galbraith; Newall, Christopher Earle; Ayres, Barry Edward; Gregory, Gordon Ian; and Phillipps, Gordon Hanley, 3,763,195.
Gregory, Jerome P. Valve assembly. 3,774,881, 11-27-73, Cl. 251-335.000.
Gregory, Jocelyn Margaret: *See—*
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Gregory, John, to M. L. Aviation Company, Limited. Respirators. 3,739,774, 6-19-73, Cl. 128-142.700.
Gregory, Mercer Duane, to Continental Oil Company. Coalescence of water and oleophilic liquid dispersions by passage through a permeable, oleophilic liquid equilibrated, foam of polyurethane. 3,779,908, 12-18-73, Cl. 210-23.000.
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Gregory, Nicholas. Apparent wind indicator. 3,727,457, 4-17-73, Cl. 73-188.000.
Gregory, Paul M., to Xerox Corporation. Fuser roll assembly. 3,751,216, 8-7-73, Cl. 432-62.000.
Gregory, Paulee: *See—*
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Gregory, Ted W., to Arens Controls, Inc. Control unit. 3,736,800, 6-5-73, Cl. 74-491.000.
Gregory, William Henry. Vibrationless speaker assembly. 3,779,337, 12-18-73, Cl. 181-31.00b.
Gregson, Frank Geoffrey, to Caxton Designs Limited. Stationery. 3,762,823, 10-2-73, Cl. 402-47.000.
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Mattingly, William Russell, Jr.; and Gregson, Peter Michael, 3,737,838.
Greider, Charles Austin, to Townsend Engineering Company. Membrane skinning machine. 3,769,903, 11-6-73, Cl. 99-589.000.
Greidinger, Dahlia S.; and Cohen, Liuba, to Chemicals & Phosphates Ltd. Nitrogen-phosphate fertilizers and their manufacture. 3,713,801, 1-30-73, Cl. 71-29.000.
Greie, Donald S.; Schultz, Fred D.; and Hernandez, Henry R., to National Starch and Chemical Corporation. Nonwoven products. 3,766,002, 10-16-73, Cl. 162-146.000.
Greif Bros. Corporation: *See—*
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Greig, Margaret E., to Upjohn Company, The. Method of treatment. 3,773,937, 11-20-73, Cl. 424-243.000.
Grein, Hermann, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Speed control linkage means for winding bobbins. 3,779,471, 12-18-73, Cl. 242-18.0cs.
Greinacher, Ekkehart; Fischer, Werner; and Dahne, Martin. Process of separating yttrium and lanthanum through lutetium from mixtures of such elements. 3,715,424, 2-6-73, Cl. 423-21.000.
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Stettler, Christian, 3,720,353.
Greiner, Harry M.; and Langer, Karl, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Device for the tilting of the folding blade of a folding-blade cylinder. 3,727,909, 4-17-73, Cl. 270-71.000.
Greiner, Harry M.; and Banfer, Hartwig, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Drive arrangement for perfecting lithograph press unit. 3,732,815, 5-15-73, Cl. 101-220.000.
Greiner, Harry M.; and Banfer, Hartwig, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Coupling arrangement for perfecting lithograph press unit. 3,742,849, 7-3-73, Cl. 101-220.000.
Greiner, Harry M., to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Turning bar for the deflection of paper webs. 3,744,693, 7-10-73, Cl. 226-97.000.
Greiner, Henri; Masson, Yves; and Olagnier, Jean, to Pneumatiques, Caoutchouc Manufacture et Plastiques Kleber-Colombes. Tire having reinforcing with high modulus of elasticity. 3,759,306, 9-18-73, Cl. 152-374.000.
Greiner, Hermann; and Lerch, Wolfgang, to Fernsch G.m.b.H. Sweep deflection linearization circuit. 3,751,707, 8-7-73, Cl. 315-27.0td.
Greiner, James H.: *See—*
Anacher, Wilhelm; Grebe, Kurt R.; Greiner, James H.; Lahiri, Syamal K.; Park, Kyo C.; and Zappl, Hans H., 3,733,526.
Greiner, Richard A., to Giddings & Lewis, Inc. Signal generator for unbalance detectors. 3,774,115, 11-20-73, Cl. 328-36.000.
Greiner Scientific Corporation: *See—*
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Greipel, Frank J. Catalytic muffler. 3,713,783, 1-30-73, Cl. 23-288.00f.
Greischar, Richard A.: *See—*
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Greissing, Hans, to Static-S.p.A. Apparatus for cervical traction. 3,768,464, 10-30-73, Cl. 128-75.000.
Greissing, Hans, to Static-S.p.A. Apparatus for specific lumbar traction treatments. 3,771,518, 11-13-73, Cl. 128-71.000.
Greitzer, Melvin A., to Imperial Data Corporation. Restaurant booth with snap away back. 3,751,107, 8-7-73, Cl. 297-455.000.
Greive, Aloys, to Hamel GmbH Zwirnmaschinen. Apparatus for preventing the curling and looping of the yarn in a traveler-ring twisting machine. 3,727,394, 4-17-73, Cl. 57-106.000.
Greive, Aloys; and Treus, Aloys, to Hamel G.m.b.H. Yarn-twisting apparatus for formation of multiple-ply thread. 3,742,693, 7-3-73, Cl. 57-58.860.
Greive, Aloys; and Tiemann, Theodor, to Hamel G.m.b.H. Zwirnmaschinen. Regulating belt tension in tangential-belt drive arrangement for the whorls of a yarn-twisting machine. 3,769,786, 11-6-73, Cl. 57-105.000.
Greiwe, Daniel L.: *See—*
Di Frank, Frank J.; Greiwe, Daniel L.; and Skudlarek, Walter R., 3,761,078.
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Grek, Sven-Erik: *See—*
Lindskog, Per Folke; Bengtsson, Anders Eric; Grek, Sven-Erik; and Lagerholm, Lennart Yngve, 3,764,295.
Grelat, Maurice, to Ciba-Geigy AG. Process for the manufacture of flavanthrones. 3,720,678, 3-13-73, Cl. 260-273.000.
Grelck, Leonard. Fork lift truck tines. 3,734,329, 5-22-73, Cl. 214-750.000.
Grell, Wolfgang: *See—*
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Grell, Wolfgang; Griss, Gerhart; Kleemann, Manfred; and Kutter, Eberhard, to Boehringer Ingelheim G.m.b.H. N-acyl-7-(N''-cycloalkyl-ureido-N'-sulfonyl)-isoquinolines and -benzazepines and alkali metal salts thereof. 3,725,388, 4-3-73, Cl. 260-239.00b.
Grellsson, Karl Gustav: *See—*
Ljung, Hans Glorg; Barrner, Dan Johannes; and Grellsson, Karl Gustav, 3,745,965.
Gremillion, Ernest J. Hydraulically actuated cavity forming device. 3,752,242, 8-14-73, Cl. 175-108.000.
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Grenda, Hans August Herbert, to Holzer Patent AG. Fork-shaped contact spring to produce a separable electric connection. 3,727,175, 4-10-73, Cl. 339-258.00r.
Grenda, Victor J., to Merck & Co., Inc. Preparation of 2-methyl-3,4-disubstituted phenylalamines. 3,714,241, 1-30-73, Cl. 260-519.000.
Greneker, Gene, III. Telephone range expander. 3,721,771, 3-20-73, Cl. 179-41.00a.
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Grenfell, Julian Pascoe; and Buchanan, John Brown, to Badalex Limited. Handling and sorting devices. 3,753,513, 8-21-73, Cl. 221-1.000.
Grengs, Norbert G. Vented drain for recreational vehicles. 3,766,575, 10-23-73, Cl. 4-210.000.
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Grenier, John E., to Lodding Engineering Corporation. Mounting means for foil-type and similar elements. 3,713,610, 1-30-73, Cl. 248-1.000.
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Grenn, James F. Water pump hoist. 3,758,078, 9-11-73, Cl. 254-166.000.
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Grenot, Michel; and Pergrale, Jean, to U.S. Philips Corporation. Optic relay comprising a photoconductor element. 3,769,512, 10-30-73, Cl. 250-225.000.
Grenzeback, Robert J. Microwave antenna with radome. 3,740,755, 6-19-73, Cl. 343-840.000.
Greppi, Pierluigi. Modular sanitary fixture. 3,774,245, 11-27-73, Cl. 4-167.000.
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Gressenich, Klaus; Oppl, Hans; Walter, Berthold; Weismann, Hans; and Zobl, Hartmut, to Bosch, Robert, G.m.b.H. Temperature-responsive switch. 3,713,067, 1-23-73, Cl. 337-360.000.
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Greune, Christian; and Maier, Karl, to Motoren- und Turbinen-Union Munchen GmbH. Control system for gas turbine engines. 3,774,395, 11-27-73, Cl. 60-39.16r.
Greutman, Weldon W., to International Telephone and Telegraph Corporation. Simplified digital to sin/cos converter. 3,761,928, 9-25-73, Cl. 343-16.00r.
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Greve, Heinz, to Hauni-Werke Korber & Co., KG. Machine for the production of filter rod sections or the like. 3,741,846, 6-26-73, Cl. 156-360.000.
Greve, Heinz, to Hauni-Werke Korber & Co. KG. Method and apparatus for making rod-shaped fillers for cigarette filters or the like. 3,744,108, 7-10-73, Cl. 28-1.0cf.
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Greve, Reinhard Cornelis; and De Jong, Hendrik Johannes, to U.S. Philips Corporation. Bistable ball-armature contact. 3,716,812, 2-13-73, Cl. 335-179.000.
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Grey, Jerry. Apparatus for removing contaminates entrained in a gas stream. 3,765,153, 10-16-73, Cl. 55-118.000.
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Grey, Michael W., to Addmaster Corporation. Check locating means for checkwriters. 3,768,405, 10-30-73, Cl. 101-407.000.
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Gridley, James Robert. Push-button door lock. 3,751,951, 8-14-73, Cl. 70-313.000.
Gridley, Porter F.; Brennan, James J., Jr.; Williams, Frank R.; and Hagopian, Erivan, to Cabot Corporation. Preparation of solution polymer masterbatches. 3,769,257, 10-30-73, Cl. 260-41.5mp.
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Grief, Herbert C. Tent camper. 3,756,648, 9-4-73, Cl. 296-23.00b.
Grieger, Karl Heinz. Apparatus for illuminating transparent images, especially diapositives. 3,724,111, 4-3-73, Cl. 40-106.100.
Griego, Steven J. Lockable hinge. 3,744,085, 7-10-73, Cl. 16-144.000.
Griem, Paul D., Jr., to Owens-Corning Fiberglas Corporation. Method of and apparatus for conditioning signals. 3,763,362, 10-2-73, Cl. 235-151.310.
Grienauer, Heinrich, to Siemens Aktiengesellschaft. X-ray topography apparatus. 3,751,662, 8-7-73, Cl. 250-275.000.
Grier, David G., to Fischer & Porter Company. Pneumatic computing devices. 3,748,454, 7-24-73, Cl. 235-200.0wb.
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Grier, John P. Camping trailer. 3,741,606, 6-26-73, Cl. 296-22.000.
Grier, Maurice R. Adjustably positionable deflector for vented airstream. 3,766,843, 10-23-73, Cl. 98-2.00r.
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Griesmar, Jacques A. Denture support device. 3,772,731, 11-20-73, Cl. 15-268.000.
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Griest, Andrew J., Jr., to International Business Machines Corporation. Cobalt-platinum group alloys whose anisotropy is greater than their demagnetizable field for use as cylindrical memory elements. 3,755,796, 8-28-73, Cl. 340-174.0na.
Griest, Raymond H., to United States of America, Air Force. Liquid cooled mirror structure. 3,781,094, 12-25-73, Cl. 350-310.000.
Grieves, Gordon; and Holden, Brian Astbury, to Burgess Micro Switch Company Limited. Arcuate form electrical switches having an axially displaceable actuator. 3,721,791, 3-20-73, Cl. 200-168.00g.
Griffee, Leslie V.: *See—*
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Griffey, Donald E., to Motorola, Inc. Dual mode power supply protection circuit. 3,725,739, 4-3-73, Cl. 317-16.000.
Griffey, Donald E., to Motorola, Inc. Protection circuit for regulated power supplies. 3,733,519, 5-15-73, Cl. 317-31.000.
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Griffin, Dana K.; and Wilson, John R. Dust mop with throw away mopping element. 3,760,450, 9-25-73, Cl. 15-229.00b.
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Griffin, Judson R.; Martin, Donald L., Jr.; and Siron, Robert E., to United States of America, Army. Quadruple lap simple shear test specimen. 3,745,051, 7-10-73, Cl. 161-44.000.
Griffin, Kenneth Earl, 50% to Kramis, Lawrence E. Tunnel cleaning apparatus. 3,748,680, 7-31-73, Cl. 15-50.00c.
Griffin, Lucy E. Music teaching aid. 3,731,581, 5-8-73, Cl. 84-471.000.
Griffin, Michael John; and King, Brian Clarence, to Gardeners of Gloucester Limited. Sterilization of materials. 3,767,362, 10-23-73, Cl. 21-58.000.
Griffin, Nicholas E. Disposable container. 3,731,869, 5-8-73, Cl. 229-22.000.
Griffin, Patrick Joseph, to RCA Corporation. Metal mask screen for screen-printing. 3,769,908, 11-6-73, Cl. 101-127.000.
Griffin, Phil H., III: *See—*
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Griffin, William C.; Barker, Lynn; and Foote, Kenneth R., to United States of America, Navy. Pyrotechnic apparatus to assist in the tracking of aircraft. 3,738,277, 6-12-73, Cl. 102-87.000.
Griffin, William D. Swede for open-end wrenches. 3,769,863, 11-6-73, Cl. 81-177.00a.
Griffin, William S., to Northrop Corporation. Vent pressure control for multi-stage fluid jet amplifier. 3,717,164, 2-20-73, Cl. 137-810.000.
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Griffis, Juniper, 49% to Lyst, Harold E. Truck or trailer with laterally tiltable dump body with hinged side panels hydraulically operated from closed to open position. 3,730,591, 5-1-73, Cl. 298-17.600.
Griffis, Roy A.; Rauterkus, L. Thomas; and Torzala, Terence, 1/2 to Systems Research Laboratories, Inc. and 1/2 to Trans-Med Systems Inc. Pulmonary information transmission system. 3,726,270, 4-10-73, Cl. 128-2.080.
Griffis, William T. Revolver reloading device. 3,769,732, 11-6-73, Cl. 42-89.000.
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Griffith, Earl H., 25% to Subject, Frank. Door lock protection assembly. 3,764,173, 10-9-73, Cl. 292-346.000.
Griffith, Edward G., to Kearney & Trecker Corporation. Tool storage and identification system. 3,760,489, 9-25-73, Cl. 29-568.000.
Griffith, Edwin D., to Owens-Illinois, Inc. Easy-open composite container. 3,734,343, 5-22-73, Cl. 220-47.000.
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Griffith, James E. Method and means to operate pumping system. 3,773,303, 11-20-73, Cl. 259-147.000.
Griffith, James J., to United Aircraft Corporation. Control auxiliary power unit. 3,764,814, 10-9-73, Cl. 290-40.000.
Griffith, James R., to United States of America, Navy. Method of impregnating inorganic filament strands. 3,711,351, 1-16-73, Cl. 156-175.000.
Griffith, James R., to United States of America, Navy. Fluorinated polyols. 3,720,639, 3-13-73, Cl. 260-33.4ep.
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Griffith, Jerry L.; and Kinsworthy, Donald D., to Lau Incorporated. Electrodialytic demineralizing unit for humidification purposes. 3,776,530, 12-4-73, Cl. 261-4.000.
Griffith, John Dalton, to Bonas Machine Company, Limited. Loom shelding mechanism. 3,752,194, 8-14-73, Cl. 139-79.000.

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Griffith, Rolf P. Copy holder and roll label dispensing device for typewriter. 3,762,529, 10-2-73, Cl. 197-133.00r.
Griffith, Russell K.: *See—*
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Griffith, Russell K., to Standard Oil Company, The. Olefinic nitrile-styrene copolymerization process. 3,763,278, 10-2-73, Cl. 260-880.00r.
Griffith, Walter L. Machine for applying high consistency fluids and semi-solids to bakery and other products. 3,713,418, 1-30-73, Cl. 118-15.000.
Griffith, William Earl, to Jarco Services Ltd. Rotary jar. 3,716,109, 2-13-73, Cl. 175-297.000.
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Griffith, William J.; and De Paepe, James Richard. Control circuit for a heating system. 3,770,196, 11-6-73, Cl. 237-9.00r.
Griffiths, Brian J.: *See—*
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Griffiths, David K., to United States Steel Corporation. Method and apparatus for pouring liquid metal into a continuous-casting mold. 3,727,668, 4-17-73, Cl. 164-82.000.
Griffiths Electronics, Inc.: *See—*
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Griffiths, Graham Ernest: *See—*
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Griffiths, Victor Sidney; and Howes, Roynon. Instrument for determining the optical density of fluids. 3,734,629, 5-22-73, Cl. 356-201.000.
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Griggs, Bruce, to United States of America, Atomic Energy Commission. Process for providing a hydride-free and oxide-free surface on zirconium and zirconium-alloy bodies. 3,753,883, 8-21-73, Cl. 204-144.500.
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Griggs, John O., Jr., to Burroughs Corporation. High speed print drum with traveling print hammer. 3,750,794, 8-7-73, Cl. 197-49.000.
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Grigorenko, Donald O., to Shape Form, Inc. Method and apparatus for making deep drawn metal shells. 3,733,881, 5-22-73, Cl. 72-349.000.
Grigorenko, Georgy Mikhailovich: *See—*
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Grijalva, Victor E., to Schlumberger Technology Corporation. Methods and apparatus for acoustic logging in cased well bores. 3,729,705, 4-24-73, Cl. 340-18.0ac.
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Grim, Robert E., to Autotronics, Incorporated. Wire print head. 3,770,092, 11-6-73, Cl. 197-1.00r.
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Grime, Geoffrey, to Britax (London) Limited. Restraining device for a vehicle passenger. 3,764,159, 10-9-73, Cl. 280-150.00b.
Grimelli, Nardie F. Double anchorage clamp. 3,747,288, 7-24-73, Cl. 52-23.000.
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Grimes Manufacturing Company: *See—*
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Grimm, Duane H.: *See—*
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Grimm, Harold; and Zuckerman, Ira, to Panther Machine Corporation. Auxiliary fabric feed means for fabric spreading machine. 3,778,050, 12-11-73, Cl. 270-31.000.
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Grimm, John E.: *See—*
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Grimm, Richard; Herzog, Willi; and Lademann, Rudolf, to Farbwerke Hoechst Aktiengesellschaft. Process for the removal of dimethyl sulfate from gases by adsorption on active charcoal. 3,736,726, 6-5-73, Cl. 55-73.000.
Grimm, Richard C.: *See—*
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Grimm, Richard C., to Susquehanna Corporation, The. Explosive-disseminator package. 3,744,425, 7-10-73, Cl. 102-85.000.
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Grimone, Frank H.: *See—*
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Grindrod, Paul E.; Goller, Robert L.; and Seiferth, Oscar E., to Mayer, Oscar, & Co., Inc. Meat package. 3,713,849, 1-30-73, Cl. 99-174.000.
Grindrod, Paul E.; Goller, Robert L.; Radloff, Harry L.; and Seiferth, Oscar E., to Mayer, Oscar, & Co., Inc. Method for manufacturing hermetically sealed packages having dual seals. 3,740,237, 6-19-73, Cl. 99-171.00s.
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Grinevich, Feodosy Borisovich; and Tsyganok, Vladimir Andreevich, to Institut Elektrosvarki Imeni E.O. Patona Akademii Nauk Ukrainskoi SSR. Bistable counting circuit based on a transistor. 3,708,698, 1-2-73, Cl. 307-289.000.
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Grinnell, George G.; Grinnell, Sherman K.; and Grinnell, Garith K. Apparatus for drilling holes through a stack of sheet paper. 3,718,404, 2-27-73, Cl. 408-46.000.
Grinnell, Sherman K.: *See—*
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Griot, Rudolf G., to Sandoz-Wander, Inc. Substituted terphenyls. 3,741,974, 6-26-73, Cl. 260-293.830.
Griparis, Andrew Geo., to Diversey Corporation, The. Drain valve. 3,709,463, 1-9-73, Cl. 251-129.000.
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Gripe, William B.: *See—*
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Gripentog, William G., to United States of America, Atomic Energy Commission. Electromagnetic disturbance neutralization radiation detector. 3,725,661, 4-3-73, Cl. 250-83.60r.
Gripp, Leonard P.; Kincaid, Norman L.; and Hensleigh, Melvin A., to Westinghouse Electric Corporation. Automatic draft compensation for reversing mill edger drive. 3,739,613, 6-19-73, Cl. 72-19.000.
Grippin, Wayne P.: *See—*
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Grisafe, David A.; and Fritsch, Carl W., Jr., to GTE Sylvania Incorporated. Bismuth-activated gadolinium niobate phosphors. 3,767,589, 10-23-73, Cl. 252-301.40r.
Grisaffe, Salvatore J.; and Klechke, Ernest W., to United States of America, National Aeronautics and Space Administration. Nickel aluminide coated low alloy stainless steel. 3,762,884, 10-2-73, Cl. 29-196.200.
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Grisdale, Patrick J.; and Babb, Bruce, E., to Eastman Kodak Company. Photographic triorganophosphine azide dye forming composition and article. 3,767,409, 10-23-73, Cl. 96-91.00n.
Grise, Frederick G. J., to Pioneer Coveralls, Inc. Uniform tension load binder. 3,720,398, 3-13-73, Cl. 254-51.000.
Grise, Frederick G. J. Pipe freezing device. 3,742,723, 7-3-73, Cl. 62-293.000.
Grisell, Richard T. Method of dissipating static electricity in packaging. 3,768,227, 10-30-73, Cl. 53-36.000.
Grishenkov, German Ivanovich: *See—*
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Griste, Frederic S., to Penn Fishing Tackle Mfg. Co. Fishing reel. 3,771,746, 11-13-73, Cl. 242-215.000.
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Griswold, David E., to Griswold Controls. Flow valve having tapered cup. 3,752,183, 8-14-73, Cl. 137-504.000.
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Griswold, Douglas A.: *See—*
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Griswold, Edward A. Electrostatic filter for cleaning dielectric fluids. 3,729,402, 4-24-73, Cl. 204-302.000.
Griswold, Frederick Bethel, to RCA Corporation. Phase measuring system. 3,764,903, 10-9-73, Cl. 324-83.00d.
Griswold, Frederick Bethel, to RCA Corporation. Analog phase tracker. 3,769,602, 10-30-73, Cl. 329-122.000.
Griswold, Paul H., Jr., to Du Pont de Nemours, E. I., and Company. Production of phthalocyanine pigment. 3,717,493, 2-20-73, Cl. 106-288.00q.
Gritsch, Herbert; Meyerhoff, Herwig; Bruns, Enno; and Hemmie, Gerd, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Apparatus for indicating acoustical or electromagnetic signals. 3,723,959, 3-27-73, Cl. 340-6.00r.
Gritsenko, Anna Nikitichna; Vikhlyaev, Jury Ivanovich; Zhuravlev, Semen Vladimirovich; Kaverina, Natalya Veniaminovna; Senova, Zlata Petrovna; and Ulyanova, Olga Vasilievna. Ethyl 10-(b-morpholylpropionyl)-phenthiazine-2-carbamate hydrochloride. 3,740,395,6-19-73, Cl. 260-243.0ac.
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Grivas, John C., to Sherwin-Williams Company, The. Fungicidal compositions and methods of prohibiting the growth thereof. 3,736,280, 5-29-73, Cl. 260-22.00a.
Grivas, John C., to Sherwin-Williams Company, The. Substituted N-alkyl benzisothiazolinones. 3,761,489, 9-25-73, Cl. 260-304.000.
Grivsky, Eugene M., to Burroughs Wellcome Co. and Wellcome Foundation, Ltd. Preparation of benzonitriles. 3,742,014, 6-26-73, Cl. 260-465.00b.
Grizzle, Clyde W. Apparatus for knitting and separating hosiery articles. 3,756,044, 9-4-73, Cl. 66-147.000.
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Grob, Russel W., to Caterpillar Tractor Company. Pulse transmitter circuit for measuring instruments. 3,745,470, 7-10-73, Cl. 328-38.000.
Groberman, Leslie J.; and Wuori, Edward R., to Honeywell Inc. Apparatus for determining the damping ratio of a second order vibration system. 3,715,920, 2-13-73, Cl. 73-194.00b.
Grobman, William, to Harris-Intertype Corporation. Paperboard convertible printer scorer slotter. 3,709,111, 1-9-73, Cl. 93-58.200.
Grobman, William, to Harris-Intertype Corporation. Sheet feeding apparatus. 3,715,115, 2-6-73, Cl. 271-44.00a.
Groce, Larry A.; and Renner, Darwin S. Fault indicator apparatus for fault location in an electrical power distribution system. 3,777,217, 12-4-73, Cl. 317-33.00c.
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Gaier, Claude E.; Grochowski, Edward G.; and Roy, Maurice M., 3,753,809.
Grodal, Agnar Vidar: *See—*
Avsan, Oleg; and Grodal, Agnar Vidar, 3,761,884.
Grodinsky, Robert M. Controlled carrier amplitude modulated signal transmitting and receiving system. 3,739,280, 6-12-73, Cl. 325-144.000.
Grodinsky, Robert M. AC to DC converter circuit. 3,760,255, 9-18-73, Cl. 321-8.00r.
Grodinsky, Robert M., to Chicago Musical Instrument Co. Air cooled audio amplifier assembly. 3,778,551, 12-11-73, Cl. 179-1.000.
Grodner, Seymour L.; and Radlauer, Marvin I., to Telebeam Corporation. Subscription communication system. 3,751,670, 8-7-73, Cl. 250-199.000.
Groebel, Alfred; and Lindner, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Pharmacologically effective substance for lowering blood pressure and process for isolating it from cabucala madagascariensis. 3,740,426, 6-19-73 Cl. 424-195.000.
Groebel, Alfred; and Lindner, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Pharmacologically effective substance isolated from cabucala madagascarieneis. 3,773,931, 11-20-73, Cl. 424-195.000.
Groeber, Eugen, to Sperry Rand Corporation. Pneumatic transport track. 3,747,922, 7-24-73, Cl. 271-74.000.
Groebke, Wolfgang; and Wirz, Roswitha, to Sandoz Ltd. 2,6-Dihalo-4-nitrophenyl-azo-phenyl compounds having an optionally substituted phenylcarbamoyloxyalkyl substituent. 3,773,750, 11-20-73, Cl. 260-207.100.
Groechel, William D.: *See—*
Neff, Robert O.; Morrison, Kenneth V.; and Groechel, William D., 3,764,425.
Groen, Frederick H., Jr., to Dover Corporation. Portable scraper-type mixer. 3,752,057, 8-14-73, Cl. 99-348.000.
Groen, Siemen H.: *See—*
Deumens, Johannes J. M.; and Groen, Siemen H., 3,780,082.
Groen, Siemen H.; Deumens, Johannes J. M.; and Stijfs, Petrus A. M. J., to Stamicarbon N.V. Preparation of C-substituted piperidine. 3,728,353, 4-17-73, Cl. 260-293.520.
Groenendaal, Willem; and Lenz, Walter M., to Shell Oil Company. Combined sulfur oxides acceptance-sulfur recovery process. 3,764,665, 10-9-73, Cl. 423-574.000.
Groenendyke, Goethe M., to Mobil Oil Corporation. Display of borehole wall configuration. 3,718,204, 2-27-73, Cl. 181-5.0be.
Groenhof, Eugene D.: *See—*
Quaal, George J.; Groenhof, Eugene D.; and Kelly, Robert J., 3,756,052.
Groenhof, Eugene D.; and Swihart, Terence J., to Dow Corning Corporation. Lubricant compositions. 3,759,827, 9-18-73, Cl. 252-29.000.
Groening, Franklin E., to PPG Industries, Inc. Preparation of titanium carbide. 3,761,576, 9-25-73, Cl. 423-440.000.
Groenveld, Pieter, to Cominco Ltd. Process for the production of ammonium phosphate fertilizers. 3,730,700, 5-1-73, Cl. 71-34.000.
Groepper, Jurgen; and Sanchez, Jose, to Pennwalt Corporation. Curing processes employing beta-substituted diperoxyketals. 3,763,275, 10-2-73, Cl. 260-861.000.
Groetschel, Karl M. Mechanical extension devices for hydraulic or other props. 3,712,572, 1-23-73, Cl. 248-354.00r.
Groetschel, Karl Maria. Mine roof support with means for lifting the base elements. 3,748,861, 7-31-73, Cl. 61-45.00d.
Groezinger, Marlo Wayne, to Honeywell Inc. Lamp removal arrangement. 3,742,211, 6-26-73, Cl. 240-152.000.
Groezinger, Marlo Wayne, to Honeywell Inc. Relamping arrangement for illuminated pushbutton. 3,773,999, 11-20-73, Cl. 200-167.00a.
Groff, Eugene R.; and Welsh, James P., to Caterpillar Tractor Company. Diaphragm seal with fluid filled cavity for paddle or fluid flow responsive switch. 3,729,604, 4-24-73, Cl. 200-81.90r.
Groff, Gaylord L.: *See—*
Cartier, Michael D.; and Groff, Gaylord L., 3,727,164.
Stow, Robert H.; and Groff, Gaylord L., 3,762,946.
Grogean, Charles J.: *See—*
King, Robert W.; and Grogean, Charles J., 3,771,903.
Grogg, William E.: *See—*
Daly, Patrick J.; Grogg, William E.; Layman, Stuart F.; Orlando, Harold J.; Perry, James E.; and Van Derlaske, Dennis P., 3,760,181.
Grogler, Gerhard; Kallert, Wilhelm; and Meisert, Ernst, to Bayer Aktiengesellschaft. Polyurethanes based on tertiary alcohol-modified naphthylene-1,5-diisocyanate. 3,769,265, 10-30-73, Cl. 260-75.0nt.
Grogono, Alan Walter; and Freeman, Maurice Frederick, to East, H. G., & Company. Apparatus for delivering a predetermined volume of fluid at regular intervals. 3,756,271, 9-4-73, Cl. 137-494.000.
Groh, Gunther, to U.S. Philips Corporation. Optical apparatus for symbol recognition comprising a plurality of channels. 3,751,132, 8-7-73, Cl. 350-3.500.
Groh, Louis; and Jones, Harry Joseph, to Ferroco Engineering Limited. Bar twister guide. 3,776,013, 12-4-73, Cl. 72-231.000.
Grohe, Hans, KG, Firma: *See—*
Luder, Ernst; and Buzzi, Gunther, 3,749,345.



Grohe, Stephen F. Single impression multicolor printing. 3,758,302, 9-11t73, Cl. 96-2.000.
Grohmann, Klaus: *See—*
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Grolet, Pierre; and Thiery, Jean, to Institut Francais du Petrole des Carburants et Lubrifiants. Gripping shoe for a traction device adapted for pulling an elongated member. 3,778,094, 12-11-73, Cl. 294-1.000.
Grolig, Johann: *See—*
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Groll, Manfred: *See—*
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Groll, Manfred, to Farbenfabriken Bayer Aktiengesellschaft. Phthalocyanine dyestuffs. 3,711,508, 1-16-73, Cl. 260-314.500.
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Grom, Jury Ivanovich; and Yatsuk, Vladimir Grigorievich. Inverter. 3,781,645, 12-25-73, Cl. 321-45.00c.
Gronauer, Charles. Keyhole light. 3,711,694, 1-16-73, Cl. 240-2.130.
Gronberg, Sven Jorgen Gerhard. Device in striking cutters. 3,738,584, 6-12-73, Cl. 241-190.000.
Gronberg, Sven Jorgen Gerhard. Agricultural machine. 3,745,754, 7-17-73, Cl. 56-14.400.
Groneman, Norman A.: *See—*
Madey, Marion J.; and Groneman, Norman A., 3,765,541.
Gronemeyer, Erich W.; and Kutik, Louis F. Closure fitment. 3,708,083, 1-2-73, Cl. 215-41.000.
Groner, Warren; Kusnetz, Jacob; and Saunders, Alexander M., to Technicon Instruments Corporation. Automatic apparatus for determining the percentage population of particulates in a medium. 3,740,143, 6-19-73, Cl. 356-39.000.
Groner, Warren; and George, Wilberdan Victor, to Technicon Instruments Corporation. Method and apparatus for analysis of leukocytes using light scattered by each leukocyte at absorbing and non-absorbing wavelength. 3,781,112, 12-25-73, Cl. 356-39.000.
Gronholz, Donald D.: *See—*
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Gronholz, Donald D., to Donaldson Company, Inc. Air cleaner with hinged side walls. 3,712,033,,1-23-73, Cl. 55-493.000.
Gronier, Jean. Propulsion fin for a floating body. 3,773,011, 11-20-73, Cl. 115-28.00r.
Gronowitz, Salo Schmul; Michael, Uri; and Sjoberg, Berndt Olof Harald, to Astra Lakemedel Aktiebolag. Aromatic alpha-amino acids. 3,778,463, 12-11-73, Cl. 260-471.00a.
Gronroos, Charles M., to United States of America, Navy. Life support system with a hull heat exchanger. 3,765,354, 10-16-73, Cl. 114-16.00r.
Groom, Frederick, III: *See—*
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Groom, Jay L., Jr.: *See—*
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Kosowsky, Leo N.; Lovejoy, Curtis N.; Cunniff, John G.; and Groom, Robert T., 3,746,630.
Grooss, Frank A., to Caterpillar Tractor Company. Tandem axle suspension system for heavy-duty vehicle. 3,726,540, 4-10-73, Cl. 280-104.50a.
Grooss, Frank A., to Caterpillar Tractor Company. Replaceable truck body and method for using same. 3,768,672, 10-30-73, Cl. 214-82.000.
Groothaert, Henry Edmond, to Servus Rubber Company, The. Boot with heel protection. 3,742,623, 7-3-73, Cl. 36-4.000.
Groothoff, Adriaan Jacob: *See—*
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Grooves, William G.; and Tillman, William J., to Smith Kline & French Laboratories. Method of producing gastrointestinal spasmolytic activity with alkylphenoxypoly (ethyleneoxy)ethanols. 3,709,995, 1-9-73, Cl. 424-341.000.
Gropper, Hans: *See—*
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Trieschmann, Hans-Georg; Zizlsperger, Johann; Gropper, Hans; Stark, Kurt; and Fauth, Karl Heinz, 3,726,842.
Gropper, Lee; and Stahl, Lawrence E., to Beckman Instruments, Inc. Centrifuge test tube stopper. 3,720,502, 3-13-73, Cl. 23-292.000.
Groppl, Arthur D. Glass cutting table. 3,743,149, 7-3-73, Cl. 225-2.000.
Gros-Ite Industries, Inc.: *See—*
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Grosbard, Gregory, to Radion Development Corporation. Projectile. 3,738,272, 6-12-73, Cl. 102-38.000.
Grosbard, Gregory. Magnetically suspended rotor assembly. 3,761,148, 9-25-73, Cl. 308-10.000.
Groschopp, Heinz; Schoenemann, Rudolf; Germscheid, Hans Gunther; and Venschott, Hubert, to Henkel & Cie. GmbH. Process for enamelling steel using an electrolytic nickel preplate. 3,721,614, 3-20-73, Cl. 204-38.00c.
Groschwitz, Eberhard, to Siemens Aktiengesellschaft. Integrated optical-electronic solid state system. 3,716,804, 2-13-73, Cl. 332-7.510.
Grose, William L.: *See—*
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Grosgebauer, Roger A., to Thiokol Chemical Corporation. Release mechanism for flare parachute. 3,767,142, 10-23-73, Cl. 244-147.000.
Grosjean, Pierre; and Vaginay, Yves, to Societe Rhodiaceta. Antistatic thermoplastic polyester composition containing sulfonated polyoxyalkylene. 3,743,685, 7-3-73, Cl. 260-860.000.
Grosjean, Pierre; Guillermin, Rene; and Vidal, Roger, to Societe Rhodiaceta. Process for the simultaneous texturizing and dyeing or finishing of thermoplastic yarns. 3,751,778, 8-14-73, Cl. 28-72.140.
Grosky, Stephen A.: *See—*
Albrecht, Francis E.; Baxter, William D.; De Michiel, John; Duggan, Robert J.; Greenblum, Carl; Grosky, Stephen A.; and Langer, Arthur, 3,742,288.
Albrecht, Francis W.; Baxter, William D.; Duggan, Robert J.; and Grosky, Stephen A., 3,742,482.
Grosmangin, Jacques; and Peyrot, Jean, to Compagnic Francaise de Raffinage. 4-Vinyl pyridine polymer of improved properties for purification of polymers containing Ziegler-Nata catalyst residues. 3,718,631, 2-27-73, Cl. 260-80.720.
Gross, Alan E.; Larson, Rodney L.; and Skoc, Ralph E., to MTS System, Corporation. Control mode switching system for a servomechanism. 3,742,324, 6-26-73, Cl. 318-597.000.
Gross, Alan E., to MTS Systems Corporation. Oscillatory signal system with turn on and turn off rate control. 3,751,994, 8-14-73, Cl. 73-67.300.
Gross, Alexander. Shuttle-motion unit for narrow fabric looms. 3,771,572, 11-13-73, Cl. 139-136.000.
Gross, Alexander. Apparatus for the production of chenille. 3,777,464, 12-11-73, Cl. 57-24.000.
Gross, Arthur: *See—*
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Gross, Bette L. Candle. 3,730,674, 5-1-73, Cl. 431-288.000.
Gross, Carl E. Condensor spring depressor pliers. 3,716,878, 2-20-73, Cl. 7-5.000.
Gross Cash Registers Limited: *See—*
Gross, Henry; and Gross, Samuel, 3,728,961.
Gross, Henry; and Gross, Samuel, 3,739,161.
Gross, Henry; and Gross, Samuel, 3,756,147.
Gross, Daniel, to Battelle Memorial Institute. Device for illuminating the traveling path of a vehicle and protecting the driver from dazzling. 3,767,288, 10-23-73, Cl. 350-156.000.
Gross, Donald S., to Rohr Corporation. Pressure foot guide device. 3,758,933, 9-18-73, Cl. 29-200.00p.
Gross, Erich Wilhelm, to Moeller & Neumann GmbH. Roll stands for rolling mills. 3,717,021, 2-20-73, Cl. 72-248.000.
Gross, Franz: *See—*
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Gross, Frederick A., to International Rectifier Corporation. Differential pressure switch using elongated tube and spaced interior wire. 3,714,386, 1-30-73, Cl. 200-81.00r.
Gross, Frederick A., to International Rectifier Corporation. Four-way valve. 3,739,811, 6-19-73, Cl. 137-625.270.
Gross, George Conrad, to Du Pont de Nemours, E. I., and Company. Synthetic paper structures of aromatic polyamides. 3,756,908, 9-4-73, Cl. 162-146.000.
Gross, George E. Detachable pocket. 3,747,776, 7-24-73, Cl. 211-88.000.
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Gross, Harald: *See—*
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Gross, Henry; and Gross, Samuel, to Gross Cash Registers Limited. Arrangement for electromagnetically setting drum series print wheels. 3,728,961, 4-24-73, Cl. 101-99.000.



Gross, Henry; and Gross, Samuel, to Gross Cash Registers Limited. Gross, Wolfgang; and Gross, Gerhart; Kleemann, Manfred; and Kutter, Eberhard, 3,725,388.
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Grossino, Vincent. Board game apparatus. 3,747,932, 7-24-73, Cl. 273-131.00b.
Griste, Frederic S., to Penn Fishing Tackle Mfg. Co. Fishing reel. 3,771,746, 11-13-73, Cl. 242-215.000.
Griswold and Rauma, Architects, Inc.: *See—*
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Griswold, David E., 3,752,183.
Griswold, David E., 3,752,184.
Griswold, David E.; and McCarty, William E., to Griswold Controls. Selective and sequential control system. 3,723,827, 3-27-73, Cl. 317-137.000.
Griswold, David E., to Griswold Controls. Flow valve having tapered cup. 3,752,183, 8-14-73, Cl. 137-504.000.
Griswold, David E., to Griswold Controls. Flow control valve. 3,752,184, 8-14-73, Cl. 137-504.000.
Griswold, Douglas A.: *See—*
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Griswold, Edward A. Electrostatic filter for cleaning dielectric fluids. 3,729,402, 4-24-73, Cl. 204-302.000.
Griswold, Frederick Bethel, to RCA Corporation. Phase measuring system. 3,764,903, 10-9-73, Cl. 324-83.00d.
Griswold, Frederick Bethel, to RCA Corporation. Analog phase tracker. 3,769,602, 10-30-73, Cl. 329-122.000.
Griswold, Paul H., Jr., to Du Pont de Nemours, E. I., and Company. Production of phthalocyanine pigment. 3,717,493, 2-20-73, Cl. 106-288.00q.
Gritsch, Herbert; Meyerhoff, Herwig; Bruns, Enno; and Hemmie, Gerd, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Apparatus for indicating acoustical or electromagnetic signals. 3,723,959, 3-27-73, Cl. 340-6.00r.
Gritsenko, Anna Nikitichna; Vikhlyaev, Jury Ivanovich; Zhuravlev, Semen Vladimirovich; Kaverina, Natalya Veniaminovna; Senova, Zlata Petrovna; and Ulyanova, Olga Vasilievna. Ethyl 10-(b-morpholylpropionyl)-phenthiazine-2-carbamate hydrochloride. 3,740,395,6-19-73, Cl. 260-243.0ac.
Gritt, William E.: *See—*
Aull, Louis J.; and Gritt, William E., 3,708,065.
Gritzner, Gerhard, to Dow Chemical Company, The. Oxidation step in electrolysis of aqueous HC1. 3,711,388, 1-16-73, Cl. 204-128.000.
Grivas, John C., to Sherwin-Williams Company, The. Fungicidal compositions and methods of prohibiting the growth thereof. 3,736,280, 5-29-73, Cl. 260-22.00a.
Grivas, John C., to Sherwin-Williams Company, The. Substituted N-alkyl benzisothiazolinones. 3,761,489, 9-25-73, Cl. 260-304.000.
Grivsky, Eugene M., to Burroughs Wellcome Co. and Wellcome Foundation, Ltd. Preparation of benzonitriles. 3,742,014, 6-26-73, Cl. 260-465.00b.
Grizzle, Clyde W. Apparatus for knitting and separating hosiery articles. 3,756,044, 9-4-73, Cl. 66-147.000.
Grizzly Corporation: *See—*
Caldwell, Robert H.; and Pauline, Larry I., 3,754,341.
Caldwell, Robert H.; and Pauline, Larry I., 3,758,062.
Grob & Co., Aktiengesellschaft: *See—*
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Grob, Alfred: *See—*
Ziesche, Kurt; Hans, Waldemar; Duffner, Josef; Brune, Gerhard; and Grob, Alfred, 3,732,893.
Grob, Russel W., to Caterpillar Tractor Company. Pulse transmitter circuit for measuring instruments. 3,745,470, 7-10-73, Cl. 328-38.000.
Groberman, Leslie J.; and Wuori, Edward R., to Honeywell Inc. Apparatus for determining the damping ratio of a second order vibration system. 3,715,920, 2-13-73, Cl. 73-194.00b.
Grobman, William, to Harris-Intertype Corporation. Paperboard convertible printer scorer slotter. 3,709,111, 1-9-73, Cl. 93-58.200.
Grobman, William, to Harris-Intertype Corporation. Sheet feeding apparatus. 3,715,115, 2-6-73, Cl. 271-44.00a.
Groce, Larry A.; and Renner, Darwin S. Fault indicator apparatus for fault location in an electrical power distribution system. 3,777,217, 12-4-73, Cl. 317-33.00c.
Grocers Baking Company: *See—*
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Gaier, Claude E.; Grochowski, Edward G.; and Roy, Maurice M., 3,753,809.
Grodal, Agnar Vidar: *See—*
Avsan, Oleg; and Grodal, Agnar Vidar, 3,761,884.
Grodinsky, Robert M. Controlled carrier amplitude modulated signal transmitting and receiving system. 3,739,280, 6-12-73, Cl. 325-144.000.
Grodinsky, Robert M. AC to DC converter circuit. 3,760,255, 9-18-73, Cl. 321-8.00r.
Grodinsky, Robert M., to Chicago Musical Instrument Co. Air cooled audio amplifier assembly. 3,778,551, 12-11-73, Cl. 179-1.000.
Grodner, Seymour L.; and Radlauer, Marvin I., to Telebeam Corporation. Subscription communication system. 3,751,670, 8-7-73, Cl. 250-199.000.
Groebel, Alfred; and Lindner, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Pharmacologically effective substance for lowering blood pressure and process for isolating it from cabucala madagascariensis. 3,740,426, 6-19-73 Cl. 424-195.000.
Groebel, Alfred; and Lindner, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Pharmacologically effective substance isolated from cabucala madagascarieneis. 3,773,931, 11-20-73, Cl. 424-195.000.
Groeber, Eugen, to Sperry Rand Corporation. Pneumatic transport track. 3,747,922, 7-24-73, Cl. 271-74.000.
Groebke, Wolfgang; and Wirz, Roswitha, to Sandoz Ltd. 2,6-Dihalo-4-nitrophenyl-azo-phenyl compounds having an optionally substituted phenylcarbamoyloxyalkyl substituent. 3,773,750, 11-20-73, Cl. 260-207.100.
Groechel, William D.: *See—*
Neff, Robert O.; Morrison, Kenneth V.; and Groechel, William D., 3,764,425.
Groen, Frederick H., Jr., to Dover Corporation. Portable scraper-type mixer. 3,752,057, 8-14-73, Cl. 99-348.000.
Groen, Siemen H.: *See—*
Deumens, Johannes J. M.; and Groen, Siemen H., 3,780,082.
Groen, Siemen H.; Deumens, Johannes J. M.; and Stijfs, Petrus A. M. J., to Stamicarbon N.V. Preparation of C-substituted piperidine. 3,728,353, 4-17-73, Cl. 260-293.520.
Groenendaal, Willem; and Lenz, Walter M., to Shell Oil Company. Combined sulfur oxides acceptance-sulfur recovery process. 3,764,665, 10-9-73, Cl. 423-574.000.
Groenendyke, Goethe M., to Mobil Oil Corporation. Display of borehole wall configuration. 3,718,204, 2-27-73, Cl. 181-5.0be.
Groenhof, Eugene D.: *See—*
Quaal, George J.; Groenhof, Eugene D.; and Kelly, Robert J., 3,756,052.
Groenhof, Eugene D.; and Swihart, Terence J., to Dow Corning Corporation. Lubricant compositions. 3,759,827, 9-18-73, Cl. 252-29.000.
Groening, Franklin E., to PPG Industries, Inc. Preparation of titanium carbide. 3,761,576, 9-25-73, Cl. 423-440.000.
Groenveld, Pieter, to Cominco Ltd. Process for the production of ammonium phosphate fertilizers. 3,730,700, 5-1-73, Cl. 71-34.000.
Groepper, Jurgen; and Sanchez, Jose, to Pennwalt Corporation. Curing processes employing beta-substituted diperoxyketals. 3,763,275, 10-2-73, Cl. 260-861.000.
Groetschel, Karl M. Mechanical extension devices for hydraulic or other props. 3,712,572, 1-23-73, Cl. 248-354.00r.
Groetschel, Karl Maria. Mine roof support with means for lifting the base elements. 3,748,861, 7-31-73, Cl. 61-45.00d.
Groezinger, Marlo Wayne, to Honeywell Inc. Lamp removal arrangement. 3,742,211, 6-26-73, Cl. 240-152.000.
Groezinger, Marlo Wayne, to Honeywell Inc. Relamping arrangement for illuminated pushbutton. 3,773,999, 11-20-73, Cl. 200-167.00a.
Groff, Eugene R.; and Welsh, James P., to Caterpillar Tractor Company. Diaphragm seal with fluid filled cavity for paddle or fluid flow responsive switch. 3,729,604, 4-24-73, Cl. 200-81.90r.
Groff, Gaylord L.: *See—*
Cartier, Michael D.; and Groff, Gaylord L., 3,727,164.
Stow, Robert H.; and Groff, Gaylord L., 3,762,946.
Grogean, Charles J.: *See—*
King, Robert W.; and Grogean, Charles J., 3,771,903.
Grogg, William E.: *See—*
Daly, Patrick J.; Grogg, William E.; Layman, Stuart F.; Orlando, Harold J.; Perry, James E.; and Van Derlaske, Dennis P., 3,760,181.
Grogler, Gerhard; Kallert, Wilhelm; and Meisert, Ernst, to Bayer Aktiengesellschaft. Polyurethanes based on tertiary alcohol-modified naphthylene-1,5-diisocyanate. 3,769,265, 10-30-73, Cl. 260-75.0nt.
Grogono, Alan Walter; and Freeman, Maurice Frederick, to East, H. G., & Company. Apparatus for delivering a predetermined volume of fluid at regular intervals. 3,756,271, 9-4-73, Cl. 137-494.000.
Groh, Gunther, to U.S. Philips Corporation. Optical apparatus for symbol recognition comprising a plurality of channels. 3,751,132, 8-7-73, Cl. 350-3.500.
Groh, Louis; and Jones, Harry Joseph, to Ferroco Engineering Limited. Bar twister guide. 3,776,013, 12-4-73, Cl. 72-231.000.
Grohe, Hans, KG, Firma: *See—*
Luder, Ernst; and Buzzi, Gunther, 3,749,345.

Gross, Henry; and Gross, Samuel, to Gross Cash Registers Limited. Cash registers and other accounting machines keyboard-operated. 3,739,161, 6g12-73, Cl. 235-156.000.
Gross, Henry; and Gross, Samuel, to Gross Cash Registers Limited. Coil spring biased printing wheels. 3,756,147, 9-4-73, Cl. 101-95.000.
Gross, Jack; and Gordon, Amirav, to Yissum Research Development Company of the Hebrew University of Jerusalem. Vitro test system for assessing thyroid function. 3,710,117, 1-9-73, Cl. 250-106.00t.
Gross, James C.: *See—*
Dorsey, Robert L., Sr.; Gross, James C.; and Myers, H. George. 3,725,834.
Gross, James Edward: *See—*
Brown, Paul Merrill; Davis, Donovan Chester; Gross, James Edward; and Sweet, Richard Gordon. 3,769,591.
Gross, Jerome A. Valve and membrane apparatus for recapping tire casings. 3,743,564, 7-3-73, Cl. 156-394.000.
Gross, John; and Lind, Arthur L., to Gulf & Western Industrial Products Company. Expandible mandrel assembly. 3,754,720, 8-28-73, Cl. 242-72.100.
Gross, Josef: *See—*
Barkow, William Henry; and Gross, Josef, 3,721,930.
Gross, Josef; and Barkow, William Henry, to RCA Corporation. Color television deflector yoke having reduced variation in beam trio distortion. 3,735,299, 5-22-73, Cl. 335-213.000.
Gross, Joseph I.: *See—*
Healy, Lawrence W.; Wang, Wu Lan; and Gross, Joseph I., 3,764,454.
Gross, Leonard B.; Johnson, Charles R.; and Nattsas, Stephen C., to Babcock & Wilcox Company, The. On site pressure vessel inspection device. 3,715,914, 2-13-73, Cl. 73-67.700.
Gross, Max, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Device for holding a workpiece. 3,716,224, 2-13-73, Cl. 269-48.100.
Gross, Richard: *See—*
Von Der Eltz, Hans-Ulrich; Gross, Richard; and Birke, Walter, 3,721,524.
Von Der Eltz, Hans-Ulrich; and Gross, Richard, 3,724,997.
Gross, Richard A., to Mark Systems, Inc. Stabilized light beam projection system. 3,781,121, 12-25-73, Cl. 356-247.000.
Gross, Robert A.; Hunter, Skillman C.; and Norman, Leslie W., to Garrett Corporation, The. Method and apparatus for reaction propulsion. 3,777,488, 12-11-73, Cl. 60-204.000.
Gross, Robert D., to Singer Company, The. Strain relieving electrical connector. 3,745,513, 7-10-73, Cl. 339-95.00r.
Gross, Robert I., to Pall Corporation. Flow-sensitive sensing and shut-off device. 3,742,970, 7-3-73, Cl. 137-100.000.
Gross, Robert S.: *See—*
Czewski, Robert L.; and Gross, Robert S., 3,760,316.
Gross, Ronald E., to Cooke Engineering Company, The. Red cell rinser. 3,776,699, 12-4-73, Cl. 23-259.000.
Gross, Samuel: *See—*
Gross, Henry; and Gross, Samuel, 3,728,961.
Gross, Henry; and Gross, Samuel, 3,739,161.
Gross, Henry; and Gross, Samuel, 3,756,147.
Gross, Thomas A. O. Phase-sensitive ground fault protective systems. 3,723,814, 3-27-73, Cl. 317-18.00d.
Gross, Thomas A. O., to Arrow-Hart, Inc. Thyristor control circuits including means for sensing the presence of an object. 3,745,379, 7-10-73, Cl. 307-252.00b.
Gross, Wayne B., to General Signal Corporation. Push button switch assembly with slidable interlocking means preventing simultaneous operation of two or more pushbuttons. 3,780,236, 12-18-73, Cl. 200-5.0ea.
Gross, Werner Johann; Lanzerath, Gunter Franz; Patzer, Helmut Karl; Maennchen, Joachim Klauss; Rieger, Helmuth; and Weiberg, Horst, to Borg-Warner-Stieber GmbH. Adjustable mandrel for clamping a work piece. 3,776,562, 12-4-73, Cl. 279-2.000.
Gross, William Franklin, Jr.: *See—*
Gangwisch, William J.; Trimmer, Robert Henry; and Gross, William Franklin, Jr., 3,748,093.
Trimmer, Robert Henry; Gross, William Franklin, Jr.; and Gangwisch, William J., 3,755,201.
Gross, William R. Apparatus for raising and harvesting fish. 3,716,026, 2-13-73, Cl. 119-3.000.
Gross, William R. Apparatus for aerating water. 3,747,904, 7-24-73, Cl. 261-92.000.
Gross, Wilmer: *See—*
Wood, Charles W.; and Wydro, Edwin S., 3,764,859.
Grossa, Mario: *See—*
Lugosy, Laszlo; Grossa, Mario; and Pistor, Wolfgang, 3,762,922.
Grossan, Murray. Jet throat irrigation. 3,747,595, 7-24-73, Cl. 128-66.000.
Grossberg, Sam, 50% to Friedman and Goodman. Pinwheel. 3,747,263, 7-24-73, Cl. 46-58.000.
Grosse, Edward H.: *See—*
Hayes, Lester P.; Drury, Raymond L., Jr.; and Grosse, Edward H., 3,719,664.
Grosse Webereimaschinen GmbH: *See—*
Geirhos, Werner; and Eggermont, Frans, 3,744,035.
Grosse Webereimaschinen GmbH, Firma: *See—*
Keim, Walter, 3,732,895.
Grosse, Wolfgang C. F. Stackable tray for temporarily storing documents or other items. 3,750,892, 8-7-73, Cl. 211-128.000.
Grosse-Brauckmann, Ehrenfried; Kick, Hermann; and Nettesheim, Gottfried, to Union Rheinische Braunkohlen Kraftstoff Aktiengesellschaft. Method for the production of horticultural soils. 3,744,986, 7-10-73, Cl. 71-24.000.
Grosse-Rhode, Tony W. Extendible towing tongue. 3,767,231, 10-23-73, Cl. 280-482.000.
Grosseau, Albert, to S.A. Automobiles Citroen. Expandible honing heads. 3,707,810, 1-2-73, Cl. 51-346.000.
Grosseau, Albert, to Societe Anonyme Automobiles Citroen. Tools for rough finishing and honing bores. 3,710,518, 1-16-73, Cl. 51-338.000.
Grosseau, Albert, to Societe Anonyme Automobiles Citroen. Telescopic device for transmitting rotary movement. 3,714,841, 2-6-73, Cl. 74-492.000.
Grosseau, Albert, to Societe Anonyme Automobiles Citroen. Tool for electrolytically honing spherical surfaces. 3,730,870, 5-1-73, Cl. 204-224.000.
Grosseau, Albert, to Citroen S.A. (Automobiles Citroen Berliet, Panhard). Multi-stage rotary jacks. 3,732,786, 5-15-73, Cl. 92-66.000.
Grosseau, Albert, to Societe Anonyme Automobiles Citroen. Axle with independent wheels. 3,736,002, 5-29-73, Cl. 280-124.00f.
Grosseau, Albert, to S.A. Automobiles Citroen. Device for driving a passive element according to a predetermined law of movement. 3,738,110, 6-12-73, Cl. 60-368.000.
Grosseau, Albert, to Societe Anonyme Automobiles Citroen. Multi-accumulator hydraulic suspension system. 3,761,110, 9-25-73, Cl. 280-124.00f.
Grosseau, Albert, to Societe Anonyme Automobiles Citroen. Speed limiters for internal combustion engines with controlled coil ignition. 3,777,088, 12-4-73, Cl. 200-80.000.
Grosseau, Albert, to Societe Anonyme Automobiles Citroen. Suspensions for vehicles. 3,778,082, 12-11-73, Cl. 280-124.00b.
Grosseau, Albert A. G., to Societe Anonyme Automobiles Citroen. Anti-locking devices. 3,767,271, 10-23-73, Cl. 303-21.00f.
Grosser, Harry W.; Fehlman, William L.; and Carlson, Duane. Self-testing emergency automotive warning system. 3,772,641, 11-13-73, Cl. 340-33.000.
Grossetete, Roger; and Blaublomme, Jean Pierre, to Etablissements Andre Debris. Light-correction system for printers of colour cinematographic films. 3,752,577, 8-14-73, Cl. 355-36.000.
Grossett, Alfred Harry: *See—*
Harrington, Wilfred H.; and Grossett, Alfred Harry, 3,717,191.
Grossett, Alfred Harry, to Dunlop Holdings Limited. Pneumatic tires. 3,760,858, 9-25-73, Cl. 152-361.000.
Grosshauser, Anton: *See—*
Lassig, Harry; and Grosshauser, Anton, 3,780,893.
Grossi, Giuseppe: *See—*
Camiciottoli, Roberto; and Grossi, Giuseppe, 3,739,098.
Camiciottoli, Roberto; and Grossi, Giuseppe, 3,760,127.
Grosskinsky, Otto-Alfred; and Merkel, Karl, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Continuous manufacture of bis (aminocyclohexyl)-alkanes or bis(aminocyclohexyl) ethers. 3,743,677, 7-3-73, Cl. 260-563.00d.
Grosskopf, Herbert, to Rohde & Schwarz. Method and apparatus for measurement of spurious voltages in video signals. 3,773,974, 11-20-73, Cl. 178-6.000.
Grosslight and Pace: *See—*
Huffman, Russell B.; Baker, Stuart J.; Grosslight, Donald P.; and Pace, Aldren M., 3,711,750.
Grosslight, Donald P.: *See—*
Huffman, Russell B.; Baker, Stuart J.; Grosslight, Donald P.; and Pace, Aldren M., 3,711,750.
Grossman, Abraham. Frame construction having arcuate corners and a continuous feature strip. 3,728,833, 4-24-73, Cl. 52-211.000.
Grossman, Abraham. Sliding panel decorative frame, handle, and latch means combination. 3,768,205, 10-30-73, Cl. 49-450.000.
Grossman, Burton C., to Hazeltine Corporation. Spread-spectrum position monitoring system. 3,714,573, 1-30-73, Cl. 325-32.000.
Grossman, Charles M. Apparatus for the in vivo treatment of blood containing harmful components resulting from chronic uremia and other conditions. 3,742,946, 7-3-73, Cl. 128-214.00r.
Grossman, David D.: *See—*
Franaszek, Peter A.; Grossman, David D.; and Will, Peter M., 3,720,875.
Grossman, David G., to Corning Glass Works. Tetrasilicic mica glass-ceramic method. 3,732,087, 5-8-73, Cl. 65-33.000.
Grossman, David O.: *See—*
Bahl, Lalit R.; Barnea, Daniel I.; Grossman, David O.; and Kobayashi, Hisashi, 3,769,453.
Grossman, Gary S. Animal feeder. 3,762,373, 10-2-73, Cl. 119-51.110.
Grossman, Gunter; Moder, Hans-Ulrich; and Schubert, Rolf, to Siemens Aktiengesellschaft. Switching arrangement for a data processing installation. 3,710,029, 1-9-73, Cl. 179-18.0es.
Grossman, James D.; Mookherjee, Braja D.; De Simone, Robert S.; and Theimer, Ernst T., to International Flavors & Fragrances Inc.



Perfumes including perhydro 1,4,9,9-tetramethyl-4,7-methanoazulenones. 3,748,284, 7-24-73, Cl. 252-522.000.
Grossman, James Douglas; and Light, Kenneth K., to International Flavors & Fragrances Inc. Perfume compositions. 3,729,430, 4-24-73, Cl. 252-522.000.
Grossman, Leonard N., to General Electric Company. Non-destructive detection process for nuclear fuel rods. 3,742,367, 6-26-73, Cl. 250-391.000.
Grossman, Leonard N.; and Brigham, Donald A., to General Electric Company. Dehalogenation process. 3,755,188, 8-28-73, Cl. 252-301.10r.
Grossman, Leonard N.; and Brigham, Donald A., to General Electric Company. Process for controlling surface area of ceramic powders. 3,761,547, 9-25-73, Cl. 264-.500.
Grossman, Milton J., 1/4 to Baisch, J. Carroll. Ball tossing game having slidably adjustable receptacles. 3,740,035, 6-19-73, Cl. 273-96.00r.
Grossman, Morris: *See—*
Kotler, Max; and Grossman, Morris, 3,746,453.
Grossman, Murray. Watch mounted counter. 3,777,475, 12-11-73, Cl. 58-126.00b.
Grossman, Norman J.; Heid, Kermit K. W.; and Pittman, Richard D., to Northrop Corporation. Interconnected electrical circuit board assembly and method of fabrication. 3,739,232, 6-12-73, Cl. 317-101.0cp.
Grossman, Phillip A.: *See—*
Hug, Leonard F.; Grossman, Phillip A.; Young, Roland L.; and Stark, Robert E., 3,734,778.
Grossman, Phillip A., to Gates Rubber Company, The. Electrode having coated positive contact surface. 3,764,380, 10-9-73, Cl. 117-227.000.
Grossman, Robert. Camera system for day and night use. 3,748,383, 7-24-73, Cl. 178-7.200.
Grossmann, Max; List, Karl-Hermann; and Uhrig, Heinz. Disperse dyes and sulfosuccinate semi esters of polyalkylene glyol ethers of alkylphenols or phenol-formaldehyde condensates. 3,775,056, 11-27-73, Cl. 8-169.000.
Grossmann, Walter; and Thaddey, Kurt, to Ciba-Geigy AG. Photographic camera. 3,736,856, 6-5-73, Cl. 95-1.100.
Grossner, Horst: *See—*
Burckhardt, Manfred H.; Florus, Hans-Jorg; Grossner, Horst; and Krohn, Hellmut, 3,744,851.
Burckhardt, Manfred H.; Krohn, Hellmut; Grossner, Horst; and Florus, Hans-Jorg, 3,762,774.
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Grosso, Patrick F.; Rutherford, Robert E., Jr.; and Sargent, Donald E., to Columbia Broadcasting System, Inc. Method of electrophoretic deposition of cathodoluminescent materials. 3,714,011, 1-30-73, Cl. 204-181.000.
Grosvenor, Herbert Don: *See—*
Crimmins, William M.; Murphy, Patrick J.; Zachev, Ivan; and Grosvenor, Herbert Don, 3,743,290.
Groswith, Charles T., III: *See—*
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Abildgaard, William H.; Groswith, Charles T., III; and Melgaard, Hans L., 3,736,200.
Abildgaard, William H.; and Groswith, Charles T., III, 3,744,821.
Abildgaard, William H.; and Groswith, Charles T., III, 3,749,422.
Abildgaard, William H.; and Groswith, Charles T., III, 3,749,423.
Abildgaard, William H.; and Groswith, Charles T., III, 3,756,625.
Groszek, Aleksamder Jerzy, to British Petroleum Company Limited, The. Metal flakes. 3,744,726, 7-10-73, Cl. 241-30.000.
Groszek, Aleksander Jerzy; Pitkethly, Robert Chalmers; and Geach, Charles John, to British Petroleum Company Limited, The. Metal/graphite compositions. 3,767,750, 10-23-73, Cl. 264-105.000.
Groszek, Aleksander Jerzy; and Nicholas, Douglas Keith, to British Petroleum Company Limited, The. Process for separating waxy hydrocarbons. 3,769,199, 10-30-73, Cl. 208-28.000.
Grot, Walther Gustav, to Du Pont de Nemours, E. I., and Company. $CF_2$-$CFCF_2$ $CF_2$ $SO_2$ F and derivatives and polymers thereof. 3,718,627, 2-27-73, Cl. 260-79.3mu.
Grot, Walther Gustav, to Du Pont de Nemours, E. I., and Company. Laminates of support material and fluorinated polymer containing pendant side chains containing sulfonyl groups. 3,770,567, 11-6-73, Cl. 161-189.000.
Grote, George A., to National Central Bank of York Pennsylvania; Administrator, d.b.n.c.t.a. of the estate of Beach, Willard C.; deceased and Administrator c.t.a. of the estate of Beach, Mary B. Cartridge for filter for moisture and oil vapor. 3,724,177, 43-73, Cl. 55-316.000.
Grote, James E.; and Fisher, Delbert J. Machine for slicing sausage and applying the slices to pizza in a predetermined pattern. 3,760,715, 9-25-73, Cl. 99-450.100.
Grote Manufacturing Company, Inc., The: *See—*
Grote, Walter F., Sr.; and Kimmel, Edward J., Sr., 3,743,343.
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Grote, Walter F., Sr.; and Kimmel, Edward J., Sr., to Grote Manufacturing Company, Inc., The. Vehicle spray control means. 3,743,343, 7-3-73, Cl. 296-1.300.
Grotewold, Hans W.; and Bryan, Don S. Method for preparing citrus halves. 3,708,003, 1-2-73, Cl. 99-233.110.
Groth, Daniel F. Aquarium cover. 3,721,212, 3-20-73, Cl. 119-5.000.
Grothe, Horst: *See—*
Scholz, Heinrich; Bollig, Georg; Grothe, Horst; and Otto, Gerhard, 3,757,848.
Simons, Willi; Grothe, Horst; Haselhuhn, Rolf; Koenig, Peter; and Brock, Klaus, 3,743,007.
Grotheer, Morris P.: *See—*
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Grotheer, Morris P.; and Cook, Edward H., Jr., to Hooker Chemical Corporation. Conditioning diaphragms in chloro-alkali cells. 3,755,103, 8-28-73, Cl. 204-98.000.
Grotheer, Morris P., to Hooker Chemical Corporation. Construction materials. 3,763,083, 10-2-73, Cl. 260-40.00r.
Grotheer, Robert: *See—*
Furlong, Donn B.; Gobler, Harry W.; and Grotheer, Robert, 3,779,523.
Grothoff, Gisela. Refillable aerosol dispenser. 3,718,165, 2-27-73, Cl. 141-20.000.
Grotjahn, Alfred. Distress call signalizer of the miniature transmitter type. 3,740,648, 6-19-73, Cl. 325-113.000.
Grotnes Machine Works, Inc.: *See—*
Fencl, Vernon R.; and Roze, Albert, 3,736,787.
Roze, Albert; Fencl, Vernon R.; and Luedi, Hans R., 3,756,063.
Grotta, Henry M.: *See—*
Bereday, Sigmund; Kolic, Edwin S.; Lutz, Garson A.; Grotta, Henry M.; and Gibbs, John H., 3,734,784.
Grotzbach, Oswald, to Hergeth KG Maschinenfabrik und Apparatebau. Automatic winding spool feed apparatus. 3,727,854, 4-17-73, Cl. 242-66.000.
Groudel, Charles; Giraudeau, Yves; and Geantet, Jean-Claude, to Societe Surgerienne de Constructions Mecaniques. Emergency stop device for an engine supplied by the injection of liquid fuel. 3,760,784, 9-25-73, Cl. 123-198.00d.
Grounds, Robert B.: *See—*
Johnson, Dale W.; Grounds, Robert B.; and Langford, Donald C., 3,723,851.
Groundwater, Fergus M.: *See—*
Eyre, Frank W.; and Groundwater, Fergus M., 3,738,279.
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Carbonnel, Henri, 3,715,112.
Groupement Atomique Alsacienne Atlantique G.A.A.A.: *See—*
Briot, Paul-Marie Henri, 3,711,144.
Grouss, Frank A., to Caterpillar Tractor Company. Material lifting and transporting vehicle. 3,762,590, 10-2-73, Cl. 214-775.000.
Grout, Edward C., to Sta-Rite Industries, Inc. Timer. 3,732,738, 5-15-73, Cl. 74-3.520.
Grout, Kenneth M.; and Devellian, Richard D., to Kenics Corporation. Interactive surface mixer. 3,775,063, 11-26-73, Cl. 23-283.000.
Grove, Clinton S.: *See—*
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Grove Company, The: *See—*
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Grove, John L., to Fulton Industries, Inc. Mobile aerial platform. 3,776,367, 12-4-73, Cl. 182-2.000.
Grove, Lawrence L., to General Electric Company. Electric oven toaster control mechanism. 3,752,955, 8-14-73, Cl. 219-413.000.
Grove, Leroy K. Electromagnet bobbin structure for vehicle brakes containing an abrasive wear surface. 3,753,182, 8-14-73, Cl. 335-281.000.
Grove, Leroy K. Operating arm retaining means in a vehicle brake structure. 3,757,264, 9-4-73, Cl. 335-281.000.
Grove, Leroy K. Electromagnet for brakes and clutches. 3,760,909, 9-25-73, Cl. 188-138.000.
Grove, Leroy King. Electric brake armature. 3,765,517, 10-16-73, Cl. 188-138.000.
Grove, Leslie H. Gear tooth profile. 3,709,055, 1-9-73, Cl. 74-462.000.
Grove, Marvin H.; and Kim, Kee W., to M & J Valve Company and M & J Development Company. Valve construction and method. 3,746,303, 7-17-73, Cl. 251-159.000.
Grove, Marvin H.; and Karr, Michael A., Jr., to M & J Valve Company. Valve construction. 3,752,178, 8-14-73, Cl. 137-246.220.

Grove, Marvin H.; Kim, Kee W.; and Van Arsdale, Lyle R., to M & J Valve Company. Valve construction. 3,765,440, 10-16-73, Cl. 137-246.220.
Grove, Marvin H.; and Kim, Kee W., to M & J Valve Company and M & J Development Company. Valve construction and method. 3,765,647, 10-16-73, Cl. 251-317.000.
Grove, Marvin H.; and Griffin, Tommy K., to M & J Valve Company. Meter prover apparatus and method. 3,777,545, 12-11-73, Cl. 73-3.000.
Grove, Robert K.; and Sloma, Richard O., to Lockheed Aircraft Corporation. Strength compounding capillary array. 3,720,044, 3-13-73, Cl. 53-159.000.
Grove Valve and Regulator Company: *See—*
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Grovenburg, William W.; and Gatliff, Robert R., to United States of America, Atomic Energy Commission. Big hole drilling bit. 3,762,486, 10-2-73, Cl. 175-313.000.
Grover, Douglas U., to Glasrock Products, Inc. Laboratory intake filter. 3,744,640, 7-10-73, Cl. 210-463.000.
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Grover, Kenneth M.; Knecht, George B.; and Tully, John J., to Dorr-Oliver Incorporated. Process for extracting copper from sulfide ores. 3,753,691, 8-21-73, Cl. 75-101.00r.
Grover, Lawrence L.: *See—*
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Grover, Phillip C.: *See—*
Grover, Russell C.; and Grover, Phillip C., 3,713,234.
Grover, R. Bruce: *See—*
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Grover, Richard T. Ring seal. 3,770,285, 11-6-73, Cl. 277-165.000.
Grover, Russell C.; and Grover, Phillip C. Transplanter with stress compensating blade guide means. 3,713,234, 1-30-73, Cl. 37-2.00r.
Grover, Scott C.: *See—*
Richens, Kenneth A.; Grover, Scott C.; Allred, James K.; and Shook, James H., 3,708,077.
Grover, Scott C., to Kenway Engineering, Incorporated. Overspeed sensor for safety brake system. 3,740,635, 6-19-73, Cl. 318-382.000.
Groves, Harvey H. Suppository. 3,777,755, 12-11-73, Cl. 128-271.000.
Groves, Ivor D., Jr., to United States of America, Navy. Piezoelectric transducer. 3,781,781, 12-25-73, Cl. 340-9.000.
Groves, James D., to Minnesota Mining and Manufacturing Company. Certain perfluoroalkylsulfonamides. 3,708,537, 1-2-73, Cl. 260-556.00f.
Groves, Kenneth O.: *See—*
Ridenour, Richard E.; and Groves, Kenneth O., 3,762,938.
Groves, Sydney L.; La Branche, Harvey M.; and Cutler, Stanley, to Mattel, Inc. Keyboard assembly for organ. 3,750,522, 8-7-73, Cl. 84-425.000.
Groves, Warren Olley; Herzog, Arno Henry; and Craford, Magnus George, to Monsanto Company. $GaAs_xP_x$ electroluminescent device doped with isoelectronic impurities. 3,725,749, 4-3-73, Cl. 317-234.00r.
Groves, William L., Jr., to Continental Oil Company. Method of removing liquids and small solids from well bores. 3,773,110, 11-20-73, Cl. 166-309.000.
Grow, Bruce W.: *See—*
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Grow Chemical Corporation: *See—*
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Grow, Craig H.: *See—*
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Grow, Harlow B., 1/3 each to Grow, Craig H. and Grow, Bruce W. Internal combustion engine control. 3,749,097, 7-31-73, Cl. 123-106.00r.
Growski, Clarence John: *See—*
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Growth International, Inc.: *See—*
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Growth International Industries Corporation: *See—*
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Grubb, Everett F.; Hammer, Friedrich; and Monks, Joseph R., to Owens-Illinois, Inc. Chemically-strengthened glass-encapsulated glass articles and process therefor. 3,728,095, 4-17-73, Cl. 65-30.000.
Grubb, Fred H., to Sperry Rand Corporation. Insulated article storage unit. 3,762,787, 10-2-73, Cl. 312-214.000.
Grubb, John J.; and Tomei, Keichi, to Hamilton Company. Centrifuge rotor with sample holding means. 3,747,842, 7-24-73, Cl. 233-26.000.
Grubb, John J.; and Tomei, Keichi, to Hamilton Company. Microscope stage. 3,762,798, 10-2-73, Cl. 350-86.000.
Grubb, John J.; and Tomei, Keichi, to Hamilton Company. Disposable pipette. 3,768,978, 10-30-73, Cl. 23-259.000.
Grubb, John J.; and Tomei, Keichi, to Hamilton Company. Portable flow-through dispensing refractometer apparatus. 3,778,165, 12-11-73, Cl. 356-128.000.
Grubb, Larry M., to Thuron Industries, Inc. Low temperature extrudable odor-neutralizing composition. 3,725,311, 4-3-73, Cl. 252-522.000.
Grubb, Willard L.; Turner, Howard E.; and Brazell, James W., to Heath International, Inc. Tractor drawn mower. 3,720,048, 3-13-73, Cl. 56-15.900.
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Grube, William L., to MacLean-Fogg Lock Nut Co. Means and method for controlling tension in a threaded member. 3,728,933, 4-24-73, Cl. 85-61.000.
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Grudus, Gabriel Michael, Jr.; and Gebura, Stanley E., to Interpace Corporation. Poly(diacetone acrylamide) modified calcium carbonate. 3,763,084, 10-2-73, Cl. 260-40.00r.
Grue, John Edward; and Petro, Karl Carmen. Stencil type chalk fabric marker. 3,744,412, 7-10-73, Cl. 101-114.000.
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Grune, Per-Olof; Pucher, Walter; and Sandkvist, Hugo, to Allmanna Svenska Elektriska Aktiebolaget. Control means for pneumatically operated high voltage switching device. 3,715,542, 2-6-73, Cl. 200-148.00r.
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Grunert, Kurt A.; Rehm, Thomas R.; and Paton, Charles R., to Westinghouse Electric Corporation. Electric control device. 3,727,157, 4-10-73, Cl. 335-132.000.
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Gueldner, Richard C.: *See—*
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Guell, Jose Maria Dalmau. Machine for cutting teeth on selector combs for drums and others for knitting machines. 3,730,412, 5-1-73, Cl. 225-103.000.

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Guenther, William Dieter, to Gun Web Limited. Direct drive ball piston compressor. 3,716,310, 2-13-73, Cl. 417-552.000.

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Guequen, Michel Marie Francois, to Camusat Gueguen France. Radio antenna structure. 3,725,946, 4-3-73, Cl. 343-912.000.

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Guerre, Robert P.; and Ruland, Ross R., to Esso Research and Engineering Company. Staged air burner with swirling auxiliary air flow. 3,746,499, 7-17-73, Cl. 431-182.000.
Guerrico, Nicholas. Handle for manual percussion tools. 3,779,296, 12-18-73, Cl. 145-61.00h.
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Guerrini, Gian Paolo; and Falconieri, Remo, to Olivetti, Ing., C., & C., S.p.A. Printing mechanism having a single printing element. 3,770,095, 11-6-73, Cl. 197-18.000.
Guerster, Rene L.; and Leiter, Leigh David, to Ametek Inc. Energy absorbing device. 3,743,267, 7-3-73, Cl. 287-74.000.
Guertin, Clifford D.: *See—*
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Guest, Rex McLean. Boat launching and beaching device. 3,742,534, 7-3-73, Cl. 9-1.00t.
Guest, William H. Asphalt cutting attachment for backhoe bucket. 3,743,358, 7-3-73, Cl. 299-40.000.
Guetersloh, Donald G., to General Motors Corporation. Fuel injection pump. 3,724,972, 4-3-73, Cl. 417-220.000.
Guethle, Clyde A. Tire chain assembly. 3,762,457, 10-2-73, Cl. 152-239.000.
Guetlhuber, Friedrich, to Deggendorfer Werft und Eisenbau G.m.b.H. Cooler construction for circulating controlled amounts of heat carrier from a reaction vessel. 3,760,870, 9-25-73, Cl. 165-35.000.
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Gugler, Victor F. Apparatus for continuously panning dough. 3,739,900, 6-19-73, Cl. 198-19.000.
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Guichard, Claude: *See—*
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Guichard, Jean, to Centre d'Etudes Techniques des Industries de l'Habillement. Device for the displacement and alignment of pieces of flexible material in sheet form. 3,712,612, 1-23-73, Cl. 271-54.000.
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Guichet, Niles F. Dental articulator accessory. 3,708,882, 1-9-73, Cl. 32-32.000.
Guichet, Niles F. Centric relating device. 3,750,289, 8-7-73, Cl. 32-32.000.
Guichet, Niles F. Average articulator. 3,769,708, 11-6-73, Cl. 32-32.000.
Guichet, Niles F. Dental clutch fabrication. 3,778,902, 12-18-73, Cl. 32-20.000.
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Guidet, Pierre. Electromagnetic selector. 3,721,876, 3-20-73, Cl. 318-265.000.
Guidi, Justin J.; and Middleton, Charles F., Jr., to Digital Security Systems, Inc. Currency dispenser. 3,710,976, 1-16-73, Cl. 221-67.000.
Guidi, Vinicio, to Cantiere Navaltecnica, S.p.A. Device for hydrofoil crafts suitable to remove from the beginning the transversal listing moments. 3,710,747, 1-16-73, Cl. 114-66.50h.
Guidi, William R. Portable magnetic tape recorder having electronic error detecting means. 3,714,666, 1-30-73, Cl. 346-74.00m.
Guidi, William R., to Digital Technology Corporation. Portable magnetic tape recorder having means for eliminating switch bounce. 3,747,118, 7-17-73, Cl. 346-74.00m.
Guido, Peter. Credit card and signature verification system. 3,759,179, 9-18-73, Cl. 101-368.000.
Guidosh, Edward F., to Westinghouse Electric Corporation. Electrical contact assembly. 3,780,239, 12-18-73, Cl. 200.011.00b.
Guidotti, Ronald A.; and Kleespies, Ernst K., to United States of America, Interior. Production of niobium and tantalum. 3,775,096, 11-27-73, Cl. 75-84.000.
Guienne, Paul Francois; and Prouhet, Jacques Francois Robert, to Bertin & Cie. Fender device for ships and other boats. 3,773,008. 11-20-73, Cl. 114-219.000.
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Guilbault, George G.; Sanders, Robert G.; and Zimmerman, Robert L., to Mason Research Institute Inc. Method of measuring enzyme reaction rates. 3,741,876, 6-26-73, Cl. 195-103.50r.
Guilbon, Robert S.; and Heaton, James W., to Kennametal Inc. Adjustable dovetail boring bar. 3,765,788, 10-16-73, Cl. 408-181.000.
Guild, Charles L.; and Goodman, Willard B. Expansible mandrel employing leaf springs to bias its sections into its pile entering relationship. 3,779,026, 12-18-73, Cl. 61-53.720.





Guild, Lloyd V., to Scientific Kit Corporation, Inc. Gas flow meter. 3,748,902, 731-73, Cl. 73-194.00r.
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Guillot, Jean Claude; Poignant, Pierre; and De Baselarie de Lesseux, Jacques. Herbicidal composition and method employing thiazole derivatives. 3,754,888, 8-28-73, Cl. 71-90.000.
Guimbal, Jean C. Superposed-strip field winding for rotary electric machines. 3,777,190, 12-4-73, Cl. 310-60.000.
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Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,788, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,789, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,790, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,791, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,792, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,793, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,794, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,795, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,796, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,797, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,798, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,799, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,800, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,801, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,802, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,803, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,804, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,805, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,806, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,807, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,808, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,809, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,810, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,811, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,812, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,813, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,814, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,815, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,816, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,817, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,818, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,819, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,820, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,821, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,822, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,823, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,824, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,825, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,826, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,827, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,828, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,829, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,830, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,831, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,832, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,833, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,834, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,835, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,836, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,837, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,838, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,839, 12-18-73, Cl. 96-1.0pc.
Gundlach, Robert W., to Xerox Corporation. Electrophotographic process employing photoconductive materials of different dynamic ranges. 3,779,840, 12-18-

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Gungle, W. Calvin: *See*—
Waymouth, John F.; Keeffe, William M.; and Gungle, W. Calvin, 3,737,710.
Gungle, Warren C.: *See*—
Bamberg, William I.; Gungle, Warren C.; and Koury, Frederic, 3,761,758.
Gungle, Warren Calvin: *See*—
Olson, Albert W.; Gungle, Warren Calvin; and Waymouth, John F., 3,746,914.
Gunia, Klaus, to Friedr. Remy Nachfolger GmbH. Apparatus for the continuous manufacture of precast reinforced concrete products, particularly slabs and beams. 3,732,052, 5-8-73, Cl. 425-219.000.
Gunji, Naoki: *See*—
Yamagishi, Hidehisa; and Gunji, Naoki, 3,772,165.
Gunkel, Otto, 1/2 to Filterbau, Schenk, Gesellschaft mit beschrankter Haftung. Fruit press. 3,720,159, 3-13-73, Cl. 100-118.000.
Gunkel, Ronald W.: *See*—
Cole, Nancy C.; Gunkel, Ronald W.; and Houck, Clarence W., 3,778,254.
Gunkel, Rudolf: *See*—
Gelhard, Lgon; and Gunkel, Rudolf, 3,776,141.
Gunkel, Walter A. Ultrasonic inspection apparatus. 3,741,003, 6-26-73, Cl. 73-67.700.
Gunkel, Walter A. Ultrasonic inspection system. 3,766,775, 10-23-73, Cl. 73-67.80s.
Gunlock, Theodore. Light gauge for identifying plants that can grow in a particular location. 3,779,651, 12-18-73, Cl. 356-213.000.
Gunn, Damon M. Article sorting apparatus and method. 3,757,942, 9-11-73, Cl. 209-111.500.
Gunn, John B., to International Business Machines Corporation. High DC to low DC voltage converter. 3,708,742, 1-2-73, Cl. 321-15.000.
Gunn, John B.; and Staples, John L., to International Business Machines Corporation. Electronic switching transient detector and method for locating electrical power supply noise sources. 3,753,089, 8-14-73, Cl. 324-52.000.
Gunn, John B., to International Business Machines Corporation. Traveling wave actuated segmented charging electrode for an ink jet printer. 3,769,625, 10-30-73, Cl. 346-1.000.
Gunn, Kenneth C.; McDonagh, Stephen M.; and Rosenholm, Robert. Gas fusing sensing device. 3,720,797, 3-13-73, Cl. 200-61.080.
Gunn, Lawrence G.: *See*—
Kennedy, William D., Jr.; and Gunn, Lawrence G., 3,745,911.
Gunn, William G., to Bangor Punta Operations, Inc. Cartridge loading and extractor assembly for revolvers. 3,755,950, 9-4-73, Cl. 42-68.000.
Gunn, William J., to United States Steel Corporation. Method and apparatus for cold working seamless tubes. 3,738,146, 6-12-73, Cl. 72-283.000.
Gunnarson, William A.: *See*—
Taylor, Hugh C.; and Gunnarson, William A., 3,727,228.
Gunnell, Geoffrey Herbert Arthur; and Shaw, Frank Derek, to English Electric Company, Limited, The. Tire and brake test device. 3,722,269, 3-27-73, Cl. 73-146.000.
Gunnell, Thomas J., to Phillips Petroleum Company. Carbon black production. 3,755,544, 8-28-73, Cl. 423-456.000.
Gunnergaard, Marius, to Dansk Industri Syndikat A/S. Machine for producing moulds consisting of identical mould parts that are lined up against each other. 3,744,551, 7-10-73, Cl. 164-183.000.
Gunnerman, Robert J.: *See*—
Hartzell, George W.; and Gunnerman, Robert J., 3,716,084.
Hartzell, George W.; and Gunnerman, Robert J., 3,747,455.
Gunnewig, Paul: *See*—
Kuipers, Egbert; Gunnewig, Paul; and Menz, Horst, 3,710,290.
Gunnill, Edward F.: *See*—
Lorenzi, Silvio J.; Dodds, Robert M.; and Gunnill, Edward F., 3,748,794.
Gunning, Samuel D., to Kent Air Tool Co. Reciprocating air hammer. 3,739,862, 6-19-73, Cl. 173-16.000.
Gunning, Samuel D., to Kent Air Tool Co. Air hammer and combined support and muffler therefor. 3,757,875, 9-11-73, Cl. 173-44.000.
Gunning, William F.: *See*—
Black, Millard G.; Nater, Robert A.; Rolston, Charles E.; Roberts, William H.; Hoover, Edward D.; Gunning, William F.; and King, Robert P., 3,767,901.
Gunsher, Jeffrey A.: *See*—
Exner, Jurgen H.; Larsen, Eric R.; and Gunsher, Jeffrey A., 3,779,984.
Gunsher, Jeffrey A., to Dow Chemical Company, The. Polyphosphorus esters. 3,761,543, 9-25-73, Cl. 260-929.000.
Gunson, Sam; Heyes, Alan; and Sale, Anthony John Hanson, to Lever Brothers Company. Process for making a dehydrated meat product. 3,759,723, 9-18-73, Cl. 99-208.000.
Gunson's Colorplugs Limited: *See*—
Swithenbank, Joshua; Taylor, David Shaw; and Bulion, Michael Stuart, 3,754,139.
Gunson's Sortex Limited: *See*—
Chapman, Thomas Henry, 3,710,099.
Rayment, Arthur George, 3,751,001.
Gunsser, Peter: *See*—
Kiess, Albert; Gunsser, Peter; and Kuhn, Edgar, 3,712,283.
Gunten, Adeline Von; and Schwarzkopf, Gabriel, to Fotostudio Von Gunten & Senn. Multiple flash bulb device. 3,714,408, 1-30-73, Cl. 240-1.300.
Gunter, Colie Walton: *See*—
O'Neal, James Everett; Gunter, Josef Karl; and Gunter, Colie Walton, 3,737,952.
Gunter, Gehrke: *See*—
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Gunter, Gehrke; Hederich, Volker; Harms, Wolfgang; and Wagner, Peter, to Bayer Aktiengesellschaft. Antraquinone dyestuffs. 3,723,480, 3-27-73, Cl. 260-373.000.
Gunter, Josef Karl: *See*—
O'Neal, James Everett; Gunter, Josef Karl; and Gunter, Colie Walton, 3,737,952.
Gunter, Kenneth H. Canopy frame for bed. 3,741,225, 6-26-73, Cl. 135-5.200.
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Guntersdorfer, Max: *See*—
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Heywang, Walter; and Guntersdorfer, Max, 3,747,326.
Guntersdorfer, Max; and Heywang, Walter, to Siemens Aktiengesellschaft. Apparatus for atomizing fluids with a piezoelectrically stimulated oscillator system. 3,738,574, 6-12-73, Cl. 239-102.000.
Guntersdorfer, Max; and Heywang, Walter, to Siemens Aktiengesellschaft. Piezoelectric motor. 3,748,504, 7-24-73, Cl. 310-8.200.
Guntersdorfer, Max, to Siemens Aktiengesellschaft. Method of making barrier-free semiconductor switching device. 3,754,320, 8-28-73, Cl. 29-576.000.
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Guntert, Ronald M. Method and apparatus for excavating with an endless bucket line. 3,766,671, 10-23-73, Cl. 37-69.000.
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Gunther, Gregory M.: *See*—
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Gunther, Klaus; Schneck, Erich; Voigt, Hartmut; and Wesselborg, Karlheinrich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the separation of impurities from crude gas. 3,710,545, 1-16-73, Cl. 55-29.000.
Gunther, Peter: *See*—
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Gunther, Warren T.: *See*—
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Gunther, Wolfgan H. H., to Xerox Corporation. Electrophotographic uses of selenium containing polymers. 3,758,301, 9-11-73, Cl. 96-1.500.
Gunther, Wolfgang H. H. Chalcogen organic compounds used in electrophotographic plates and processes. 3,738,831, 6-12-73, Cl. 96-1.500.
Guntner, Corinne Siebelt: *See*—



Siebelt, Raymond J., 3,726,188.
Gunto, Robert L.; and Staley, Merton R., to Addressograph-Multigraph Corporation. Means and methods for exposing photoelectrostatic materials. 3,729,257, 4-24-73, Cl. 355-67.000.
Gunyou, Iyman J.; and List, David W., to Avco Corporation. Corn harvester with improved ear distribution. 3,772,861, 11-20-73, Cl. 56-14.200.
Gunyou, Lyman J.: *See*—
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Gunzel, Ernst Werner. Ski with adjustable device. 3,747,947, 7-24-73, Cl. 280-11.13f.
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Gupta, Kashmiri L., to Du Pont de Nemours, E. I., and Company. Autoclave pressure control system. 3,761,230, 9-25-73, Cl. 23-290.000.
Gupta, Monoj K.; and James, William M., to Procter & Gamble Company, The. Culinary mix for the preparation of baked goods with improved milk chocolate flavor. 3,733,209, 5-15-73, Cl. 99-94.000.
Gupta, Suresh K.: *See*—
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Gupta, Virendra N., to Canadian International Paper Company. Bleaching of mechanical pulps with hydrosulfite in the presence of an alkali metal silicate. 3,709,779, 1-9-73, Cl. 162-71.000.
Gupta, Virendra N.; and Lafond, Renald L., to Canadian International Paper Company. Flameproofing of cellulose. 3,734,683, 5-22-73, Cl. 8-116.00r.
Guptill, Frank E., Jr.: *See*—
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Guptill, Joel P.; and Foley, Gary W., to Allied Chemical Corporation. Removal of mercury from caustic solutions. 3,764,495, 10-9-73, Cl. 204-99.000.
Guralnick, Sidney A., to Traveling Nut Corporation. Motion transmitting device. 3,745,840, 7-17-73, Cl. 74-89.150.
Gurchot, Charles: *See*—
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Gurevich, Yakov Adolfovich: *See*—
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Gurien, Harvey; and Rachlin, Albert Israel, to Hoffmann-La Roche Inc. Process for the preparation of pyrocatechols. 3,764,629, 10-9-73, Cl. 260-621.00r.
Gurin, Fedor Vasilievich: *See*—
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Gurley, Grey Manning, to AMP Incorporated. Electrical connecting device for insulated wires. 3,760,331, 9-18-73, Cl. 339-36.000.
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Gurney, Chester T.; and Gatti, Arnold P., to Motor Wheel Corporation. Sealed combustion forced air furnace. 3,724,442, 4-3-73, Cl. 126-85.00b.
Gurney, John A.: *See*—
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Guth, Lauren W., to General Electric Company. Dish-washing machine rack adjustment assembly. 3,761,153, 9-25-73, Cl. 312-351.000.

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Guyot, Raymond, to Fiverel, Societe Civile d'Etudes et de Recherches. Glass reinforcement cords. 3,772,871, 11-20-73, Cl. 57-140.00g.
Guyton, Glen B. Lever for brake and clutch operation on cycle handlebars. 3,720,111, 3-13-73, Cl. 74-489.000.
Guyton, Hayward T.: *See*—
Hazelhurst, Gerald D.; Fussell, Don L.; and Guyton, Hayward T., 3,739,330.
Guyton, William V., to Sol-Tek Industries, Inc. Power supply system for heavy traction loads. 3,746,964, 7-17-73, Cl. 321-5.000.
Guzak, John, Jr., to SCM Corporation. Electronic tabulation control system for recorder. 3,749,223, 7-31-73, Cl. 197-176.000.
Guzay, Casimer M. Carbon dioxide absorber apparatus. 3,707,965, 1-2-73, Cl. 128-191.00r.
Guzdar, Adi R.; and Harvey, Andrew C., to Foster-Miller Associates. Radiant heater. 3,763,847, 10-9-73, Cl. 126-92.00b.
Guzick, Lawrence L. Orifice and filter assembly. 3,715,870, 2-13-73, Cl. 55-466.000.
Guzik, Rudolph P.: *See*—
Savit, Joseph; Guzik, Rudolph P.; Wayne, Harry A.; Saklikar, Arvind R.; and Van Eck, Jack M., 3,744,452.
Guzy, Darrel James: *See*—
Applequist, James E.; Johnson, James E.; Akers, Clifford B.; Daniels, Donald V.; James, Richard N.; Roberts, Daniel M.; and Guzy, Darrel James, 3,768,714.
Guzynin, Ivan Georgievich: *See*—
Levina, Tatyana Abramovna; Serkh, Mikhail Borisovich; and Guzynin, Ivan Georgievich, 3,780,564.
G.W.B. Boilers Limited: *See*—
Williams, Robert Spencer, 3,756,201.
Gwilliam, Ralph Derek, to English Clays Lovering Pochin & Company Limited. Tube pressure filters. 3,712,209, 1-23-73, Cl. 100-112.000.
Gwilliam, Ralph Derek, to English Clays Lovering Pochin & Company Limited. Tube pressure filters. 3,713,382, 1-30-73, Cl. 100-112.000.
Gwilliam, Ralph Derek, to English Clays Lovering Pochin & Company Limited. Tube pressure filters. 3,724,663, 4-3-73, Cl. 210-85.000.
Gwilliam, Ralph Derek, to English Clays Lovering Pochin & Company Limited. Tube pressure filters. 3,753,498, 8-21-73, Cl. 210-350.000.
Gwilliam, Ralph Derek, to English Clays Lovering Pochin & Company Limited. Tube pressure filters. 3,753,499, 8-21-73, Cl. 210-350.000.
Gwilliam, Ralph Derek, to English Clays Lovering Pochin & Company Limited. Drying of particulate materials. 3,756,142, 9-4-73, Cl. 100-37.000.
Gwilliam, Ralph Derek, to English Clays Lovering Pochin & Company Limited. Tube pressure filters. 3,762,560, 10-2-73, Cl. 210-350.000.
Gwilliam, Willard E.; Buchman, Carl S.; and Hall, Robert, to Universal Prestressed Concrete Co., Inc. Prefabricated exterior wall unit. 3,732,650, 5-15-73, Cl. 52-221.000.
Gwin, Richard B.; Ballis, William L.; Churchheus, Claude W.; Hutt, Bruce L.; Chew, Charles R.; and Hall, Arthur M., to Columbia Gas System Service Corporation. Lineup clamp and backup device. 3,741,457, 6-26-73, Cl. 228-44.000.
Gwin, Richard B.; Ballis, William L.; Churchheus, Claude W.; and Hutt, Bruce L., to Columbia Gas System Service Corporation. Electric welding torch oscillator and guide. 3,748,433, 7-24-73, Cl. 219-125.00r.
Gwin, Richard B.; Ballis, William L.; Churchheus, Claude W.; and Hutt, Bruce L. Welding torch oscillator. 3,777,101, 12-4-73, Cl. 219-60.00a.
Gwinn, David A.: *See*—
Golahny, Yehuda; and Gwinn, David A., 3,771,050.
Gwinn, Ralph: *See*—
Bell, Clarence A.; Gwinn, Ralph; Jennison, Rolland N.; Jones, Bryon; and Strauss, Philip W., 3,759,049.
Gwinner, Dietrich: *See*—
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Gwozdz, Joseph W., to McKinney Manufacturing Company, mesne. Hinge with radial and thrust bearings. 3,725,973, 4-10-73, Cl. 16-136.000.
Gwyn, Childress B., Jr., to Contacts Incorporated. Method for making cold bonded electrical composite contacts. 3,737,999, 6-12-73, Cl. 29-630.000.
Gygli, Walter; and Hanni, Eduard, to Hammerle AG. Press having means to prevent skewing movement of the ram. 3,768,400, 10-30-73, Cl. 100-258.00r.
Gylland, Ernest F., Jr.: *See*—
Conley, Thomas F.; and Gylland, Ernest F., Jr., 3,775,995.
Gylys, Jonas A.: *See*—
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Gym-Dandy, Inc.: *See*—
Carlin, Edward T.; and White, Bobby L., 3,724,078.
Gynn, George E., to Syncro Corporation. Voltage and frequency responsive regulating circuit for a PM generator. 3,745,442, 7-10-73, Cl. 322-24.000.
Gyogyszerkutato Intezet: *See*—
Kasztreiner, Endre; Vargha, Laszlo; Huszti, Zsuzsanna; Borsi, Jozsef; Szilagyi, Geza; Szakaly, Judit; Elek, Sandor; and Polgari, Istvan, 3,758,546.
Gyongyos, Ivan, to Prolizenz A.G. Electric circuit for starting a casting machine having an endless mold. 3,744,545, 7-10-73, Cl. 164-4.000.
Gyongyos, Ivan; and Barzettes, Les, to Prolizenz AG. Machine with articulated mold sets for continuous casting of non-ferrous metals. 3,747,666, 7-24-73, Cl. 164-279.000.
Gyongyos, Ivan, to Prolizenz AG. Method of starting a casting machine having caterpillar-type molds for casting nonferrous metal strips. 3,759,313, 9-18-73, Cl. 164-87.000.
Gyongyos, Ivan. Continuous casting machine with storing through on tiltable frame. 3,763,922, 10-9-73, Cl. 164-279.000.
Gyongyos, Ivan, to Prolizenz AG. Caterpillar-type mold with nozzle having self-lubricating insert means. 3,774,670, 11-27-73, Cl. 164-279.000.
Gyongyosi, Laszlo. Automatic feed control system. 3,734,202, 5-22-73, Cl. 173-4.000.
Gyorgy, Paul. Stabilized edible oil and fat compositions containing oil of tempeh. 3,762,933, 10-2-73, Cl. 99-163.000.
Gyozo Teriu: *See*—
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Gysin, Leonard: *See*—
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Gysin, Leonhard: *See*—
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Schindler, Walter, 3,726,897.
Schindler, Walter, 3,773,940.
Gysling, Henry J.: *See*—
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Gyurech, Gabor, to Sulzer Brothers Limited. Turbo-compressor having means for drawing in working medium at low temperature. 3,758,226, 9-11-73, Cl. 415-104.000.
Gyurk, Warren Joseph: *See*—
Stetson, Harold Wilbur; and Gyurk, Warren Joseph, 3,780,150.
H & G Industries, Inc.: *See*—
Kaplan, Ronald M., 3,733,638.
H & M Enterprises: *See*—
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H & W Company, The: *See*—
Holden, Harold; and Weichert, Arnold, 3,772,019.
H B Engineering Corporation: *See*—
Baker, Hugh M., Jr.; and Genter, Roland E., 3,742,454.
H. G. Enterprises: *See*—
Nelkin, Henry G., 3,754,549.
H. N. Industries Inc.: *See*—
Zirlis, Joseph V., 3,780,867.
H. R. Electronics Company: *See*—
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H-C Industries, Incorporated: *See*—
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H-2-O Filter Corporation, The: *See*—
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Ha, In W.: *See*—
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Ha, In W.; Hollstein, Carl P., Jr.; and Ruble, Frank D., to Information Storage Systems, Inc. Memory disc pack drive having accurate read/write head positioning. 3,742,470, 6-26-73, Cl. 340-174.00b.
Haack, Paul: *See*—
Maier, Eberhard; Endler, Walter; and Haack, Paul, 3,770,217.
Haack, Wolf-Dieter, to Schering A.G. Aqueous bath for chemical deposition of ductile copper coatings. 3,758,314, 9-11-73, Cl. 106-1.000.
Haaf, William R., to General Electric Company. Composition of polyorganosiloxane and polyphenylene oxide. 3,737,479, 6-5-73, Cl. 260-824.00r.
Haag, Arthur P.; and Weiner, Meyer, to Dart Industries, Inc. Process for producing activated titanium trichloride-aluminum trichloride. 3,769,234, 10-30-73, Cl. 252-442.000.
Haag, Arthur P.; and Weiner, Meyer, to Dart Industries Inc. Process for producing titanium trichloride-aluminum trichloride in controlled proportions. 3,770,656, 11-6-73, Cl. 252-442.000.
Haag, Arthur P., to Dart Industries Inc. Removal of titanium tetrachloride from titanium trichloride-aluminum trichloride. 3,770,657, 11-6-73, Cl. 252-442.000.
Haag, Georg: *See*—
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Haag, Herman: *See*—
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Haag, Jurgen: *See*—
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Haag, Robert; Haupt, Albert; and Mayer, Siegfried, to Bosch, Robert, G.m.b.H. Cast reinforced housing and method of making the same. 3,745,854, 7-17-73, Cl. 74-606.00r.
Haag-Streit AG: *See*—
Papritz, Franz, 3,762,803.
Haagensen, Darrow E.: *See*—
Trudeau, Arthur G.; and Haagensen, Darrow E., 3,732,427.
Haagensen, Duane B., to Matsushita Electric Industrial Co., Ltd. Microwave oven interpose system for control of environmental radiation. 3,748,423, 7-24-73, Cl. 219-10.550.
Haak, Fred C.: *See*—
Bain, George W.; and Haak, Fred C., 3,718,836.
Haak, Williard J.; and Marsden, Howard A., to Caterpillar Tractor Company. Pressure and/or flow compensating means. 3,713,295, 1-30-73, Cl. 60-452.000.
Haake, P. William. Orthopedic suspension. 3,771,519, 11-13-73, Cl. 128-94.000.
Haake, Robert; and Ponzi, Joseph J., to Bell & Howell Company. Cassette tray control mechanism. 3,708,176, 1-2-73, Cl. 274-4.00f.
Haake, Robert, to Bell & Howell Company. Tape recorder with cassette changer. 3,722,892, 3-27-73, Cl. 274-4.00f.
Haamann, Josef, Freudenberger Winden- und Hebezeugfabrik: *See*—
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Wenzel, Jorg; and Rieschell, Hans, 3,759,409.
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Haans, Petrus Franciscus A.; and Strik, Petrus Johannes Antonius, to U.S. Philips Corporation. Gas discharge laser. 3,768,034, 10-23-73, Cl. 331-94.50d.
Haans, Petrus Franciscus Antonius: *See*—
Bouwhuis, Gijsbertus; Haans, Petrus Franciscus Antonius; and Peck, Theodorus Hendrikus, 3,735,281.
Haapala, Ray. Cutting gauge for cakes. 3,727,508, 4-17-73, Cl. 83-859.000.
Haapala, Ray. Garland marker. 3,754,334, 8-28-73, Cl. 33-174.00t.
Haarhaus, John J.; and McEvilly, Richard J., 10% to Halpern, Joel. Relating to direct reading calculators. 3,710,108, 1-9-73, Cl. 235-79.000.
Haarmann & Reimer Gesellschaft mit beschrankter Haftung: *See*—
Exner, Fritz; and Leidig, Theodor, 3,709,929.
Haas, Arthur W., to McGraw-Edison Company. Hood style dishwasher. 3,720,215, 3-13-73, Cl. 134-165.000.
Haas, Charles B.; Taylor, Richard E.; Crockett, David E.; Miller, James F.; Paul, Howard R.; and Reid, Charles J., to United States of America, Navy. Missile launching canister. 3,769,876, 11-6-73, Cl. 89-1.800.
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Theisen, Dieter; Haas, Friedrich; and Beck, Manfred, 3,732,338.
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Haas, Gerhard J., to General Foods Corporation. Acid stabilization of meat based foods. 3,743,519, 7-3-73, Cl. 99-159.000.
Haas, Gunter, to Kalle Aktiengesellschaft. Process and apparatus for increasing the charge density of insulators. 3,739,246, 6-12-73, Cl. 317-262.00a.
Haas, Helmut: *See*—
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Haas, Helmut; and Siedler, Helmut, to Klockner-Humboldt-Deutz Aktiengesellschaft. Method and arrangement for performing low-temperature grinding operations in a vibrating mill. 3,734,412, 5-22-73, Cl. 241-15.000.
Haas, Herbert: *See*—
Munk, Edmund; Haas, Herbert; and Weinberg, Gerd, 3,726,954.
Haas, Howard C., to Polaroid Corporation. Novel photographic processes and products. 3,729,314, 4-24-73, Cl. 96-29.00d.
Haas, Howard C., to Polaroid Corporation. Silver halide emulsion containing a non-migratory hardener. 3,762,927, 10-2-73, Cl. 96-111.000.
Haas, Jan Tomas: *See*—
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Haas, Joerg Philipp, to Bruker-Physik AG. Apparatus for adjusting magnet cores. 3,781,735, 12-25-73, Cl. 335-298.000.
Haas, John I., Inc.: *See*—
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Haas, Kenneth C.: *See*—
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Haas Lee C.; Larsen, Larry D.; and West, Lynn P., to International Business Machines Corporation. Communication system polling method. 3,755,782, 8-28-73, Cl. 340-147.00r.
Haas, Paul A.: *See*—
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Haas, Paul A., to United States of America, Atomic Energy Commission. Conversion of fuel-metal nitrate solutions to oxides. 3,725,293, 4-3-73, Cl. 252-301.10r.
Haas, Paul J., to Singer Company, The. Driving disc for toothed yarn controller ring. 3,739,602, 6-19-73, Cl. 66-95.000.
Haas, Richard G.: *See*—
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Haas, Rudy M. Chemical tracer method of and structure for determination of instantaneous and total fluid flow mass and volume. 3,727,048, 4-10-73, Cl. 250-43.5mr.
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Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,751, 12-18-73, Cl. 96-1.00c.



Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,752, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,753, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,754, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,755, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,756, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,757, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,758, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,759, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,760, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,761, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,762, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,763, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,764, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,765, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,766, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,767, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,768, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,769, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,770, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,771, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,772, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,773, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,774, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,775, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,776, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,777, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,778, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,779, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,780, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,781, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,782, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,783, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,784, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,785, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,786, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,787, 12-18-73, Cl. 96-1.00c.
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Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,789, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,790, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,791, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,792, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,793, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,794, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,795, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,796, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,797, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,798, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,799, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,800, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,801, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,802, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,803, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,804, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,805, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,806, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,807, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,808, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,809, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,810, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,811, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,812, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,813, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,814, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,815, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,816, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,817, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,818, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,819, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,820, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,821, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,822, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,823, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,779,824, 12-18-73, Cl. 96-1.00c.
Haas, Werner E. L.; Flannery, John B., Jr.; Mechlowitz, Bela; and Adams, James E., to Xerox Corporation. Liquid crystalline compositions. 3,

Haase, Elmer A.; and Kirwin, James M., to Bendix Corporation, The. Diaphragm type fluid seal. 3,707,985, 1-2-73, Cl. 137-495.000.

Haase, Gordon W., to Taussig, Frederick. Process of filtration of dry cleaning fluid. 3,733,267, 5-15-73, Cl. 210-27.000.

Haase, Gunter; and Schopper, Erwin; to Agfa-Gevaert Aktiengesellschaft. Solid particle-track detectors silver chloride monocrystal doped with cadmium and low concentration of lead. 3,709,692, 1-9-73, Cl. 96-108.000.

Haase, Gunter; and Schopper, Erwin, to Agfa-Gevaert Aktiengesellschaft. Silver halide monocrystal particle-tract detectors doped with manganese. 3,718,606, 2-27-73, Cl. 252-408.000.

Haase, Robert: *See—*
Adler, Ralph W.; Goldstein, Albert; and Haase, Robert, 3,749,027.

Haase, Robert L., to Aero Wash Systems, Inc. Pressure wash control system. 3,756,466, 9-4-73, Cl. 222-63.000.

Haase, Robert L., to Aero Wash Systems, Inc. Pressure wash control system. 3,760,982, 9-25-73, Cl. 222-63.000.

Haaser, Walter L. Photographic developing tray. 3,738,251, 6-12-73, Cl. 95-95.000.

Haass, Guenther; and Reinhardt, Dieter, to Siemens Aktiengesellschaft. Circuit arrangement for interference-free recognition of the zero crossings of sine-like signals. 3,716,799, 2-13-73, Cl. 328-150.000.

Haban, Joseph. Shear fingers for sickle bars. 3,716,978, 2-20-73, Cl. 56-310.000.

Habanec, Charles E., to Moser Paper Company. Blank cutting machine. 3,779,118, 12-18-73, Cl. 83-437.000.

Habas, Ted C., to General Motors Corporation. Vehicle body compartment panel mounting arrangement. 3,754,614, 8-28-73, Cl. 180-69.00c.

Habdas, Edward P.: *See—*
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Habeck, Dietmar A.: *See—*
Galantay, Eugene E.; and Habeck, Dietmar A., 3,719,670.

Habecker, John W., to Cherry Electrical Products Corporation. Encapsulated magnetic proximity switch. 3,711,799, 1-16-73, Cl. 335-188.000.

Habecker, John W., to Cherry Electrical Products Corporation. Alternate-action switch actuator with pawl stop plate also providing a guide for stroke-control means. 3,770,923, 11-6-73, Cl. 200-153.00j.

Habegger, Millard A.; and Sincerbox, Glenn T., to International Business Machines Corporation. Method and apparatus for large object interference pattern recording. 3,729,249, 4-24-73, Cl. 350-3.500.

Haber, Raphael G.; and Schoenberger, Eva, to Abic Ltd. Water-soluble composition comprising sulfadimidine and pyrimethamine. 3,728,452, 4-17-73, Cl. 424-229.000.

Haberkorn, Axel: *See—*
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Haberkorn, Erich J., to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Jet-controlled aircraft with trim and control fins. 3,730,458, 5-1-73, Cl. 244-43.000.

Haberland, Detlef; and Schuocker, Dieter, to Siemens Aktiengesellschaft. Electronic switch. 3,774,084, 11-20-73, Cl. 317-234.00r.

Haberland, Ulrich; Lenz, Gunther; Schell, Hermann; and Weirauch, Kurt, to Bayer Aktiengesellschaft. Flameproof high molecular aromatic polyester-carbonates. 3,729,447, 4-24-73, Cl. 260-47.0xa.

Haberle, Karl-Heinz: *See—*
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Haberlin, Hans Paul, to Wheelabrator Corporation, The, mesne. Centrifugal blasting wheel and blade latching means. 3,745,711, 7-17-73, Cl. 51-9.000.

Haberman, Norton: *See—*
Triggiani, Leonard V.; Haberman, Norton; and Sanchez, Moises G., 3,708,432.

Habermann, Clarence E.; and Tefertiller, Ben A., to Dow Chemical Company, The. Hydration of nitriles to amides using cupreous catalysts. 3,758,578, 9-11-73, Cl. 260-561.00n.

Habermann, Clarence E.; and Tefertiller, Ben A., to Dow Chemical Company, The. Hydration of aliphatic nitriles to amides using copper metal catalysts. 3,767,706, 10-23-73, Cl. 260-561.00n.

Habermann, Dietger: *See—*
Tillessen, Ulrich; Engel, Karl-Heinz; Pirk, Hans; Hackstein, Karl-Gerhard; and Habermann, Dietger, 3,756,786.

Habermann, Helmet. Magnetic bearing block device for supporting a vertical shaft adapted for rotating at high speed. 3,731,984, 5-8-73, Cl. 308-10.000.

Habermann, Rudi. Welded cable pulley. 3,776,059, 12-4-73, Cl. 74-230.500.

Habermeier, Juergen: *See—*
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Batzer, Hans; Habermeier, Juergen; and Porret, Daniel, 3,772,326.
Porret, Daniel; and Habermeier, Juergen, 3,725,342.
Porret, Daniel; Habermeier, Juergen; and Batzer, Hans, 3,779,949.
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Habermeier, Juergen; Batzer, Hans; and Porrtt, Daniel, to Ciba-Geigy Limited. Diglycidyl derivatives of compounds containing two N-heterocyclic rings. 3,726,895, 4-10-73, Cl. 260-309.500.

Habermeier, Juergen; Batzer, Hans; and Porret, Daniel, to Ciba-Geigy AG. Epoxy resin mixtures containing heterocyclic systems. 3,733,282, 5-15-73, Cl. 260-830.0tw.

Habermeier, Juergen; and Porret, Daniel, to Ciba-Geigy AG. Polyisocyanates containing hydantoin groups. 3,775,427, 11-27-73, Cl. 260-309.500.

Habermeier, Juergen; and Porret, Daniel. Binuclear N-heterocyclic polyglycidyl compounds. 3,778,439, 12-11-73, Cl. 260-256.40c.

Haberrecker, Klaus, to Siemens Aktiengesellschaft. X-ray tube with rotary anodes. 3,731,128, 5-1-73, Cl. 313-60.000.

Habers, Wihelmus, to Shell Oil Company. Atomizer for liquid fuel. 3,747,860, 7-24-73, Cl. 239-431.000.

Habersberger, Francis, to Marine Colloids, Inc. Algin salt-mannogalac-tan gum containing aqueous cosmetic lotion. 3,764,707, 10-9-73, Cl. 424-361.000.

Haberski, Richard Joseph, to Curtiss-Wright Corporation. Lightweight panel structure of the honeycomb core type. 3,739,843, 6-19-73, Cl. 165-170.000.

Haberski, Richard Joseph, to Curtiss-Wright Corporation. Plate type heat exchanger. 3,741,293, 6-26-73, Cl. 165-166.000.

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Habert, Roger. Fastening member. 3,779,659, 12-18-73, Cl. 403-372.000.

Habert, Roger Jean, to Ducellier & Cie. Rotor assembly for use in a dynamo electric machine. 3,714,484, 1-30-73, Cl. 310-263.000.

Habert, William C., to Uniroyal, Inc. Cut-to-length apparatus for bias-cut tire belt ply material. 3,732,767, 5-15-73, Cl. 83-171.000.

Haberthier, Wilbert L. Boat trailers. 3,717,356, 2-20-73, Cl. 280-414.00r.

Habgood, Robert P., Jr., to Plexowood, Inc. Palletizable articles. 3,709,326, 1-9-73, Cl. 206-65.00r.

Habib, Emile E., to Decring Milliken Research Corporation. Synthetic suede fabrics. 3,776,753, 12-4-73, Cl. 117-11.000.

Habicht, Ernst: *See—*
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Habicht, Ernst; Libis, Bernard; and Zergenyi, Janos, to Ciba-Geigy Corporation. Derivatives of 2,3-dihydro-benzothiophene and benzofuran-2-carboxylic acids. 3,709,909, 1-9-73, Cl. 260-330.500.

Habicht, Ernst; Libis, Bernard; and Zergenyi, Janos, to Ciba-Geigy Corporation. 2,3-Dihydro-5-(2-nitro-1-alkenyl)-benzofuran-2-carboxylic acid and pharmaceutically acceptable salts. 3,726,904, 4-10-73, Cl. 260-346.20r.

Habicht, Ernst; and Libis, Bernard, to Ciba-Geigy Corporation. 2,3 Dihydro-5-(2-methylene-alkanoyl-benzofuran-1-carboxylic acid alkyl and cycloalkyl esters. 3,751,436, 8-7-73, Cl. 260-346.20r.

Habiger, Cyril W.; Hopkins, Donald L.; Johnson, Gordon W.; Norick, William B.; Van Zandt, Rollin P.; and Winters, Frank H., to Caterpillar Tractor Company. Underspeed valve hydrostatic control system. 3,727,628, 4-17-73, Cl. 137-101.000.

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Habisohn, Victor J., to Reliamatic, Inc. Slow start-stop motor control system. 3,716,770, 2-13-73, Cl. 318-259.000.

Hableb, Karlem A.; and White, Jerry L., to Ford Motor Company. High temperature insulation. 3,770,557, 11-6-73, Cl. 161-54.000.

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Habock, Adolf; and Fork, Kurt, to Siemens Aktiengesellschaft. Start-up converter. 3,764,815, 10-9-73, Cl. 290-52.000.

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Haboush, Edward J. Prosthesis for hip joints. 3,740,769, 6-26-73, Cl. 3-1.000.

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Habu, Teiji; Yoshida, Kyusaku; Hirao, Yotaro; and Takahashi, Kazuo. Antistatic composition. 3,743,608, 7-3-73, Cl. 252-500.000.

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Hach, Clifford C., to Hach Chemical Company. Weight loss spring balance. 3,718,198, 2-27-73, Cl. 177-232.000.

Hach, Clifford C., to Hach Chemical Company. Method of making comparator color wheels. 3,764,646, 10-9-73, Cl. 264-162.000.

Hach, Clifford C., to Hach Chemical Company. Automatic analyzer. 3,773,423, 11-20-73, Cl. 356-181.000.

Hach, Vladimir; Lockhart, Robert William; and Cartlidge, Dennis Murray, to MacMillan Bloedel Limited. Process for the isolation of d-isothujone. 3,709,943, 1-9-73, Cl. 260-587.000.

Hachenburg, Victor, to Bell Telephone Laboratories, Incorporated. Minimum delay data transfer arrangement. 3,716,728, 2-13-73, Cl. 307-291.000.

Hachiya, Takeo; Naganuma, Susumu; and Umino, Tomotaka, to Hitachi, Ltd. Francis runner and method for manufacture thereof. 3,764,231, 10-9-73, Cl. 416-186.000.

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Hackenberg, Hubert; Putscher, Johann; and Spinnler, Rainer, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with deformable release means. 3,768,388, 10-30-73, Cl. 95-31.00r.

Hackenberg, Hubert; Spinnler, Rainer; and Karl, Horst, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus. 3,769,891, 11-6-73, Cl. 95-31.0ac.

Hackenberg, Robert A., to Robertson Paper Box Company, Inc. Display carton and blank forming same. 3,777,883, 12-11-73, Cl. 206-45.310.

Hacker, Harold R. Vibratory straight line feeder. 3,729,090, 4-24-73, Cl. 198-220.0cb.

Hacker, Leon, to Armco Steel Corporation. Filling an annular space between radially space coaxial tubes with foamed cement. 3,737,493, 6-5-73, Cl. 264-42.000.

Hacker, Robert W.; and McCoy, Wyn E., to Timken Company, The. Temperature and shape control system for rolling mill rolls. 3,740,982, 6-26-73, Cl. 72-13.000.

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Hackett, Richard L. Rudder construction for sailboats. 3,752,105, 8-14-73, Cl. 114-162.000.

Hackett, Richard L. Centerboard for sailboats. 3,756,182, 9-4-73, Cl. 114-132.000.

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Hackman, Kenneth V., to Southwest Products Co. Mechanical transmission device. 3,771,384, 11-13-73, Cl. 74-505.000.

Hackman, Lloyd E.; and Mobley, Carroll E., to Ribbon Technology Corporation. Method of making metal fiber reinforced metal matrix products. 3,734,762, 5-22-73, Cl. 117-37.00r.

Hackmann, Johannes Thomas; and Kuipers, Johannes, to U.S. Philips Corporation. Methods of controlling nematodes and fungi using 3,4-dichlorofuroxan. 3,761,593, 9-25-73, Cl. 424-272.000.

Hackmyer, Saul A. Self-lathering shaver. 3,726,009, 4-10-73, Cl. 30-41.000.

Hackney, Seth L. Glass washing apparatus. 3,731,696, 5-8-73, Cl. 134-80.000.

Hackstein, Karl: *See—*
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Hackstein, Karl-Gerhard: *See—*
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Hackworth, Lloyd G. Safety anchor system for mobile homes. 3,757,475, 9-11-73, Cl. 52-23.000.

Hacon, William Frank, to Plessey Handel und Investments A.G. Touch-wire overlay masks for cathode ray tubes. 3,773,989, 11-20-73, Cl. 260-52.00r.

Hadad, Joseph D.; Plunk, Troy E.; and Banks, Donald S., to Raytheon Company. Radiation seeker. 3,760,420, 9-18-73, Cl. 343-117.00r.

Hadam, Wilhelm, to Stoll, H., and Company. Flat bed knitting machine. 3,715,897, 2-13-73, Cl. 66-75.00r.

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Hadank, Walter Robert, to Standard Electric Time Corporation. Lamp supervisory circuit. 3,745,547, 7-10-73, Cl. 340-251.000.

Hadco Printed Circuits, Inc.: *See—*
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Hadcock, Harold E.: *See—*
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Haddad, Ihsan A., to Instrumentation Laboratory, Inc. Electrode assembly. 3,718,562, 2-27-73, Cl. 204-195.00p.

Haddad, Ihsan A.; and Rosse, Thomas A., to Instrumentation Laboratory, Inc. Electrode assembly. 3,718,567, 2-27-73, Cl. 204-195.00p.

Haddad, Mitchell J., to General Motors Corporation. Engine exhaust reactor and method of making. 3,729,937, 5-1-73, Cl. 60-298.000.

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Hadden, David M. Two conductor telemetering system. 3,717,858, 2-20-73, Cl. 340-203.000.
Hadden, David M. Pulse discriminator and telemetering systems using same. 3,742,473, 6-26-73, Cl. 340-210.000.
Hadden, Richard: *See—*
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Haddock, Asa H., Jr.; and Howard, Jay W. Adjustable impedance regulating transformer. 3,708,775, 1-2-73, Cl. 336-155.000.
Haddock, Ernest, to Shell Oil Company. Herbicidal alanine derivatives. 3,761,508, 9-25-73, Cl. 260-471.00a.
Haddock, George, 1/2 to Cooke, Alf, Limited. Formation of creases in board in or for the manufacture of carton blanks. 3,735,674, 5-29-73, Cl. 93-58.00r.
Haddock, William A. Fishing lure. 3,747,256, 7-24-73, Cl. 43-42.130.
Hadek, Vaclav: *See—*
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Hadfield, Harry J., to United States of America, Army. Rotary timer. 3,712,421, 1-23-73, Cl. 185-37.000.
Hadfield, Harry J., to United States of America, Army. Mechanical anti-disturbance device. 3,730,100, 5-1-73, Cl. 102-70.00s.
Hadfield, Robert W.: *See—*
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Hadgraft, Robert B.; and Martin, John J., to Standard Brands Chemical Industries Inc. Textile laminating compositions and composite textile structures laminated therewith. 3,779,857, 12-18-73, Cl. 161-88.000.
Hadick, George J., to Arvey Corporation. Mail carrier device. 3,773,251, 11-20-73, Cl. 229-92.800.
Haditsch, Karl, to McDowell-Wellman Engineering Company. Load compensated car dumper clamp. 3,760,961, 9-25-73, Cl. 214-55.000.
Hadjisky, John, to Stoyanova, Joann. Magnetic assembly having latching means storing energy to produce useful work. 3,775,716, 11-27-73, Cl. 335-253.000.
Hadley, Howard C.; and Head, Glenn Dale, to Deere & Company. Corn harvester. 3,727,617, 4-17-73, Cl. 130-5.00b.
Hadley, Howard C.; and Lindstrom, Harold Richard, to Deere & Company. Feed grinding apparatus. 3,771,733, 11-13-73, Cl. 241-186.00r.
Hadley, Hugh W.; and Saum, David W., to General Electric Company. Adapted beamformer with time constant control. 3,763,490, 10-2-73, Cl. 343-100.0sa.
Hadley, Willis. Face fly screen. 3,778,966, 12-18-73, Cl. 54-81.000.
Hadni, Armand; Thomas, Robert; and Weber, Jacques, to Agence Nationale de Valorisation de la Recherche (ANVAR). Spectrometer for the far infrared. 3,741,658, 6-26-73, Cl. 356-106.00s.
Hadnot, Leroy. Device for holding fishing rods. 3,780,466, 12-25-73, Cl. 43-17.000.
Hadtke, Frederick B.; and Galen, Martin P., to Becton, Dickinson and Company. Disposable surgical cover sheet. 3,721,234, 3-20-73, Cl. 128-132.00d.
Hadtke, Frederick B., to Becton, Dickinson and Company. Disposable Mayo stand cover. 3,747,655, 7-24-73, Cl. 150-52.00r.
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Haede, Werner; Fritsch, Werner; Radscheit, Kurt; and Stache, Ulrich, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of 14-anhydrobufaline. 3,753,980, 8-21-73, Cl. 260-239.570.
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Haefele, Louis R.: *See—*
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Haefeli, Hans Rudolf; and Turnsek, Tit, to Zellweger Ltd. Mechanical reading and recognition of information displayed on information carriers. 3,757,090, 9-4-73, Cl. 235-61.11e.
Haefely, Emil, & Cie AG: *See—*
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Haefner, John A., to Eastman Kodak Company. Photographic diffusion transfer product and process. 3,753,764, 8-21-73, Cl. 117-68.000.
Haefner, Kenneth Browning; and Ringwall, Carl Gustav, to General Electric Company. Turn-up vortex valve. 3,724,478, 4-3-73, Cl. 137-812.000.
Haegert, Clarence B. Battery terminal clamp. 3,739,322, 6-12-73, Cl. 339-230.00r.
Haegert, Clarence B. Electrical connector and method of making same. 3,748,189, 7-24-73, Cl. 148-3.000.
Haehnel, Rudolf H.; and Wily, John L., to North American Rockwell Corporation. Method and apparatus for wire winding. 3,720,054, 3-13-73, Cl. 57-9.000.
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Haertling, Gene H.; and McCampbell, Carroll B., Jr., to United States of America, Atomic Energy Commission. Ferroelectric electrooptic devices. 3,744,875, 7-10-73, Cl. 350-150.000.
Haertling, Gene H., Jr.: *See—*
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Haeusler, Jochen; and Wagnerberger, Wolfgang, to Siemens Aktiengesellschaft. Digital pulse sequence divider. 3,733,475, 5-15-73, Cl. 235-156.000.
Haeusler, Wolfgang Guenter; and Herok, Horst, to Roto-Werke GmbH. Apparatus for attaching a printing foil or master to the cylinder of a printing machine. 3,750,573, 8-7-73, Cl. 101-415.500.
Haeussler, Ernst. Sandwich slab construction and anchor therefor. 3,757,482, 9-11-73, Cl. 52-405.000.
Haeussler, Ernst. Device for mounting wall plates. 3,760,542, 9-25-73, Cl. 52-235.000.
Hafele, Carl Heinz. Fast closing valve. 3,708,150, 1-2-73, Cl. 251-31.000.
Hafele, Carl Heinz. Spring loaded safety valve. 3,714,963, 2-6-73, Cl. 137-487.500.
Hafele, Robert X.; and Robertson, Elmer L., to Ethyl Development Corporation. Apparatus for molding plastic containers. 3,752,628, 8-14-73, Cl. 425-302.00b.
Hafele, Robert X., to Ethyl Development Corporation. Plastic container with lockable dispensing closure. 3,777,948, 12-11-73, Cl. 222-497.000.
Hafer, Paul M., to Arrow-Hart, Inc. Plug unit for use with plug-in bus duct. 3,716,683, 2-13-73, Cl. 200-50.00r.
Hafer, Paul M., to Arrow-Hart, Inc. Plug-in bus duct. 3,731,256, 5-1-73, Cl. 339-22.00b.
Hafer, Paul R., to Boyertown Auto Body Works. Electrically driven vehicles. 3,708,028, 1-2-73, Cl. 180-65.00r.
Haferkorn, Herbert: *See—*
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Haferl, Peter Eduard, to RCA Corporation. Waveform generating circuit. 3,721,857, 3-20-73, Cl. 315-27.0td.
Haferl, Peter Edward, to RCA Corporation. Video signal processing stage which performs plural functions. 3,736,378, 5-29-73, Cl. 178-7.30s.
Hafesh, Joseph W.: *See—*
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Haff, Peter Robert, to Mosel-Anstalt. Collar for upright members and stand with such collar. 3,729,157, 4-24-73, Cl. 248-44.000.
Haff, Richard Walter; and Hatke, Fred Louis, to Hoffmann-La Roche Inc. Ultrasonic doppler fetal heart monitor with variable resonance means. 3,763,851, 10-9-73, Cl. 128-2.05z.
Haffner, Donald G.: *See—*
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Haffner, Donald G., to Jacobson Manufacturing Company. Pedal controlled hinged chute for lawn mowers. 3,721,078, 3-20-73, Cl. 56-202.000.
Haffner, Donald G.; and Hubbard, Glenn R., to Jacobson Manufacturing Company. Multiple outlet spool valve. 3,744,522, 7-10-73, Cl. 137-625.170.



Haffner, Helmut Hubert; Kannheiser, Lothar Karl; and Schmied, Wilhelm, to Bunker Ramo Corporation, The. Presettable polarizing key for electrical connectors. 3,771,108, 11-6-73, Cl. 339-113.00r.
Hafner, Gunther, to Daimler-Benz Aktiengesellschaft. Circuit arrangement for the accurate adjustment of electromagnetic adjusting elements as a function of a D.C. voltage. 3,745,420, 7-10-73, Cl. 317-146.000.
Hafner, Oliver B., to Altec Manufacturing Company, Inc. Body construction. 3,713,717, 1-30-73, Cl. 312-195.000.
Hafner, Otto Paul. Means for fastening overlying metal sheets. 3,726,000, 4-10-73, Cl. 29-21.100.
Hafner, Raimund: *See—*
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Hafner, William F.: *See—*
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Hafner, Wolfgang; and Hufnagel, Walter, to Lever Brothers Company. Method for the manufacture of PVC bottles. 3,737,497, 6-5-73, Cl. 264-94.000.
Hafs, Harold D.; and Boyd, Loyis J., to Research Corporation. Animal semen preparations of increased fertility. 3,718,740, 2-27-73, Cl. 424-105.000.
Haft, Gerald; and Holtermann, Theodore J., to Outboard Marine Corporation. Outboard motor noise isolation system. 3,750,615, 8-7-73, Cl. 115-18.000.
Haft, Harry H., to Westinghouse Electric Corporation. General illumination fluorescent lamp which the color of green objects. 3,748,517, 7-24-73, Cl. 313-109.000.
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HAG Aktiengesellschaft: *See—*
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Haga, Hisashi; and Takamatsu, Yukio, to Toyo Rubber Industry Co., Ltd., The. Apparatus for continuously producing a synthetic polymer foamed mass having square cross section. 3,768,937, 10-30-73, Cl. 425-4.000.
Haga, Kazuo: *See—*
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Hagan, John Joseph; Keating, Kenneth Patrick; and Austin, Thomas Howard, to Jefferson Chemical Company, Inc. Integrated continuous process for olefin production. 3,751,518, 8-7-73, Cl. 260-683.15d.
Hagan Manufacturing Company: *See—*
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Hagar, Robert A., to Machlett Laboratories, Incorporated, The. Gateable image intensifier tube. 3,733,492, 5-15-73, Cl. 250-213.0vt.
Hagarman, Paul O.: *See—*
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Dion, Paul A.; and Hagarman, Paul O., 3,762,007.
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Hagberg, John E., to Westinghouse Electric Corporation. Time delay signal device especially for phase comparison protective relaying system. 3,710,189, 1-9-73, Cl. 317-27.00r.
Hage, Carl H., to General Fireproofing Company, The. Drawer divider. 3,710,974, 1-16-73, Cl. 220-22.400.
Hage, Joseph C., to Singer Company, The. Automatic adjuster for clutch and brake. 3,738,462, 6-12-73, Cl. 192-18.00r.
Hage, Joseph C., to Singer Company, The. Linear action knee lifters. 3,777,686, 12-11-73, Cl. 112-237.000.
Hage, William T., to Mechtron International Corporation. Apparatus and method for the pyrolysis of solid waste material. 3,768,424, 10-30-73, Cl. 110-8.00r.
Hageal, Neal. Suction cleaning nozzle for high pile rugs. 3,771,193, 11-13-73, Cl. 15-397.000.
Hagebaum, Hans-Jurgen: *See—*
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Hagedorn, Erwin C., to Owens-Illinois, Inc. Opalizable alkaline earth aluminosilicate glass compositions. 3,709,705, 1-9-73, Cl. 106-54.000.
Hagedorn, Erwin C., to Owens-Illinois, Inc. Opalizable glass compositions and methods of making articles therefrom. 3,764,283, 10-9-73, Cl. 65-33.000.
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Hagedorn, Fritz: *See—*
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Hagedorn-Olsen, Jens, to Danfoss A/S. Fluid pressure activated snap-action switch with differential and range spring adjustment means. 3,758,732, 9-11-73, Cl. 200-81.00r.
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Hagel, Herbert N., to National Musical String Company. Filled package containing a coiled string or the like. 3,731,793, 5-8-73, Cl. 206-52.00w.
Hagel, Jerrold A.; and Tromel, Richard H., to Rockwell International Corporation. Vaporizing fuel oil burner. 3,764,255, 10-9-73, Cl. 431-236.000.
Hagel, Ross J.: *See—*
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Hagelbarger, David William; and Kubik, Peter Steve, to Bell Telephone Laboratories, Incorporated. Optical tape reader using cylindrical lens as tape drive wheel. 3,780,267, 12-18-73, Cl. 235-61.11e.
Hageman, Howard, to Uniroyal, Inc. Fumaramic acid derivatives. 3,759,909, 9-18-72, Cl. 260-247.20a.
Hageman, Howard A., to Uniroyal, Inc. Sulfur-containing polyaryl polyphenolic stabilizers for elastomeric polymers. 3,758,440, 9-11-73, Cl. 260-45.95c.
Hageman, Howard A.; Gevirtz, Arthur H.; and von Schmeling, Bogislav, to Uniroyal, Inc. Method for regulating plant growth. 3,759,689, 9-18-73, Cl. 71-76.000.
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Hagemann, Gilbert M.; and Stremke, William F., Jr., to Reliance Electric Company, mesne. Automatic labeling machine with no label automatic stop. 3,751,321, 8-7-73, Cl. 156-352.000.
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Hagen, Albert: *See—*
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Hagen, Alexander; Mewes, Dirk; Gruber, Wolfgang; and Bergmeyer, Hans Ulrich, to Boehringer Mannheim Gesellschaft mit beschrankter Haftung. Apparatus for introducing a metered amount of sample liquid into a continuous stream of a carrier liquid. 3,762,609, 0-2-73, Cl. 222-194.000.
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Hagen, Earl W. Bicycle with infinitely variable ratio drive. 3,769,849, 11-6-73, Cl. 74-217.00b.
Hagen, Glenn E. Transmission dynamometer. 3,762,217, 10-2-73, Cl. 73-136.00a.
Hagen, Hans. Drive system for powered vehicles. 3,709,069, 1-9-73, Cl. 74-865.000.

Hagen, Helmut; and Becke, Friedrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of benzothietane-2-spiro-2'-(1',3'-diazacycloalkanesT. 3,776,870, 12-4-73, Cl. 260-25.00r.
Hagen, Helmut; Becke, Friedrich; and Niemeyer, Juergen, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of 5-(1,3-diazacycloalk-2-enyl)-oxadiazoles-(1,2,4). 3,776,910, 12-4-73, Cl. 260-256.40h.
Hagen, Hermann; Tartaglia, Peter; and Fehler, Adolf, to Motoren- und Turbinen-Union Munchen G.m.b.H. Combustion chamber for gas turbine engines. 3,765,171, 10-16-73, Cl. 60-39.230.
Hagen, Herrmann, to Motoren- und Turbinen-Union Munchen GmbH. Control system for gas turbine engines. 3,777,479, 12-11-73, Cl. 60-39.250.
Hagen, Magnus F.; and Jordan, Fred H. Precision telescoping ball bearing drawer slide suspension for wood and metal furniture production. 3,778,120, 12-11-73, Cl. 308-3.800.
Hagen, Siegfried Hendrik, to U.S. Philips Corporation. Voltage-dependent resistor. 3,727,165, 4-10-73, Cl. 338-20.000.
Hagen, Thomas E., to Zipser, Frederick S., M.D. Variable rate measuring device. 3,781,677, 12-25-73, Cl. 324-78.00r.
Hagen, Werner; and Diehl, Paul, to Maschinenfabrik Herborn Kommanditgesellschaft. Cooling arrangement for wire drawing machines. 3,747,388, 7-24-73, Cl. 72-286.000.
Hagenah, Hans-Gerhard, to Union Sils, van de Loo & Co. Pedal for bicycles. 3,760,653, 9-25-73, Cl. 74-594.400.
Hagenbach, Robert J.; and Lenhard, Myron J., to Xerox Corporation. Xerographic imaging and development using metal oxide carrier particles. 3,713,819, 1-30-73, Cl. 96-1.0sd.
Hagenbach, Robert J.; and Madrid, Robert W., to Xerox Corporation. Thermosetting electrostatographic developer of a carrier and prepolymer of diallyl phthalate, isophthalate and mixtures. 3,723,114, 3-27-73, Cl. 96-1.400.
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Hagenbuch, Leroy G. Tailgate. 3,751,112, 8-7-73, Cl. 298-23.0df.
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Hagener, James L.: *See*—
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Hagenlocher, Walter; and Binder, Georg, to Bosch, Robert, G.m.b.H. Electrical machine with shielded circuit parts. 3,731,126, 5-1-73, Cl. 310-68.000.
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Hager, Clarence H., to Modern Caster Co., Inc. Shock absorbing wheel suspension. 3,747,950, 7-24-73, Cl. 280-124.00a.
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Hager, John Grayson, to Fieldcrest Mills, Inc. Terry fabric having high-low pile. 3,721,272, 3-20-73, Cl. 139-396.000.
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Hager, Nathaniel E., Jr.: *See*—
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Hager, Nathaniel E., Jr., to Armstrong Cork Company. Split-electrode series-laminated heater. 3,763,350, 10-2-73, Cl. 219-549.000.
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Hager, Robert J.; Hitchell, Maurice L.; and Tufte, Obert N., to Honeywell Inc. Process for preparing epitaxial layers of $Hg_{1-x}Cd_xTe$. 3,725,135, 4-3-73, Cl. 148-1.500.
Hager, Thomas C., to Du Pont de Nemours, E. I., and Company. Apparatus for producing continuous round jacketed lightguides. 3,773,449, 11-20-73, Cl. 425-114.000.
Hagerman, Gosta Lund, to Aktiebolaget Leo (A/B Leo). Treatment of hair and scalp with compositions containing estriol. 3,729,560, 4-24-73, Cl. 424-238.000.
Hagerman, Larry Melvin; and Schneider, Donald Louis. Intestinal bile acid binding process and compositions. 3,769,399, 10-30-73, Cl. 424-79.000.
Hagerty, William K.; and Hunter, Travis L., to Vantage Tool Incorporated. Pneumatic hole piercing apparatus. 3,744,291, 7-10-73, Cl. 72-325.000.
Hagerty, William Kenneth. Force unit for metal working. 3,754,432, 8-28-73, Cl. 72-447.000.
Hagey, Lee P.: *See*—
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Haggard, Kenneth S. Attachment for automatic override of manually operated compressed gas fire extinguishers and alarms. 3,719,231, 3-6-73, Cl. 169-26.000.
Hagge, John K.; and Johnson, Frederick W., to Collins Radio Company. Microelectronic heat exchanger pedestal. 3,710,251, 1-9-73, Cl. 324-158.00f.
Haggenmiller, Joerome S.: *See*—
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Haggerty, William Andrew, to Cincinnati Milacron, Inc. Electrochemical machining tool for machining conjugate surfaces of revolution. 3,766,029, 10-16-73, Cl. 204-129.500.
Haggerty, William Andrew, to Cincinnati Milacron Inc. Apparatus and method for forming grooves and lands. 3,769,194, 10-30-73, Cl. 204-224.000.
Haggerty, William N.: *See*—
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Hagino, Hiroshi: *See*—
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Hagitani, Akira: *See*—
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Hagler, Robert G., to Texas Instruments, Incorporated. Transporting and positioning system. 3,717,381, 2-20-73, Cl. 302-31.000.
Haglid, Frank R., to Du Pont de Nemours, E. I., and Company. 2-Hydroxy-4-methylsulfinyl-butyric acid and derivatives. 3,761,518, 9-25-73, Cl. 260-535.00r.
Haglund, Bernard F.; and Salvarezza, Robert N., to Coast Marine & Industrial Supply Inc. Rat guard. 3,753,416, 8-21-73, Cl. 114-211.00r.
Haglund, Robert J. Fluid coupling. 3,731,954, 5-8-73, Cl. 285-12.000.
Haglund, Robert J., to General Motors Corporation. Rotary machine side seal arrangement. 3,773,443, 11-20-73, Cl. 418-142.000.
Hagmann, Foster M. Multiple pipe joint seal. 3,781,043, 12-25-73, Cl. 285-363.000.
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Hagnauer, Waldo W. Heat exchanger assembly having a common fluid box. 3,734,176, 5-22-73, Cl. 165-158.000.
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Hagood, Ray E., to Motorola, Inc. Coil form. 3,745,498, 7-10-73, Cl. 336-65.000.
Hagopian, Erivan: *See*—
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Hagopian, Haroutun. Sanitary siphon bidet. 3,728,743, 4-24-73, Cl. 4-7.000.
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Hague, John D. Rotating body unbalance detector-locator. 3,744,321, 7-10-73, Cl. 73-457.000.
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Hague, Robert Z.; and Hantman, Edwin F., to Kemp Industries, Inc. Hydraulic control apparatus. 3,773,083, 11-20-73, Cl. 137-625.690.
Hahlbeck, Edwin C.: *See*—
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Hahlbeck, Edwin C., to Milwaukee Gear Company. Apparatus for positioning a gear. 3,742,568, 7-3-73, Cl. 29-200.00p.
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Hahn, Emil H., to Lambert Brake Corporation, mesne. Brake. 3,708,041, 1-2-73, Cl. 188-72.900.
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Hahn, Floyd, to American Safety Equipment Corporation. Free-spooling retractor for vehicle of restraint system. 3,771,814, 11-13-73, Cl. 280-150.0sb.
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Hahn, Frederick K., to Texaco Inc. Hydroconversion of petroleum oils. 3,723,296, 3-27-73, Cl. 208-89.000.
Hahn, Frederick W., Jr., to International Business Machines Corporation. Method of manufacturing magnetic transducers. 3,766,640, 10-23-73, Cl. 29-603.000.
Hahn, Friedrich Wilhelm, to Hahn & Co., KG. Tire bead core ring. 3,741,507, 6-26-73, Cl. 245-1.500.
Hahn, George W. Mandibular prosthetic apparatus. 3,720,959, 3-20-73, Cl. 3-1.000.
Hahn, Granville J., to Cosden Oil & Chemical Company. Titanium dioxide mixing. 3,752,687, 8-14-73, Cl. 106-300.000.
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Hahn, Laurence W. Method of sealing a cover to a battery. 3,765,951, 10-16-73, Cl. 136-176.000.
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Hahn, Linus K., to Industrial Nucleonics Corporation. Nucleonic guage for measuring properties of thin materials. 3,742,216, 6-26-73, Cl. 250-83.30d.
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Hahto, Charles; and Schneirow, Harry A. Game score display device. 3,729,216, 424-73, Cl. 281-45.000.

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Haid, Erich: *See—*
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Haigh, Curzon John: *See—*
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Haigh, Henry A., to Haigh Plastic Products Corporation. Seal assembly. 3,733,079, 5-15-73, Cl. 277-184.000.

Haigh, Jack M., to Standard Abrasives. Abrasive finishing article assembly. 3,747,286, 7-24-73, Cl. 51-389.000.

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Haile, Ernest. Foot-operated chord xylophone. 3,761,598, 9-25-73, Cl. 84-444.000.

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Haines, Kenneth A.; and Hildebrand, Bernard P. Holographic imaging by simultaneous source and receiver scanning. 3,715,482, 2-6-73, Cl. 178-6.70r.

Haines, Raymond, Jr., to Fairview Development Service, Inc. Pocketed ball game. 3,773,324, 11-20-73, Cl. 273-123.00r.

Haines, Richard F.; Fitzgerald, James W.; and Rositano, Salvadore A., to United States of America, National Aeronautics and Space Administration. Visual examination apparatus. 3,737,217, 6-5-73, Cl. 351-23.000.

Haines, Richard M.: *See—*
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Haines, Robert M. Aircraft control means. 3,765,622, 10-16-73, Cl. 244-17.110.

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Haines, Russel R., to Paco Packaging Inc. Single dosage packaging apparatus. 3,754,374, 8-28-73, Cl. 53-373.000.

Haining, Frank W.; and Puterbaugh, Loren J., to International Business Machines Corporation. Method for forming interconnections between circuit layers of a multi-layer package. 3,778,900, 12-18-73, Cl. 29-628.000.

Hainski, Martha B.: *See—*
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Haitz, Roland H., to Hewlett-Packard Company. Electroluminescent semiconductor display apparatus and method of fabricating the same. 3,780,357, 12-18-73, Cl. 317-234.00r.

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Hajduk, Marian S. Teaching machine. 3,707,783, 1-2-73, Cl. 35-31.00r.

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Hajec, Chester S. Golf cart and control therefore. 3,731,756, 5-8-73, Cl. 180-6.500.

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Hajos, Zoltan G.; and Parrish, David R., to Hoffmann-La Roche Inc. Perfume compositions containing ethyl 2,4-dioxohexanoate. 3,760,087, 9-18-73, Cl. 424-365.000.

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Hakala, John R., to Harrison Jet Guns Inc. Perforating gun. 3,739,723, 6-19-73, Cl. 102-20.000.

Hakamada Kinzoku Kogyo Kabushiki Kaisha: *See—*
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Hakata, Hiroshi; Higuchi, Katumi; and Kozeni, Masao; to Shionogi & Co., Ltd. Method of and apparatus for sleep monitoring by brainwave, electromyographic and eye movement signals. 3,774,593, 11-27-73, Cl. 128-2.10b.

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Haker, Edwin J.; and Peterson, Norman L., to Rex Chainbelt Inc. Vibration meter system for vibratory compaction machines. 3,778,177, 12-11-73, Cl. 404-117.000.

Hakim, Louise Z. Blanket holder with stable and protected safety pin. 3,737,955, 6-12-73, Cl. 24-72.500.

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Halasa, Adel F. Process for the polymerization of conjugated dienes. 3,718,637, 2-27-73, Cl. 260-94.20t.

Halasa, Adel F.; and Schroeder, Ervin E., to Firestone Tire & Rubber Company, The. Process for postreaction of alkali metal-active polymers with silicic compounds and dialkenyl compounds. 3,725,369, 4-3-73, Cl. 260-85.100.

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Hales, John H. Inflatable finger for a drapery pleating and stretching apparatus. 3,726,448, 4-10-73, Cl. 223-32.000.
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Haley, Boyd E. Process for selectively purifying sugar beet diffusion juice and by-product recovery of valuable organic acids therefrom. 3,734,773, 5-22-73, Cl. 127-48.000.
Haley, Boyd E. Process for purifying sugar beet diffusion juice. 3,745,016, 7-10-73, Cl. 99-2.00r.
Haley, David M.; and Bergantzel, Richard P., to Allen Electric and Equipment Company. High speed overhead car wash apparatus. 3,731,331, 5-8-73, Cl. 15-21.00d.
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Haley, Ernest K. Vehicle blind side mirror system. 3,741,633, 6-26-73, Cl. 350-302.000.
Haley, Ernest K. Adjustable horizontal hole drilling apparatus. 3,749,507, 7-31-73, Cl. 408-46.000.
Haley, Floyd C., to Ultra-Violet Products, Inc. Monochromator. 3,753,618, 8-21-73, Cl. 356-100.000.
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Hall, Edward L.; and Philofsky, Elliott M., to United States of America, Army, mesne. Evaporation source for device metallization. 3,754,901, 8-28-73, Cl. 75-141.000.
Hall, Edwin M., Jr., to General Electric Company. Hose storage system for a washing appliance. 3,760,838, 9-25-73, Cl. 137-355.170.
Hall, Elisha Winthrop; and Shechan, Walter A., to Codman, F. L. & J. C., Company. Abrasive means and method of manufacture. 3,773,480, 11-20-73, Cl. 51-295.000.
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Hall, Ellis C. Automatic air valve control apparatus. 3,776,662, 12-4-73, Cl. 417-37.000.
Hall, Floyd V., to Liggett & Myers Incorporated. Apparatus for compacting filter tip assemblies. 3,715,957, 2-13-73, Cl. 93-1.00c.
Hall, Frank Kenneth. Method and apparatus for absorbing energy. 3,747,915, 7-24-73, Cl. 267-139.000.
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Hall, Gary E. Focus nozzle directional bit. 3,746,108, 7-17-73, Cl. 175-61.000.
Hall, George E. Head pole support for horse harness. 3,765,151, 10-16-73, Cl. 55-71.000.
Hall, George Robert. Musical instrument having automatic fill-in means. 3,745,225, 7-10-73, Cl. 84-1.030.
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Hall, Guy P. Method (and means) for cryogenically freeing drilling pipe. 3,756,317, 9-4-73, Cl. 166-254.000.
Hall, Harold E., to Stalwart Rubber Company. Apparatus for manufacturing rubber washer elements. 3,719,443, 3-6-73, Cl. 425-352.000.
Hall, Harold E., to Stewart Rubber Company. Transfer mold for reducing ram flash. 3,764,248, 10-9-73, Cl. 425-251.000.
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Hall, James A.; and Peppiatt, Harry J., to General Electric Company. Arrangement for providing improved linearization of the voltage-frequency characteristic of a resonant circuit having a voltage-variable capacity diode. 3,747,032, 7-17-73, Cl. 333-82.00b
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Hall, James M.; and Clipp, Louis L., to Exotech Incorporated. Apparatus for forming pulse jets of liquid. 3,708,121, 1-2-73, Cl. 239-102.000.
Hall, James M.; and Clipp, Louis L., to Exotech Incorporated. Apparatus for generating pulsed jets of liquid. 3,712,543, 1-23-73, Cl. 239-102.000.
Hall, James M.; and Clipp, Louis L., to Exotech Incorporated. Pulsed jet riot control apparatus. 3,722,819, 3-27-73, Cl. 239-102.000.
Hall, James M.; and Clipp, Louis L., to Exotech Incorporated. Apparatus for producing a pulse of liquid for machining operations. 3,746,256, 7-17-73, Cl. 239-101.000.
Hall, James M. Mars; and Biglow, James W., to Jackson & Church Electronics Company, Inc. Surveillance system. 3,740,466, 6-19-73, Cl. 178-6.800.
Hall, Jeffrey, to Houdaille Industries, Inc., mesne. Torsional vibration damper. 3,734,484, 5-22-73, Cl. 267-137.000.
Hall, Jesse H.; Gettelman, Clarence C.; Pollack, John L.; Goldman, Gary C.; and Decker, Arthur J., to United States of America, National Aeronautics and Space Administration. High powered arc electrodes. 3,777,200, 12-4-73, Cl. 313-32.000.
Hall, John A., Sr., to Weatherford Oil Tool Company, Inc. Well centralizer. 3,749,168, 7-31-73, Cl. 166-241.000.
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Hall, John B., to International Flavors & Fragrances Inc. $C_{10}$-$C_{13}$ hydrocarbyl substituted pyridine compounds. 3,716,543, 2-13-73, Cl. 260-290.00v.
Hall, John B., to International Flavors & Fragrances, Inc. Isolongifolene processes and product. 3,718,698, 2-27-73, Cl. 260-587.000.
Hall, John B., to International Flavors & Fragrances Inc. Novel chemical compounds and process. 3,729,514, 4-24-73, Cl. 260-598.000.
Hall, John B., to International Flavors & Fragrances Inc. Hydrogenated indane derivatives and processes for producing same. 3,751,500, 8-7-73, Cl. 260-666.0py.
Hall, John B., to International Flavors & Fragrances Inc. Indanone derivatives and processes for producing same. 3,773,836, 11-20-73, Cl. 260-586.00r.
Hall, John F., to Chrysler Corporation. Five-way control valve and system. 3,738,384, 6-12-73, Cl. 137-493.900.
Hall, John N., to Hercules Incorporated. Preparation of transversely fibrillated film. 3,719,540, 3-6-73, Cl. 156-267.000.
Hall, John N., to Hercules Incorporated. Orientation of tubing for a continuous process for making blow molded containers. 3,751,542, 8-7-73, Cl. 246-99.000.
Hall, John Oliver. Animal commode. 3,757,738, 9-11-73, Cl. 119-1.000.
Hall, John W., II, to General Electric Company. Method of making nickel-chrome ohmic contact to p-type silicon carbide. 3,709,729, 1-9-73, Cl. 117-227.000.
Hall, Jon. Multiple purpose field increasing optical device. 3,761,162, 9-25-73, Cl. 350-255.000.
Hall, Joseph J.; and Lamb, Leo M., to Johnson & Johnson. Adhesive tape and method. 3,770,542, 11-6-73, Cl. 156-184.000.
Hall, Joshua D. Grenade fuse lever. 3,762,330, 10-2-73, Cl. 102-64.000.
Hall, Joshua D. Telescoping top section camper. 3,762,759, 10-2-73, Cl. 296-23.0mc.
Hall, Larry E.; Branen, Leonard A.; and Moore, Glen F., to Charles Machine Works, Inc., The. Mounting for vibrating tool having damping means for isolating vibrations. 3,746,100, 7-17-73, Cl. 172-40.000.
Hall, Lewis D., to Veeco Instruments, Inc. Sputter ion pumps. 3,781,133, 12-25-73, Cl. 417-49.000.
Hall, Lewis W., Jr.: *See—*
Belak, Steven G.; and Hall, Lewis W., Jr., 3,716,510.
Ware, Richard E.; and Hall, Lewis W., Jr., 3,770,620.
Hall, Lewis William, to Maple Press Company, The. Book nipping apparatus. 3,731,617, 5-8-73, Cl. 100-215.000.
Hall, Lou H.: *See—*
Carbajal, Bernard G., III; Gosney, William Milton; and Hall, Lou H., 3,724,065.
Hall, Luther A. R.; Gurney, John A.; and Renfroe, Harris B., to Ciba-Geigy Corporation. Polysubstituted dihydropyrenes. 3,716,595, 2-13-73, Cl. 260-666.0py.
Hall, Luther A. R.; Gurney, John A.; and Renfroe, Harris B., to Ciba-Geigy Corporation. Certain 2-isonitrosoalkyl-15,16-dihydropyrenes. 3,719,709, 3-6-73, Cl. 260-556.00a.
Hall, Luther A. R.; Gurney, John A.; and Renfroe, Harris B., to Ciba-Geigy Corporation. Polysubstituted dihydropyrenes. 3,723,547, 3-27-73, Cl. 260-645.000.
Hall, Luther A. R.; Gurney, John A.; and Renfroe, Harris B., to Ciba-Geigy Corporation. Polysubstituted dihydropyrenes. 3,728,394, 4-17-73, Cl. 260-591.000.
Hall, Marchand B.; Handler, Irving; and Kelly, Calvin E., to United States Steel Corporation. Siding cutter. 3,714,856, 2-6-73, Cl. 83-453.000.
Hall, Mitchell A., to Monarch Tool & Manufacturing Company. Coin chute construction. 3,732,962, 5-15-73, Cl. 194-92.000.
Hall, Mitchell A., to Monarch Tool & Manufacturing Company. Lock box construction. 3,738,134, 6-12-73, Cl. 70-86.000.
Hall, Norma T., to Liquid Nitrogen Processing Corporation. Glass reinforced injection molding pellet. 3,709,773, 1-9-73, Cl. 161-176.000.
Hall, Phil H.: *See—*
Devore, Ernest W.; and Hall, Phil H., 3,774,154.
Hall, Philip George, to Lever Brothers Company. Cleaning compositions. 3,708,429, 1-2-73, Cl. 252-156.000.
Hall, Ralph W.: *See—*
Koerner, Ernest C.; Hall, Ralph W.; Hilker, George D.; and Wareham, William W., 3,745,138.
Hall, Raymond L. Tie rods system for swimming pools with hopper bottoms. 3,720,064, 3-13-73, Cl. 61-35.000.
Hall, Raymond L. Folding truss. 3,729,877, 5-1-73, Cl. 52-109.000.
Hall, Rex E.: *See—*
Hummer, Herbert B.; Jackson, Donald P.; and Hall, Rex E., 3,752,243.
Hall, Richard E., to International Business Machines Corporation. Data normalization system. 3,715,722, 2-6-73, Cl. 340-146.30h.
Hall, Richard H.: *See—*
Gouin, Albert J.; and Hall, Richard H., 3,762,952.
Hall, Richard H. Pocket article and method of making the same. 3,725,960, 4-10-73, Cl. 2-248.000.
Hall, Richard H.; Haigh, Daniel H.; Derby, Robert L.; and Jennings, Walter E., to Dow Chemical Company, The. Valve and method for aqeuous systems. 3,750,688, 8-7-73, Cl. 137-2.000.
Hall, Richard John; and Shalders, Alan John, to A.C.E. Machinery Limited. Hoists. 3,721,319, 3-20-73, Cl. 187-61.000.
Hall, Richard L. Adjustable toe weight for horses. 3,709,301, 1-9-73, Cl. 168-25.000.
Hall, Richard L.; and Miller, Carl F., to Westinghouse Electric Corporation. Printed circuit board manual assembly director device. 3,731,363, 5-8-73, Cl. 29-203.00b.
Hall, Richard W.; and Young, James W., to Enterprises International, Inc. Handling of pulp wood by fork lift truck. 3,767,065, 10-23-73, Cl. 214-6.00h.
Hall, Richard W.; Kerr, Richard H.; and Padrutt, Paul W., to Kelsey-Hayes Company. Well stimulation apparatus and method. 3,773,438, 11-20-73, Cl. 417-345.000.
Hall, Richard William: *See—*
Booth, Bruce F.; Veilleux, Pierre; and Hall, Richard William, 3,776,378.
Hall, Robert: *See—*
Gwilliam, Willard E.; Buchman, Carl S.; and Hall, Robert, 3,732,650.
Hall, Robert L., to Champion Laboratories, Inc. Filter unit. 3,724,665, 4-3-73, Cl. 210-130.000.
Hall, Robert McDowell; and Mumm, Jimmie Joe, to Tektronix, Inc. and Indusco Chemical Products. Water soluble protective coating. 3,773,704, 11-20-73, Cl. 260-33.80r.
Hall, Robert N., to General Electric Company. Germanium gamma detectors having non-ideal contacts and deep level inducing impurities therein. 3,761,711, 9-25-73, Cl. 250-370.000.
Hall, Robert P., Sr., to Arvin Industries, Inc. Magnetic disc recorder with transducer accessing mechanism utilizing a counterweighted arm. 3,770,907, 11-6-73, Cl. 179-100.2ca.
Hall, Roland S., Jr.: *See—*
Bannett, Roger J.; and Hall, Roland S., Jr., 3,735,944.
Hall, Ronald B. Square edge sanding tool. 3,714,743, 2-6-73, Cl. 51-392.000.
Hall, Ronald David, to Allied Breweries (UK). Foam reduction during preparation of beer. 3,751,263, 8-7-73, Cl. 99-31.000.
Hall, Russell J. Pressure type clothes washing and drying machine. 3,771,335, 11-13-73, Cl. 68-21.000.
Hall Ski-Lift Company, Inc.: *See—*
Savage, Phillip D., 3,719,369.
Savage, Phillip D., 3,729,225.
Hall, Stanley T.: *See—*
Heller, Robert E.; and Hall, Stanley T., 3,757,585.
Hall, Theodore W., to General Electric Company. Sparkgap assembly having a semi-conductive coating adjacent the electrodes thereof. 3,737,712, 6-5-73, Cl. 313-325.000.
Hall, Thomas N.: *See—*
Gilliam, Clarence W.; and Hall, Thomas N., 3,764,796.



Hall, Thomas N., to Gilliam, Clarence W. Method of making a semiconductive coating adjacent the electrodes of a sparkgap. 3,737,711, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Method of making a sparkgap. 3,737,713, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,714, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,715, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,716, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,717, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,718, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,719, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,720, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,721, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,722, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,723, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,724, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,725, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,726, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,727, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,728, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,729, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,730, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,731, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,732, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,733, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,734, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,735, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,736, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,737, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,738, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,739, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,740, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,741, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,742, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,743, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,744, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,745, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,746, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,747, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,748, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,749, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,750, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,751, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,752, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,753, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,754, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,755, 6-5-73, Cl. 313-325.000.
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Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,761, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,762, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,763, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,764, 6-5-73, Cl. 313-325.000.
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Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,770, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,771, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,772, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,773, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,774, 6-5-73, Cl. 313-325.000.
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Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,781, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,782, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,783, 6-5-73, Cl. 313-325.000.
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Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,789, 6-5-73, Cl. 313-325.000.
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Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,791, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,792, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,793, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,794, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,795, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,796, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,797, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,798, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof. 3,737,799, 6-5-73, Cl. 313-325.000.
Hall, Thomas Nelson, to General Electric Company. Sparkgap having a semi-conductive coating adjacent the electrodes thereof

Hall, Trenton O. Air scrubber apparatus with improved fire extinguishing means. 3,770,061, 11-6-73, Cl. 169-2.00r.

Hall, Walter L.: *See—*
Webb, Jimmy L.; and Hall, Walter L., 3,739,035.

Hall, Walter L.; and Webb, Jimmy L., to General Electric Company. Dibenzopyrans, their isomeric fluorenols and dibenzothiopyrans. 3,723,465, 3-27-73, Cl. 260-328.000.

Hall, Wilbur S.; and Steinerecher, Lester, to Amchem Products, Inc. Process and composition for coating metals. 3,776,848, 12-4-73, Cl. 252-49.500.

Hall, William Bernard: *See—*
Voigt, Edward Harold; and Hall, William Bernard, 3,749,383.

Hall, William Cornelius; and Peterson, John Merriam, to Chemtree Corporation. Self-supporting structures for nuclear radiation shields and binders therefor. 3,751,387, 8-7-73, Cl. 252-478.000.

Hall, William K.: *See—*
Cant, Noel W.; and Hall, William K., 3,725,482.

Hall, William K., Jr. Air flow control system. 3,738,572, 6-12-73, Cl. 236-49.000.

Hall-Barkan Instruments, Inc.: *See—*
Barkan, Harold; Barkan, Edward D.; and Swartz, Jerome, 3,757,322.

Hallada, Calvin J.: *See—*
Khuri, Albert; Barry, Henry F.; and Hallada, Calvin J., 3,763,303.

Hallam, E. C., Company: *See—*
Hallam, Edwin Carey, 3,716,105.

Hallam, Edwin Carey, to Hallam, E. C., Company. Grading attachment for a vehicle. 3,716,105, 2-13-73, Cl. 172-780.000.

Hallamore, Alfred S. Process air automatic self-cleaning air filtration system. 3,775,950, 12-4-73, Cl. 55-242.000.

Hallamore Homes, Inc.: *See—*
Hallamore, Lloyd G., 3,715,777.

Hallamore, Lloyd G., to Hallamore Homes, Inc. Heavy duty hinge. 3,715,777, 2-13-73, Cl. 16-162.000.

Hallauer, Siegfried; Mathys, Gaston; and Wenk, Hans, to Ornapress AG. Apparatus for injection molding articles carrying decorations punched from a band. 3,743,458, 7-3-73, Cl. 425-122.000.

Hallberg, Irving H., to Borg-Warner Corporation. Automatic transmission control system. 3,724,205, 4-3-73, Cl. 60-19.000.

Hallberg, Karl Johan Folke. Device for connecting and disconnecting electrical or mechanical functions. 3,744,333, 7-10-73, Cl. 74-437.000.

Hallden Machine Company, The: *See—*
Ingham, James D., 3,721,131.

Hallec, Donald O.; and Menot, Robert, to Foxboro Company, The. Computer directed process control system with analog input multiplexer. 3,761,889, 9-25-73, Cl. 340-172.500.

Hallen, Jan-Ake; and Stiernstrom, Lars, to Ingeniorsfirman Gunnar Abrahanson AB. Mounting means for a level sensing device. 3,742,245, 6-26-73, Cl. 307-118.000.

Hallen, Thor Oscar, to Tektronix, Inc. Temperature compensation of voltage controlled resistor. 3,715,609, 2-6-73, Cl. 307-310.000.

Hallenbeck, Emerson J. Consumable weld insert. 3,770,302, 11-6-73, Cl. 285-22.000.

Hallenbeck, Gordon R., to General Electric Company. Side support for synchronous rotor field winding. 3,766,417, 10-16-73, Cl. 310-214.000.

Haller, Clayton L., to Westinghouse Electric Corporation. Door lock for laundry apparatus. 3,735,610, 5-29-73, Cl. 68-12.00r.

Haller, Hans; and Wendl, Erwin. Platform structure. 3,767,153, 10-23-73, Cl. 249-18.000.

Haller, John, to Federal-Mogul Corporation. Method of making a fluid-conducting hot-forging die. 3,735,648, 5-29-73, Cl. 76-107.00a.

Haller, Jordan D. Atraumatic surgical clamp. 3,746,002, 7-17-73, Cl. 128-322.000.

Haller, Philip L.: *See—*
Durr, Henry H., 3,774,941.

Haller, Richard. Device for supporting an elongated movable member. 3,728,903, 4-24-73, Cl. 74-89.150.

Haller, Willi; Lebhere, Richard; and Kratt, Kurt, to Hengstler, J., KG, Firma. Device for controlling a self-service dispenser using identification data carriers. 3,779,357, 12-18-73, Cl. 194-5.000.

Haller, Willis D.; and Colline, Raymond M., to Minnesota Mining and Manufacturing Company. Magnetic recording tape. 3,725,126, 4-3-73, Cl. 117-235.000.

Haller, Wolfgang. Porous material and method of making the same. 3,758,284, 9-11-73, Cl. 65-31.000.

Hallerback, Stig Lennart, to SKF Industrial Trading and Development Company NV. Bearing support. 3,717,779, 2-20-73, Cl. 310-91.000.

Hallerback, Stig Lennart, to SKF Industrial Trading and Development Company, N.V. Electric motors. 3,720,914, 3-13-73, Cl. 310-43.000.

Hallerback, Stig Lennart, to SKF Industrial Trading and Development Company, N.V. Rolling bearing, e.g. taper roller bearing. 3,733,109, 5-15-73, Cl. 308-216.000.

Hallerback, Stig Lennart. Methods for the manufacture of bearing supports for electric rotary machines. 3,735,462, 5-29-73, Cl. 29-148.40r.

Hallerback, Stig Lennart, to SKF Industrial Trading and Development Company, N.V. Electric motors for other electric rotary machines and method for the manufacture thereof. 3,740,598, 6-19-73, Cl. 310-86.000.

Hallerback, Stig Lennart, to SKF Industrial Trading and Development Company N.V. Flexible flange for bearings, preferably rolling bearings. 3,767,279, 10-23-73, Cl. 308-236.000.

Hallerback, Stig Lennart, to SKF Industrial Trading and Development Company N.V. Electric motor driven tool. 3,772,542, 11-13-73, Cl. 310-50.000.

Hallerberg, Don M., to Hi-Tek Corporation. Push-switch with spring biased plunger. 3,751,618, 8-7-73, Cl. 200-159.00r.

Hallett, Earl D. Signals for mail box. 3,750,939, 8-7-73, Cl. 232-35.000.

Hallett, Floyd P.: *See—*
Brown, James L.; and Hallett, Floyd P., 3,745,211.

Hallett, Robert J.: *See—*
Alvarez, Joseph A.; Barner, Robert P., Jr.; and Hallett, Robert J., 3,761,883.

Hallett, Stanley Augustus. Splint. 3,738,358, 6-12-73, Cl. 128-85.000.

Hallett, Tom E., to Flexible Metal Hose Manufacturing Company. Flexible joint for fluid conduit systems. 3,770,303, 11-6-73, Cl. 285-45.000.

Hallewell, Raymond Thomas, to Toolmasters Limited. Method of making grinding members. 3,770,400, 11-6-73, Cl. 51-295.000.

Halley, Henry H., Jr., to Drogen, Incorporated. Method and apparatus for shooting wells. 3,763,781, 10-9-73, Cl. 102-21.000.

Halley, James, & Sons Limited: *See—*
Moseley, Anthony; and Morrall, Michael Herbert James, 3,775,223.

Halley, James L., to Tesco Chemicals, Inc. Water treatment composition including synthetic wax. 3,753,676, 8-21-73, Cl. 71-67.000.

Hallgreen, Knud Julius, to Danfoss A/S. Temperature-regulating apparatus. 3,737,622, 6-5-73, Cl. 219-364.000.

Halliburton Company: *See—*
Baker, Eugene E., 3,768,556.
Baker, Eugene E., 3,768,562.
Boyd, Charles L.; and Roach, James D., 3,710,623.
Carnes, James D., 3,759,327.
Carnes, James D.; Young, Bill M.; and Totty, Kenneth D., 3,776,311.
Cole, Clinton W., 3,765,449.
Copland, George V., 3,743,768.
Copland, George V.; and Gass, Edward W., 3,760,362.
Davidson, John P., 3,711,927.
Dill, Walter R., 3,724,549.
Edwards, Arnold Glen; and Jenkins, Charles J., 3,779,263.
Ely, John W.; Chatterji, Jiten; Holtmyer, Marlin D.; and Tinsley, John M., 3,768,566.
Gass, Edward W.; and Paramore, Fred W., 3,743,946.
Gass, Edward W.; Hammond, Jack; Lorenzino, Paul; and Thomas, Joseph E., 3,748,446.
Gass, Edward W.; and Paramore, Fred W., 3,774,448.
George, Charles R., 3,748,159.
Hammond, Jack; and Boyd, Charles L., 3,710,622.
Hershey, Elmer E.; and Crommett, Donald L., 3,760,954.
Howard, Paul D., 3,768,419.
Hyde, Walter E., 3,768,304.
Jessup, Robert L., 3,743,014.
Jessup, Robert L., 3,762,219.
Jessup, Robert L.; and Farley, David L., 3,776,578.
Keeney, Bill R.; and Johnson, Joe W., Jr., 3,773,465.
Keeney, Billy R., 3,711,249.
Kendrick, William D.; Frazier, Bruce J.; Freeman, Norman L.; and Ferguson, Lyndel G., 3,715,055.
Knox, John A.; Smith, John A.; and Stout, Roy F., 3,730,901.
Knox, John A.; and Fredrickson, Sherman E., 3,768,564.
Knox, Lloyd C., 3,776,250.
Kurle, Arthur R., 3,720,390.
Malone, William T.; Holtmyer, Marlin D.; Tinsley, John M.; and Chatterji, Jiten, 3,748,266.
Malone, William T.; Holtmyer, Marlin D.; Tinsley, John M.; and Chatterji, Jiten, 3,758,406.
Nickles, Stephen K.; Stogner, Joel M.; and Doerksen, James L., 3,747,415.
Seay, Orum E.; and Shelton, Robert Q., 3,752,329.
Smith, Dwight K.; and Lane, Carl A., 3,774,683.
Totty, Kenneth D., 3,743,019.

Halliburton Services: *See—*
Giroux, Richard Lee, 3,750,749.

Hallicrafters Co., The: *See—*
Kovar, George F., 3,778,839.
Schneider, Robert J.; and Levy, William I., 3,739,277.





Halliday, John S.; and Evans, Sydney, to Associated Electrical Industries Limited. Ion lens system for mass spectrometers and method of operation. 3,745,343, 7-10-73, Cl. 250-41.9me.

Halliday, Michael: *See—*
Blaire, Pete, 3,738,642.

Halliday, Robert B., to Singer Company, The, mesne. Printed circuit board assembly aid. 3,739,447, 6-19-73, Cl. 29-203.00b.

Hallier, Bernard Lucien D.; and Coquet, Jean Louis, to International Standard Electric Corporation. Microwave dryer equipment. 3,731,036, 5-1-73, Cl. 219-10.550.

Hallier, Bernard Lucien Desire: *See—*
Guerga, Michel Henri; and Hallier, Bernard Lucien Desire, 3,732,048.

Hallihagen, Sven Goran: *See—*
Carlsson, Per Arvid Emil; Corrodi, Hans Rudolf; Hallihagen, Sven Goran; and Junggren, Ulf Krister, 3,758,691.

Hallin, Robert W., to Honeywell Inc. Magnet actuating arrangement for a magneto sensitive device and method for providing. 3,750,068, 7-31-73, Cl. 335-306.000.

Hallman, Beverley G.: *See—*
Dufton, J. Peter; and Hallman, Beverley G., 3,729,718.

Hallman, Beverley G.; and Thomas, Robert M., to GTE Automatic Electric Laboratories, Incorporated. Indirect addressing apparatus for small computers. 3,740,719, 6-19-73, Cl. 340-172.500.

Hallman, Newt M., to Universal Oil Products Company. High temperature, high pressure hydrocarbon conversion process. 3,714,028, 1-30-73, Cl. 208-111.000.

Hallman, Robert W.; and Kurtz, Gary W., to Teeg Research, Inc. Electromagnetic radiation sensitive lithographic plates. 3,762,325, 10-2-73, Cl. 101-453.000.

Hallmark, Bobby J., to Gearhart-Owen Industries, Inc. Selective firing apparatus. 3,768,408, 10-30-73, Cl. 102-21.600.

Hallmark Cards, Incorporated: *See—*
Bushyhead, Jess C., 3,756,168.
McBride, Donald W., 3,756,760.

Hallock, Edward C.; Olsen, Robert W.; and Viehmann, George A.; deceased (by La Palme, Camille V.; co-executor; and Viehmann, George A., Jr.; co-executor), to Construction Specialties, Inc. Wall and corner guard assembly. 3,712,003, 1-23-73, Cl. 52-254.000.

Hallock, Robert L. Hollow sheet metal nail. 3,710,672, 1-16-73, Cl. 85-11.000.

Halloran, John J., to Environmental Technology Corporation. Air purifier. 3,744,216, 7-10-73, Cl. 55-102.000.

Halloran, William X. Combination intramedullary fixation and external bone compression apparatus. 3,709,218, 1-9-73, Cl. 128-92.00a.

Halloran, William X. Bone compression device. 3,709,219, 1-9-73, Cl. 128-92.00a.

Halloran, William X. Threaded intramedullary compression and fixation device. 3,717,146, 2-20-73, Cl. 128-92.0bc.

Halloran, William X. Self-retaining muscle retractor. 3,731,673, 5-8-73, Cl. 128-20.000.

Halloway, Henry; and Logothetis, Eleftherios Miltiadis, to Ford Motor Company. High mobility epitaxial layers of PbTe and $Pb_{1-x}Sn_xTe$ prepared by post-growth annealing. 3,779,801, 12-18-73, Cl. 117-201.000.

Halls, Lawrence M.; and Seymour, Shaun A., to Sperry Rand Corporation. Suburban tractor and controls. 3,715,002, 2-6-73, Cl. 180-82.000.

Halls, Lawrence M., to Sperry Rand Corporation. Converging reel assembly having a tine control mechanism incorporated therein. 3,722,194, 3-27-73, Cl. 56-226.000.

Halls, Peter Seaton: *See—*
Clarke, Eric Fifield Stuart; Cosier, James Edwin Henry; Kolanowski, Jan; Halls, Peter Seaton; and Laidlaw, Alexander Duncan Lindley, 3,715,068.

Hallum, Charles E., to Philco-Ford Corporation. Supersonic power amplifiers. 3,731,699, 5-8-73, Cl. 137-809.000.

Hallum, Charles E., to Philco-Ford Corporation. Engine emission control device. 3,744,251, 7-10-73, Cl. 60-324.000.

Halm Instrument Co., Inc.: *See—*
Vascotto, Mario; Schanck, Donald E.; and Lyon, Floyd A., 3,771,435.

Halm, Roland L.: *See—*
Valicenti, John A.; Halm, Roland L.; and Stark, Forrest O., 3,739,036.

Halmi, Dezsoe, to General Signal Corporation. Flow metering device of the pressure differential producing type. 3,733,901, 5-22-73, Cl. 73-213.000.

Halmi, Dezsoe, to General Signal Corporation. Minimum length high quality differential pressure producing flow meter. 3,733,902, 5-22-73, Cl. 73-213.000.

Halmi, Dezsoe, to General Signal Corporation. Differential pressure producing flow meter. 3,733,903, 5-22-73, Cl. 73-213.000.

Halocarbon Products Corporation: *See—*
Conner, Rex C.; and Ferstandig, Louis L., 3,707,843.
Conner, Rex C.; and Ferstandig, Louis L., 3,722,211.

Halogen Controls, Inc.: *See—*
De Vale, Donald P., 3,724,474.

Halone, William. Golf ball retriever. 3,717,371, 2-20-73, Cl. 294-19.00a.

Halop, Richard, to Timbercraft, Inc., mesne. Device for simulating a hand hewn surface. 3,756,295, 9-4-73, Cl. 144-3.00r.

Halophane Company, Incorporated, mesne: *See—*
Kiefer, Edward J.; and Rogers, Dale W., 3,760,226.

Halpern, Alfred; and Sasmor, Ernest J. Method of achieving an antipeptic action in animals with bi-metallic compounds. 3,715,437, 2-6-73, Cl. 424-317.000.

Halpern, Alfred; and Sasmor, Ernest J., to Synergistics, mesne. Deproteinizing protein-containing solutions. 3,734,734, 5-22-73, Cl. 99-48.000.

Halpern, Alfred; and Sasmor, Ernest J., to Synergistics, Inc. Magnesium phenolic laxative of use compositions and methods. 3,772,442, 11-13-73, Cl. 424-274.000.

Halpern, Howard S., to United Aircraft Corporation. Twinkle effect display system in which information is modulated at a rate within the flicker frequency of the human eye. 3,710,175, 1-9-73, Cl. 315-30.000.

Halpern, Joel: *See—*
Haarhaus, John J.; and McEvilly, Richard J., 3,710,108.

Halpern, John Wolfgang. Fare charging apparatus for public transport systems. 3,748,441, 7-24-73, Cl. 235-61.00r.

Halpern, Otto. 2-Amino-2-(6-methoxy-2-naphthyl)-propionic acid and derivatives thereof. 3,720,708, 3-13-73, Cl. 260-519.000.

Halpern, Samuel E.; Tubis, Manuel; and Endow, John S., to United States of America, Veterans Administration. Renal scanning composition and method using technetium 99m. 3,749,913, 7-31-73, Cl. 250-303.000.

Halpern, William J.; and Damm, Carl A., to United States of America, Navy. Safety pin assembly. 3,738,222, 6-12-73, Cl. 89-1.50d.

Halpert, Robert T.; and Fiore, Peter O., to Texas Instruments, Incorporated. Switch with improved means and method for calibration. 3,720,090, 3-13-73, Cl. 73-4.00r.

Halpin, Donald A.: *See—*
Jones, William E.; Halpin, Donald A.; and Biese, Joseph J., 3,747,673.

Halpin, Paul: *See—*
Cordiano, Sebastiano M.; and Halpin, Paul, 3,730,133.

Halsall, James Richard; and Murrell, Alan Percy Cooper. Control systems. 3,731,279, 5-1-73, Cl. 340-172.500.

Halsall, Vincent Michael: *See—*
Hennen, Roy Erving; and Halsall, Vincent Michael, 3,772,088.

Halsey, Carl C.: *See—*
Sewell, Robert G. S.; and Halsey, Carl C., 3,720,166.

Halsey, George H. Non-destructive testing arrangements-movable reflectors. 3,765,228, 10-16-73, Cl. 73-67.500.

Halsey Harvester & Supply Co., Inc.: *See—*
Tompkins, Neil R., 3,762,139.
Tompkins, Neil R., 3,780,510.

Halsey, Homer P.; and Halase, John F., III. Magnetic leakage field flaw detector utilizing partially overlapping hall probes. 3,710,236, 1-9-73, Cl. 324-37.000.

Halsey, Richard S. Toy glider. 3,729,862, 5-1-73, Cl. 46-79.000.

Halstead, Charles H.: *See—*
Day, Donald L.; Halstead, Charles H.; and Huck, Neil F., 3,773,005.

Halstead, Earle W., to Tru-Pitch, Inc. Ball throwing machine. 3,724,437, 4-3-73, Cl. 124-1.000.

Halstead, Fred E., to Halstead Industries, Inc. Method and apparatus for expanding tubes. 3,754,430, 8-28-73, Cl. 72-370.000.

Halstead Industries, Inc.: *See—*
Halstead, Fred E., 3,754,430.

Halstead, Richard J., to General Electric Company. High voltage rectifier holder. 3,743,761, 7-3-73, Cl. 174-52.00r.

Halt, Ira E.: *See—*
Collins, Neil E.; and Halt, Ira E., 3,769,694.

Halter, Bernard J.: *See—*
Dobransky, Robert P.; Froehlich, Frederick B.; Halter, Bernard J.; and Middleton, William H., 3,727,859.

Halter, Eugen: *See—*
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Halton City State Bank: *See—*
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Halton City State Bank, mesne: *See—*
Campbell, James W., 3,717,265.
Campbell, James W., 3,768,796.
Campbell, James W., 3,777,598.

Haluska, Loren A.; and Ryan, John W., to Dow Chemical Corporation. Removal and recovery of soluble platinum catalysts. 3,745,206, 7-10-73, Cl. 423-22.000.

Halverson, Paul G.; and Iozzi, Anthony J., to Thomas & Betts, Corporation, mesne. Cable stripping tool. 3,710,654, 1-16-73, Cl. 81-9.50r.

Halvin Products Co., Inc.: *See—*
Horvath, Tibor, 3,734,853.

Halvorsen, Elmer F.; and Byrd, Harold R., to Carborundum Company, The. Liquid filter device. 3,757,949, 9-11-73, Cl. 210-122.000.





Halvorsen, Harold W. Magnetic conveyer system. 3,760,245, 9-18-

Hamaguchi, Hiroshi, to Minolta Camera Kabushiki Kaisha. Drier in

Halvorsen, Harold W. Magnetic conveyer system. 3,760,245, 9-18-73, Cl. 318-38.000.

Halvorson, Halvor O.: *See—*
Boler, Leonard J.; Hanssen, Nels S.; Beaulieu, Bryan J.; Cherne, Lloyd G.; and Halvorson, Halvor O., 3,759,495.

Ham, Allan L.: *See—*
Augstein, Joachim; Ham, Allan L.; Leeming, Peter R.; and Snarey, Michael, 3,723,524.

Ham, Donald L.: *See—*
Talmo, Robert Eugene; Ham, Donald L.; and Leyrer, Lowell J., 3,722,264.

Ham, Donald M., to General Electric Company. Zero-reset mechanism for an indicating demand register. 3,721,901, 3-20-73, Cl. 324-103.00r.

Ham, Donald M., to General Electric Company. Indicator drive and positive-zero reset mechanism for a demand meter. 3,763,432, 10-2-73, Cl. 324-103.00r.

Ham, George: *See—*
Komninos, John; Klemchuk, Peter; and Ham, George, 3,716,329.

Ham, George E.: *See—*
Gammill, Benny B.; Ladewig, Glen R.; and Ham, George E., 3,760,006.
Schneider, James G.; Dick, Clarence R.; and Ham, George E., 3,761,522.

Ham, George E.; Alcala, Benjamin V.; and Harris, Guy H., to Dow Chemical Company, The. Process for preparing N-alkylthioalkyl-O-alkylthiocarbamates and N-alkylthioalkyl-O-alkylcarbamates. 3,772,345, 11-13-73, Cl. 260-455.00a.

Ham, Jack Wesley; and Poplin, John Milton, to RCA Corporation. Alignment and test fixture apparatus. 3,714,572, 1-30-73, Cl. 324-158.00f.

Hama Hamaphot, K.G. Hanke & Thomas: *See—*
Hanke, Rudolph, 3,716,444.
Hanke, Rudolph, 3,733,240.

Hama, Kinjiro; Mishima, Nobuo; and Miyamoto, Kazuo, to Sumitomo Chemical Company, Ltd. Monoazo dyestuffs containing a carboxamido-4(3H)-quinazolone group. 3,719,657, 3-6-73, Cl. 260-154.000.

Hama, Shigeru: *See—*
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Takeichi, Kenzo; and Hama, Shigeru, 3,761,704.

Hamac-Hansella GmbH: *See—*
Toss, Franco, 3,710,543.

Hamacher, Wilhelm; and Leinweber, Hubert, to Dunlop Limited. Method for making pneumatic tires. 3,752,720, 8-14-73, Cl. 156-132.000.

Hamachi, Kazuo; Shimanaka, Hiroshi; Kawkkami, Tatsuo; Irie, Toshio; and Komoda, Akira, to Kawasaki Steel Corporation. Method of forming electric insulating coating on the surface of silicon steel sheet with serpentine. 3,765,957, 10-16-73, Cl. 148-113.000.

Hamada, Arinobu; Ohnishi, Yuuji; and Sekiguchi, Tunehisa, to Showa Denko Kabushiki Kaisha. Method for increasing wear resistance of a rubbing surface of aluminum alloy articles. 3,723,209, 3-27-73, Cl. 156-6.000.

Hamada, Hisawaki: *See—*
Sugiura, Shotaro; Ueno, Haruo; Kono, Minoru; and Hamada, Hisawaki, 3,778,424.
Ueno, Haruo; Ishikawa, Hideo; Hamada, Hisawaki; Watanabe, Takashi; and Imamura, Kunio, 3,753,943.

Hamada, Kazuyuki; Yamagishi, Omiki; and Sasguri, Kyoji, to Nippon Kokan Kabushiki Kaisha. Method of drying treatment for coals. 3,755,912, 9-4-73, Cl. 34-10.000.

Hamada, Masa: *See—*
Umezawa, Hamao; Takeuchi, Tomio; Aoyagi, Takaaki; Hamada, Masa; Maeda, Kenji; and Okami, Toshiro, 3,740,319.
Umezawa, Hamao; Kondo, Shinichi; Maeda, Kenji; Takeuchi, Tomio; and Hamada, Masa, 3,743,580.

Hamada, Nagaharu: *See—*
Hayashi, Yukitaka; Yasuda, Isao; and Hamada, Nagaharu, 3,771,155.
Hayashi, Yukitaka; Osawa, Akira; Shimizu, Hakuichi; and Hamada, Nagaharu, 3,778,793.

Hamada, Satoshi: *See—*
Sakai, Hiroshi; Hamada, Satoshi; Yamanaka, Yoshio; Ito, Isao; Izumi, Zenji; Kitagawa, Hideji; Mukoyama, Eiji; Suzuki, Zennosuke; Kato, Tadashi; and Hosaka, Shuntaro, 3,781,248.

Hamada, Takao: *See—*
Maruyama, Shoji; Oida, Etsuo; Hamada, Takao; Asami, Tomiaki; and Iwata, Susumu, 3,740,229.

Hamada, Teruma, to Amada Company Limited. Apparatus for supporting sheet materials in bending presses. 3,715,907, 2-13-73, Cl. 72-419.000.

Hamada, Tsuneakira: *See—*
Fujio, Yoshio; Kitamura, Yoshihiro; Mihara, Koji; and Hamada, Tsuneakira, 3,710,016.

Hamaguchi, Hachiro; Sakashita, Misao; and Koyama, Mamoru, to Tatsuta Electric Wire & Cable Co., Ltd. Solder coated wire. 3,753,278, 8-21-73, Cl. 29-197.000.

Hamaguchi, Hiroshi, to Minolta Camera Kabushiki Kaisha. Drier in copier. 3,740,867, 6-26-73, Cl. 34-95.000.

Hamaguchi, Ichiro: *See—*
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Ono, Shigeo; and Hamaguchi, Ichiro, 3,752,045.

Hamaguchi, Kazuo: *See—*
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Hamai, Tetsuro, to Kabushiki Kaisha Suwa Seikosha. Driving arrangement for an electric watch. 3,742,697, 7-3-73, Cl. 58-23.00a.

Hamal, Heinrich: *See—*
Kuhne, Rudolf; Hamal, Heinrich; and Thilenius, Thilo, 3,725,101.
Kuhne, Rudolf; Hamal, Heinrich; Geissler, Georg; Herbst, Willy; and Ribka, Joachim, 3,759,731.

Hamamatsu TV Co., Ltd.: *See—*
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Hamamoto, Hiroshi: *See—*
Kimura, Takashi; Abe, Yoshihiko; and Hamamoto, Hiroshi, 3,738,830.
Kimura, Takashi; Hamamoto, Hiroshi; Majima, Azusa; Awano, Yoji; Inaguma, Yukio; and Tomatsu, Mitsuo, 3,751,271.

Hamamoto, Kazuko: *See—*
Hara, Takeshi; Niida, Taro; Satoh, Kimio; Kondo, Shinichi; Akita, Eiichi; Sczaki, Masaji; Shimura, Masaru; Nishio, Takako; Hamamoto, Kazuko; and Koike, Makiko, 3,769,403.

Hamamoto, Masao: *See—*
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Hamanaka, Ernest S.: *See—*
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Hamanaka, Ernest S., to Pfizer Inc. 6-(Sulfato acylamino)penicillanic acids and esters thereof. 3,748,323, 7-24-73, Cl. 260-239.100.

Hamanaka, Hiroyoshi, to Toho Kagaku Kogyo Kabushiki Kaisha. Organoboron compound. 3,772,357, 11-13-73, Cl. 260-410.700.

Hamann, Herman C.; and Clemens, David H., to Rohm & Haas Company. Suspension polymerization of uniform polymer beads. 3,728,318, 4-17-73, Cl. 260-86.700.

Hamann, Jurgen: *See—*
Hamann, Klaus; and Hamann, Jurgen, 3,730,309.

Hamann, Karl; Dittmann, Walter; Sunder-Plassmann, Paul; and Gorke, Klaus, to Chemische Werke Huls Aktiengesellschaft. Coating compositions and process for the production thereof. 3,770,688, 11-6-73, Cl. 260-32.80a.

Hamann, Klaus; and Hamann, Jurgen, to Rox-Lederwarenfabriken Hamann KG. Suitcase. 3,730,309, 5-1-73, Cl. 190-49.000.

Hamann, Victoria; and Dawson, Jack C. Theft alarm operable by vibration. 3,721,956, 3-20-73, Cl. 340-65.000.

Hamano, Hisashi, to International Knitlok Corporation. Method for making hook fabric material for fasteners. 3,718,725, 2-27-73, Cl. 264-163.000.

Hamano, Hisashi, to International Knitlok Corporation. Method and apparatus for warp knitting hook and loop fasteners. 3,727,433, 4-17-73, Cl. 66-84.000.

Hamano, Hisashi, to International Knitlok Corporation. Apparatus for the manufacture of hook fabric material for fasteners. 3,770,359, 11-6-73, Cl. 425-305.000.

Hamano, Toyosaburo: *See—*
Murakami, Tadashi; Hiromoto, Takeshi; Soejima, Zenzo; Hamano, Toyosaburo; Hashimoto, Shinsuke; and Shibamoto, Shingo, 3,710,843.
Murakami, Tadashi; Hiromoto, Takeshi; Soejima, Zenzo; Hamano, Toyosaburo; Hashimoto, Shinsuke; and Shibamoto, Shingo, 3,760,867.

Hamaoka, Hidenori: *See—*
Muroi, Tadashi; Oguri, Yoshitaka; and Hamaoka, Hidenori, 3,743,611.

Hamasaki, Masafumi, to Asahi Kasei Kogyo Kabushiki Kaisha. Rider's body protecting device for high speed vehicle operable in a collision thereof. 3,778,083, 12-11-73, Cl. 280-150.0ab.

Hamashima, Yoshio, to Shionogi & Co., Ltd. Novel method for the preparation of 2 alpha, 3 alpha-epithio-alpha-steroids. 3,715,350, 2-6-73, Cl. 260-239.500.

Hamazaki, Masabumi: *See—*
Harada, Tkuo; Hamazaki, Masabumi; and Isawa, Nobuyuki, 3,715,130.

Hamazaki, Yoshiharu: *See—*
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Hamazato, Kazuo: *See—*
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Hamb, Frederick L.: *See—*
Jacoby, Frederick J.; Hamb, Frederick L.; and Trent, Lewis C., 3,725,329.
Jacoby, Frederick J.; Hamb, Frederick L.; and Trent, Lewis C., 3,775,152.
Wilson, John C.; and Hamb, Frederick L., 3,769,264.





Hamb, Frederick L.; and Wilson, John C., to Eastman Kodak Company. Photographic element conprising film forming polymeric support. 3,725,070, 4-3-73, Cl. 96-87.00r.

Hamb, Frederick L., to Eastman Kodak Company. Process for preparing aromatic diester containing copolyesters and products obtained thereby. 3,772,405, 11-13-73, Cl. 260-860.000.

Hamb, Frederick Lynn, to Eastman Kodak Company. 2-Acetal-7-ketal-5-norbornene and 2-acetal-7-ketalnocabocnane compounds. 3,772,337, 11-13-73, Cl. 260-340.900.

Hamblin, Peter Collen; and Pennycook, James, to Esso Research and Engineering Company. Lubricating oil compositions. 3,769,211, 10-30-73, Cl. 252-32.70e.

Hamblin, Robert J. J., to Universal Oil Products Company. Continuous process for scrubbing $H_2S$ from a gas stream and selectively producing elemental sulfur. 3,709,983, 1-9-73, Cl. 423-573.000.

Hamblin, Robert J. J., to Universal Oil Products Company. Continuous process for scrubbing $H_2S$ from a gas stream and selectively producing elemental sulfur using four recycle water streams. 3,715,426, 2-6-73, Cl. 423-234.000.

Hamblin, Robert J.J., to Universal Oil Products Company. Continuous process for scrubbing $H_2S$ from a gas stream and selectively producing elemental sulfur while minimizing thiosulfate make. 3,728,440, 4-17-73, Cl. 423-573.000.

Hamblin, Robert J.J., to Universal Oil Products Company. Removal and recovery of sulfur from a gas stream containing $H_2S$. 3,728,441, 4-17-73, Cl. 423-573.000.

Hamblyn, Stephen Mark; Money, Anthony Patrick; and MacKinnon, Ian Malcolm, to United States Borax & Chemical Corporation. High temperature chemical reaction apparatus. 3,723,290, 3-27-73, Cl. 204-328.000.

Hambock, Heinz: *See—*
Traber, Walter; Hambock, Heinz; and Weiss, Anton Georg, 3,721,699.

Hambrick, Lester N., to Trakwork Equipment Company. Rail pulling apparatus. 3,731,635, 5-8-73, Cl. 104-1.00r.

Hambrick, Lester N., to Trakwork Equipment Company. Rail cropping saw. 3,772,830, 11-20-73, Cl. 51-178.000.

Hamburg, Douglas R., to United States of America, Air Force. Logarithmic IF amplifier. 3,719,831, 3-6-73, Cl. 307-230.000.

Hamburger Flugreugbau GmbH: *See—*
Konecny, Jan; and Haas, Jan Tomas, 3,756,902.

Hamby, Clayton B., Jr., to SCM Corporation. Turpentine fraction purification. 3,778,486, 12-11-73, Cl. 260-675.500.

Hamby Company, The: *See—*
Mills, Franky D., 3,718,343.
Mills, Franky D., 3,743,029.

Hamby, Tyler W., Jr.; and Broussard, Leo P., to Shell Oil Company. Method and apparatus for treating selected reservoir portions. 3,765,484, 10-16-73, Cl. 166-254.000.

Hamdorf, John: *See—*
Allan, Robert William; Haigh, Curzon John; and Hamdorf, John, 3,781,405.

Hamel, David O., to ESB Incorporated. Contact assembly for dry cell battery. 3,715,240, 2-6-73, Cl. 136-134.00p.

Hamel G.m.b.H.: *See—*
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Hamel GmbH Zwirnmaschinen: *See—*
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Greive, Aloys; and Tiemann, Theodor, 3,769,786.

Hamel, Michael T. Security gate apparatus. 3,715,837, 2-13-73, Cl. 49-380.000.

Hamel, Richard G.: *See—*
White, Marvin H.; Hamel, Richard G.; and O'Sullivan, David D., 3,727,209.
White, Marvin H.; O'Sullivan, David D.; and Hamel, Richard G., 3,750,583.
White, Marvin H.; Hamel, Richard G.; and O'Sullivan, David D., 3,764,820.

Hamel, Roger Bernard Jules: *See—*
Le Diberder, Michel Alain Rene; Ferrieu, Gilbert Marie Marcel; and Hamel, Roger Bernard Jules, 3,746,990.

Hamelin, Andre; Paulus, Max; and Guillaud, Charles, to Agence Nationale de Valorisation de la Recherche (ANVAR). Process for flux crystallizing ferrites, spinels and garnets from 1% melt mixture. 3,736,106, 5-29-73, Cl. 23-300.000.

Hamer, Colin A.; and Loro, Alberto, to Microsystems International Limited. Fabrication of beam leads. 3,760,238, 9-18-73, Cl. 317-234.00r.

Hamer, Edward A. G. Tubular osmotic membrane. 3,715,036, 2-6-73, Cl. 210-321.000.

Hamer, Martin, to International Minerals & Chemical Corporation. Quinoyl alkanesulfonates and toluenesulfonates. 3,718,653, 2-27-73, Cl. 260-283.00s.

Hamermesh, Charles L.; and Hirshfield, Stanley M., to North American Rockwell Corporation. Polymerization method polymerization of glycioyl 2,2-dinitro-2-fluoroethoxide with a prepolymerdiol. 3,723,539, 3-27-73, Cl. 260-615.0bf.

Hamersma, J. Warren; and Caserio, Frederick F., Jr., to Atlantic Richfield Company. Chlorofluorination of olefins. 3,712,931, 1-23-73, Cl. 260-653.700.

Hamerstrand, George Earle; and Carr, Merle E., to United States of America, Agriculture. Starch xanthate-polymide-polymine interpolymer paper strength additives. 3,763,060, 10-2-73, Cl. 260-9.000.

Hamill, Robert L.; Haney, Michael E., Jr.; and Hoehn, Marvin M., to Lilly, Eli, and Company. Antibiotic A150A. 3,711,605, 1-16-73, Cl. 424-122.000.

Hamill, Robert L.; Higgens, Calvin E.; and Hoehn, Marvin M., to Lilly, Eli, and Company. Process for producing 7-(5-amino-5-carboxyvaleramido-7-methoxycephalosporanic acid. 3,719,563, 3-6-73, Cl. 195-80.00r.

Hamill, Robert L.; and Hoehn, Marvin M., to Lilly, Eli, and Company. Antifungal antibiotic A-9145 and process for production thereof. 3,758,681, 9-11-73, Cl. 424-118.000.

Hamill, Robert L.; Haney, Michael E., Jr.; and Stark, William Max, to Lilly, Eli, and Company. Antibiotic A477 and process for preparation thereof. 3,780,174, 12-18-73, Cl. 424-118.000.

Hamilton, Alexander: *See—*
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Hamilton Alloy Products, Inc.: *See—*
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Hamilton, Andrew Joseph; and Schneider, George, to Amchem Products, Inc. Highly alkaline titanated cleaner. 3,741,747, 6-26-73, Cl. 148-6.15z.

Hamilton, Billy Harold: *See—*
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Calkin, Edwin Theodore; Hamilton, Billy Harold; and La Porta, Frank Carl, 3,737,755.
Calkin, Edwin Theodore; Hamilton, Billy Harold; and La Porta, Frank Carl, 3,745,444.

Hamilton, Billy Harold; and Wilhart, Helmut, to Bell Telephone Laboratories, Incorporated. DC to DC converter with voltage regulation feedback loop achieving isolation between input and output by time domain techniques. 3,735,235, 5-22-73, Cl. 321-2.000.

Hamilton, Billy Harold; Kunzinger, Frederick Francis; and Schroeder, Robert Edward, to Bell Telephone Laboratories, Incorporated. DC-to-DC converter having soft start and other regulation features employing priority of pulse feedback. 3,769,568, 10-30-73, l. 321-2.000.

Hamilton Brothers Mfg. Co.: *See—*
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Hamilton, Charles E., to Dow Chemical Company, The. Method for disposal of waste activated sludge. 3,724,542, 4-3-73, Cl. 166-246.000.

Hamilton, Charles L. Collapsible fishing net. 3,715,829, 2-13-73, Cl. 43-12.000.

Hamilton, Clark B.: *See—*
Soumerai, Henri; Hoody, Harold W., Jr.; Hamilton, Clark B.; and Blatt, James R., 3,708,959.

Hamilton, Clark B., to Dunham-Bush, Inc. Liquid refrigerant feed control. 3,735,603, 5-29-73, Cl. 62-210.000.

Hamilton Company: *See—*
Grubb, John J.; and Tomei, Keichi, 3,747,842.
Grubb, John J.; and Tomei, Keichi, 3,762,798.
Grubb, John J.; and Tomei, Keichi, 3,768,978.
Grubb, John J.; and Tomei, Keichi, 3,778,165.

Hamilton Cosco, Inc.: *See—*
Lay, Ralph B.; and Olsen, Ogden R., 3,715,142.

Hamilton, Donald N.; and Kennedy, Alexander W., to Diamond Shamrock Corporation. Applying chromic acid-amino acid, or lactam, or amide coating compositions to metals. 3,779,815, 12-18-73, Cl. 148-6.200.

Hamilton, Donald W.: *See—*
Beroza, Morton; McGovern, Terrence P.; Schwartz, Paul H., Jr.; and Hamilton, Donald W., 3,743,719.

Hamilton, Douglas D.: *See—*
Zehavi, Samuel; Boivin, Joseph J. R.; Hamilton, Douglas D.; and Ranzenhofer, Raoul, 3,724,518.

Hamilton, Douglas D.; Boivin, Joseph J. R.; and Benedetto, Domenico, 1/3 to Canadian International Paper Company, 1/3 to Quebec North Shore Paper Company and 1/3 to Abitibi St. Anne Paper Ltd. Modified processor and components. 3,732,904, 5-15-73, Cl. 144-.00d.

Hamilton, Douglas D., 1/3 to Canadian International Paper Company, 1/3 to Quebec North Shore Paper Company and 1/3 to Abitibi St. Anne Paper Ltd. Method and apparatus for felling trees. 3,749,143, 7-31-73, Cl. 144-309.0ac.

Hamilton, Douglas D.; Boivin, Joseph J. R.; and Benedetto, Domenico, to Logging Development Corporation. Tree harvester. 3,763,905, 10-9-73, Cl. 144-3.00d.

Hamilton, Fenton D.: *See—*
Rochester, James R.; Hamilton, Fenton D.; Navarro, Felipe; and McCurdy, Neal R., 3,720,822.

Hamilton, Frank Alexander; and Calcott, Thomas George, to Commonwealth Steel Company Limited. Ball mills with superellipsoidal balls. 3,774,856, 11-27-73, Cl. 241-176.000.

Hamilton, Gordon W.: *See—*
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Hamilton, Gordon W.; Moir, Ralph W.; Osher, John E.; and Post, O'Dell, Leonard L.; and Hamilton, William R., Jr., 3,747,206.

Hamilton, Gordon W.; Moir, Ralph W.; Osher, John E.; and Post, Richard F., to United States of America, Atomic Energy Commission. Energetic neutral particle injection system for controlled fusion reactor. 3,713,967, 1-30-73, Cl. 176-5.000.
Hamilton, Harold E., to Libbey-Owens-Ford Company. Process for bending glass to a relatively sharp angle. 3,762,903, 10-2-73, Cl. 65-107.000.
Hamilton, Harold E.; Bamford, Robert P.; and Pastorek, Paul V., to Libbey-Owens-Ford Company. Process for bending a glass sheet to a relatively sharp angle. 3,762,904, 10-2-73, Cl. 65-107.000.
Hamilton, Harry A.: *See—*
Beuther, Harold; Chun, Sun W.; Hamilton, Harry A.; and McIlvried, Howard G., 3,741,888.
Chun, Sun W.; Hamilton, Harry A.; and Montagna, Angelo A., 3,741,887.
Chun, Sun W.; Hamilton, Harry A.; and Montagna, Angelo A., 3,741,889.
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Chun, Sun W.; Hamilton, Harry A.; and Montagna, Angelo A., 3,759,825.
Hamilton, Harry I., Jr., to North American Philips Corporation. Magnetic latching reed relay. 3,742,404, 6-26-73, Cl. 335-153.000.
Hamilton, Joel A.: *See—*
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Hamilton, Joel A., to Jones, R. A., & Company, Inc. Apparatus including reciprocating web feeding means for a continuously feeding web. 3,733,773, 5-22-73, Cl. 53-184.000.
Hamilton, John Arthur; Hughes, David Robert; and O'Connor, Leo Thomas, Jr., to International Business Machines Corporation. Standard adapter method and apparatus. 3,714,635, 1-30-73, Cl. 340-172.500.
Hamilton, John G.; and Wallace, Joseph E., to International Business Machines Corporation. Low cost hammer unit. 3,747,521, 7-24-73, Cl. 101-93.00c.
Hamilton, John M. Field formation display device. 3,760,520, 9-25-73, Cl. 40-102.000.
Hamilton Kent Manufacturing Company, mesne: *See—*
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Hamilton, Martin W., to Eaton Corporation. Boom angle indication system. 3,710,368, 1-9-73, Cl. 340-267.00c.
Hamilton, Marton Norman. Cutting tool with replaceable teeth. 3,708,842, 1-9-73, Cl. 29-105.00a.
Hamilton, Norman V.; and Lehoux, Ronald, to Hamlou Limited. Air drier and clenaer. 3,771,292, 11-13-73, Cl. 55-345.000.
Hamilton, Peter W., to Procter & Gamble Company, The. Electromagnetic heating and sealing. 3,727,022, 4-10-73, Cl. 219-10.430.
Hamilton, Richard J.; and McGough, Gerald B., to GTE Automatic Electric Laboratories Incorporated. Coin disposal apparatus. 3,759,440, 9-18-73, Cl. 232-57.500.
Hamilton, Richard J.; and Petkewicz, Frank J., to GTE Automatic Electric Laboratories Incorporated. Coin disposal apparatus. 3,759,441, 9-18-73, Cl. 232-57.500.
Hamilton, Robert M.; and Ziccarelli, Salvatore F., to Beatrice Foods Co. Flavor potentiator comprising dried, yeast fermented whey and method of use. 3,720,519, 3-13-73, Cl. 99-140.00n.
Hamilton, Robert M.; and Anderson, Walter R., to Robertshaw Controls Company. Altitude compensating pressure regulator. 3,752,175, 8-14-73, Cl. 137-81.000.
Hamilton, Robert S.; Kingsbury, Albert W.; and Anderson, John R., to Sybron Corporation. Regeneration method for dual beds of ion exchange resins. 3,711,401, 1-16-73, Cl. 210-34.000.
Hamilton, Robert W., to Searle, G. D., & Co. Dialkylaminoalkyl esters of 6-chloro-1,2,3,4-tetra hydro-1-naphthaleneacetic acid and delta 1 analogs. 3,711,533, 1-16-73, Cl. 260-469.000.
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Hamilton Tool Company, The: *See—*
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Dargent, Bruno M., 3,760,584.
Hamilton, William. Storage containers for liquids. 3,719,302, 3-6-73, Cl. 220-9.0lg.
Hamilton, William F.: *See—*
Stommel, Charles J.; and Hamilton, William F., 3,712,155.
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Hamilton, William R.: *See—*
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Hamilton, William W.: *See—*
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Hamilton, Wilson S.: *See—*
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Hamilton-Fey, John, to International Computers Limited. Tape handling apparatus. 3,724,774, 4-3-73, Cl. 242-180.000.
Hamisch, Paul H., Jr.; and Pabodie, Robert M., to Monarch Marking Systems, Inc. Printing apparatus. 3,758,010, 9-11-73, Cl. 226-33.000.
Hamisch, Paul H., Sr., to Monarch Marking System Company, The. Re-price marking method and record member. 3,711,683, 1-16-73, Cl. 235-61.12n.
Hamisch, Paul H., Sr., to Monarch Marking Systems, Inc. Web feeding apparatus. 3,742,851, 7-3-73, Cl. 101-295.000.
Hamisch, Paul H., Sr., to Monarch Marking System Company, The. Re-price marker. 3,762,317, 10-2-73, Cl. 101-68.000.
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Hamkins, Clark J.; and Schaefer, David V., to Tenneco Inc. Hand guard for vertical press tube bender. 3,756,058, 9-4-73, Cl. 72-389.000.
Hamlen, Robert P.; and Jerabek, Elihu C., to General Electric Company. Silver oxide-zinc primary cell with magnesium oxide. 3,754,998, 8-28-73, Cl. 136-102.000.
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Hamlin, Frank B.; and Wells, Willis L., to Hamlin Casting Corporation. Positioning machine. 3,754,356, 8-28-73, Cl. 51-233.000.
Hamlin, Roland: *See—*
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Hamling, Bernard H., to Union Carbide Corporation. Ceramic coated articles. 3,709,717, 1-9-73, Cl. 117-70.00c.
Hamling, Bernard H., to Union Carbide Corporation. Fibrous zirconia cement composites. 3,736,160, 5-29-73, Cl. 106-57.000.
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Hamm, Alton B. Rotary dredge cutter-head having spaced guard members. 3,760,518, 9-25-73, Cl. 37-57.000.
Hamm, John G., III: *See—*
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Hamm, Larry E.; and Morley, Peter I., to Honeywell Information Systems, Inc. Memory system for receiving and transmitting information over a plurality of communication lines. 3,742,466, 6-26-73, Cl. 340-173.0rc.
Hamm, Philip C.: *See—*
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Sirrenberg, Wilhelm; Hammann, Ingeborg; and Homeyer, Bernhard, 3,732,341.
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Hammann, Paul E., to American Air Filter Company, Inc. Door or panel latch assembly. 3,774,946, 11-27-73, Cl. 292-64.000.
Hammar, Erik: *See—*
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Hammarlind, Alf Martin, to Aktiebolaget Atomenergi. Non-consumable electrode configuration having increased arc starting capabilities. 3,715,561, 2-6-73, Cl. 219-145.000.
Hammarlund, Per Erik G.; and Sundberg, Yngve S. Means for inductive stirring. 3,709,476, 1-9-73, Cl. 266-34.00a.
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Hammel, Larry F., to Diagraph-Bradley Industries, Inc. Stencil hand stamp with fluid-containing handle and torsion-spring supports. 3,719,140, 3-6-73, Cl. 101-125.000.
Hammelmann, Paul. Apparatus for treating continuous surfaces. 3,709,194, 1-9-73, Cl. 118-50.100.
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Hammelmann, Paul, Maschinenfabrik: *See—*
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Hammer, Alfred Paul; Entz, Alexis Charles; and Levaire, Claude. Superconductor structure, and method of making the same. 3,715,451, 2-6-73, Cl. 174-15.00c.
Hammer, Clarence Frederick; and Keller, Philip Joseph, to Du Pont de Nemours, E. I., and Company. Stable aqueous dispersions of ethylene-aminoalkyl acrylate copolymers. 3,711,435, 1-16-73, Cl. 260-29.6hn.
Hammer, Clarence Frederick, to Du Pont de Nemours, E. I., and Company. Ethylene/carbon monoxide polymer compositions. 3,780,140, 12-18-73, Cl. 260-884.000.
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Hammer, Ivan E.; and Hammer, Waldemar. Power driven shaper apparatus. 3,710,833, 1-16-73, Cl. 144-134.00a.
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Hammes, Josef, to Lowell Manufacturing Company. Protective speaker back-can. 3,746,125, 7-17-73, Cl. 181-31.00b.
Hammes, Josef J., to Lowell Manufacturing Company. High security loud speaker baffle. 3,731,760, 5-8-73, Cl. 181-31.00b.
Hammes, Paul A.: *See—*
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Morse, Lewis D.; and Hammes, Paul A., 3,734,742.
Hammes, Paul A.; Everson, Charles W.; and Danner, Wilson E., to Merck & Co., Inc. Process for preparing cured sausages. 3,738,842, 6-12-73, Cl. 99-109.000.
Hammes, Paul A.; and Boroshok, Melvin J., to Merck & Co., Inc. Method of coating food particles with a blend of vitamins A and C. 3,767,825, 10-23-73, Cl. 426-290.000.
Hammill, William R., to CCI Aerospace Corporation. Convergent-divergent ejector exhaust nozzle. 3,722,797, 3-27-73, Cl. 239-264.170.
Hammitt, Andrew G., to TRW Inc. Variable speed conveyor. 3,743,077, 7-3-73, Cl. 198-110.000.
Hammon, Donald P.; and Hammon, Edwin J., to Industrial Concepts Corporation. Oil well scraping device. 3,757,859, 9-11-73, Cl. 166-173.000.
Hammon, Edwin J.: *See—*
Hammon, Donald P.; and Hammon, Edwin J., 3,757,859.
Hammon, Fritz: *See—*
Schnell, Georg; Stritzinger, Heinz; Vaeth, Guenter; Grau, Werner; Hammon, Fritz; and Hopp, Manfred, 3,734,772.
Hammond, Colin Edward. Cleaning phonograph records. 3,747,942, 7-24-73, Cl. 274-47.000.
Hammond Corporation: *See—*
Mathias, Robert G., 3,737,555.
Petrie, Adelore F., 3,780,203.
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Schrecongost, Ray B., 3,766,305.
Hammond Corporation, mesne: *See—*
Millet, David; and Schrecongost, Ray B., 3,755,609.
Hammond, Daniel D., to Intermountain Aviation, Inc. Automatically unloading cargo enclosure. 3,765,711, 10-16-73, Cl. 294-77.000.
Hammond, Donald L.: *See—*
Burgwald, Glenn M.; Kruger, William P.; and Hammond, Donald L., 3,771,066.
Hammond, Donald L.; Kusters, John A.; and Wilson, David A., to Hewlett-Packard Company. Electronically tunable acousto-optic filter having selected crystal orientation. 3,756,689, 9-4-73, Cl. 350-149.000.
Hammond, Donald L.; Knight, Larry V.; Yoshida, Henry; and Peickii, Vasalie L.; deceased (by Peickii, Jeanette C.; executrix), to Hewlett-Packard Company. Crystal monochromator and method of fabricating a diffraction crystal employed therein. 3,772,522, 11-3-73, Cl. 250-503.000.
Hammond, Donald L.; and Fellner, Hugo R., to Hewlett-Packard Company. Bent diffraction crystal with geometrical aberration compensation. 3,777,156, 12-4-73, Cl. 250-280.000.
Hammond, Donald L.; and Tyler, Charles E., to Hewlett-Packard Company. Parallel entry detector system. 3,777,159, 12-4-73, Cl. 250-305.000.
Hammond, Francis H.: *See—*
Proell, Wayne A.; Selin, Clifford E.; Holbrook, Stanford T.; and Hammond, Francis H., 3,709,931.
Hammond, Fred H., Jr., to Kendall Company, The. Process for the electrodeposition of polymers. 3,709,808, 1-9-73, Cl. 204-181.000.
Hammond, Fred H., Jr., to Kendall Company, The. Countercurrent electrodeposition process. 3,753,885, 8-21-73, Cl. 204-181.000.
Hammond, Harry H., to Hansen Manufacturing Company, The. Coupling assembly. 3,729,023, 4-24-73, Cl. 137-614.030.
Hammond, Harry H., to Hansen Manufacturing Company, The. Fuse assembly. 3,756,272, 9-4-73, Cl. 137-498.000.
Hammond, Jack: *See—*
Gass, Edward W.; Hammond, Jack; Lorenzino, Paul; and Thomas, Joseph E., 3,748,446.
Krugman, Saul; Giles, Joan P.; and Hammond, Jack, 3,735,004.



Hammond, Jack; and Boyd, Charles L., to Halliburton Company. Hampl, Edward F., Jr., to Minnesota Mining and Manufacturing

Hammond, Jack; and Boyd, Charles L., to Halliburton Company. Viscosity compensated dual rotor turbine flowmeter. 3,710,622, 1-16-73, Cl. 73-231.00r.
Hammond, Jack B.: *See—*
Chandler, Ronald W.; and Hammond, Jack B., 3,722,276.
Hammond, James C.; Jamerson, Charles D., Jr.; and Kiefer, Michael E., to Trienco, Inc. Apparatus for generating, purifying and delivering hydrogen for analyzers and the like. 3,761,382, 9-25-73, Cl. 204-266.000.
Hammond, Joseph P.: *See—*
Binkley, Norman C.; and Hammond, Joseph P., 3,707,763.
Hammond, Joseph P., to United States of America, Atomic Energy Commission. Method for diffusion bonding refractory metals and alloys. 3,714,702, 2-6-73, Cl. 29-494.000.
Hammond, Michael J.; and Herner, Raymond F., to Sylvania Electric Products, Inc. Rare earth oxide phosphors having inert, non-luminescent layer thereon. 3,740,250, 6-19-73, Cl. 117-33.50c.
Hammond, Michael R.: *See—*
Pfaffmann, George D.; and Hammond, Michael R., 3,737,612.
Hammond, Myers G., to Du Pont de Nemours, E. I., and Company. High-strength acid containing $H_2O_2$ to scrub $SO_2$. 3,760,061, 9-18-73, Cl. 423-242.000.
Hammond, Oswyn K., to Scott Paper Company. Diazo lithographic composition and article. 3,725,069, 4-3-73, Cl. 96-75.000.
Hammond, Peter George Henry, to Bunker-Ramo Corporation, The. Electrical two-part connectors. 3,733,577, 5-15-73, Cl. 339-91.00r.
Hammond, Peter W.: *See—*
Mokrytzki, Boris; and Hammond, Peter W., 3,781,614.
Mokrytzki, Boris; and Hammond, Peter W., 3,781,616.
Hammond, Peter W., to Westinghouse Air Brake Company. Apparatus for monitoring speed utilizing a tuned circuit whose phase changes in proportional to speed. 3,716,787, 2-13-73, Cl. 324-173.000.
Hammond, Philip G., to Kimberly-Clark Corporation. Method and carton for imparting fragrance to carton contents. 3,711,024, 1-16-73, Cl. 239-55.000.
Hammond, Raymond F.: *See—*
Edge, Dick O.; Hammond, Raymond F.; and Sutton, Robert S., 3,716,128.
Hammond, Roland P.; and Michel, John W., to United States of America, Atomic Energy Commission. Irrigation system. 3,736,755, 6-5-73, Cl. 61-12.000.
Hammontre, Michael P.: *See—*
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Hamner, Glen P.: *See—*
Kimberlin, Charles N., Jr.; and Hamner, Glen P., 3,726,791.
Hamner, Glen P.; and Mason, Ralph B., to Esso Research and Engineering Company. Cracking hydrocarbon residua to coke and aromatic gas oil. 3,725,242, 4-3-73, Cl. 208-46.000.
Hamner, Glen P.; and Mason, Ralph B., to Esso Research and Engineering Company. Hydrocracking and hydrodenitrogenation of shale oil. 3,778,365, 12-11-73, Cl. 208-111.000.
Hamner, Glen Porter: *See—*
Cull, Neville Leverne; Gladrow, Elroy Merle; Mason, Ralph Burgess; and Hamner, Glen Porter, 3,729,515.
Hamnes, Raymond C. Granulate spreader apparatus. 3,756,509, 9-4-73, Cl. 239-675.000.
Hamnett, Jack Smith: *See—*
Muir, Eric Thomas; Hamnett, Jack Smith; and Majury, Ronald Alfred, 3,760,657.
Hamon, Bernard; and Montel, Jean-Pierre, to Lignes Telegraphiques et Telephoniques. Noise figure meter. 3,723,874, 3-27-73, Cl. 324-158.00t.
Hamon, Emile Francois Joseph, to Etat Francais represente par le Ministre d'Etat Charge de la Defense Nationale-Delegation Ministerielle pour l'Armement. Electromagnetic stepping motor. 3,760,208, 9-18-73, Cl. 310-49.000.
Hamon, Maurice, to Societe Hamon Sobelco S.A. Drift eliminators for atomospheric cooling tower. 3,731,461, 5-8-73, Cl. 55-222.000.
Hamon, Richard Eugene, to General Electric Company. Method of providing a lead wire seal. 3,708,272, 1-2-73, Cl. 65-59.000.
Hamond, Arthur H., Jr.: *See—*
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Hampartzoumain, Robert: *See—*
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Hampden Engineering Corporation: *See—*
Flynn, Daniel M.; and Lunden, Walter W., 3,772,483.
Hampel, Gerald, to Optipatent AG. Making epoxy spectacle frames using excess 1-cyclohexylamino-3-aminopropane curing agent. 3,708,567, 1-2-73, Cl. 264-331.000.
Hampel, Heinz, to Braun, B., Melsungen Aktiengesellschaft. Sterile package containing a syringe cylinder of a disposable injection syringe having a piston rod detachable from the piston. 3,754,644, 8-28-73, Cl. 206-63.20r.
Hampin, Karl Rune: *See—*
Borup, Alf Lennart; and Hampin, Karl Rune, 3,749,310.
Hampl, Edward F., Jr., to Minnesota Mining and Manufacturing Company. Pressure-contact structure for thermoelectric generators. 3,714,539, 1-30-73, Cl. 321-1.500.
Hampl, Franz, to Jaeger, Erich. Dynamo ergometer. 3,765,245, 10-16-73, Cl. 73-379.000.
Hampson, Jack E., to Atco Industries Ltd. Self-packaging portable housing structure. 3,707,811, 1-2-73, Cl. 52-23.000.
Hampson Jig, Tool and Automation Limited: *See—*
Hayward, Walter Francis, 3,765,304.
Hampson, Peter Samuel: *See—*
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Hampton, Edward L.: *See—*
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Hampton, Flournoy W. Hydraulic buffer device. 3,768,793, 10-30-73, Cl. 267-8.000.
Hampton, Joe B., to Phillips Petroleum Company. Catalytic cracking process. 3,758,400, 9-11-73, Cl. 208-72.000.
Hampton Mills, Inc.: *See—*
Stahl, Fred F., Jr.; Eidson, J. Marvin; and Plemons, G. Dale, 3,744,536.
Hampton, Quentin L., to FMC Corporation. Method and apparatus for treating sewage. 3,709,792, 1-9-73, Cl. 210-7.000.
Hampton, Quentin L. Method and apparatus for filtering solids. 3,717,251, 2-20-73, Cl. 210-80.000.
Hampton, Quentin L., to FMC Corporation. Circular clarifier mechanism. 3,722,698, 3-27-73, Cl. 210-525.000.
Hampton, Robert K. Incinerator stoker siftings conveyor mechanism. 3,771,470, 11-13-73, Cl. 110-8.00r.
Hampton, Thomas L.: *See—*
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Hamren, Fred W., Jr.: *See—*
Hills, Richard E.; Adams, John H.; Anderson, Lloyd E., Jr.; Bliss, Woodrow E., Jr.; Hamren, Fred W., Jr.; Honath, Harry F.; and Murphy, John C., 3,710,582.
Hamren, Glen C. Flip type casting float. 3,760,527, 9-25-73, Cl. 43-44.880.
Hamri, Bernard Andre Bel. Apparatus to obtain fresh water from moisture containing air. 3,748,867, 7-31-73, Cl. 62-271.000.
Hamrick, James Saunders, to Mc Murtrie & Hamrick Enterprises. Hair piece liner. 3,710,452, 1-16-73, Cl. 34-95.000.
Hamrin, Bjorn Staffan Artur, to Aktiebolaget Forenade Superfosfatfabriker. Gel capsules for small units and methods of encapsulating such units. 3,734,987, 5-22-73, Cl. 264-54.000.
Hamrock, Edward M.: *See—*
Jensen, Jens S.; Hamrock, Edward M.; and Lookabaugh, Clair E., 3,750,894.
Hamsher, James F.; and Tate, Groton Bryce E., to Pfizer Inc. Chemically modified proteolytic enzymes. 3,770,587, 11-6-73, Cl. 195-63.000.
Hamshere, Wilfred Charles; and Atkinson, Thomas William Lancaster, to Marchon Products Limited. Method for sampling plant fluids. 3,712,795, 1-23-73, Cl. 23-230.00r.
Hamton Engineering Associates Inc.: *See—*
Swanson, Allen K., 3,770,979.
Han, Wyong S.: *See—*
Winters, Michael E.; and Han, Wyong S., 3,715,266.
Hanaas, Torgeir, to Institutet for Mikrovagsteknik. Device for an accurate adjustment of two apparatus parts displaceable relatively to each other. 3,710,686, 1-16-73, Cl. 91-3.000.
Hanabusa, Kanehisa: *See—*
Kitagawa, Chojiro; Fukuoka, Ichiro; Kadawaki, Takashi; Kimura, Shoji; Nishimura, Takehiko; and Hanabusa, Kanehisa, 3,714,296.
Hanada, Hiroshi; Kitajima, Nobuo; and Masaki, Tatsuo, to Canon Kabushiki Kaisha. Electrophotographic photosensitive member. 3,769,010, 10-30-73, Cl. 96-1.500.
Hanada, Keiichi; Saito, Kimihiko; and Iwase, Akikazu, to Meidensha Electric Mfg. Co. Ltd. Fluidic counter device. 3,739,979, 6-19-73, Cl. 235-201.0pf.
Hanaeus, Karl Sune Ingemar: *See—*
Rabe, Karl Lars Gunnar; and Hanaeus, Karl Sune Ingemar, 3,750,449.
Hanagarth, Wolfgang; and Schafer, Richard, to Klein Schanzlin & Becker Aktiengesellschaft. Housing for centrifugal pumps. 3,738,769, 6-12-73, Cl. 415-110.000.
Hanahan, Frank T.; and Tortorella, John H. Foldable container, litter bag, dust pan, brush and blank therefor. 3,765,044, 10-16-73, Cl. 15-104.800.
Hanahara, Toru: *See—*
Suemasa, Hideo; Honda, Kazuyoshi; Yoda, Kenichi; and Hanahara, Toru, 3,737,732.
Hanak, Joseph John; and Russell, John Patrick, to RCA Corporation. Sputter-etching technique for recording holograms or other fine-detail relief patterns in hard durable materials. 3,733,258, 5-15-73, Cl. 204-192.000.
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Abe, Jinnosuke; Watanabe, Tetsuo; Yamaguchi, Tsutomo; Fujii, Tadashiro; Matsumoto, Kunio; Shibuya, Yuzo; and Hanamitsu, Kazumi, 3,763,000.
Hanaoka, Masafumi: *See—*
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Hanaya, Morimasa, to Toyo Pulp Co., Ltd. Method and apparatus for washing wood chips. 3,708,063, 1-2-73, Cl. 209-3.000.
Hanazono, Masanobu; and Asai, Osamu, to Hitachi, Ltd. Magnetic head having a combination core formed from a pretreated magnetic layer. 3,781,476, 12-25-73, Cl. 179-100.20c.
Hanback, Francis J.; and Robinson, Norman F., to McDonnell Douglas Corporation. Lip seal fitting. 3,730,563, 5-1-73, Cl. 285-114.000.
Hancart, Aime Michel: *See—*
Tresch, Charles Henri; and Hancart, Aime Michel, 3,744,599.
Hancart, Jules; and Houbart, Ivan, to Centre National de Recherches Metallurgiques Centrum Voor Research in de Metallurgie. Preparation of pig iron samples for spectral analysis. 3,779,646, 12-18-73, Cl. 356-74.000.
Hance, Harold V.; and McCord, Henry L., to Hughes Aircraft Company. Cross-correlator. 3,740,747, 6-19-73, Cl. 343-5.0mm.
Hancheti, Leland J., Jr. Programmable electric locking system. 3,751,718, 8-7-73, Cl. 317-137.000.
Hanchett, George Draper: *See—*
Sterner, John Franklin; and Hanchett, George Draper, 3,723,905.
Hanchett, George Draper, to RCA Corporation. Switching circuits. 3,727,080, 4-10-73, Cl. 307-252.00b.
Hanchett, Loren B., to MWA Company. Segmental grinding wheel. 3,754,355, 8-28-73, Cl. 51-209.00r.
Hancock, Albert S., Jr.: *See—*
Dugan, James G.; Hancock, Albert S., Jr.; Hausske, Gene W.; Huston, Kenneth G.; Rosenberg, Bernard L.; and Smith, Shirley M., 3,747,568.
Hancock, Bruce Jay; Johnson, Don E.; and Merkley, Zane W., to Aqualectra. Method and system for conversion of water and development of power. 3,754,147, 8-21-73, Cl. 290-53.000.
Hancock, Charles L., to Westinghouse Electric Corporation. Overflow float arrangement for dishwasher. 3,721,783, 3-20-73, Cl. 200-84.00r.
Hancock, Charles L., to Westinghouse Electric Corporation. Latch arrangement for appliance. 3,746,382, 7-17-73, Cl. 292-241.000.
Hancock, Earl A.; and MacPherson, James R. Rocket-powered signaling device. 3,749,019, 7-31-73, Cl. 102-34-400.
Hancock Industries, Inc.: *See—*
Heesch, Max O., 3,733,748.
Hancock, John, Furniture Manufacturing Co.: *See—*
Hermanson, Lloyd H., 3,737,926.
Hancock Laboratories Incorporated: *See—*
Hancock, Warren D., 3,755,823.
Hancock, Melburn B., to AMF Incorporated. Continuous brew fermentation. 3,716,375, 2-13-73, Cl. 99-90.0cb.
Hancock, Robert J., to International Business Machines Corporation. Apparatus and method for establishing exact record reorientation after error condition in a data storage subsystem. 3,725,861, 4-3-73, Cl. 340-146.10f.
Hancock, Warren D., to Hancock Laboratories Incorporated. Flexible stent for heart valve. 3,755,823, 9-4-73, Cl. 3-1.000.
Hancovsky, John P., to Hi-Ho Products, Inc. Sectional creative toy. 3,780,469, 12-25-73, Cl. 46-25.000.
Hancox, Roger John, to Accles & Shelvoke Limited. Captive bolt pistol for animal stunning. 3,727,337, 4-17-73, Cl. 42-1.00m.
Hancox, Roger John, to Accles & Shelvoke Limited. Captive bolt firearm and magazine therefor. 3,755,949, 9-4-73, Cl. 42-39.500.
Hand, Albert E. Sled ski. 3,738,676, 6-12-73, Cl. 280-22.000.
Hand Chemical Industries Limited: *See—*
Hand, Hugh T., 3,744,419.
Hand, Edwin C., to Parr, Inc. Pressure sensitive cold sealing material. 3,767,608, 10-23-73, Cl. 260-28.50r.
Hand, Hi: *See—*
Hand, Hi; and Serritella, Angela C. (said Serritella assor. to), 3,746,007.
Hand, Hi; and Serritella, Angela C., said Serritella assor. to Hand, Hi. Sleeping garment. 3,746,007, 7-17-73, Cl. 128-455.000.
Hand, Hi. Open-ended girdle. 3,756,247, 9-4-73, Cl. 128-518.000.
Hand, Hugh T., to Hand Chemical Industries Limited. Pyrotechnic device. 3,744,419, 7-10-73, Cl. 102-37.700.
Hand, John James: *See—*
Spicer, Larry Dean; and Hand, John James, 3,708,490.
Handa, Itsuo. Measuring apparatus for eight millimeter film editing machine. 3,717,406, 2-20-73, Cl. 352-172.000.
Handa, Noritoshi: *See—*
Nakanishi, Keiichi; and Handa, Noritoshi, 3,748,056.
Handa, Noritoshi, to Nissan Motor Company Limited. Gas turbine engine combustor. 3,754,393, 8-28-73, Cl. 60-39.520.
Handel, Hubert: *See—*
Angelini, Antonio; Handel, Hubert; Landwehr, Heinz; Karlheinz, Hammelmann; Schoning, Josef; Schwenk, Bernd; and Huck, Gerhard, 3,751,336.
Sturmer, Walter; and Handel, Hubert, 3,751,334.
Handel, Siegfried K. Rotary switch for controlling linear motion. 3,766,338, 10-16-73, Cl. 200-11.00r.
Handelman, Adele: *See—*
Ziener, Otto, 3,734,000.
Handelman, Philip. Position indicating temporary buoy consisting of a telescopic collapsible pole. 3,760,441, 9-25-73, Cl. 9-8.00r.
Handgards, Inc.: *See—*
Blatz, Robert A., 3,759,370.
Handl, Ernesto G. Element for rapid joint for tubular fishing lines. 3,722,130, 3-27-73, Cl. 43-44.980.
Handleman, Avron R., to Monsanto Company. Portable system for the preparation of slurries and solutions. 3,777,775, 12-11-73, Cl. 137-268.000.
Handler, Elliot: *See—*
Baynes, William R.; and Handler, Elliot, 3,734,404.
Handler, George S.; Foote, Kenneth R.; and Burford, Milton K., to United States of America, Navy. Target marker warhead. 3,712,228, 1-23-73, Cl. 102-60.000.
Handler, George S.; and Mamula, Michael, to United States of America, Navy. Decoy flare. 3,766,858, 10-23-73, Cl. 102-37.800.
Handler, Irving: *See—*
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Handley, John: *See—*
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Handley, John, to United Biscuits Limited. Extruding circular layers. 3,730,135, 5-1-73, Cl. 118-16.000.
Handley, John V.: *See—*
Dyer, Kermit W.; Handley, John V.; and Smith, Judson D., 3,741,619.
Handley, Norman C. Replaceable towel rod. 3,738,498, 6-12-73, Cl. 211-105.100.
Handotai Kenkyu Shinkokai: *See—*
Nishizawa, Junichi; and Takusagawa, Masahito, 3,762,367.
Handrick, G. Richard: *See—*
Razdan, Raj Kumar; and Handrick, G. Richard, 3,734,930.
Handschuch, Karl; and Schumann, Fritz, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Method and arrangement for supplying sliver to a fine spinning machine. 3,716,979, 2-20-73, Cl. 57-34.00r.
Handte, Heinz: *See—*
Sennewald, Kurt; Erpenbach, Heinz; Handte, Heinz; Kohl, Georg; and Lork, Winfried, 3,781,193.
Handtmann, Albert, Metallgusswerk, Armaturen- und Fleischereimaschinenfabrik, Firma: *See—*
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Handwerk, Richard Herman: *See—*
Calvert, William Lemont; and Handwerk, Richard Herman, 3,779,712.
Handy, Harry C. Set-up tool. 3,775,857, 12-4-73, Cl. 33-185.00r.
Handzlik, Anthony T., to Vitter Manufacturing Corporation. Sealing means for an aperture in a panel or the like. 3,779,585, 12-18-73, Cl. 285-158.000.
Haneda, Katsuji: *See—*
Komatsu, Kenichi; Saijo, Akira; Haneda, Katsuji; Kodaira, Ryoji; and Ohsawa, Hiroshi, 3,730,836.
Hanel, Gottfried: *See—*
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Hanel, Phil G.; and Becker, George A., to Dow Chemical Company, The. Vinylidene chloride-vinyl chloride copolymer compositions for use as an adhesive seam in fabric construction. 3,762,979, 10-2-73, Cl. 156-333.000.
Hanemann, Walter, to Feldmuble Aktiengesellschaft. Method and apparatus for the shrink-wrapping of packages. 3,739,544, 6-19-73, Cl. 53-24.000.
Hanenkamp, Horst; and Wolken-Mohlmann, Helmut, to Olympia Werke AG. Arrangement for assembling two groups of components in a predetermined relative position. 3,735,304, 5-22-73, Cl. 335-278.000.
Haner, Lambert; and Gill, John Allen, to Avtron Manufacturing Inc. Reversible rate multiplier. 3,764,784, 10-9-73, Cl. 235-150.300.
Hanes, Clifford D. Orthopedic bolster pillow. 3,719,185, 3-6-73, Cl. 128-69.000.
Hanes Corporation: *See—*
Bell, Cecil R.; Swaim, Jessie E.; Gilgo, Horace Paul; Rogers, Robert C.; Sizemore, Walter Ray; and Orr, Samuel M., Jr., 3,707,825.
Hanes, James Gordon, Jr.; King, James Frank; Lathery, Willie M.; Beamon, Howard L.; and Newlen, Kenneth W. Apparatus for producing endless bands. 3,780,679, 12-25-73, Cl. 112-121.270.
Hanes, James W. E.; Rimmer, Michael J.; Weber, Ronald A.; and Hintzen, Walter J. Method and apparatus for reestablishing underwater guide lines. 3,709,291, 1-9-73, Cl. 166-.500.
Hanes, James W. E.; Larralde, Edward; and Rimmer, Michael J., to Vetco Offshore Industries, Inc. Apparatus for remotely connecting



and disconnecting pipe lines to and from a submerged wellhead. Hanke, Edward Herman, to American Can Company. Easy opening

and disconnecting pipe lines to and from a submerged wellhead. 3,710,859, 1s16-73, Cl. 166-.600.
Hanes, James W. E.; and Larralde, Edward, to Vetco Offshore Industries, Inc. Motion compensating apparatus. 3,714,995, 2-6-73, Cl. 175-5.000.
Hanes, James W. E., to Vetco Offshore Industries, Inc. Double sealed tubular connector apparatus. 3,719,070, 3-6-73, Cl. 73-37.000.
Hanes, William C.: *See—*
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Haney, Eugene E., to Armco Steel Corporation. Apparatus for coating conductive articles. 3,728,247, 4-17-73, Cl. 204-300.000.
Haney, Jerome V.; and Hargis, John C., to Haney Recreational Equipment Company. Basketball training aid. 3,717,342, 2-20-73, Cl. 273-1.50a.
Haney, John Edwin, to Societe d'Assistance Technique pour Produits Nestle S.A. Application of compressive and frictional forces in preparing dutched cocoa. 3,754,928, 8-28-73, Cl. 99-26.000.
Haney, Martha L. Wheel chair. 3,719,390, 3-6-73, Cl. 297-6.000.
Haney, Michael E., Jr.: *See—*
Hamill, Robert L.; Haney, Michael E., Jr.; and Hoehn, Marvin M., 3,711,605.
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Haney, Jerome V.; and Hargis, John C., 3,717,342.
Haney, Robert L. Formation of well packers. 3,776,561, 12-4-73, Cl. 277-116.800.
Haney, Thomas A.: *See—*
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Rajamani, Puthucode N.; Stern, Howard S.; Murty, Dasika R. K.; and Haney, Thomas A., 3,740,418.
Hanford, George W.: *See—*
Falcone, Joseph R.; Falcone, Anthony, Jr.; and Hanford, George W., 3,726,430.
Hanford, George W. Syringe. 3,718,139, 2-27-73, Cl. 128-235.000.
Hanford, William E., Jr.: *See—*
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Hanft, Charles, to Schaefer, F. & M., Brewing Co., The. Automatic program generator and signaller system. 3,718,049, 2-27-73, Cl. 74-89.000.
Hanft, Herbert, to Westinghouse Electric Corporation. Inter-resonator coupling. 3,719,909, 3-6-73, Cl. 333-73.00c.
Hanft, Herbert, to Westinghouse Electric Corporation. Variable output resonator coupling loop having shorted turn mounted about flexible connecting conductor. 3,733,566, 5-15-73, Cl. 333-82.00b.
Hanggi, Peter; and Budmiger, Hermann. Process including the bristles for the production of brushes or a part thereof. 3,781,402, 12-25-73, Cl. 264-243.000.
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Hanig, Siegfried; and Mienes, Karl, to Stahlwerke Peine-Salzgitter AG. Railroad track bed. 3,756,507, 9-4-73, Cl. 238-2.000.
Haning, James O.; Kool, Bram; Moritz, Jules G.; and Mizrahi, Robert, to Microform Data Systems, Inc. Film strip handling apparatus and method. 3,743,400, 7-3-73, Cl. 353-26.000.
Hanitsch, Rolf: *See—*
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Hank, Aaron J., Jr. Device for attaching a hook to a spaced object. 3,733,097, 5-15-73, Cl. 294-19.00r.
Hank, Dietrich, to VEB Polygraph Leipzig. Arrangement for winding of webs. 3,730,450, 5-1-73, Cl. 242-66.000.
Hankammer, Heinz, to Chemie Brita Geraete Ing. Karl Itter. Water treatment device. 3,747,767, 7-24-73, Cl. 210-282.000.
Hanke, August M., to United States of America, Navy. Folded tensioned highline system. 3,713,548, 1-30-73, Cl. 214-13.000.
Hanke, David E., to Kimberly-Clark Corporation. Water-dispersible insertion devices for tampons and the like. 3,724,462, 4-3-73, Cl. 128-263.000.
Hanke, David E., to Kimberly-Clark Corporation. Self-lubricating compound for use in hygenic and medical applications, and coated tampons and suppositories made therefrom. 3,756,238, 9-4-73, Cl. 128-270.000.
Hanke, David E., to Kimberly-Clark Corporation. Tampon with multiple strings. 3,762,413, 10-2-73, Cl. 128-285.000.
Hanke, David E., to Kimberly-Clark Corporation. Self-lubricating compound for use in hygienic and medical applications and suppositories made therefrom. 3,776,001, 12-4-73, Cl. 128-271.000.
Hanke, Edward Herman, to American Can Company. Easy opening container. 3,715,051, 2-6-73, Cl. 220-54.000.
Hanke, Hans: *See—*.
Forster, Hans-Joachim M.; Zaiser, Wolfgang; Hanke, Hans; and Bultmann, Friedrich, 3,774,734.
Peter, Wolfgang; and Hanke, Hans, 3,716,995.
Hanke, Hans; and Bultmann, Friedrich, to Daimler-Benz Aktiengesellschaft. Installation for the unloading of shaft seals in hydrodynamic brakes for vehicles, especially for motor vehicles. 3,744,598, 7-10-73, Cl. 188-296.000.
Hanke, Hans; and Peter, Wolfgang, to Daimler-Benz Aktiengesellschaft. Hydrodynamic retarder for vehicles. 3,774,735, 11-27-73, Cl. 188-296.000.
Hanke, Peter E.: *See—*
Eberly, David H., Jr.; and Hanke, Peter E., 3,778,598.
Hanke, Rudolph, to Hama Hamaphot, K.G. Hanke & Thomas. Apparatus for use in splicing together the ends of two strips. 3,716,444, 2-13-73, Cl. 156-505.000.
Hanke, Rudolph, to Hama Hamaphot, K.G. Hanke & Thomas. Adhesive splicing element and method of splicing. 3,733,240, 5-15-73, Cl. 161-102.000.
Hankey, James J., to Damon Corporation. Apparatus for balancing a bucket centrifuge rotor. 3,762,635, 10-2-73, Cl. 233-23.00a.
Hankey, Robert E.; Arrizabalaga, Martin J.; Olejkowski, Edwin; Pouch, Cyrillo; and Snyder, Charles H., to Technitrol, Inc. Electrical component and method of making the same. 3,772,773, 11-20-73, Cl. 29-602.000.
Hankins, Charles William. Flap-opening apparatus. 3,747,297, 7-24-73, Cl. 53-381.00r.
Hankins, Harold Charles Arthur; Torsun, Imad Shakir; and Hughes, Gordon, to International Computers Limited. Information storage arrangements. 3,763,486, 10-2-73, Cl. 340-324.00a.
Hankins, Harold Charles Arthur; and Torsun, Imad Shakir, to International Computers, Limited. Dark trace cathode ray tube erase system. 3,777,213, 12-4-73, Cl. 315-323.000.
Hankins, Thomas E.: *See—*
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Hanko, Jimmy J., to Weyerhaeuser Company. Display carton with dust flap locking construction. 3,713,530, 1-30-73, Cl. 206-45.140.
Hanks, Fletcher. Method for removing meat from the shells of bivale mollusks. 3,722,035, 3-27-73, Cl. 17-48.000.
Hanks, James V.; and Dahl, Eugene L., to Horton Manufacturing Company, Inc. Single position fluid operated clutch. 3,760,916, 9-25-73, Cl. 192-67.00r.
Hanks, James V., to Horton Manufacturing Company, Inc. Internal expanding fluid operated clutch for fans. 3,762,517, 10-2-73, Cl. 192-85.0ab.
Hanley Development Corporation: *See—*
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Hanley, Donald E., to Red Devil Engineering, Inc. Racing vehicle wheel having improved cooling structure. 3,734,566, 5-22-73, Cl. 301-6.0cs.
Hanley, Hope, to Burroughs Corporation. Sandwich embroidery frame. 3,732,638, 5-15-73, Cl. 38-102.910.
Hanley, Thomas G.: *See—*
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Hanley, William J. Panel structure and the like with connecting means. 3,731,956, 5-8-73, Cl. 287-20.926.
Hanlon & Wilson Company: *See—*
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Hanlon, John P., Jr.; and Yoshioka, Sigenori. Energy absorber for arresting movement of loads. 3,720,393, 3-13-73, Cl. 248-361.00a.
Hanlon, Thomas F. Color information on black and white film. 3,715,461, 2-6-73, Cl. 178-5.20r.
Hann, Donald R. Motor heater unit. 3,774,096, 11-20-73, Cl. 318-436.000.
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Hanna, Chester H.; and Igou, Richard A. Deer dragging and tagging device. 3,752,525, 8-14-73, Cl. 294-74.000.
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Hanna, Robert W.; and Hession, John J., to International Business Machines Corporation. Field effect transistor detector amplifier cell and circuit providing a digital output and/or independent of background. 3,770,967, 11-6-73, Cl. 250-214.00r.
Hannaford, Colin William, to International Business Machines Corporation. Non-current summing multiple input latching circuit. 3,760,190, 9-18-73, Cl. 307-218.000.
Hannaford, David A.; and Veenendaal, Cornelis T., to Tektronix, Inc. Variable length transmission line. 3,763,445, 10-2-73, Cl. 333-31.00r.



Hannah, Eric D., to Chevron Research Company. Method of improving detergency of alkylphenol polysulfonates by base precipitation and separation. 3,748,353, 7-24-73, Cl. 260-512.00r.
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Hannah, John, to Merck & Co., Inc. Amides of cholanic acid, cholenic acid, and choladienic acid. 3,708,510, 1-2-73, Cl. 260-397.100.
Hannah, John; Graham, Donald W.; and Rogers, Edward F., to Merck & Co., Inc. 1-Cyanobenzimidazoles. 3,749,734, 7-31-73, Cl. 260-309.200.
Hannan, William James, to RCA Corporation. Gated holographic coding system for reducing alignment requirements. 3,778,128, 12-11-73, Cl. 350-3.500.
Hannart, Joseph: *See—*
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Hannaway, John H., to Mount Hope Machine Company, Incorporated. Apparatus for correcting weft distortions in woven webs. 3,751,774, 8-14-73, Cl. 26-51.400.
Hannebaum, Manfred: *See—*
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Hanners, Robert J.: *See—*
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Hannerz, Kare, to AB Asea-Atom. Emergency cooling of a gas-cooled nuclear reactor. 3,769,157, 10-30-73, Cl. 176-38.000.
Hannes, George John; Helmick, James William; Dennis, James Arnold; and Current, John Marvin, to Johns-Manville Corporation. Method and apparatus for fabricating a plurality of filaments into a helix. 3,728,189, 4-17-73, Cl. 156-173.000.
Hannes, Karl, to Coats & Clark, Inc. Cast hinge. 3,742,555, 7-3-73, Cl. 16-128.000.
Hannestad, Gunnar: *See—*
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Hanning, John R., to Aro Corporation, The. Sequential valve for rotary vane air motors. 3,714,969, 2-6-73, Cl. 137-630.150.
Hannon, Charles N.: *See—*
Hannon, Warren W.; and Hannon, Charles N., 3,734,488.
Hannon, Warren W.; and Hannon, Charles N., 3,762,701.
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Hannon, Warren W.; and Hannon, Charles N., 3,777,929.
Hannon, Donald F., to Laminex, Inc., mesne. Portable laminating press with vertical feed and a pair of laminating rolls. 3,770,553, 11-6-73, Cl. 156-583.000.
Hannon, James V., to Diversified Packaging, Incorporated. Easy opening packages. 3,721,336, 3-20-73, Cl. 206-56.0ab.
Hannon, Paul. Horse twitch. 3,747,569, 7-24-73, Cl. 119-96.000.
Hannon, Warren W.: *See—*
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Hannon, Warren W.; and Hannon, Charles N., said Hannon, Charles N., assor. to Hannon, Warren W. Mechanism for successively delivering sheet articles from a stack. 3,734,488, 5-22-73, Cl. 270-58.000.
Hannon, Warren W.; and Hannon, Charles N., said Hannon, Charles N., assor. to said Hannon, Warren W. Auxiliary stiff sheet feeder for newspaper section collating machine. 3,762,701, 10-2-73, Cl. 271-115.000.
Hannon, Warren W.; and Hannon, Charles N., to Hannon, Warren W. Method and apparatus for feeding newspapers. 3,777,907, 12-11-73, Cl. 214-8.50f.
Hannon, Warren W.; and Hannon, Charles N., said Hannon, Charles N., assor. to said Hannon, Warren W. Newspaper vendor. 3,777,929, 12-11-73, Cl. 221-17.000.
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Hano, Masaaki; Kiyotake, Takeshi; and Oike, Minoru, to Nippon Kokan Kabushiki Kaisha. Automatic welding apparatus. 3,709,423, 1-9-73, Cl. 228-44.000.
Hano, Masaaki, to Nippon Kokan Kabushiki Kaisha. Tack-welding method and installation. 3,729,125, 4-24-73, Cl. 228-26.000.
Hanotier, Jacques D. V.: *See—*
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Hanousek, Alois; and Kase, Oldrich, to Elitex, Zavody textilniho strojirenstvi generalni reditelstvi. Device for storing a transported weft thread. 3,712,526, 1-23-73, Cl. 226-97.000.
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Hanrihan, James P., to Foxboro Company, The. Power supply with battery backup. 3,778,634, 12-11-73, Cl. 307-64.000.
Hans, Daniel, to Area Conditioner Corporation. Portable air cooler and dehumidifier. 3,774,410, 11-27-73, Cl. 62-426.000.
Hans, Gott: *See—*
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Hans, Jager, to Jager, Emil, KG. Drive for producing movement of the lay in weaving looms. 3,749,137, 7-31-73, Cl. 139-190.000.
Hans, Joachim; Ditschler, Hans Jorgen; and Russeler, Gerhard. Gear shaping apparatus. 3,722,359, 3-27-73, Cl. 90-7.000.
Hans, Waldemar: *See—*
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Hans-Samuel, Bein: *See—*
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Hansard, Cyril. Apparatus for controlling the exposure of light sensitive material. 3,732,011, 5-8-73, Cl. 355-68.000.
Hansch, Theodor W.; and Varsanyi, Frank L., to Leland Stanford Junior University, The Board of Trustees of the. Optical element system and method for amplifying image forming light rays. 3,781,700, 12-25-73, Cl. 330-4.300.
Hanschke, Ernst: *See—*
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Hanschke, Ernst; Fester, Walter; and Jakob, Franz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Polyamines of xylened amines. 3,725,478, 4-3-73, Cl. 260-570.50p.
Hanschke, Ernst; Fester, Walter; and Jakob, Franz, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Cycloalkyl-alkylene- and arylalkylene-polyamines. 3,755,445, 8-28-73, Cl. 260-563.00r.
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Hansel, William B., to Sun Oil Company. Refueling system for automobiles. 3,734,149, 5-22-73, Cl. 141-350.000.
Hansel, William B. Two-nozzle system for liquid fuel dispensing apparatus. 3,750,906, 8-7-73, Cl. 222-74.000.
Hansel, William B., to Sun Oil Company of Pennsylvania, mesne. Contamination-preventing nozzle. 3,759,423, 9-18-73, Cl. 222-153.000.
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Hanselmann, Dieter; Bock, Willy; and Prohaska, Hans, to SWF-Spezialfabrik fur Autozubehor Gustav Rau GmbH. Vehicle seat loading indicator apparatus. 3,772,644, 11-13-73, Cl. 340-52.00r.
Hanseman, Carl, to Technicolor, Inc. Video monochrom to color conversion. 3,761,607, 9-25-73, Cl. 178-5.40r.
Hanseman, Leo C., to Technicolor Inc. Blue screen travelling matte system. 3,778,542, 12-11-73, Cl. 178-5.40r.
Hansen, A. L., Mfg., Co.: *See—*
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Hansen, Arne, to Kidde, Walter, & Company, Inc. Safety head arrangement for fire extinguisher. 3,741,310, 6-26-73, Cl. 169-31.00r.
Hansen, Boyd L.: *See—*
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Hansen, Charles C.; and Nilles, John D., to Refrigerating Specialties Company. Refrigerant feed control and system. 3,741,242, 6-26-73, Cl. 137-504.000.
Hansen, Claus M.; and Norgaard, Ejvind N., to Smidth, F. L., & Co. Sandwich diaphragm for mill. 3,776,477, 12-4-73, Cl. 241-72.000.
Hansen, Donald H. Automatic exposure control for controlling photographic shutter. 3,711,721, 1-16-73, Cl. 250-214.00p.
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Hansen, Francis Frederick. Monoglyceride product and method of preparing the same. 3,743,512, 7-3-73, Cl. 99-91.000.
Hansen, Fritz Ernst, to Multitec A.G. Drying apparatus. 3,751,823, 8-14-73, Cl. 34-155.000.
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Hansen, Gerald D.; and Dryden, Paul C., to Betz Laboratories, Inc. Apparatus and method for testing the amount of deposition in an aqueous system. 3,757,210, 9-4-73, Cl. 324-61.00r.
Hansen, Gerhard. Apparatus for temporarily reducing the volume of a synthetic material container. 3,717,430, 2-20-73, Cl. 425-392.000.
Hansen, Gerhard. Apparatus for labelling containers made of thermo-plastic synthetic material. 3,726,746, 4-10-73, Cl. 156-566.000.
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Hansen, Gunnar Lyshoj; and Petersen, Jorgen Hartvig, to Danfoss A/S. Pressure-regulating valve, particularly for fuel-oil pumps. 3,744,508, 7-10-73, Cl. 137-116.300.
Hansen, Gunnar Lyshoj; and Rono-Clausen, Jorgen, to Danfoss A/S. Oil pump for heating installations. 3,752,602, 8-14-73, Cl. 417-310.000.
Hansen, Gunnar Lyshoj, to Danfoss A/S. Rotary fluid pressure device. 3,775,031, 11-27-73, Cl. 418-61.000.
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Hansen, Harold H. Vibrator for dump trucks. 3,747,980, 7-24-73, Cl. 298-1.00v.
Hansen, Harold Valentine, to Deere & Company. Detasseling apparatus. 3,736,731, 6-5-73, Cl. 56-63.000.
Hansen, Harry, to Lysta A/S. Stringer having bonded coupling element. 3,736,628, 6-5-73, Cl. 24-205.100.
Hansen, Harry, to Opti-Holding AG. Slide-fastener stringer. 3,772,743, 11-20-73, Cl. 24-205.10r.
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Hansen, Howard C., to Clark Equipment Company. Load equalizing system for lift trucks. 3,716,158, 2-13-73, Cl. 214-730.000.
Hansen, Howard C.; and Messner, John S., to Clark Equipment Company. Front and lateral loading mechanism. 3,762,588, 10-2-73, Cl. 214-730.000.
Hansen, Ib Schreiner. Drive mechanism for automatically varying the vertical and horizontal threwing angles of a target trap. 3,722,495, 3-27-73, Cl. 124-9.000.
Hansen, James E., to Cutler-Hammer, Inc. Pulse rate control motor speed control system with feedback. 3,710,213, 1-9-73, Cl. 318-331.000.
Hansen, James E., to Cutler-Hammer, Inc. Soft start A.C. motor control. 3,742,370, 6-26-73, Cl. 318-227.000.
Hansen, James H.; and Getz, Ralph W., to Owens-Corning Fiberglas Corporation. High temperature-high strength alloy glass fiber feeder. 3,773,482, 11-20-73, Cl. 65-1.000.
Hansen, James H.; and Getz, Ralph W. High temperature-high strength alloy glass fiber forming bushing. 3,779,728, 12-18-73, Cl. 65-1.000.
Hansen, Jep F.; and Hansen, Albert L. Bow string release. 3,768,456, 10-30-73, Cl. 124-35.00a.
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Hansen, Kenneth N., to Allis-Chalmers Corporation. Engine hood latch. 3,743,045, 7-3-73, Cl. 180-69.00r.
Hansen, Kenneth R., to Colgate-Palmolive Company. Liquid detergent composition. 3,723,357, 3-27-73, Cl. 252-545.000.
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Hansen, Knute C.; and McKeown, John C., to United Aircraft Corporation. Rotor overload protection. 3,744,928, 7-10-73, Cl. 416-31.000.
Hansen, Lars J., to Environmental Technology, Inc. Process for the recovery of waste pickle liquor. 3,745,207, 7-10-73, Cl. 423-154.000.
Hansen, Lindsey B. Novel display device. 3,725,112, 4-3-73, Cl. 117-75.000.
Hansen, Lindsey B., Jr.; and Hyer, Val D., to Control Graphics Company. Display system. 3,715,822, 2-13-73, Cl. 40-130.00k.
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Hansen, Neil W.; and Orenstein, Nathan, to United States of America, Navy. Search-lock system. 3,758,866, 9-11-73, Cl. 328-127.000.
Hansen, Niels: *See—*
Adolph, Eivind; Hansen, Niels; Jensen, Jens Christian Balling; Kjoller, John; Parsons, Paul Donald; Hindle, Edward David; and Marsh, David John, 3,775,823.
Hansen, Niels S., to Foundation and Bridge Corporation. Pusher device. 3,731,637, 5-8-73, Cl. 104-172.00b.
Hansen, Niels S., to Foundation and Bridge Corporation. Side window brush arrangement for car washing installations. 3,750,213, 8-7-73, Cl. 15-21.00d.
Hansen, Niels S., to Foundation and Bridge Corporation. Support pad for conveyor chain and combination thereof with conveyor chain. 3,750,798, 8-7-73, Cl. 198-1.000.
Hansen, Norbert Ernst; and Wadow, Dieter, to U.S. Philips Corporation. Corona discharge for electro-static charging. 3,708,661, 1-2-73, Cl. 250-49.5zc.
Hansen, Norbert Ernst Fritz; and Stotz, Siegfried Wilhelm, to U.S. Philips Corporation. Dispersion of finely divided substances in an isoparaffin apolar dispersing agent. 3,766,125, 10-16-73, Cl. 260-33.60r.
Hansen, Omar, Jr.: *See—*
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Hansen, Ove Emil; Kahler, Tom; and Engel, Pierre, to Aktieselskabet Niro Atomizer. Device for drying damp powders. 3,771,237, 11-13-73, Cl. 34-57.00a.
Hansen, Ove Emil, to Aktieselskabet Niro Atomizer. Cleansing device for powder processing apparatuses. 3,780,445, 12-25-73, Cl. 34-57.00d.
Hansen, Paul: *See—*
Schmedes, Helga; Hansen, Paul; and Welz, Bernhard, 3,778,156.
Hansen, Paul J. Metal pouring apparatus including particle collecting mechanism. 3,777,651, 12-11-73, Cl. 98-115.00r.
Hansen, Quinten A. Self-cooling clutch and brake. 3,710,902, 1-16-73, Cl. 192-18.00a.
Hansen, Ralph R.; Ray, Thomas A.; and Reimer, Gerhard M., to Swift & Company. Carcass chilling process. 3,745,026, 7-10-73, Cl. 99-194.000.
Hansen, Raymond J. Aircraft takeoff abort indicator. 3,738,165, 6-12-73, Cl. 73-178.00t.
Hansen, Richard C.; and Gulati, Ved K., to Xerox Corporation. Stylus. 3,761,954, 9-25-73, Cl. 346-139.00c.
Hansen, Richard L., to Minnesota Mining and Manufacturing Company. Solar control products. 3,776,805, 12-4-73, Cl. 161-2.000.
Hansen, Richard R., to KMS Industries, Inc. Venturi head for vacuum systems. 3,716,307, 2-13-73, Cl. 417-191.000.
Hansen, Robert L.: *See—*
Atendido, Jorge B.; and Hansen, Robert L., 3,770,635.
Hansen, Robert L.; and Roshon, Clyde C., to International Business Machines Corporation. Print chain assembly for high speed printer. 3,774,531, 11-27-73, Cl. 101-93.00c.
Hansen, Robert O. Oscillating plow and trencher combination. 3,727,331, 4-17-73, Cl. 37-86.000.



Hansen, Robert O. Vibrating plow to bury cable and the like. 3,727,696, 4-17-73, Cl. 172-40.000.
Hansen, Russell W.: *See—*
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Hansen, Siegfried, to Hughes Aircraft Company. Method and apparatus for gravity gradiometry. 3,769,840, 11-6-73, Cl. 73-382.000.
Hansen, Walter A.: *See—*
Rudd, Alexander H.; Hansen, Walter A.; and Ingersoll, James E., 3,741,174.
Hansen, Warren T., to Bear Manufacturing Corporation. Power mechanism and safety lock therefor. 3,748,969, 7-31-73, Cl. 92-19.000.
Hansen, William A., to Moore, Paul, Company Limited, The. Washing apparatus. 3,746,019, 7-17-73, Cl. 134-56.00d.
Hansen, Wray C., to Colorado Instruments, Inc. Snap action capacitive type switch. 3,751,612, 8-7-73, Cl. 200-52.00r.
Hanser, Paul Edmund, to Deere & Company. Power transmission device for rotating a grader circle. 3,721,303, 3-20-73, Cl. 172-792.000.
Hanset, Eugene; and Hanset, Richard E. Measuring system. 3,746,217, 7-17-73, Cl. 222-194.000.
Hanset, Richard E.: *See—*
Hanset, Eugene; and Hanset, Richard E., 3,746,217.
Hansford, Reginald Frederick, to Decca Limited. Berthing display apparatus. 3,754,247, 8-21-73, Cl. 343-5.00r.
Hansford, Robert Julian. Construction process and apparatus for forming ceramic walls. 3,721,539, 3-20-73, Cl. 65-19.000.
Hansford, Rowland C., to Union Oil Company of California. Dehydrogenative process and catalyst. 3,719,721, 3-6-73, Cl. 260-673.50r.
Hansjurgens, Achim, to Deutsche Nemectron Gesellschaft m.b.H. Electromedicinal apparatus for interference current therapy. 3,774,620, 11-27-73, Cl. 128-420.000.
Hanske, Manfred: *See—*
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Hansley, Virgil L.; Greenberg, Harry; Morgan, Fred Keith; and Grinninger, Lowell D., to National Distillers and Chemical Corporation. Modification of alfin polymers and product. 3,719,730, 3-6-73, Cl. 260-877.000.
Hansman, George: *See—*
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Hansmann, Arthur J.: *See—*
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Hanson, Alden B.; and Hanson, Chris A., to Hanson Industries Inc. Ski boot having variable stiffness. 3,738,025, 6-12-73, Cl. 36-2.5al.
Hanson, Carl George; and Bergling, Folke Gunnar, to SKF Industrial Trading and Development Company N.V. Stern tube bearing arrangement for a propeller shaft supported by a spherical roller bearing. 3,751,124, 8-7-73, Cl. 308-194.000.
Hanson, Charles A.; and Cowles, Leroy C., to Pacific Valves, Inc. Method and apparatus for providing a hard metal coating on confined areas of a metal part. 3,740,833, 6-26-73, Cl. 29-527.400.
Hanson, Charles B.: *See—*
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Hanson, Charles Christian; Liong Ho, Joseph Ping; and Houdek, Merle Edward, to International Business Machines Corporation. Capacitive deyboard electronics. 3,715,747, 2-6-73, Cl. 340-365.000.
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Hanson, Cleo E.; and Tuschhoff, John V., to Staley, A. E., Manufacturing Company. Method for purifying crude, dry granular reacted cold water swelling hydroxypropyl starch derivatives. 3,725,386, 4-3-73, Cl. 260-233.30r.
Hanson, Clifford C. Collapsible sawhorse. 3,763,958, 10-9-73, Cl. 182-181.000.
Hanson, David G.: *See—*
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Hanson, Donald K.: *See—*
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Hanson, Douglas R. Loader for trucks. 3,727,777, 4-17-73, Cl. 214-41.000.
Hanson, Ellis P.; and Sausele, George J. H., to Compugraphic Corporation. Font strip structure. 3,710,707, 1-16-73, Cl. 95-85.000.
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Hanson, Gustaf H. Orthodontic bracket. 3,772,787, 11-20-73, Cl. 32-14.00a.
Hanson, Henry Lloyd. Merchandise display with inventory control. 3,770,120, 11-6-73, Cl. 206-79.000.
Hanson, Howard A. X-ray film sequences. 3,763,370, 10-2-73, Cl. 250-470.000.
Hanson Industries Inc.: *See—*
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Hanson, Ivor G.; Herbst, George; and Lewis, Jerry M. Method for explosively bonding together metal layers and tubes. 3,744,119, 7-10-73, Cl. 29-470.100.
Hanson, Ivor G.; Herbst, George; and Lewis, Jerry M., to E. F. Industries, Inc., mesne. Assembly for explosively bonding together metal layers and tubes. 3,761,004, 9-25-73, Cl. 228-3.000.
Hanson, Ivor G. Process for recycling steel bodymaker punch sleeves. 3,768,287, 10-30-73, Cl. 72-56.000.
Hanson, Jack Orvel; and Ross, Robert Martin, to General Electric Company. Apparatus for monitoring suspended aerosols and particulates in a gas. 3,744,297, 7-10-73, Cl. 73-28.000.
Hanson, James M.: *See—*
Anderson, Robert M.; Hanson, James M.; Leerone, Richard C.; and Landgraf, William B., 3,725,693.
Hanson, Jonathan Leslie: *See—*
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Hanson, Kent W. Bidirectional lever arm clutch. 3,727,734, 4-17-73, Cl. 192-48.920.
Hanson, Larry: *See—*
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Hanson, Laurence B., to Gardner-Denver Company. Underfeed control for percussion tool. 3,712,179, 1-23-73, Cl. 91-220.000.
Hanson, Laurence B., to Gardner-Denver Company. Directional control for rock drill feed support. 3,721,304, 3-20-73, Cl. 173-2.000.
Hanson Limited: *See—*
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Hanson, Melvin A.; and Zunich, Alexander, to N L Industries, Inc. Gear casing. 3,727,483, 4-17-73, Cl. 74-609.000.
Hanson, Neil L.: *See—*
Santacroce, James D.; and Hanson, Neil L., 3,754,342.
Hanson, Neil L. Bag dispensing apparatus and method. 3,754,370, 8-28-73, Cl. 53-29.000.
Hanson, R. A., Company, Inc.: *See—*
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Hanson, Raymond A.; and Roller, Robert L., to Hanson, R. A., Company, Inc. Rotary trencher having a vertical axis of rotation. 3,766,672, 10-23-73, Cl. 37-91.000.
Hanson, Raymond W. Venetian blind window assembly. 3,719,221, 3-6-73, Cl. 160-168.000.
Hanson, Richard A. Vertical swing beam for amusement and exercise. 3,754,758, 8-28-73, Cl. 272-60.00a.
Hanson, Richard M., to McGraw-Edison Company. Press head construction. 3,715,819, 2-13-73, Cl. 38-16.000.
Hanson, Richard M., to McGraw-Edison Company. Garment press. 3,722,115, 3-27-73, Cl. 38-21.000.
Hanson, Roy R. Reloading device. 3,736,835, 6-5-73, Cl. 86-19.000.
Hanson, Theodore L., to Vendo Company, The. Ice making apparatus. 3,756,041, 9-4-73, Cl. 62-354.000.
Hanson, Wallace E., to Champion International Corporation. Folding carton with partition and blank therefor. 3,747,831, 7-24-73, Cl. 229-27.000.
Hanson, Wallace E., to Champion International Corporation. Compartmented display container. 3,780,931, 12-25-73, Cl. 229-27.000.
Hanson, Walter J., to Pitney-Bowes, Inc. Value dispensing mechanisms. 3,731,068, 5-1-73, Cl. 235-101.000.
Hanssen & Cie S.A.: *See—*
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Hanssen, Dieter; and Knecht, Adolf. Method of manufacturing rapidly disintegrating pharmaceutical tablets. 3,725,556, 4-3-73, Cl. 424-357.000.
Hanssen, Nels S.: *See—*
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Hanssen, Pierre J., to Hassen, P., & Cie S.A. Roller for removing folds from material in film or web form. 3,757,399, 9-11-73, Cl. 29-116.00r.
Hanssen, Pierre Joseph, to Hanssen & Cie S.A. Bearings. 3,752,004, 8-14-73, Cl. 74-443.000.
Hansson, Alphonse. Treatment of leather. 3,761,304, 9-25-73, Cl. 117-76.00r.
Hansson, Ants, to Continental Can Company, Inc. Apparatus for and method of facilitating the stripping of cans from a punch and the article formed thereby. 3,733,880, 5-22-73, Cl. 72-344.000.



Hansson, Hans John Olof, to Hansson, Lars Jan Herman and An- Hara, Atsushi and Ohno, Yoshitsugu, to Nippon Kokan Kabushiki Kaisha. Method of and apparatus for measuring the thickness of a coating on a metal plate. 3,775,661, 11-27-73, Cl. 324-34.00r.
Hansson, Lars Jan Herman: *See—*
Hansson, Hans John Olof; Hansson, Lars Jan Herman and An- Hara, Atsushi and Ohno, Yoshitsugu, 3,775,661.
Hansson, Lars Jan Herman and An- Hara, Atsushi and Ohno, Yoshitsugu: *See—*
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Hansson, Per Ingvar; and Lundberg, Bengt Ingemar: *See—*
Hansson, Per Ingvar; and Lundberg, Bengt Ingemar, 3,760,161.
Hansson, Per Ingvar; and Lundberg, Bengt Ingemar, to Asea Aktiebolag. Method and apparatus for measuring the thickness of a layer of material. 3,760,161, 9-18-73, Cl. 250-83.30h

Hansson, Hans John Olof, to Hansson, Lars Jan Herman and Andersson, Anders Walter. Seals for rotary and axially movable shafts. 3,761,099, 9-25-73, Cl. 277-37.000.
Hansson, Hans Olof, to Telefonaktiebolaget L M Ericsson. Sleeve joint for aluminium sheathed cable. 3,711,628, 1-16-73, Cl. 174-71.00r.
Hansson, Jan Ingvar: *See*—
Tuma, Alex; and Hansson, Jan Ingvar, 3,716,083.
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Hansson, Margaret S.; Cunningham, Gerald A.; and Gebhard, Albert W., to Gerico, Inc. Releasable connecting bar for child carrier. 3,774,824, 11-27-73, Cl. 224-6.000.
Hansson, Margaret S., to Gerico, Inc. Infant carrier. 3,780,919, 12-25-73, Cl. 224-6.000.
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Hanton, Daniel, to Compagnie de Saint-Gobain. Process for expanding polystyrene. 3,738,020, 6-12-73, Cl. 34-217.000.
Hanton, Daniel, to Compagnie de Saint-Gobain. Manufacture of rigid phenol-aldehyde foams. 3,761,209, 9-25-73, Cl. 425-4.00c.
Hantscho, George, Company Inc.: *See*—
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Hanus, Hans-Dieter; and Aussenegg, Franz, to Vianova-Kunstharz A.G. Process for hardening coatings with lasers emitting infra-red radiation. 3,743,777, 7-3-73, Cl. 219-121.0lm.
Hanusek, Frank A.; and Galuschak, George, to Bendix Corporation, The. Gyro compassing apparatus and method. 3,739,480, 6-19-73, Cl. 33-321.000.
Hanusiak, Tadeusz J., to Amtab Manufacturing Co. Folding table leg brace construction. 3,777,675, 12-11-73, Cl. 108-132.000.
Hanway, John E., Jr., to Chicago Bridge & Iron Company. Counterflow sludge burner. 3,738,289, 6-12-73, Cl. 110-8.00r.
Hanzawa, Hirashi; and Yoneya, Juho, to Sony Corporation. Magnetic tape recording and/or reproducing apparatus with an automatic start device. 3,770,176, 11-6-73, Cl. 226-176.000.
Hanzawa, Teruo: *See*—
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Hanze, Arthur R.; deceased (by Hanze, Janice W.; administratrix), to Upjohn Company, The. Certain pyrimido(1,2-a)(1,4)benzodiazepin-1 (5H)-ones. 3,734,912, 5-22-73, Cl. 260-256.50r.
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Hanzel, Joseph W., to United States of America, Navy. Decoy flare with traveling ignition charge. 3,712,224, 1-23-73, Cl. 102-37.600.
Hanzlik, William M. Screw-supporting attachment for the shank of a screw driver tool. 3,730,237, 5-1-73, Cl. 145-52.000.
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Hapgood, William H.; and Di Nuzzi, Robert D., to Raytheon Company. Incinerator. 3,776,148, 12-4-73, Cl. 110-8.00a.
Happ, Marvin B., to Texas Instruments, Incorporated. Method of making lead frames for semiconductor devices. 3,750,277, 8-7-73, Cl. 29-624.000.
Happe, Wilhelm; and Schladetsch, Hans Jakob, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Disazo dyestuffs. 3,708,596, 1-2-73, Cl. 260-174.000.
Happs, Gary J.: *See*—
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Happy, Raymond, to General Motors Corporation. Circular arc - groove cutting machine. 3,771,894, 11-13-73, Cl. 408-54.000.
Hara, Akio; and Yazu, Syuji, to Sumitomo Electric Industries Ltd. High strength metal bonded tungsten carbide base composites. 3,746,519, 7-17-73, Cl. 29-182.700.
Hara, Akio; and Yazu, Shuji, to Sumitomo Electric Industries, Ltd. Method of making an article having a hard and ornamental coating. 3,749,656, 7-31-73, Cl. 204-181.000.
Hara, Akira: *See*—
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Hara, Atsushi; Naganuma, Hisao; and Takai, Akio, to Nippon Kokan Kabushiki Kaisha. Coupling for milli-wave guiding tube. 3,711,126, 1-16-73, Cl. 285-116.000.
Hara, Atsushi; Naganuma, Hisao; and Takai, Akio, to Nippon Kokan Kabushiki Kaisha. Connector for a millmeter waveguide. 3,712,644, 1-23-73, Cl. 285-39.000.
Hara, Atsushi; and Ohno, Yoshitaka, to Nippon Kokan Kabushiki Kaisha. Apparatus for examining the inner surface of pipes. 3,761,623, 9-25-73, Cl. 178-68.000.
Hara, Hikoharu: *See*—
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Hara, Hisashi, to Tokyo Shibaura Electric Co., Ltd. Semiconductor device with a field effect transistor. 3,739,238, 6-12-73, Cl. 317-235.00r.
Hara, Iwau: *See*—
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Hara, Junji; Nakazima, Yoshiharu; and Honjo, Yoshitoshi, to Mitsui Toatsu Chemicals, Incorporated. Rapid anionic polymerization of vinyl aromatic monomers. 3,751,403, 8-7-73, Cl. 260-88.20c.
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Hara, Kouichi: *See*—
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Hara, Morihisa; Suzuki, Yoshiko; Ohta, Hironori; and Uemura, Michihiko, to Asahi Glass Co., Ltd. Glass strengthened by ion exchange and method of preparing the same. 3,772,135, 11-13-73, Cl. 161-164.000.
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Hara, Satoshi: *See*—
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Hara, Takao, to Toyo Glass Company, Limited. Apparatus for arranging articles in staggered rows. 3,724,639, 4-3-73, Cl. 198-31.00r.
Hara, Takeshi; Niida, Taro; Satoh, Kimio; Kondo, Shinichi; Akita, Eiichi; Sezaki, Masaji; Shimura, Masaru; Nishio, Takako; Hamamoto, Kazuko; and Koike, Makiko. Ericamycin and production thereof. 3,769,403, 10-30-73, Cl. 424-122.000.
Hara, Tohru; and Asao, Ichiro, to Matsushita Electric Industrial Co., Ltd. Process for manufacturing a ternary material. 3,761,306, 9-25-73, Cl. 117-106.00a.
Hara, Toshito; and Oguma, Toshiro, to Fujitsu Limited. Reed switch. 3,716,810, 2-13-73, Cl. 335-154.000.
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Harada, Koosuke; and Takeuchi, Shinjiro, to Mishima Kosan Co., Ltd. Fluid injection recording system utilizing alternating bias field. 3,739,396, 6-12-73, Cl. 346-140.000.
Harada, Masatoshi: *See*—
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Haraikawa, Tetsuo; Kondo, Sadao; and Yazawa, Hiromi, to Tokico Ltd. Disk brake assembly. 3,712,422, 1-23-73, Cl. 188-72.300.
Haraikawa, Tetsuo, to Tokico Limited. Dual network hydraulic brake system. 3,752,271, 8-14-73, Cl. 188-345.000.
Haraikawa, Tetsuo, to Tokico Limited. Dual hydraulic brake system. 3,752,273, 8-14-73, Cl. 188-345.000.
Harak, Gerhard; Hubert, Heinrich; and Kuhnert, Hans, to Heidelberger Druckmaschinen Aktiengesellschaft. Centering spindle for taking up tool shafts. 3,774,928, 11-27-73, Cl. 279-22.000.
Harakon, Katsuyuki: *See*—
Yoshida, Tomonori; Takagi, Hirohiko; Harakon, Katsuyuki; and Matsui, Norio, 3,762,458.
Haralampiev, Alexandrov: *See*—
Enishev, Ivan Dimitrov; Kunishev, Nikola Izanov; Haralampiev, Alexandrov; and Petrov, Dimitar Andreev, 3,755,113.
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Maekawa, Tadashi; Suzuki, Akira; and Haramura, Shigenori, 3,722,369.
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Harano, Allen A.: *See*—
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Harasta, Clarence J.: *See*—
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Haraszti, Tegze, to Licentia Patent-Verwaltungs-G.m.b.H. Dynamic logic interconnection. 3,740,576, 6-19-73, Cl. 307-205.000.
Haraszti, Tegze, to Licentia Patent-Verwaltungs-G.m.b.H. Electric dynamically operated storage element. 3,753,010, 8-14-73, Cl. 307-279.000.
Harbaugh, Arthur: *See*—
Harrell, Bob G.; and Harbaugh, Arthur, 3,729,246.
Harbaugh, John A. Tool for turning fabric tubes. 3,746,220, 7-17-73, Cl. 223-42.000.
Harbaugh, Samuel S.; and Rockwell, Perry M., to Allegheny Ludlum Steel Corporation. Apparatus for control of carbon content in steel produced in basic oxygen furnace process. 3,741,557, 6-26-73, Cl. 266-35.000.
Harbeck, Martin B.; and Lagerstrom, Robert C., to Singer Company, The. Wet/dry suction cleaner. 3,780,397, 12-25-73, Cl. 15-413.000.
Harbeck, Martin E.: *See*—
Fromknecht, Charles T.; and Harbeck, Martin E., 3,732,667.
Harben, Grover S., Jr., to Gainesville Machine Company, Inc. Method and apparatus for removing oil glands from fowl. 3,714,682, 2-6-73, Cl. 17-11.000.
Harben, Grover S., Jr., to Gainesville Machine Company, Inc. Method for killing fowl. 3,724,032, 4-3-73, Cl. 17-52.000.
Harben, Grover S., Jr., to Gainesville Machine Company, Inc. Poultry picking machine. 3,747,159, 7-24-73, Cl. 17-11.100.
Harben, Grover S., Jr.; Lewis, Ernest E.; Sloan, Lloyd E.; and Lawson, William J., to Gainesville Machine Company, Inc. Photoelectric sizing apparatus and method. 3,767,044, 10-23-73, Cl. 209-121.000.
Harbers, Henry C., to Western Unit Corporation. Method for moving massive loads. 3,767,071, 10-23-73, Cl. 214-152.000.
Harbison, Judith M.: *See*—
Kurtz, Donald W.; and Harbison, Judith M., 3,734,738.
Oliver, Gene L.; and Harbison, Judith M., 3,718,472.
Harbolt, Bruce A.: *See*—
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Harbonn, Jacques: *See*—
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Harbonn, Jacques, to Institut Francais du Petrole des Carburants et Lubrifiants. Device for the storage and use of hydraulic and/or pneumatic power, particularly for operation of submerged well heads. 3,743,013, 7-3-73, Cl. 166-.500.
Harbor, Lloyd: *See*—
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Harbour, Philip F.; and Wilcox, Charles A., to Westinghouse Electric Corporation. Machine compartment arrangement for a refrigerating device. 3,736,768, 6-5-73, Cl. 62-455.000.
Harbour, Philip F., to Westinghouse Electric Corporation. Control arrangement for refrigerator-freezer having fast chill feature. 3,747,361, 7-24-73, Cl. 62-157.000.
Harbour, Wilmer P., Jr.; and Queener, Carl A., to International Business Machines Corporation. Cleaning apparatus for electrostatic copying devices. 3,728,016, 4-17-73, Cl. 355-15.000.
Harbron, Donald L., Jr.: *See*—
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Apodesta, Dorothy; Cardillo, Judy I.; Eisele, Nancy E.; Fox, Eileen; and Nesler, Margaret L., 3,741,649.
Harcourt, Michael David, to General Electric Company, Limited, The. Crossbar switch with ramp means facilitating conductor assembly subsequent to housing assembly. 3,746,821, 7-17-73, Cl. 200-175.000.
Hard af Segerstad, Carl Gustaf. Device in V-belt transmissions. 3,776,053, 12-4-73, Cl. 74-230.17e.
Hard, Robert A.; and Ripley, Robert L., to Union Carbide Corporation. Process for leaching base elements, such as uranium ore, in situ. 3,708,206, 1-2-73, Cl. 299-5.000.
Hardaker, Fred, to Baron, Andrew, Limited. Devices for turning tubular fabrics. 3,762,613, 10-2-73, Cl. 223-40.000.
Hardebeck, Klaus: *See*—
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Hardee, Eldred V. Hydraulically operated offset cutter. 3,729,910, 5-1-73, Cl. 56-11.900.
Hardel, Hans-Joachim: *See*—
Sennewald, Kurt; Ohorodnik, Alexander; Mittler, Werner; Hundeck, Joachim; and Hardel, Hans-Joachim, 3,739,023.
Hardemann, Manfred, to Steinmuller, L. & C., G.m.b.H. Combustion chamber. 3,779,180, 12-18-73, Cl. 110-7.00r.
Harden, Darrel G., to Carefree International, Inc. Chlorinating apparatus for swimming pools. 3,763,878, 10-9-73, Cl. 137-114.000.
Harden, Phillip L.; and Thomas, Samuel M., Jr., to Bowmar Instrument Corporation. Rotatable indicator having light-emitting diode back-lighting. 3,732,560, 5-8-73, Cl. 340-373.000.
Harden, Phillip L., to Bowmar Instrument Corporation. Rotary magnetic position indicator having odd number of positions. 3,735,303, 5-22-73, Cl. 335-272.000.
Harden, Phillip L., to Bowmar Instrument Corporation. One or two or five code rotary magnetic position indicator. 3,736,588, 5-29-73, Cl. 340-378.00r.
Hardenbicker, Herbert: *See*—
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Hardenbrook, Harry J.: *See*—
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Harder, Arthur J., Jr., to Coach and Car Equipment Corporation. Method for attaching cushion to rigid base. 3,747,178, 7-24-73, Cl. 29-91.100.
Harder, John E.: *See*—
Osmundsen, Norman K.; Harder, John E.; and Nitta, Tohei, 3,753,045.
Osmundsen, Norman K.; Harder, John E.; and Nitta, Tohei, 3,767,973.
Harder, Karl-Max, to Hilti Aktiengesellschaft. Capacitor-discharge stud welding apparatus. 3,767,887, 10-23-73, Cl. 219-98.000.
Hardesty, Donald L. Switch testing apparatus. 3,753,083, 8-14-73, Cl. 324-28.000.
Hardesty, Edwin Charles; Krumreich, Charles Louis; Mulbarger, Albert Eugene, Jr.; and Walden, Stephen William, said Hardesty assor. to Western Electric Company, Incorporated and said Krumreich, Mulbarger and Walden assors. to Bell Telephone Laboratories, Icorporated. Connector. 3,761,869, 9-25-73, Cl. 339-99.00r.
Hardesty, Ethridge E.: *See*—
Goldsworthy, William B.; and Hardesty, Ethridge E., 3,713,572.
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Karlson, Harald E.; and Hardesty, Ethridge E., 3,775,219.
Hardesty, Ethridge E., to Goldsworthy Engineering, Inc. Resin impregnating system. 3,737,261, 6-5-73, Cl. 425-113.000.
Hardick, Alden; Martin, Alvin M.; and House, Delbert, to Questor Corporation. Latch installation machine. 3,742,575, 7-3-73, Cl. 29-208.00f.
Hardie, Virgil: *See*—
Oliver, Norman J.; Hardie, Virgil; and Camp, Ludwig, 3,720,431.
Hardie, Waldo Richard; and Tankersley, Donald L., to Cutter Laboratories, Inc. 1-(1,3-Dioxolan-4-yl-alkyl)-piperazines and piperazine alkane diols. 3,770,743, 11-6-73, Cl. 260-268.0ph.
Hardies, Donald E.; and Rinehart, Jay K., to PPG Industries, Inc. Fluorinated carbonates. 3,742,010, 6-26-73, Cl. 260-463.000.
Hardin, Charles H.: *See*—
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Hardin, George E. Set retarder and air-entrainer composition for

Hardtmann, Goetz E., to Sandoz-Wander, Inc. 4-(N,O-disubstituted-

Hardin, George E. Set retarder and air-entrainer composition for mortar. 3,769,051, 10-30-73, Cl. 106-90.000.
Hardin, George T., to Robertshaw Controls Company. Time schedule controller and parts and system therefor. 3,730,427, 5-1-73, Cl. 236-46.000.
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Hardin, Robert H.; and Hill, Keith H., to Martin Marietta Corporation. Stored program format generator. 3,708,786, 1-2-73, Cl. 340-172.500.
Harding, Dale L.; and Kuhnash, Arthur R., to Textron, Inc. Framed screen panel. 3,719,222, 3-6-73, Cl. 160-371.000.
Harding, Edward B.: *See—*
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Harding, John W.: *See—*
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Harding, Maynard Caldwell; and Payne, Joseph Armando, to Litton Systems, Inc. High voltage insulator having a thick film resistive coating. 3,729,575, 4-24-73, Cl. 174-138.00r.
Harding, Philip A.: *See—*
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Sherwood, Charles D.; and Cordier, James R., 3,762,247.
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Hardingham, Derek D. Energy generating and sorting assembly for marine structure. 3,774,048, 11-20-73, Cl. 290-42.000.
Hardison, Artsun P., to XAR Industries Incorporated. Solenoid operated valve. 3,750,693, 8-7-73, Cl. 137-219.000.
Hardison, Jack E.: *See—*
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Hardison, Leslie C., to Universal Oil Products Company. Method of collecting sub-micron particles from a hot gas effluent stream. 3,755,990, 9-4-73, Cl. 55-93.000.
Hardison, Leslie C., to Universal Oil Products Company. Venturi scrubber system including control of liquid flow responsive to gas flow rate. 3,768,234, 10-30-73, Cl. 55-223.000.
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Hardman Aerospace: *See—*
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Hardman, Wendell G.: *See—*
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Hardnen, John D., to General Electric Company. Metal oxide varistor with selectively positionable intermediate electrode. 3,754,200, 8-21-73, Cl. 338-20.000.
Hardouin, Pierre; and Nicolas, Michel, to La Telemecanique Electrique. Selective interconnection matrix. 3,721,863, 3-20-73, Cl. 317-101.0ce.
Hardt, David R.: *See—*
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Hardt, David R., to Faustel, Inc. Skew adjusting means for printing press impression roll. 3,766,855, 10-23-73, Cl. 101-219.000.
Hardt, David R., to Faustel, Inc. Ink applicator means for printing press. 3,766,856, 10-23-73, Cl. 101-366.000.
Hardt, Lothar; Muller-Wartenberg, Heinz; and Rauschenberger, Hans, to Metallgesellschaft Aktiengesellschaft. Tube-type electrostatic precipitator. 3,765,154, 10-16-73, Cl. 55-146.000.
Hardt, Robert C.; and Kozlow, Edward, to Chemetron Corporation. Solidified gas pellets and apparatus for manufacturing. 3,708,993, 1-9-73, Cl. 62-35.000.
Hardtmann, Goetz E., to Sandoz-Wander, Inc. Aryl-substituted-pyrido [2,3-d] pyrimidin-2-ones. 3,709,888, 1-9-73, Cl. 260-256.40f.
Hardtmann, Goetz E. 6-Aryl-imidazo(2,1-a)phthalazines. 3,711,481, 1-16-73, Cl. 260-250.00a.
Hardtmann, Goetz E., to Sandoz-Wander, Inc. 3-Cyano-2-substituted-5-aryl-pyridine derivatives. 3,717,645, 2-20-73, Cl. 260-294.900.
Hardtmann, Goetz E.; and Ott, Hans, to Sandoz-Wander, Inc. Pyrido (2,3-D) pyrimidin-2-ones. 3,758,475, 9-11-73, Cl. 260-256.40f.
Hardtmann, Goetz E., to Sandoz-Wander, Inc. 4-(N,0-disubstituted-hydroxylamino)-quinazolines. 3,763,163, 10-2-73, Cl. 260-256.40q.
Hardtmann, Goetz E., to Sandoz-Wander, Inc. 3-Amino-2-aryl-acroleins. 3,767,650, 10-23-73, Cl. 260-240.00d.
Hardtmann, Goetz E., to Sandoz-Wander, Inc. Polyhydro-imidazo(1,5-a)pyrimidine-3(2H)-thione and pyrido(1,2-C) pyrimidine-1-thione. 3,772,230, 11-13-73, Cl. 260-25.01a.
Hardtmann, Goetz E.; and Kathawala, Faizulla G., to Sandoz-Wander, Inc. 4,6-Diaryl-pyrimidin-2(1H)-ones. 3,772,272, 11-13-73, Cl. 260-251.00r.
Hardtmann, Goetz E.; and Kathawala, Faizulla G., to Sandoz-Wander, Inc. 4,5-Diaryl-pyrimidin-2(1H)-ones. 3,772,288, 11-13-73, Cl. 260-251.00r.
Hardware & Industrial Tool Co., Inc.: *See—*
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Hardway, Edward V., Jr., to Spearhead, Inc. Method and apparatus for measuring mechanical properties of the respiratory system. 3,713,436, 1-30-73, Cl. 128-2.080.
Hardway, Edward V., Jr., to Spearhead, Inc. Capacitive switching device. 3,729,728, 4-24-73, Cl. 340-200.000.
Hardway, Edward V., Jr., to Spearhead, Inc. Capacitive displacement transducer. 3,729,991, 5-1-73, Cl. 73-136.00a.
Hardway, Edward V., Jr., to Spearhead, Inc. Capacitive pick-off transducer. 3,732,553, 5-8-73, Cl. 340-200.000.
Hardway, Edward V., Jr., to Spearhead, Inc. Three-terminal capacitive servomechanism. 3,760,254, 9-18-73, Cl. 318-662.000.
Hardway, Edward V., Jr., to Spearhead, Inc. Differential methods and apparatus for measuring dielectric constant to determine a condition of a material. 3,774,237, 11-20-73, Cl. 324-61.00r.
Hardway, Edward V., Jr., to Spearhead, Inc. Three-terminal capacitive apparatus for remotely responding to a condition or dielectric properties of a material. 3,774,238, 11-20-73, Cl. 324-61.00r.
Hardwick, David R., to Wagner Electric Corporation. Height control valve. 3,707,993, 1-2-73, Cl. 137-636.000.
Hardwick, David R.; and Kersting, Raymond J., to Wagner Electric Corporation. Control valve. 3,744,848, 7-10-73, Cl. 303-9.000.
Hardwick, David R.; and Stelzer, Raymond F., to Wagner Electric Corporation. Control valve. 3,769,997, 11-6-73, Cl. 137-102.000.
Hardwick, Roy, to Yorkshire Imperial Metals Limited. Method of making explosively welded joints. 3,717,925, 2-27-73, Cl. 29-470.100.
Hardwick, Thomas Lee Richard. Coil transporting structure. 3,739,930, 6-19-73, Cl. 214-390.000.
Hardwicke-Etter Company: *See—*
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Neitzel, Joseph C.; and Strandberg, Robert C., 3,739,266.
Hardwig, Ernest B. System for sorting mail bags. 3,708,057, 1-2-73, Cl. 198-38.000.
Hardwig, Ernest B. System for sorting mail bags. 3,719,269, 3-6-73, Cl. 198-179.000.
Hardy, Albert H., Sr., to Beck Carton Corporation. Package comprising interlocked carton and contents. 3,765,531, 10-16-73, Cl. 206-60.00r.
Hardy Brothers (Alnwick), Limited: *See—*
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Hardy Company, The: *See—*
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Hardy, Donald F.; and Palmer, Thomas W., III, to Dart Industries Inc. Transfer mechanism gripping device. 3,765,712, 10-16-73, Cl. 294-87.00r.
Hardy, Frederick Edward: *See—*
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Hardy, Frederick Edward; Robson, Peter; and Speakman, Peter Roscoe Hartley, to Procter & Gamble Company, The. Polymers and detergent compositions containing them. 3,719,647, 3-6-73, Cl. 260-86.10r.
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Hardy, George F.; and David, Morton E., 50% to Bell Television, Inc. and 50% to Holmes Electric Protective Co. Alarm system. 3,761,914, 9-25-73, Cl. 340-310.000.
Hardy, John C., to Angelica Corporation. Hypothermia baby bunting. 3,714,947, 2-6-73, Cl. 128-400.000.
Hardy, John C., to Angelica Corporation. Patient garment with temperature control. 3,738,367, 6-12-73, Cl. 128-379.000.
Hardy, John C., to Angelica Corporation. Method of joining tubes to manifold. 3,741,849, 6-26-73, Cl. 156-500.000.
Hardy, John C., to Angelica Corporation. Method of bonding flexible plastic tubes to fabrics. 3,758,356, 9-11-73, Cl. 156-160.000.
Hardy, John F.: *See—*
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Hardy, Peter S. Layout fixture. 3,762,060, 10-2-73, Cl. 33-174.0td.



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Hardy, Pierre; Hardy, Leon; and Lekarski, Simeon, 50% to Gachot, Jean. Summing arrangements. 3,741,475, 6-26-73, Cl. 235-175.000.
Hardy, Sheila. Collapsible shaft for point spray booth. 3,729,147, 4-24-73, Cl. 242-72.000.
Hardy, Shelia. Device for reclaiming dry powder particulates. 3,744,450, 7-10-73, Cl. 118-326.000.
Hardy, Trevor, to Foseco International Limited. Liquid bottom plate dressings. 3,754,944, 8-28-73, Cl. 106-38.270.
Hardy, Walter H.; and Gray, Kenneth W., to Rockwell International Corporation. Precision variable pulse rate nulling radiometer. 3,777,270, 12-4-73, Cl. 325-363.000.
Hardy, Walter N., to Rockwell International Corporation. Precision calibration target for radiometers. 3,778,837, 12-11-73, Cl. 343-703.000.
Hardy, William C.: *See—*
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Hardy, William C.; and Lichte, Henry P., Jr., to Sun Oil Company (Delaware). Downhole control valve for catalytic wellbore heaters. 3,780,803, 12-25-73, Cl. 166-59.000.
Hare, Alan W.; and Carlson, Ronald J., to Northwest Technical Industries, Inc. Snare device. 3,765,119, 10-16-73, Cl. 43-87.000.
Hare, George H., to Singer Company, The. Calculator having a sequential access stack. 3,725,873, 4-3-73, Cl. 340-172.500.
Hare, Gerald E.; Thompson, Norman W.; and Tanaka, Masahisa, to Atomic Energy of Canada Limited Commerical Products. Method for the production of semiconductor thermoelements. 3,775,218, 11-27-73, Cl. 156-331.000.
Hare, Lloyd E., to Litton Business Systems, Inc. Changeable type heads and changeable key caps. 3,730,322, 5-1-73, Cl. 197-36.000.
Hare, Paul N., to Cities Service Company. Pelletizer. 3,730,663, 5-1-73, Cl. 425-222.000.
Hare, Paul N., to Cities Service Company. Pelletizing process. 3,751,543, 8-7-73, Cl. 264-117.000.
Hare, Terence G.; and McCormick, Hugh. Single handle faucet valve. 3,747,641, 7-24-73, Cl. 137-625.410.
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Harel, Abraham, to United States of America, Air Force, mesne. Cross-mounted mask changer with thickness monitoring. 3,747,558, 7-24-73, Cl. 118-8.000.
Harelson, Robert G., to Emerson Electric Co. Machine for winding foil ribbon coils. 3,779,474, 12-18-73, Cl. 242-56.100.
Harendza-Harinxma, Alfred Joseph, to Western Electric Company, Incorporated. Methods of forming a conductive path using an oxygen plasma to reduce reflectivity prior to laser machining. 3,772,496, 11-13-73, Cl. 219-121.01m.
Hareng, Michel: *See—*
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Hares, George B.; and Morgan, David W., to Corning Glass Works. Optical glass with controlled ultraviolet transmission. 3,726,698, 4-10-73, Cl. 106-54.000.
Hargash, Paul, to Dow Chemical Company, The. Bending device. 3,757,560, 9-11-73, Cl. 72-458.000.
Hargest, Thomas S.: *See—*
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Hargett, Lawrence W. Portable collapsible playpen. 3,777,321, 12-11-73, Cl. 5-99.00c.
Hargett, Richard L.; and Humphrey, Samuel A., to United States of America, Navy. Homing depth bomb for searching for an underwater target. 3,738,270, 6-12-73, Cl. 102-7.000.
Hargett, Wyatt P., Jr.: *See—*
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Hargraves, William J. Overflow arrangement. 3,749,246, 7-31-73, Cl. 210-199.000.
Hargraves, William J. Sewage treatment venting system. 3,776,383, 12-4-73, Cl. 210-199.000.
Hargraves, William J., to Bertran & Hargraves, Inc. Aerobic sewage treatment. 3,780,997, 12-25-73, Cl. 261-77.000.
Hargreaves, Chester Arthur, II; and Piasecyznski, Stanley James, to Du Pont de Nemours, E. I., and Company. Dehydrohalogenation of halogenated compounds. 3,754,044, 8-21-73, Cl. 260-654.00d.
Hargreaves, Derek Burtt; and Staniforth, Eric, to National Research Development Corporation. Apparatus for mixing and dispensing different particulates materials in accurately controllable proportions. 3,741,442, 6-26-73, Cl. 222-142.000.
Hargreaves, James Roger; Jeffrey, Raymond; and Hickmott, Peter William, to Ciba-Geigy Corporation. 2,4-Disubstituted 3-amino-cyclohexenones. 3,769,284, 10-30-73, Cl. 260-247.70k.
Hari, Stefan, to Ciba-Geigy AG. Benzoquinone ethers and process for their manufacture. 3,732,259, 5-8-73, Cl. 260-396.00r.
Hari, Stefan; and Ronco, Karl, to Ciba-Geigy AG. Nickel complexes of dioximes and processes for their manufacture. 3,780,049, 12-18-73, Cl. 260-299.000.
Hari, Stefan; and Ronco, Karl, to Ciba-Geigy AG. Process for the manufacture of 2,5-diacyl amino-1, 4 benzoquinones. 3,780,071, 12-18-73, Cl. 260-396.00r.
Haricht, Ernst; and Nibls, Bernard, to Ciba-Geigy Corporation. 5-(2-Methylene-acyl-benzofuran-2-carboxylic acids and pharmaceutically acceptable salts thereof. 3,761,494, 9-25-73, Cl. 260-346.20r.
Harima Refractorics Co., Ltd.: *See—*
Nameishi, Naoyuki; Yoshino, Hajime; and Uto, Shigetoshi, 3,752,682.
Hariman, David S., 10% to Lee, Raymond, Organization, Inc., The. Rotary combustion engine. 3,750,630, 8-7-73, Cl. 123-8.190.
Haring, Donald R.; and King, Paul A., to Computek, Inc. Microprogrammed terminal. 3,778,775, 12-11-73, Cl. 340-172.500.
Haring, John H., to McCord Corporation. Ash tray assembly. 3,737,208, 6-5-73, Cl. 312-246.000.
Harita, Yoshiyuki: *See—*
Ichikawa, Mitsuo; Takeuchi, Yasumasa; Harita, Yoshiyuki; Endo, Masayuki; Yamaguchi, Nobuo; Tashiro, Matsuru; and Kogure, Akira, 3,717,613.
Ichikawa, Mitsuo; Takeuchi, Yasumasa; Harita, Yoshiyuki; Endo, Masayuki; Yamaguchi, Nobuo; Tashiro, Mitsuru; and Kogure, Akira, 3,753,959.
Harju, Philip H.: *See—*
Dickie, John P.; Harju, Philip H.; and Kostishack, David, 3,732,097.
Harke, Cyril J.; Parkinson, John C.; and Currey, John E., to Hooker Chemical Corporation. Electrochemical apparatus and process for the manufacture of halates. 3,732,153, 5-8-73, Cl. 204-95.000.
Harke, Raymond J.: *See—*
Wolff, David F.; and Harke, Raymond J., 3,762,812.
Harken, Claus; and Germer, Armin, to Licentia Patent-Verwaltungs-G.m.b.H. Drive device for back and forth movement. 3,774,093, 11-20-73, Cl. 318-135.000.
Harken, Russel D., to Monsanto Company. 2,2-Bis(carboxymethyl)-3-oxa-4-carboxy-4-hydroxy-butanoic acid lactone. 3,763,189, 10-2-73, Cl. 260-340.200.
Harkenrider, Robert J.; and Moc, John L., to Waynco, Inc. Control circuit for load having measureable coefficient of resistance. 3,758,844, 9-11-73, Cl. 323-22.00t.
Harker, Wesley H., to Emme Company, The. Method and apparatus for measuring fat content in animal tissue either in vivo or in slaughtered and prepared form. 3,735,247, 5-22-73, Cl. 324-34.00r.
Harkey, Johnny D.: *See—*
Burgess, Douglas P.; and Harkey, Johnny D., 3,724,509.
Harkins, Bruce F. Monetary decodifying device. 3,739,068, 6-12-73, Cl. 35-2.000.
Harkins, Mary B. Drapery hook pin applicator. 3,722,067, 3-27-73, Cl. 29-278.000.
Harkins, Samuel J., to Leeds & Northrup Company. Self-balancing recorder. 3,739,384, 6-12-73, Cl. 346-139.00c.
Harklau, Lanny L., to Minnesota Mining and Manufacturing Company. Spectral densitometer. 3,762,817, 10-2-73, Cl. 356-73.000.
Harkness, Benjamin F.; Humerickhouse, Billy J.; Matheis, Norbert E.; and Norris, Alfred W., to United States of America, Navy. Aircraft parachute flare having tapered core candle. 3,747,528, 7-24-73, Cl. 102-35.000.
Harkness, Eric Harold: *See—*
Fuchshuber, Karlheinz Herbert; and Harkness, Eric Harold, 3,739,245.
Harkness, Joseph R., to Briggs & Stratton Corporation. Rope starter for small engines. 3,754,543, 8-28-73, Cl. 123-185.00b.
Harkulich, Theodore M.: *See—*
Wainer, Eugene; Rose, Selwyn H.; and Harkulich, Theodore M., 3,724,066.
Harlam, Gerald F.; and Okolowicz, Marian A., to Pilling Chain Co. Inc. Slider construction for separable fasteners. 3,718,949, 3-6-73, Cl. 24-205.15r.
Harlan, Alfred R., to Motorola, Inc. Automatic eject mechanism for cassette tape player. 3,758,119, 9-11-73, Cl. 274-4.00e.
Harlan, Alfred R.; and Petersen, Ronald E., to Motorola, Inc. Record mode release mechanism. 3,765,685, 10-16-73, Cl. 274-4.00e.
Harlan, Alfred R., to Motorola, Inc. Mode selector disengage mechanism. 3,778,069, 12-11-73, Cl. 274-4.00c.
Harlan, Jerry C.; and Angus, William A., to TRW Inc. Tapered roller bearing assembly with antifriction molded cage. 3,733,111, 5-15-73, Cl. 308-218.000.
Harlan, Martin L.; and Kalvitz, Paul V., to Wolverine World Wide, Inc. Universal single side skinning machine. 3,744,407, 7-10-73, Cl. 99-589.000.



Harland, Glen E., Jr.; and Metzger, Robert W., Jr., to General Motors Corporation. Resistor isolation for double-mesa transistors.
Harmon, Kermit S.; and Loosley, Donal W. Temperature sensitive

Harland, Glen E., Jr.; and Metzger, Robert W., Jr., to General Motors Corporation. Resistor isolation for double mesa transistors. 3,755,722, 8-28-73, Cl. 317-235.00r.

Harland, Philip W., to Ametek, Inc. Backhoe depth gauge. 3,724,278, 4-3-73, Cl. 73-432.0ha.

Harlin, Lester E.: *See—*
Abendschein, Frederic H.; Harlin, Lester E.; and Mount, Alfred G., 3,743,453.

Harlin, Lester E., to Borg-Warner Corporation. Method for assembling a rotary sliding vane compressor. 3,760,478, 9-25-73, Cl. 29-156.40r.

Harlin, Paul L. Cam generating device. 3,730,052, 5-1-73, Cl. 90-20.000.

Harllee, Gloria C.; and Woods, John D. Smoke filter plug and process and cigarette made therefrom. 3,752,165, 8-14-73, Cl. 131-10.500.

Harlow, Justin E., III; Swann, Richard C. G.; Penton, Jack I.; and Bakker, Martin B., to International Telephone and Telegraph Corporation. Planar silicon gate MOS process. 3,761,327, 9-25-73, Cl. 148-187.000.

Harmala, Erkki E. Walking vehicles. 3,765,499, 10-16-73, Cl. 180-8.00e.

Harman, Charles P.: *See—*
Bennett, David B.; Harman, Charles P.; and Follen, Robert J., 3,761,930.

Harman, Charles P., Jr.: *See—*
Bennett, David B.; Follen, Robert J.; and Harman, Charles P., Jr., 3,714,648.

Harman, Gordon S.: *See—*
Capps, Raymond H.; and Harman, Gordon S., 3,712,939.

Harman, James D. Ceiling tile. 3,708,940, 1-9-73, Cl. 52-588.00.

Harman, James D. Light weight panel construction. 3,720,032, 3-13-73, Cl. 52-618.000.

Harman, John W. Front fork assembly for two wheel vehicles. 3,730,553, 5-1-73, Cl. 280-277.000.

Harman, Julius; and Norman, Michael Eric, to Herbert, Alfred, Limited. Lathes. 3,733,940, 5-22-73, Cl. 82-21.00r.

Harman, Julius; and Norman, Michael Eric, to Herbert, Alfred, Limited. Lathes with chuck transfer mechanism. 3,779,110, 12-18-73, Cl. 82-200.500.

Harman, Maurice, to Notting, W., Limited. Dies for cutting shapes. 3,745,857, 7-17-73, Cl. 76-107.00c.

Harman, Ralston L.: *See—*
Tarbox, Willis; Dolan, Vincent; and Harman, Ralston L., 3,779,566.

Harman-Kordon, Incorporated: *See—*
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Harmes, Clyde S., III, to New Brunswick Scientific Co., Inc. Liquid-sampling structure. 3,744,319, 7-10-73, Cl. 73-422.00r.

Harmes, Lee D.: *See—*
Elgert, Albert H.; and Harmes, Lee D., 3,733,869.

Harmetz, Ronald: *See—*
Sletzinger, Meyer; Reinhold, Donald F.; and Harmetz, Ronald, 3,766,259.

Harmeyer, Stanley G.: *See—*
Krasienko, Chester A.; and Harmeyer, Stanley G., 3,760,314.

Harmon, Albert D.: *See—*
Anderson, Gordon C.; and Harmon, Albert D., 3,728,852.
Cleland, Luther A., Jr.; and Harmon, Albert D., 3,728,550.

Harmon, Albert D., to Maremont Corporation. Yarn joining assembly for automatic yarn piecing apparatus. 3,712,040, 1-23-73, Cl. 57-34.00r.

Harmon, Carlyle, to Johnson & Johnson. Apertured nonwoven fabrics and methods of making the same. 3,741,724, 6-26-73, Cl. 8-115.500.

Harmon, Carlyle; and Sibbach, William, to Johnson & Johnson. Sheet material. 3,746,607, 7-17-73, Cl. 161-109.000.

Harmon Electronics, Inc.: *See—*
Stevens, Harry S.; Karr, Jerry W.; Miller, Dennis D.; and Ballinger, Forrest H., 3,748,580.

Harmon, Emerson R., to Amalga Corporation, mesne. Producing a filament wound fuseholder. 3,775,207, 11-27-73, Cl. 156-173.000.

Harmon, George Lamar: *See—*
Roberts, Richard E.; Harmon, George Lamar; Colpack, Michael J.; and Askowith, Burton J., 3,772,516.

Harmon, James D., to Inland Service Corporation. Dredging head with pivotally mounted mud shield. 3,738,029, 6-12-73, Cl. 37-66.000.

Harmon, James F.: *See—*
Beck, Roderick; Harmon, James F.; Shatila, Mounir A.; Richins, David A.; and Lach, John, 3,764,345.

Harmon, James F.; Johnston, Richard D.; Lach, John H.; Von Der Lieth, William H.; and Murphy, Thomas L., to American Potato Company. Apparatus for forming shaped potato pieces. 3,771,937, 11-13-73, Cl. 425-161.000.

Harmon, Kenneth E., to United Aircraft Corporation. Exit area schedule selector system. 3,767,120, 10-23-73, Cl. 239-265.390.

Harmon, Kenneth N. Combined throttle spoiler actuator for aircraft. 3,774,869, 11-27-73, Cl. 244-83.00r.

Harmon, Kermit S.; and Loosley, Donal W. Temperature sensitive controls for air conditioning systems. 3,743,182, 7-3-73, Cl. 236-78.000.

Harmon, Paul E.; and Mainstone, Kenneth A., to Black Clawson Company, The. Flat film plastic extrusion apparatus. 3,734,662, 5-22-73, Cl. 425-131.000.

Harmon, Shepard Lewis, to Owens-Illinois, Inc. Cap sorting apparatus. 3,752,294, 8-14-73, Cl. 198-33.0aa.

Harms, David Christopher, to Plessey Handel und Investments A.G. Digital information storage unit having parallel stores and a control therefor. 3,735,051, 5-22-73, Cl. 179-18.0eb.

Harms, John F. Upflow cartridge filter apparatus. 3,720,322, 3-13-73, Cl. 210-238.000.

Harms, Van Deursen; Jensen, Edward R.; and Langan, Robert E., to CPC International Inc. Method for preparing food snack compositions. 3,753,729, 8-21-73, Cl. 99-82.000.

Harms, William J.: *See—*
Anderson, Theodore D.; and Harms, William J., 3,721,478.

Harms, Wolf-Henning, to Krone GmbH. Voltage detector for sensing and digitally encoding states of potential. 3,731,118, 5-1-73, Cl. 307-255.000.

Harms, Wolf-Henning, to Krone GmbH. Switching signal converter for a time multiplex PCM transmission system. 3,758,725, 9-11-73, Cl. 179-15.0by.

Harms, Wolfgang: *See—*
Gunter, Gehrke; Hederich, Volker; Harms, Wolfgang; and Wagner, Peter, 3,723,480.

Harmsen, Johan L. Conductor rail support element. 3,735,845, 5-29-73, Cl. 191-32.000.

Harmsen, Willem: *See—*
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Harna, Hyacint E., to Zenith Radio Corporation. Semi-random pulse generator. 3,716,796, 2-13-73, Cl. 328-63.000.

Harna, Hyacint E.; and Merrell, Richard G., to Zenith Radio Corporation. Inhibitable random pulse generator. 3,732,355, 5-8-73, Cl. 178-5.100.

Harna, Hyacint E., to Zenith Radio Corporation. Air code burst generator. 3,780,213, 12-18-73, Cl. 178-5.100.

Harnau, Hans-Dieter: *See—*
Petzsch, Lothar; and Harnau, Hans-Dieter, 3,712,231.

Harnden, C. A., Limited: *See—*
Plevin, Harold, 3,779,475.

Harnden, John D., Jr.: *See—*
Jones, Clifford M.; and Harnden, John D., Jr., 3,727,185.
Kornrumpf, William P.; and Harnden, John D., Jr., 3,742,173.
Kornrumpf, William P.; and Harnden, John D., Jr., 3,770,928.
Shattuck, Donald P.; and Harnden, John D., Jr., 3,742,272.
Tasca, Dante M.; Harnden, John D., Jr.; and Martzloff, Francois D., 3,711,794.
Turnbull, Fred C.; and Harnden, John D., Jr., 3,745,505.

Harnden, John D., Jr., to General Electric Company. Switch assembly having wafers of metal oxide varistor material. 3,710,058, 1-9-73, Cl. 200-166.00c.

Harnden, John D., Jr., to General Electric Company. Electrical switches and circuits therefor. 3,710,061, 1-9-73, Cl. 200-166.00c.

Harnden, John D., Jr., to General Electric Company. Electromagnetic devices having a metal oxide varistor core. 3,710,187, 1-9-73, Cl. 317-15.000.

Harnden, John D., Jr., to General Electric Company. Switch with surge protection. 3,711,668, 1-16-73, Cl. 200-166.00c.

Harnden, John D., Jr.; Kornrumpf, William P.; and Marquardt, Robert A., to General Electric Company. Sequential flashing of multiple lamps by low cost static control circuit of integrated design. 3,714,508, 1-30-73, Cl. 315-241.000.

Harnden, John D., Jr.; and Kornrumpf, William P., to General Electric Company. Induction cooking/warming appliance including vessel supporting means having an undulant surface and temperature sensing means associated with said surface. 3,715,550, 2-6-73, C. 219-10.490.

Harnden, John D., Jr., to General Electric Company. Induction cooking appliance including temperature sensing of inductively heated cooking vessel by "modulated" light. 3,719,789, 3-6-73, Cl. 219-10.490.

Harnden, John D., Jr.; and Kronrumpf, William P., to General Electric Company. Static electronic photoflash assembly and method of photoflash lighting. 3,728,947, 4-24-73, Cl. 95-11.50r.

Harnden, John D., Jr., to General Electric Company. Protective connector devices. 3,740,701, 6-19-73, Cl. 338-220.000.

Harnden, John D., Jr., to General Electric Company. Induction cooking appliance including cooking vessel having means for transmission of temperature data by light pulses. 3,742,174, 6-26-73, Cl. 219-10.490.

Harnden, John D., Jr., to General Electric Company. Induction cooking appliance including temperature sensing of food in inductively heated vessel with immersion-type temperature sensing means. 3,742,175, 6-26-73, Cl. 219-10.490.

Harnden, John D., Jr., to General Electric Company. Induction cooking appliance including cooking vessel having means for wireless transmission of temperature data. 3,742,178, 6-26-73, Cl. 219-10.770.

Harnden, John D., Jr., to General Electric Company. Induction cooking appliance including wireless transmission of temperature data. 3,742,179, 6-26-73, Cl. 219-10.770.

Harnden, John D., Jr. Protective electrical feed-through assemblies for enclosures for electrical devices. 3,742,420, 6-26-73, Cl. 338-21.000.

Harnden, John D., Jr., to General Electric Company. Hybrid circuit arrangement with metal oxide varistor shunt. 3,743,897, 7-3-73, Cl. 317-235.00r.

Harnden, John D., Jr., to General Electric Company. Protective pads for electrical devices. 3,743,996, 7-3-73, Cl. 338-21.000.

Harnden, John D., Jr.; and Kornrumpf, William P., to General Electric Company. Inductively heatable utensils or vessels for heating, serving and storing food. 3,745,290, 7-10-73, Cl. 219-10.490.

Harnden, John D., Jr.; and Kornrumpf, William P., to General Electric Company. Small electrical apparatus powered by induction cooking appliances. 3,761,668, 9-25-73, Cl. 219-10.430.

Harnden, John D., Jr., to General Electric Company. Metal oxide varistor with laterally spaced electrodes. 3,768,058, 10-23-73, Cl. 338-20.000.

Harnden, John D., Jr., to General Electric Company. Potted metal oxide varistor. 3,771,091, 11-6-73, Cl. 338-20.000.

Harnden, John D., Jr., to General Electric Company. Contact-less initiation of light emission from photo lamps synchronized with camera operation. 3,774,511, 11-27-73, Cl. 95-11.50r.

Harnden, John D., Jr.; and Kornrumpf, William P., to General Electric Company. Solid state induction cooking appliances and circuits. 3,781,503, 12-25-73, Cl. 219-10.490.

Harnden, John D., Jr., to General Electric Company. Induction cooking appliance including temperature sensing of inductively heated cooking vessel by radiation detection means. 3,781,504, 12-25-73, Cl. 219-10.490.

Harnden, Michael Raymond, to Abbott Laboratories. 2-Amino-5-spiro substituted oxazolin-4-one compounds. 3,720,681, 3-13-73, Cl. 260-293.660.

Harnden, Michael Raymond, to Beecham Group Limited. N-Oxide of double stranded RHR. 3,775,398, 11-27-73, Cl. 260-211.50r.

Harnden, Michael Raymond, to Beecham Group Limited. N-Oxide of poly I: poly C. 3,775,399, 11-27-73, Cl. 260-211.50r.

Harnden, Warren B.; and Morrill, Eugene H., to Illinois National Bank & Trust Company. Electroflotation apparatus. 3,726,780, 4-10-73, Cl. 204-275.000.

Harned, John L.: *See—*
Bowler, Lauren L.; and Harned, John L., 3,718,376.
Bowler, Lauren L.; and Harned, John L., 3,727,992.
Bowler, Laurence L.; and Harned, John L., 3,718,375.

Harned, John L.; and Stewart, Edwin E., to General Motors Corporation. Hydraulic anti-lock brake control system. 3,715,145, 2-6-73, Cl. 303-21.00f.

Harned, John L., to General Motors Corporation. Anti-lock brake control system. 3,717,384, 2-20-73, Cl. 303-21.0be.

Harned, John L.; and Johnston, Laird E., to General Motors Corporation. Hydraulic vehicle ground speed computer. 3,718,377, 2-27-73, Cl. 303-21.0cg.

Harned, John L.; and Johnston, Laird E., to General Motors Corporation. Hydraulic anti-lock control system. 3,720,447, 3-13-73, Cl. 303-21.00b.

Harner, Kermit I., to United Aircraft Corporation. Turbine power plant control with an on-line optimization control. 3,758,764, 9-11-73, Cl. 235-150.200.

Harner, Kermit I.; and Schneider, Roy W., to United Aircraft Corporation. Turbine power plant control system. 3,764,785, 10-9-73, Cl. 235-150.210.

Harner, Robert H.; Meister, Otto; and Owen, Robert E., to S.C. Electric Company. Exhaust control device for circuit interrupting devices. 3,719,912, 3-6-73, Cl. 337-280.000.

Harnessed Energies, Inc.: *See—*
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Harnett, John P., to International Minerals & Chemical Corporation. Compost for removing oil films from water. 3,771,653, 11-13-73, Cl. 210-40.000.

Harnex, Inc.: *See—*
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Harney, Ralph, to Oak Electro/Netics Corporation. Cable television monitoring system. 3,769,579, 10-30-73, Cl. 325-31.000.

Harnick, Robert, to Blair Manufacturing Co. Chair with replaceable upholstery cover. 3,722,950, 3-27-73, Cl. 297-218.000.

Harnisch, Douglas R.: *See—*
Stefanucci, Arthur; Harnisch, Douglas R.; Coogan, Joseph E., III; and Scarsella, Edward L., 3,725,076.

Harnisch, Heinz: *See—*
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Meurer, Peter Lorenz; Dorn, Friedrich Wilhelm; and Harnisch, Heinz, 3,723,608.
Preisler, Eberhard; Harnisch, Heinz; and Mietens, Gerhard, 3,723,265.
Preisler, Eberhard; Grapentin, Kurt; Harnisch, Heinz; and Mietens, Gerhard, 3,773,916.
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Harnisch, Horst, to Bayer Aktiengesellschaft. Basic azoloindoline dyestuffs. 3,775,407, 11-27-73, Cl. 260-240.100.

Harnischfeger Corporation: *See—*
Eckert, Herbert L., 3,768,322.
Fournier, Oscar A., 3,771,666.
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Stone, David W.; and Hansen, Manfred A., 3,772,579.
Witwer, Wallace J., 3,776,518.
Witwer, Wallace J., 3,777,899.

Harnish, Wayne N.; Sticker, Robert E.; and Carls, Glen A., to FMC Corporation. Phenylazoalkenoate fungicidal compositions. 3,715,435, 2-6-73, Cl. 424-226.000.

Harnoncourt, Karl, to AVL AG. Gas mixer. 3,712,325, 1-23-73, Cl. 137-597.000.

Harnoncourt, Karl; and Zeiringer, Rudolf, to List, Hans. Electrode arrangement for the measurement of partial pressures of gases. 3,723,280, 3-27-73, Cl. 204-195.00p.

Harnsberger, Bobby G., to Texaco Inc. Sand consolidation method and composition. 3,720,640, 3-13-73, Cl. 260-33.60r.

Harnstone, Leonard A.; Levy, Robert E.; Morris, Stanley M.; Lopez, Alfredo M.; Mosler, Henry A.; and Bartman, Robert V., to Esso Research and Engineering Company. Constraint control system for optimizing performance of process units. 3,781,533, 12-25-73, C. 235-150.100.

Harold, Marshall C., to General Motors Corporation. Lid latch and interlock mechanism for clothes washing machines. 3,763,670, 10-9-73, Cl. 68-12.00r.

Harolow, James H., to Allis-Chalmers Corporation. Transformer having improved heat dissipating system. 3,713,060, 1-23-73, Cl. 336-58.000.

Haroski, Anthony A. Offset seesaw. 3,709,486, 1-9-73, Cl. 272-30.000.

Haroules, George G.; and Brown, Wilfred E., to United States of America, National Aeronautics and Space Administration. Method and apparatus for measuring solar activity and atmospheric radiation effects. 3,737,905, 6-5-73, Cl. 343-100.0me.

Harowe Servo Controls, Inc.: *See—*
Dennis, Jack R., 3,733,504.

Harp, Harry J., to Union Carbide Corporation. Method and apparatus for producing a gang of separably interconnected elongate articles. 3,780,921, 12-25-73, Cl. 225-2.000.

Harp, John. Filter presses. 3,754,657, 8-28-73, Cl. 210-230.000.

Harpad Company: *See—*
Hart, Don Rex, 3,727,585.

Harpe, Ralph W.; and Schrader, Henry S., to United States of America, Army. Orbital sumulation facility. 3,734,613, 5-22-73, Cl. 355-47.000.

Harpell, Gary A., to Goodrich-Gulf Chemicals, Inc. Antioxidant compositions and polymers stabilized thereby. 3,754,056, 8-21-73, Cl. 260-892.000.

Harper, Ann K.: *See—*
Harper, John L., 3,718,961.

Harper, Bruce Melvin. Universal mounting bracket. 3,738,600, 6-12-73, Cl. 248-121.000.

Harper, David William: *See—*
Reid, Alexander Mailer; Harper, David William; and Forber, Albert, 3,726,656.

Harper, Earl F.; and Williamson, Roger C., to Gulf Research & Development Company. Process for transalkylating diethyl benzene. 3,769,360, 10-30-73, Cl. 260-672.00t.

Harper, Ernest A.: *See—*
De Marco, Salvador S.; and Harper, Ernest A., 3,719,053.

Harper, George C.: *See—*
Townsend, George R.; Price, Edmund J.; and Harper, George C., 3,768,016.

Harper, George S.; and Shand, John Richard, to Airpax Electronics Incorporated. Circuit breaker housing. 3,749,873, 7-31-73, Cl. 200-168.00r.

Harper, George S., to Airpax Electronics Incorporated. Dust seal high performance breaker. 3,780,249, 12-18-73, Cl. 200-168.00g.

Harper, Henry J. Seat-height adjustment device. 3,727,871, 4-17-73, Cl. 248-406.000.

Harper, Ingeborg T.: *See—*

Levine, Seymour D.; and Harper, Ingeborg T., 3,732,299.
Harper, James C.; and Green, Robert P., to Geophysical Research Corporation. Pressure gauge. 3,744,307, 7-10-73, Cl. 73-151.000.
Harper, James E. Non-ferrous lithographic printing plate glassing composition. 3,775,135, 11-27-73, Cl. 106-2.000.
Harper, James W.; and Dietrich, Gary L. Multi-level game board structure for three-dimensional chess and checker games. 3,767,201, 10-23-73, Cl. 273-131.0ac.
Harper, John: *See—*
Wolfberg, Larry B.; and Harper, John, 3,707,773.
Wolfberg, Larry B.; and Harper, John, 3,756,889.
Harper, John D. Wave riding water barrier. 3,718,001, 2-27-73, Cl. 61-1.00f.
Harper, John Ford. Buffing wheel. 3,724,140, 4-3-73, Cl. 51-332.000.
Harper, John L.; deccased (by Harper, Ann K.; executrix). Electrical connection between dissimilar metals. 3,718,961, 3-6-73, Cl. 29-191.000.
Harper, Judson M.: *See—*
Bateson, Robert N.; and Harper, Judson M., 3,746,546.
Harper, Lee R.: *See—*
Chu, Edward; and Harper, Lee R., 3,711,445.
Harper, Marie R.; and Blea, Maxine R., to Harper-Blea, Incorporated. Automatically rocking baby cradle. 3,769,641, 11-6-73, Cl. 5-109.000.
Harper, Murry D. Tractor. 3,777,837, 12-11-73, Cl. 180-70.00r.
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Lulie, Albert L.; and Harper, Paul D., 3,712,186.
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Harper, Robert; Wong, Jeffrey; and Zavadil, David, to Raytheon Company. Circuit velocity step taper for suppression of backward wave oscillation in electron interaction devices. 3,761,760, 9-25-73, Cl. 315-3.600.
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Harper, Robert C., to Cincinnati Milling Machine Co., The. Process for molding polyurethane utilizing a mixture of two blowing agents. 3,745,203, 7-10-73, Cl. 264-48.000.
Harper, Robert C., to Cincinnati Milacron Inc. Fluid metering system. 3,746,048, 7-17-73, Cl. 137-628.000.
Harper, Robert C.; Creeden, G. W.; and Sourup, Victor G., to Cincinnati Milacron Inc. Multi-stage mixing device. 3,746,311, 7-17-73, Cl. 259-7.000.
Harper, Robert J., Jr.; Blanchard, Eugene J.; Lofton, John T.; and Gautreaux, Gloria A., to United States of America, Agriculture. Process for producing varicolored fabrics via the selective dyeing of cellulosic fabrics with different dye types. 3,775,046,11-27-73, Cl. 8-17.000.
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Harper, William H.; Peace, Charles R.; and Keller, Jake B., to A.M.H. Equipment, Inc. Mobile particulate material carrier and dispenser. 3,730,396, 5-1-73, Cl. 222-166.000.
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Harr, George B., to Firestone Tire & Rubber Company, The. Liquid container cells. 3,772,071, 11-13-73, Cl. 117-138.80d.
Harr, Jerome Danforth, to International Business Machines Corporation. Magnetic recording and reproduction apparatus for single picture video with audio. 3,715,481, 2-6-73, Cl. 178-6.6fs.
Harr, Jerome Danforth; and McMurtry, David Harwood, to International Business Machines Corporation. Manually operated bar coding scanning system. 3,735,142, 5-22-73, Cl. 250-219.00d.
Harr, Jerome Danforth, to International Business Machines Corporation. Optical bar coding scanning apparatus. 3,770,940, 11-6-73, Cl. 235-61.11e.
Harrah, Robert E., to Microphor, Inc. Flush toilet and method. 3,720,962, 3-20-73, Cl. 4-52.000.
Harrah, Robert S. Pneumatic annunciator system. 3,720,182, 3-13-73, Cl. 116-65.000.
Harrah, Robert S. Monitoring apparatus responsive to operation of cooperative equipment at more than a predetermined rate. 3,729,024, 4-24-73, Cl. 137-624.130.
Harrell, Bob G.; and Harbaugh, Arthur, to Jackes-Evans Manufacturing Company. Knock-down drawer. 3,729,246, 4-24-73, Cl. 312-330.000.
Harrell, Jerald R.; Logothetis, Anestis L.; and Verbanc, John J., to Du Pont de Nemours, E. I., and Company. Hydroxylated alpha-olefin/non-conjugated diene. 3,752,699, 8-14-73, Cl. 117-141.000.
Harrell, Larry D.; and Daniels, Jesse, to Lilliston Corporation. Peanut digger shaker inverter. 3,726,345, 4-10-73, Cl. 171-101.000.
Harrell, Larry D., to Lilliston Corporation. Crop directing disc and/or assembly. 3,750,865, 8-7-73, Cl. 198-211.000.
Harrelson, Glen R., to Olinkraft, Inc. Longitudinal stabilizer tab for basket-style carriers. 3,739,940, 6-19-73, Cl. 220-113.000.
Harrick, Nicolas J. Fluorescence spectrophotometry using multiple reflections to enhance sample absorption and fluorescence collection. 3,715,585, 2-6-73, Cl. 250-71.00r.
Harrie, James Richard. Self-instructional and self-testing apparatus. 3,754,337, 8-28-73, Cl. 35-9.00r.
Harrier, Jack L., to Standard Oil Company (Indiana). Process for preparing fiberglass preforms. 3,715,233, 2-6-73, Cl. 117-126.0gb.
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Harrington, Eustace Lionel Ernest; and Duncombe, Edward, to United Kingdom Atomic Energy Authority. Control of nuclear reactors. 3,773,619, 11-20-73, Cl. 176-86.00m.
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Harrington, H. Richard, to Mixing Equipment Co. Mixing system for floating roof tanks. 3,762,690, 10-2-73, Cl. 259-108.000.
Harrington, Horrall, 50% to Himmel, Ivan. Inflatable form for concrete building shell. 3,719,341, 3-6-73, Cl. 249-65.000.
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Harrington, Joseph K.; and Trepka, Robert D., to Minnesota Mining and Manufacturing Company. N-(heterocyclicalkyl) fluoroalkanesulfonamides. 3,766,193, 10-16-73, Cl. 260-294.80f.
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Harris, Alva F., to Monsanto Company. Method for agglomerating and stabilizing rubbery polymer latices. 3,716,509, 2-13-73, Cl. 260-23.07a.
Harris, Anthony Roberts, to Dunhill Lighters Limited. Portable gas lighter with magnetically operated lid. 3,758,262, 9-11-73, Cl. 431-130.000.
Harris, Arthur M. Valve for pressurized liquid dispenser. 3,708,090, 1-2-73, Cl. 222-402.20.
Harris, Arthur M. Electroacoustic means for separation of glued joints. 3,719,543, 3-6-73, Cl. 156-584.000.
Harris, Arthur Winslow; and Adkins, Robert Louis, to Chicago Bridge & Iron Company. Self-centering turntable for machining large circular objects. 3,738,205, 6-12-73, Cl. 82-4.00r.
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Harris, Bradford Foster; and Scarfone, Tommaso F., to Fedders Corporation. Crankcase evacuation and oil return system. 3,713,513, 1-30-73, Cl. 184-6.160.
Harris, Brantly. Portable spray apparatus. 3,726,443, 4-10-73, Cl. 222-333.000.
Harris, Carl L.; Rama, Leighton C.; and Soward, Dallas V., to Electro Development Corporation. Aircraft hard landing indicator. 3,712,122, 1-23-73, Cl. 73-88.50r.
Harris, Charles G. Vending machine for periodicals having arcuate path ejector. 3,709,405, 1-9-73, Cl. 221-209.000.
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Harris, Edward J., to Harris, Frances. Process of manufacturing radial tires. 3,726,735, 4-10-73, Cl. 156-132.000.
Harris, Edward J., to Harris, Frances. Tire-builder. 3,726,742, 4-10-73, Cl. 156-400.000.
Harris, Edward T.: *See—*
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Harris, Ewell J. Combination fish lure and swivel. 3,738,045, 6-12-73, Cl. 43-42.120.
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Harris, George V., to Caterpillar Tractor Company. Backdraft rubber skin mold pattern. 3,738,418, 6-12-73, Cl. 164-245.000.
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Harris, Hilary. Motion picture sound processing apparatus. 3,740,125, 6-19-73, Cl. 352-17.000.
Harris, Howard E.; and Miskowicz, Carl J., to Schering Corporation. Novel process for preparing steroid halohydrins and vinyl halides. 3,766,225, 10-16-73, Cl. 260-397.400.
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Harris, Jesse W., to Tampo Manufacturing Company, Inc. Ground compacting apparatus. 3,741,669, 6-26-73, Cl. 404-117.000.
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Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,365, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,366, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,367, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,368, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,369, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,370, 8-14-73, Cl. 221-17.000.
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Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,373, 8-14-73, Cl. 221-17.000.
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Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,376, 8-14-73, Cl. 221-17.000.
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Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,378, 8-14-73, Cl. 221-17.000.
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Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,380, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,381, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,382, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,383, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,384, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,385, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,386, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,387, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,388, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,389, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,390, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,391, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,392, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,393, 8-14-73, Cl. 221-17.000.
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Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,396, 8-14-73, Cl. 221-17.000.
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Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,399, 8-14-73, Cl. 221-17.000.
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Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,404, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,405, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,406, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,407, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,408, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,409, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,410, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,411, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,412, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,413, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,414, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,415, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,416, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,417, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,418, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,419, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,420, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,421, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,422, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,423, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,424, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,425, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,426, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,427, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,428, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,429, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,430, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,431, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,432, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,433, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,434, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,435, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,436, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,437, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,438, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,439, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,440, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,441, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,442, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,443, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,444, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,445, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,446, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,447, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,448, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,449, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,450, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,451, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,452, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,453, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,454, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,455, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,456, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,457, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,458, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,459, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,460, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,461, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,462, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,463, 8-14-73, Cl. 221-17.000.
Harris, John Derek; and Humpage, Roy William, to Rowe International, Inc. Vending machine. 3,752,464, 8-14-73, Cl. 221-17.000.
Harris, John

Harris, John Derek, to Lucas, Joseph, (Industries) Limited. Improvements in and relating to manufacture of electric storage batteries. 3,745,635, 7-17-73, Cl. 29-204.000.
Harris, John F., Jr., to Du Pont de Nemours, E. I., and Company. Preparation of aromatic nitriles by reaction of aromatic halides with metal cyanates and carbon monoxide in the presence of nickel or palladium catalysts. 3,755,409, 8-28-73, Cl. 260-465.00r.
Harris, John Frederick George, to Laporte Chemicals Limited. Solid blends of peroxy compounds and phosphate containing detergent bases. 3,743,600, 7-3-73, Cl. 252-95.000.
Harris, John L., to Deltrol Corporation. Condition control device and system. 3,716,720, 2-13-73, Cl. 307-141.000.
Harris, John L., to Deltrol Corporation. Dual adjustment cycling timer. 3,722,294, 3-27-73, Cl. 74-3.520.
Harris, John L., to Deltrol Corporation. Latch-trip cam operated percentage timer. 3,723,676, 3-27-73, Cl. 200-39.00r.
Harris, John L., to Deltrol Corporation. Condition control device and system. 3,729,615, 4-24-73, Cl. 219-486.000.
Harris, John L. Condition control device and system. 3,731,174, 5-1-73, Cl. 318-485.000.
Harris, John L., to Deltrol Corporation. Dual range manual preset timer. 3,736,799, 6-5-73, Cl. 74-3.520.
Harris, John L., to Deltrol Corporation. Condition control device and system. 3,737,820, 6-5-73, Cl. 335-65.000.
Harris, John L., to Deltrol Corporation. Motor release energy storage means for retarded type timer mechanism. 3,745,273, 7-10-73, Cl. 200-40.000.
Harris, John L.; and Hellman, Robert W., to Quick-Sane, Inc. Quick release life saving equipment. 3,754,291, 8-28-73, Cl. 9-14.000.
Harris, John L., to Deltrol Corporation. Condition control device and system. 3,772,620, 11-13-73, Cl. 335-63.000.
Harris, John P. Exercising apparatus. 3,752,150, 8-14-73, Cl. 128-2.00s.
Harris, Joseph I., to Super Key Associates, mesne. Automatic checkout and inventory control. 3,737,631, 6-5-73, Cl. 235-61.60r.
Harris, Joseph Warren, to C. R. Industries. Apparatus for positioning metering devices. 3,722,065, 3-27-73, Cl. 29-237.000.
Harris, Lawrence A.: *See—*
Webster, Harold F.; and Harris, Lawrence A., 3,778,229.
Harris, Lawrence A., to General Electric Company. Multibeam cathode ray tube utilizing D.A.M. grid. 3,778,658, 12-11-73, Cl. 313-69.00r.
Harris, Lawson P., to General Electric Company. Vacuum arc devices with ferrous electrodes. 3,769,538, 10-30-73, Cl. 313-233.000.
Harris, Le Roy S., to K-G Industries, Inc. Briquet breaker means. 3,713,763, 1-30-73, Cl. 425-308.000.
Harris, Leonard Frederick: *See—*
Pass, Peter John; Carr, Douglas Wesley; Knight, Rogers Evert; Selder, Ronald; Morrell, Moreton; Smith, Leslie William; Harris, Leonard Frederick; and Van Bastelaere, Karel Leon August, 3,741,236.
Harris, Leroy S., to K-G Industries, Inc. Drive means for material compacting apparatus. 3,734,659, 5-22-73, Cl. 425-145.000.
Harris, Leroy S., to K-G Industries, Inc. Hydraulic roll drive means for briquetters and compactors. 3,765,173, 10-16-73, Cl. 60-97.00e.
Harris, Leroy S., to K-G Industries, Inc. Compacting roll structure and method. 3,775,820, 12-4-73, Cl. 29-118.000.
Harris, Leroy S., to K-G Industries, Inc. Apparatus for agglomerating particulate material. 3,781,151, 12-25-73, Cl. 425-145.000.
Harris, Louis Selig; Pars, Harry George; and Razdan, Raj Kumar, to Sharps Associates. 5,5-Dimethyl-10-hydroxy-8-(3-methyl-2-octyl)-2 -(2-propynyl)-1,2,3,4-tetrahydro-5H(1)-benzopyrano (3,4-d) pyridine as an anti-diarrheal agent. 3,777,028, 12-4-73, Cl. 424-63.000.
Harris, Martin: *See—*
Swimmer, James A.; and Harris, Martin, 3,722,838.
Swimmer, James A.; and Harris, Martin, 3,778,970.
Harris, Marvin W., to Scorpion, Inc. Snowmobile track with friction reducing means. 3,774,979, 11-27-73, Cl. 305-24.000.
Harris, Melvin: *See—*
Buchler, Arthur; Schuetz, Hans Ulrich; Macusezahl, Dieter; Harris, Melvin; and Guth, Christian, 3,776,767.
Schibler, Luzius; and Harris, Melvin, 3,778,383.
Harris, Michael Faulkner, to Gulley Company Limited. Motorized rack and pinion actuated track mounted tool carriage. 3,756,670, 9-4-73, Cl. 308-6.00r.
Harris, Michael R., to Phillips Petroleum Company. Blow molding apparatus including ball spline shaft for rapid and precise parison transfer. 3,721,514, 3-20-73, Cl. 425-387.000.
Harris, Nicholas D., to Morton-Norwich Products, Inc. Process for preparing diethyl 3,4-dialkoxyanilinomethylenemalonates. 3,721,702, 3-20-73, Cl. 260-471.00a.
Harris, Norman E., to United States of America, Army. Dehydrated food coated with edible oil, gelatin glycerin aqueous emulsion. 3,726,693, 4-10-73, Cl. 99-199.000.
Harris, Norman M.: *See—*
Markolf, Keith L.; and Harris, Norman M., 3,741,205.
Harris Paint Company: *See—*
Coffey, Charles A.; and Catena, Michael J., 3,725,119.
Coffey, Charles A.; and Catena, Michael J., 3,764,067.
Harris, Paul Anthony, to Lucas, Joseph, (Industries) Limited. Speed limiting systems for internal combustion engines. 3,776,204, 12-4-73, Cl. 123-102.000.
Harris, Philip G.: *See—*
Lovell, John A.; and Harris, Philip G., 3,730,822.
Harris, Purdy & McIntosh Limited: *See—*
Purdy, Haydn Victor; and McIntosh, Ronald Campbell, 3,747,484.
Harris, Rano J., Jr.: *See—*
Harris, Rano J., Sr.; and Harris, Rano J., Jr., 3,730,389.
Harris, Rano J., Sr.; and Harris, Rano J., Jr., 3,754,443.
Harris, Rano J., Sr.; and Harris, Rano J., Jr., 3,757,981.
Harris, Rano J., Sr.; and Harris, Rano J., Jr., to Precision Sampling Corporation. Syringe. 3,730,389, 5-1-73, Cl. 222-31.000.
Harris, Rano J., Sr.; and Harris, Rano J., Jr. Automatic fluid injector. 3,754,443, 8-28-73, Cl. 73-422.0gc.
Harris, Rano J., Sr.; and Harris, Rano J., Jr. Valves and valve needle syringes. 3,757,981, 9-11-73, Cl. 215-37.00r.
Harris, Raymond. Snagless fishing hook. 3,727,340, 4-17-73, Cl. 43-43.200.
Harris, Richard K.: *See—*
Wilson, Stanley D.; and Harris, Richard K., 3,709,031.
Harris, Richard William; and Handley, John, to Molins Machine Company Limited. Splicing apparatus for splicing the adhesive leading end of a waiting web onto a running web. 3,728,197, 4-17-73, Cl. 156-506.000.
Harris, Robert A. Method of forming metal. 3,712,105, 1-23-73, Cl. 72-307.000.
Harris, Robert E.; and Moseley, William R., to Mobil Oil Corporation. Dewaxing and deoiling process. 3,729,414, 4-24-73, Cl. 210-66.000.
Harris, Robert H.; and Morey, Edward F. Waste water treatment. 3,725,263, 4-3-73, Cl. 210-42.000.
Harris, Robert J., to Price, H. C., Co. Pipe coating mold. 3,718,309, 2-27-73, Cl. 249-90.000.
Harris, Robert J.; and Sikes, Gail T., to Price, H. C., Co. Handling apparatus for couplings used in application of pipe coatings. 3,747,192, 7-24-73, Cl. 29-237.000.
Harris, Robert J.; and Lee, Irvin J., to Price, H. C., Co. Apparatus for coating pipe. 3,777,705, 12-11-73, Cl. 118-313.000.
Harris, Robert L.: *See—*
Golliher, Waldo R.; Harris, Robert L.; and Le Doux, Reynold A., Jr., 3,708,568.
Harris, Robert T.: *See—*
Manzo, Joseph F.; Harris, James P.; Harris, Robert T.; and Mauch, Erwin W., 3,707,744.
Harris, Robert W., to United States of America, Navy. Low noise phase detector. 3,735,150, 5-22-73, Cl. 307-232.000.
Harris, Roland G., to Automated Mail Systems, Inc. Envelope opening apparatus and method. 3,739,543, 6-19-73, Cl. 53-3.000.
Harris, Ronald, to Stibbe Machinery Limited. Patterning mechanism for multi-feed circular knitting machines and to a method of knitting on the same. 3,744,275, 7-10-73, Cl. 66-42.000.
Harris, Samuel M.: *See—*
Shelton, Warren E.; and Harris, Samuel M., 3,711,899.
Harris, Samuel W.: *See—*
Lee, Richard J.; and Harris, Samuel W., 3,740,387.
Harris, Sterling G.; and Zober, Ben P., to Harris Automated Machinery Co. Method of shucking bivalves. 3,724,031, 4-3-73, Cl. 17-48.000.
Harris, Stewart G.; and Bazelmans, Joseph B., to Hers Management Corporation. Protective envelope for phonograph record. 3,774,757, 11-27-73, Cl. 206-62.00p.
Harris, Thomas J., to International Business Machines Corporation. Layer activated holographic data selection and display apparatus. 3,736,459, 5-29-73, Cl. 315-11.000.
Harris, Thomas J., to International Business Machines Corporation. Modular touch sensitive indicating panels with touch and light transmissive overlay cover membrane containing visible printed indicia. 3,777,222, 12-4-73, Cl. 317-112.000.
Harris, Wayne C., to Philco-Ford Corporation. Automotive radio rundown noise eliminator. 3,761,823, 9-25-73, Cl. 325-313.000.
Harris, Wilbur E., to Uniroyal, Inc. Method of processing uncured rubber and like raw materials and article therefor. 3,738,580, 6-12-73, Cl. 241-30.000.
Harris, William E. Guitar slide bar apparatus. 3,741,065, 6-26-73, Cl. 84-319.000.
Harris-Hub Company, Inc.: *See—*
Behnke, Wilbert E., 3,761,971.
Harris, Allan E., 3,744,068.
Harris, George M.; and Behnke, Wilbert B., 3,757,361.
Harris-Intertype Corporation: *See—*
Anderson, Charles Ernest, 3,716,907.
Bryson, Robert A.; Kennicott, Thomas C.; and Sarring, Ernest J., 3,733,947.
Clark, Allan B.; and Reed, David A., 3,772,123.
Connor, Dale C.; and McDonough, Robert P., 3,770,984.
Crum, James N., 3,717,092.
Crum, James N., 3,747,524.



Dauterman, Walter E., 3,730,086.
Gallagher, William, Jr., 3,763,748.
Grobman, William, 3,709,111.
Grobman, William, 3,715,115.
Hitch, Thomas R.; and Wilson, William J., 3,759,402.
Horvath, Robert M., 3,714,496.
Johnson, Ray Clifford, 3,745,865.
Manring, John Michael, 3,756,725.
Mc Connell, Howard M.; and Zeewy, Abraham, 3,725,756.
Mebus, Henry R., 3,718,939.
Morrison, Walter C., 3,730,803.
Murray, James E.; and Kirsch, Robert P., 3,713,600.
Murray, James E.; and Foley, Richard G., 3,719,877.
Murray, James Emmett, 3,748,046.
Norman, Charles R., 3,750,746.
Norton, Robert K., 3,730,517.
Osgood, John H., 3,718,299.
Price, Thomas C.; and Montgomery, Robert M., 3,769,695.
Roberts, Webster C.; and Foster, Alan M., 3,742,129.
Sanders, Thomas J., 3,779,841.
Schaffer, Robert H.; and Crum, James N., 3,724,733.
Schriber, Louis, 3,727,576.
Shapiro, Eliezer Y., 3,742,825.
Tokarz, Henry J., 3,725,763.
Treff, Ernest H., 3,724,368.
Treff, Ernest H., 3,734,487.
Treff, Ernest H.; and Crum, James N., 3,765,328.
Whitesell, Lloyd M.; Schriber, Louis; and Loase, Raymond M., 3,727,908.
Harris-Intertype Corporation, mesne: *See—*
Butcher, Wade E., Jr.; and Sims, Robert J., 3,766,559.
Gray, James S., 3,770,983.
Hoffman, Dale M., 3,772,695.
Mason, Donald R., 3,766,447.
Phelan, Harry R., 3,771,075.
Harrison, A. Michael: *See—*
Myhre, Kjell E.; and Harrison, A. Michael, 3,742,118.
Harrison, Alban: *See—*
Embling, Clifford Arthur; and Harrison, Alban, 3,742,494.
Harrison, Albert Keith; and Mather, John, to Imperial Chemical Industries Limited. Polyester modified with metal salts of sulfoisophathalic acid esters and polyethylene oxide) end capped with alkyl groups. 3,725,348, 4-3-73, Cl. 260-75.00s.
Harrison, Albert Keith; and Mather, John, to Imperial Chemical Industries Limited. Fibers of polyesters prepared from ethylene glycol, dimethyl terephthalate, sodium dimethyl-5-sulphoisophthalate and poly(ethylene oxide). 3,725,351, 4-3-73, Cl. 260-75.00s.
Harrison, Alwin: *See—*
Jackson, Squire Ronald; Greenwood, Kenneth; Heaton, Alban; and Harrison, Alwin, 3,731,484.
Harrison, Anthony William, to Girling Limited. Self-servo braking systems. 3,762,508, 10-2-73, Cl. 188-70.00b.
Harrison, Anthony William, to Girling Limited. Hydraulic actuators. 3,765,514, 10-16-73, Cl. 188-72.400.
Harrison, Anthony William, to Girling Limited. Disc brakes for vehicles. 3,780,835, 12-25-73, Cl. 188-74.000.
Harrison, Arthur Denwood Richard, to University of Survey, The. Apparatus for applying liquid samples to a surface. 3,776,184, 12-4-73, Cl. 118-243.000.
Harrison, Burton H., to Selective Educational Equipment, Inc. Microscope. 3,754,809, 8-28-73, Cl. 350-87.000.
Harrison, Charles V.; and Higginbotham, William H. Locked thermostat box. 3,752,900, 8-14-73, Cl. 174-52.000.
Harrison, Dan K. Oil filter housing assembly. 3,773,180, 11-20-73, Cl. 210-315.000.
Harrison, David Blackburn, to Lucas, Joseph, (Industries) Limited. Automatic transmission system. 3,739,661, 6-19-73, Cl. 74-866.000.
Harrison, Edmund, Jr., to Moline Machine Company Inc. Method and apparatus for detecting loose ends and missing filters in cigarettes. 3,720,311, 3-13-73, Cl. 209-79.000.
Harrison, Emmett S.; and Zoll, August H., to Curtiss-Wright Corporation. Gas turbine air compressor and control therefor. 3,727,400, 4-17-73, Cl. 60-39.290.
Harrison, Ernest W.: *See—*
Newton, Cecil J. V.; and Harrison, Ernest W., 3,720,819.
Harrison, Floyd L.: *See—*
Radnofsky, Matthew I.; Barnett, James H., Jr.; Harrison, Floyd L.; and Marak, Ralph J., 3,736,607.
Harrison, George William Horney, to Brown, David, Gear Industries Limited. Clutch assemblies. 3,756,360, 9-4-73, Cl. 192-48.300.
Harrison, Henry, 1/2 to Kalski, Bernd. Mechanical separation for viscous fluids. 3,718,259, 2-27-73, Cl. 210-109.000.
Harrison, Henry R., to Texaco Inc. Soluble oil compositions. 3,759,828, 9-18-73, Cl. 252-33.400.
Harrison, Hershel: *See—*
D'Agostino, Michael V., 3,739,200.
Harrison, Ian Robert; McCarthy, John Felix; and Palmer, Bryan Harper, to Boots Pure Drug Company Limited. Aphicidal and acaricidal compositions containing N-2,4 dimethylphenyl-N'-methylformamidine or its acid addition salts and methods of use. 3,729,565, 424-73, Cl. 424-326.000.
Harrison, Ian Robert; McCarthy, John Felix; and Palmer, Bryan Harper, to Boots Pure Drug Company Limited. Pesticidal compounds and compositions. 3,781,355, 12-25-73, Cl. 260-564.00r.
Harrison, Ian T.; and Fried, John H., to Syntex Corporation. Naphthyloxyacetic acids and pharmaceutical compositions and methods thereof. 3,740,437, 6-19-73, Cl. 424-317.000.
Harrison, Ian T.; and Fried, John H., to Syntex Corporation. Biphenyloxyacetic acids in pharmaceutical compositions. 3,755,603, 8-28-73, Cl. 424-317.000.
Harrison, Jerry W.: *See—*
Kuhn, Wayne H.; and Harrison, Jerry W., 3,744,705.
Harrison Jet Guns Inc.: *See—*
Hakala, John R., 3,739,723.
Harrison, John, to Spra-Con Company, The. Article induction system. 3,776,344, 12-4-73, Cl. 198-20.000.
Harrison, John D.; Choi, Jei Y.; and Marchant, Peter R., to Raychem Corporation. Heat recoverable alloy. 3,753,700, 8-21-73, Cl. 75-175.500.
Harrison, John E.: *See—*
Davis, Lawrence P.; Harrison, John E.; and Tribken, Everett R., 3,762,226.
Harrison, John G. Self swing training device. 3,758,117, 9-11-73, Cl. 273-194.00b.
Harrison, John Gardon. Golf club swing training device. 3,719,363, 3-6-73, Cl. 273-186.00a.
Harrison, John H.; Bowen, Robert J.; Urbach, Herman B.; and Icenhower, David E., to United States of America, Navy. Pressure equilibrated gas fuel cells and method. 3,736,187, 5-29-73, Cl. 136-86.00b.
Harrison, John L., to Dunlop Holdings Limited. Transportable conveyor for clearing surfaces. 3,744,164, 7-10-73, Cl. 37-108.00r.
Harrison, John M., to North Electronics Corporation. Delay distortion measurement system. 3,777,256, 12-4-73, Cl. 324-57.00r.
Harrison, Larry; Vanvalkinburgh, Robert; and Kalviiis, Robert, to Xerox Corporation. Reaction time testing apparatus. 3,747,589, 7-24-73, Cl. 128-2.00n.
Harrison, Larry, to Xerox Corporation. Suction mount. 3,765,638, 10-16-73, Cl. 248-363.000.
Harrison, Lee, III; Wells, Frank David; and Honey, Francis J., to Computer Image Corporation. Generation, display and animation of two-dimensional figures. 3,723,803, 3-27-73, Cl. 315-22.000.
Harrison, Lee, III; Honey, Francis J.; Tauchman, Edwin J.; and Parker, Marshall M., to Computer Image Corporation. Digitally controlled computer animation generating system. 3,747,087, 7-17-73, Cl. 340-324.0ad.
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Harrison, Maurice Clark; and Vancil, Donald Otis, to Reynolds Metals Company. Method of making naf or naf/$alf_3$ involving the reaction of sodium sulfate with fluosilicic acid. 3,755,532, 8-28-73, Cl. 423-116.000.
Harrison, Michael Banks; and Benion, Robert, to AMPE Industrial Products Limited. Low friction bearing materials. 3,741,855, 6-26-73, Cl. 161-91.000.
Harrison, Paul Stanley; and Harries, Gwyn, to Imperial Chemical Industries of Australia and New Zealand Limited. Ammonium nitrate-fuel oil composition containing ammonium nitrate prills of different porosity, hardness, and density. 3,781,180, 12-25-73, Cl.149-21.000.
Harrison, Reginald, to Dunlop Limited. Elastomerically spring railway truck bolster. 3,780,671, 12-25-73, Cl. 105-197.00a.
Harrison, Robert E., to Hoerner-Waldorf Corporation. Carrying handle. 3,727,830, 4-17-73, Cl. 229-54.000.
Harrison, Robert Henry; Russell, John Patrick; and Middleton, Anthony Edward, to Davy and United Engineering Company, Limited. Forging control. 3,750,436, 8-7-73, Cl. 72-8.000.
Harrison, Robert R., to Nemo Corporation. Pump for hydraulic steering unit. 3,738,228, 6-12-73, Cl. 91-499.000.
Harrison, Robert S.: *See—*
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Harrison, Robert S.; and Johnson, Thomas R., to Ford Motor Company. Inertia responsive carburetor fuel flow control means. 3,719,352, 3-6-73, Cl. 261-23.00a.
Harrison, Robert S.; and Marcum, Harold E., to Ford Motor Company. Carburetor throttle valve positioner. 3,730,153, 5-1-73, Cl. 123-103.00r.
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Harrison, Thomas Bowman, to Harrison, Thomas Bowman, Jr. Method of and apparatus for producing a fluid jet. 3,739,973, 6-19-73, Cl. 239-589.000.
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Harrison, Thomas J., Jr., to Precision Sampling Corporation. Syringe. 3,730,389, 5-1-73, Cl. 222-31.000.
Harrison, Thomas J., Jr., to Precision Sampling Corporation. Valves and valve needle syringes. 3,757,981, 9-11-73, Cl. 215-37.00r.
Harrison, Thomas J., Jr., to Precision Sampling Corporation. Automatic fluid injector. 3,754,443, 8-28-73, Cl. 73-422.0gc.
Harrison, Thomas J., Jr., to Precision Sampling Corporation. Protective envelope for phonograph record. 3,774,757, 11-27-73, Cl. 206-62.00p.
Harrison, Thomas J., Jr., to Precision Sampling Corporation. Layer activated holographic data selection and display apparatus. 3,736,459, 5-29-73, Cl. 315-11.000.
Harrison, Thomas J., Jr., to Precision Sampling Corporation. Modular touch sensitive indicating panels with touch and light transmissive overlay cover membrane containing visible printed indicia. 3,777,222, 12-4-73, Cl. 317-112.000.
Harrison, Thomas J., Jr., to Precision Sampling Corporation. Method of processing uncured rubber and like raw materials and article therefor. 3,738,580, 6-12-73, Cl. 241-30.000.
Harrison, Thomas J., Jr., to Precision Sampling Corporation. Method of forming metal. 3,712,105, 1-23-73, Cl. 72-307.000.
Harrison, Thomas J., Jr., to Precision Sampling Corporation. Method and apparatus for detecting loose ends and missing filters in cigarettes. 3,720,311, 3-13-73, Cl. 209-79.000.
Harrison, Thomas J., Jr., to Precision Sampling Corporation. Method and apparatus for splicing the adhesive leading end of a waiting web onto a running web. 3,728,197, 4-17-73, Cl. 156-506.000.
Harrison, Thomas J., Jr., to Precision Sampling Corporation. Method of shucking bivalves. 3,724,031, 4-3-73, Cl. 17-48.000.
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Harrison, Thomas J., Jr., to Precision Sampling Corporation. Method and apparatus for detecting loose ends and missing filters in cigarettes. 3,720,311, 3-13-73, Cl. 209-79

Harrison, Roy C.; and Crain, Donald L., to Phillips Petroleum Company. Purification of polyolefins. 3,709,850, 1-9-73, Cl. 260-93.700.
Harrison, Sidney L., to Heavy Oil Producer Service, Incorporated. Lubricated pump rod string oil wells. 3,765,482, 10-16-73, Cl. 166-106.000.
Harrison, Sol Esther; and Goldmacher, Joel Edward, to RCA Corporation. Direct print-out photographic optical recording media comprising a rhod: nine dye. 3,767,408, 10-23-73, Cl. 96-90.00r.
Harrison, Thomas S., to Sterling Drug Inc. Exit slit for bulk package moist towels or tissues. 3,749,296, 7-31-73, Cl. 225-106.000.
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Harrison, William B. Stack height control using cutoff knives. 3,709,355, 1-9-73, Cl. 198-59.000.
Harrison, William B., to Grace, W. R., & Co. Cutoff mechanism for container closure lining machines. 3,759,204, 9-18-73, Cl. 113-114.0be.
Harrison, William B.; and Keene, Edwin E., to Grace, W. R., & Co. Mechanism for separating a container closure from a stack of closures. 3,776,421, 12-4-73, Cl. 221-251.000.
Harrison, William J. Automatic lens focusing method and apparatus. 3,732,001, 5-8-73, Cl. 353-101.000.
Harrison, William L.; Purington, Ronald G.; and Anderson, Donald L., to Sanders Associates, Inc. Bed guard system. 3,781,843, 12-25-73, Cl. 340-279.000.
Harrod, Jimmie A., to Moore Business Forms, Inc. Ink roller fountain. 3,712,216, 1-23-73, Cl. 101-363.000.
Harroff, Jerry M., to Hoover Company, The. Iron handle latch and switch arrangement. 3,766,673, 10-23-73, Cl. 38-90.000.
Harrold, Maurice, to Lucas, Joseph, (Industries) Limited. Instrument case for mounting on a panel. 3,744,748, 7-10-73, Cl. 248-27.000.
Harrold, Ronald T.; and Carter, William J., to Westinghouse Electric Corporation. Acoustical corona locator having rotatable and pivotable tranducers. 3,728,619, 4-17-73, Cl. 324-52.000.
Harrold, Ronald T.; and Long, Charles A., to Westinghouse Electric Corporation. Methods for locating partial discharges in electrical apparatus. 3,775,676, 11-27-73, Cl. 324-52.000.
Harrold, Ronald T., to Westinghouse Electric Corporation. Vacuum circuit interrupter having improved contact structure. 3,778,573, 12-11-73, Cl. 200-144.00b.
Harrold, William J., to Raytheon Company. Radial magnetized magnet. 3,781,592, 12-25-73, Cl. 315-39.710.
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Harsanyi, Eugen. Cordless electric iron and current-supplying means therefor. 3,760,149, 9-18-73, Cl. 219-247.000.
Harsanyi, Kalman; Nador, Karoly; Takacs, Kalman; Korbonits, Dezso; Kiss, Pal; Simay, Antal; Bodrogi, Istvan; Tardos, Laszlo; and Leszkovszky, Gyorgy, to Chinoin Gyogyszer-es Vegyeszeti Termekek Gyara RT. 1,3-Thiazines. 3,775,409, 11-27-73, Cl. 260-243.00r.
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Harstead, Gunnar A.; Locante, John; and Russell, James G., to Westinghouse Electric Corporation. Nuclear containment system. 3,725,198, 4-3-73, Cl. 176-37.000.
Hart, Alexander W.; and Acton, Daniel D., to Anchor Hocking Corporation. Closure cap and sealed package. 3,746,199, 7-17-73, Cl. 215-40.000.
Hart, Anthony Christopher, to International Nickel Company, Inc., The. Coating stainless steels. 3,755,117, 8-28-73, Cl. 204-140.000.
Hart, Anthony Christopher, to International Nickel Company, Inc., The. Coloring stainless steels. 3,766,023, 10-16-73, Cl. 204-38.00b.
Hart, Atlee S. Apparatus for detecting and signaling light attenuation. 3,736,560, 5-29-73, Cl. 340-53.000.
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Hart, Charles H.; and Cashau, George R., to American Newspaper Publishers Association Research Institute, Incorporated. Apparatus for separating a bundle of plural sheets. 3,711,084, 1-16-73, Cl. 270-57.000.
Hart, Charles H.; and Cashau, George R., to Anpa. Apparatus to facilitate insertion of newspaper supplements. 3,752,468, 8-14-73, Cl. 270-57.000.
Hart, Charles H.; and Cashaw, George R., to American Newspaper Publishers Association Research Institute, Incorporated. Method for separating plural sheets. 3,781,006, 12-25-73, Cl. 271-18.00r.
Hart, Charles Richard; Nield, Eric; and Rose, John Brewster, to Imperial Chemical Industries Limited. Aromatic polysulphonediphenyl sulphone blends. 3,718,620, 2-27-73, Cl. 260-30.80r.
Hart Chemical Limited: *See—*
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Shane, Hugh J. S.; Schill, John E.; and Lilley, John W., 3,730,907.
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Hart, Claude A.; and Haycock, Eric W., to Dunlop Holdings Limited. Pneumatic tires. 3,749,145, 7-31-73, Cl. 152-209.00r.
Hart, Derek James; Davis, Robert; and Sanhen, Henry Valentine, to Thorn Lighting Limited. Output tapping unit for use with electric distribution tracks. 3,757,063, 9-4-73, Cl. 200-51.670.
Hart, Don Rex, to Harpad Company. Cow parlor safety adjustment. 3,727,585, 4-17-73, Cl. 119-96.000.
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Hart, Frederick Harry; and McFegan, William, to Pilkington Brothers Limited. Method and apparatus for electrically welding a double walled glazing unit. 3,728,096, 4-17-73, Cl. 65-40.000.
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Hart, Harold W.; and Southworth, Edward A., to Hart, H. W., Mfg., Co. Articulated pusher conveyor chain. 3,722,664, 3-27-73, Cl. 198-168.000.
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Hart, Herman. Safety guard and dust and debris collector attachment for a drill. 3,776,647, 12-4-73, Cl. 408-241.00g.
Hart, Jack P., to General Motors Corporation. Regenerator seal. 3,718,179, 2-27-73, Cl. 165-9.000.
Hart, Jack P., to General Motors Corporation. Regenerator seal. 3,718,180, 2-27-73, Cl. 165-9.000.
Hart, Jack P., to General Motors Corporation. Regenerator seal. 3,724,533, 4-3-73, Cl. 165-7.000.
Hart, James L.; Kao, Peter T.; and Negus, George T., to Eastman Kodak Company. Film processing apparatus. 3,762,300, 10-2-73, Cl. 95-89.00r.
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Van Der Burgt, Gerrit Johan; Hart, Johannes T.; and Schrier, Jacob, 3,752,526.
Hart, John Michael, to Fischer & Porter Company. Plastic-encapsulated variable-area flowmeter. 3,768,309, 10-30-73, Cl. 73-209.000.
Hart, Maurice W., Jr. Highly plasticized quivery plastic material with replenishing friction surface and method of producing the same. 3,754,960, 8-28-73, Cl. 117-9.000.
Hart, Melvin Gory, to Texas Instruments, Incorporated. High temperature diffusion tube. 3,744,964, 7-10-73, Cl. 432-120.000.
Hart, Milburn L.: *See—*
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Hart, Milburn L.; and Meinert, Kerwin E., to Cook Paint & Varnish Company. Spray gun. 3,720,377, 3-13-73, Cl. 239-336.000.



Hart, Porter, to Dow Chemical Company, The. Apparatus for continuous measurement and control of flotation conditions. 3,779,265, 12-18-73, Cl. 137-93.000.
Hart, Raymond; and Sandell, Kenneth Charles, to Firth Machine Tools (International) Limited. Multi-spindle machine tool heads. 3,765,787, 10-16-73, Cl. 408-53.000.
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Hart, Robert L.; and Leininger, Joel C., to International Business Machines Corporation. Latch circuit. 3,740,590, 6-19-73, Cl. 307-289.000.
Hart, Robert L., to Grace, W. R., & Co. Hanger for trousers. 3,744,685, 7-10-73, Cl. 223-96.000.
Hart, Ronald L.; Emrick, Donald D.; and Bayless, Robert G., to National Cash Register Company, The. Capsule manufacture. 3,755,190, 8-28-73, Cl. 252-316.000.
Hart, Thomas William, Jr., to Macrodata Company. Memory system exerciser. 3,751,649, 8-7-73, Cl. 235-153.0ac.
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Hart, William J., to Hercules Incorporated. Polyolefin pigment dispersions. 3,755,244, 8-28-73, Cl. 260-41.000.
Hart, William S., to Dinaco, Inc. Tire center display apparatus. 3,707,789, 1-2-73, Cl. 40-125.00m.
Harte, James Richard. Manual self-instructional and self-testing device. 3,747,229, 7-24-73, Cl. 35-9.00r.
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Harter, James E.; and Morse, John E., to Eastman Kodak Company. Paper advance and marking mechanisms for photographic printing apparatus. 3,732,010, 5-8-73, Cl. 355-64.000.
Harter, James E.; and Rosenburgh, Norman J., to Eastman Kodak Company. Print border control apparatus. 3,737,227, 6-5-73, Cl. 355-74.000.
Harter, James E., to Eastman Kodak Company. Photographic spot monitor apparatus. 3,744,901, 7-10-73, Cl. 355-38.000.
Harter, James E., to Eastman Kodak Company. High efficiency integrator box. 3,756,719, 9-4-73, Cl. 355-67.000.
Harter, Lynn J., to Thrall Car Manufacturing Company. Railroad car with fluid side bearing antisway means. 3,719,152, 3-6-73, Cl. 105-164.000.
Harter, Robert M., to AVM Corporation. Valve assembly having integral body and inlet. 3,742,983, 7-3-73, Cl. 137-625.470.
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Hartig, Martval John; and Hansen, John Edward, to Du Pont de Nemours, E. I., and Company. Oriented structures of tetrafluoroethylene/perfluoro (alkyl vinyl ether) copolymer. 3,770,711, 11-6-73, Cl. 260-87.50a.
Hartig, Rufus. Recovery of hydrogen fluoride. 3,711,596, 1-16-73, Cl. 423-483.000.
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Hartigan, Edward G.; Patience, Donald; and Knohl, Herbert, to Kendall Company, The. Stocking with soft inner thigh area. 3,728,875, 4-24-73, Cl. 66-172.00e.
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Hartkopf, Heinz, to Kieserling, Th., & Albrecht. Straightening apparatus for elongated tubular and rod stock. 3,747,386, 7-24-73, Cl. 72-99.000.
Hartkopf, Heinz, to Kieserling, Th., & Albrecht. Method and apparatus for feeding elongated rotary workpieces in straightening machines or the like. 3,759,077, 9-18-73, Cl. 72-99.000.
Hartkorn, Karl Heinz. Liquid purification method. 3,767,046, 10-23-73, Cl. 204-149.000.
Hartlage, James Albert; and Cronberg, Alvin Dale, to Ashland Oil, Inc. Solvent extraction process for the recovery of copper values. 3,725,046, 4-3-73, Cl. 75-101.0be.
Hartleib, Franz, to Maschinenbau Aachen-Furstayau Gesellschaft mit beschrankter Haftung, Firma. Method of and device for packing articles. 3,732,789, 5-15-73, Cl. 93-82.000.
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Hartline, Ernst F.; Large, Donald M.; and Montone, Gregory E., to Western Electric Company, Incorporated. Handling of magnetically asymmetrical articles. 3,741,436, 6-26-73, Cl. 221-156.000.
Hartline, Rolland L.; and Kramer, Charles E., to Clark Equipment Company. Pulse counting linear measuring device. 3,735,260, 5-22-73, Cl. 324-175.000.
Hartling, Wolfgang: *See—*
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Hartman, Aric W., to General Electric Company. Automatic elec-



Gablen, Hermann Walter; Hartmann, Karl; and Thiem, Ge-

Hartman, Aric W., to General Electric Company. Automatic electron microscope field counter. 3,748,468, 7-24-73, Cl. 250-311.000.

Hartman, Arlie. Garden cultivator. 3,749,179, 7-31-73, Cl. 172-297.000.

Hartman, Arlin P., to American Seating Company. Advancing and retracting mechanism. 3,738,612, 6-12-73, Cl. 254-1.000.

Hartman, David A. Drawer side wall. 3,722,974, 3-27-73, Cl. 312-330.000.

Hartman, David A., to Cities Service Oil Company. Oil composition with anti-corrosion properties. 3,775,319, 11-27-73, Cl. 252-334.000.

Hartman, Eugene H.: *See—*
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Hartman, Henry Edmund: *See—*
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Hartman, John T.: *See—*
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Hartman, Peter W.: *See—*
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Hartman, Robert B., to Remington Arms Company, Inc. Archery bow arrow rest. 3,760,788, 9-25-73, Cl. 124-41.000.

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Hartman, Robert H.; and Strandine, Eldon J. Method of preparing a poultry product. 3,709,699, 1-9-73, Cl. 99-107.000.

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Hartman, Thomas Elton, to Texas Instruments, Incorporated. Integrated circuit arrays utilizing discretionary wiring and method of fabricating same. 3,771,217, 11-13-73, Cl. 29-574.000.

Hartman, William R.; and Lagonegro, Paul R., to Xerox Corporation. Apparatus for optical color separation imaging. 3,775,006, 11-27-73, Cl. 355-4.000.

Hartman, William R., Jr.: *See—*
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Hartmann, Clinton S., to Texas Instruments, Incorporated. Surface wave frequency discriminators. 3,750,027, 7-31-73, Cl. 325-349.000.

Hartmann, Clinton S., to Texas Instruments, Incorporated. Surface wave transversal frequency filter. 3,755,761, 8-28-73, Cl. 333-70.00t.

Hartmann, Dieter, to General Motors Corporation. Friction clutch plate. 3,717,230, 2-20-73, Cl. 192-107.00r.

Hartmann, Egon: *See—*
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Hartmann, George. Polyurethane printing ink and method of using same. 3,728,298, 4-17-73, Cl. 260-31.40r.

Hartmann, George J.; and Nesslage, Donald J., to Phelps Dodge Copper Products Corporation. Molten metal level control for continuous casting. 3,738,419, 6-12-73, Cl. 164-281.000.

Hartmann, Hans, to Aktiengesellschaft Brown, Boveri & Cie. Electrical coil with spacing bands. 3,760,315, 9-18-73, Cl. 336-205.000.

Hartmann, Hans Otto; and Schmidt, Karl-Walter, to Daimler-Benz Aktiengesellschaft. Rotary piston internal combustion engine. 3,722,493, 3-27-73, Cl. 123-8.070.

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Hartmann, Helmut; and Stein, Werner, to Henkel & Cie G.m.b.H. Continuous process for the separation of mixtures of fatty acid esters of different melting points. 3,733,343, 5-15-73, Cl. 260-428.000.

Hartmann, Helmut; and Stein, Werner, to Henkel & Cie G.m.b.H. Continuous process for the separation of mixtures of fatty acids of different melting points. 3,737,444, 6-5-73, Cl. 260-419.000.

Hartmann, Horst, to Zysset, K., & Co. Hand-operated slicing cutter mechanism. 3,736,662, 6-5-73, Cl. 30-283.000.

Hartmann, Karl: *See—*
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Hartmann, Ludwig A., to ICI America Inc. Process for preparing cyclic ketals. 3,741,986, 6-26-73, Cl. 260-340.900.

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Hartmann, Uwe, to Schwarzwalder Apparate-Bau-Anstalt August Schwer Sohne GmbH. TV circuit for production of parabolic line-frequency voltage. 3,746,922, 7-17-73, Cl. 315-276.00d.

Hartmann, Werner; Barnikol-Oettler, Kurt; and Teichmuller, Gerhard, to VEB Jenapharm. Trialkylsilyloximo steroids. 3,743,636, 7-3-73, Cl. 260-239.55r.

Hartmann-Hansen, Tore, to Worthing Turbine International Inc. Overspeed detector for rotary member. 3,712,145, 1-23-73, Cl. 73-491.000.

Hartmannsgruber, Rudolf: *See—*
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Hartter, Donald R., to Du Pont de Nemours, E. I., and Company. Preparation of diaminomaleonitrile by chemical reduction of diiminosuccinonitrile. 3,714,222, 1-30-73, Cl. 260-465.50r.

Hartter, Donald R., to Du Pont de Nemours, E. I., and Company. Tetrasubstituted dicyanopyrazines and related compounds. 3,763,161, 10-2-73, Cl. 260-250.00r.

Hartter, Donald Ray, to Du Pont de Nemours, E. I., and Company. 5-Dicyano-2H-imidazoles. 3,709,900, 1-9-73, Cl. 260-309.000.

Hartung, Dudley B., to Xerox Corporation. Servo system for velocity and position control. 3,731,175, 5-1-73, Cl. 318-570.000.

Hartung, Dudley B. Speed limiter and alarm for internal combustion engine. 3,748,641, 7-24-73, Cl. 340-53.000.

Hartung, Gerhard, to Joisten & Kettenbaum Elektro-Maschinenfabrik. Apparatus for forming articles of thermoplastic film. 3,717,538, 2-20-73, Cl. 156-497.000.

Hartung, Josef, to Dura Tufting GmbH. Tile floor covering and method covering a floor surface. 3,712,845, 1-23-73, Cl. 161-38.000.

Hartung, Ray E. Humidifier attachment for clothes dryers. 3,716,925, 2-20-73, Cl. 34-80.000.

Hartung, Winfried, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Liquid level gauge. 3,747,084, 7-17-73, Cl. 340-244.00r.

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Hartwig, Walter J., to Allis-Chalmers Corporation. Chain for grate conveyor or the like. 3,735,858, 5-29-73, Cl. 198-195.000.

Hartwig, Walter J., to Allis-Chalmers Corporation. Grate conveyor. 3,745,670, 7-17-73, Cl. 34-217.000.

Hartwig, Walter J., to Allis-Chalmers Corporation. Structural member having differential temperature control means and combination of such structural member with horizontal stripper for grate conveyor. 3,760,872, 9-25-73, Cl. 165-120.000.

Hartwig, Walter J., to Allis-Chalmers Corporation. Apparatus for and method of adjusting location of shaft bearings on grate conveyor. 3,765,525, 10-16-73, Cl. 198-208.000.

Harty, Millard Fillmore, Jr., to Motor Wheel Corporation. Air distribution unit. 3,727,537, 4-17-73, Cl. 98-32.000.

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Hartz, Marvin E.; and Witek, Roman J., Jr., to Essex International, Inc. Mounting device. 3,776,495, 12-4-73, Cl. 248-71.000.

Hartz, Thomas Jayes, to National Can Corporation. Method of sealing container seams. 3,774,560, 11-27-73, Cl. 113-120.00y.

Hartzell, Carl D.; and Schwarzer, Thomas P., to Raymond International Inc. Cast-in-situ concrete piles. 3,736,757, 6-5-73, Cl. 61-53.640.

Hartzell, Carl Daniel, to Raymond International, Inc. Filling sand drain holes. 3,712,066, 1-23-73, Cl. 61-11.000.

Hartzell, Carl Daniel, to Raymond International, Inc. Pile driving. 3,766,741, 10-23-73, Cl. 61-53.500.

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Hartzell, George W.; and Gunnerman, Robert J., to Hartzell Industries, Inc. Sawmill. 3,747,455, 7-24-73, Cl. 83-403.100.

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Hartzler, Harris Dale, to Du Pont de Nemours, E. I., and Company. 1,3-Dithiole derivatives from acetylenic compounds substituted with at least one electron-withdrawing group and carbon disulfide. 3,758,503, 9-11-73, Cl. 260-327.00m.

Hartzler, Harris Dale, to Du Pont de Nemours, E. I., and Company. 2-Arylidene-1,3-dithioles and preparation thereof from acetylenes, carbon disulfide, and aromatic aldehydes in the presence of aliphatic phosphines. 3,781,281, 12-25-73, Cl. 260-240.00f.

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Haruki, Tatsuro; and Itaya, Muneaki, to Shimadzu Seisakusho Ltd. Method and apparatus for stripping the components of a mixed sample from a trap. 3,728,845, 4-24-73, Cl. 55-67.000.

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Haruna, Takashi, to Nissan Motor Company, Limited. Vehicular safety device. 3,736,004, 5-29-73, Cl. 280-150.0ab.

Haruta, Hiroshi; Muraki, Masaaki; Ishibashi, Tadao; and Mushiaki, Fumihiko, to Chisso Corporation. Process for preparing film of crystalline propylene polymer having good heat sealability at low temperature. 3,773,609, 11-20-73, Cl. 161-182.000.

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Harvey, Donald M., to Eastman Kodak Company. Camera with stripping mechanism. 3,709,126, 1-9-73, Cl. 95-13.000.

Harvey, Donald M., to Eastman Kodak Company. Apparatus for providing shutter release and for indicating end of a controlled time exposure. 3,715,959, 2-13-73, Cl. 95-10.0ct.

Harvey, Donald M., to Eastman Kodak Company. Interlocking dual purpose slide tray structure for forming a single tray or a pair of trays. 3,718,392, 2-27-73, Cl. 353-111.000.

Harvey, Donald M., to Eastman Kodak Company. Apparatus having an automatic range finder mechanism. 3,720,148, 3-13-73, Cl. 95-44.00c.

Harvey, Donald M.; and Babcock, David L., to Eastman Kodak Company. Exposure control mechanism for photographic cameras. 3,735,676, 5-29-73, Cl. 95-10.0ct.

Harvey, Donald M., to Eastman Kodak Company. Zone range finder apparatus. 3,736,057, 5-29-73, Cl. 356-4.000.

Harvey, Donald M., to Eastman Kodak Company. Film cartridge and assemblage. 3,737,315, 6-5-73, Cl. 96-76.00c.

Harvey, Donald M., to Eastman Kodak Company. Photographic apparatus for handling film units of the self-processing type. 3,741,095, 6-26-73, Cl. 95-13.000.

Harvey, Donald M., to Eastman Kodak Company. Photographic light. 3,745,325, 7-10-73, Cl. 240-1.300.

Harvey, Donald M., to Eastman Kodak Company. Device for locating a film transparency. 3,748,033, 7-24-73, Cl. 353-60.000.

Harvey, Donald M., to Eastman Kodak Company. Photographic film unit assembly. 3,748,139, 7-24-73, Cl. 96-76.00c.

Harvey, Donald M., to Eastman Kodak Company. Fluid receiving means. 3,751,256, 8-7-73, Cl. 96-76.00c.

Harvey, Donald M., to Eastman Kodak Company. Photographic film unit assemblage. 3,754,917, 8-28-73, Cl. 96-76.00c.

Harvey, Donald M., to Eastman Kodak Company. Automatic focusing device. 3,758,209, 9-11-73, Cl. 356-4.000.

Harvey, Donald M., to Eastman Kodak Company. Dual photocell range finder apparatus. 3,759,614, 9-18-73, Cl. 356-4.000.

Harvey, Donald M., to Eastman Kodak Company. Print separating device for processing camera. 3,762,290, 10-2-73, Cl. 95-13.000.

Harvey, Donald M., to Eastman Kodak Company. Photographic apparatus. 3,763,753, 10-9-73, Cl. 95-13.000.

Harvey, Donald M., to Eastman Kodak Company. Film pack with resilient waste handling means. 3,763,754, 10-9-73, Cl. 95-19.000.

Harvey, Donald M., to Eastman Kodak Company. Integral film unit assembly. 3,764,332, 10-9-73, Cl. 96-76.00c.

Harvey, Donald M., to Eastman Kodak Company. Film unit. 3,767,404, 10-23-73, Cl. 96-76.00c.

Harvey, Donald M., to Eastman Kodak Company. Film unit. 3,767,405, 10-23-73, Cl. 96-76.00r.

Harvey, Donald M., to Eastman Kodak Company. Self-processing film unit with a removable processing composition supplying means. 3,770,441, 11-6-73, Cl. 96-76.00c.

Harvey, Donald M., to Eastman Kodak Company. Movable stripping and guiding mechanism. 3,771,426, 11-13-73, Cl. 95-13.000.

Harvey, Donald M., to Eastman Kodak Company. Self-processing film unit incorporating an integral battery. 3,779,143, 12-18-73, Cl. 95-13.000.

Harvey, Donald Malcolm, to Eastman Kodak Company. Exposure control apparatus. 3,717,077, 2-20-73, Cl. 95-10.0ce.

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Harvey, Douglas G., to Sanders Nuclear Corporation. Body heating system. 3,737,620, 6-5-73, Cl. 219-211.000.

Harvey, Douglas J., to General Motors Corporation. Heat treatable creep resistant solder. 3,725,144, 4-3-73, Cl. 148-127.000.

Harvey, Edgar Lloyd, to Burroughs Corporation. Circuit for operating multiple position display tubes. 3,778,675, 12-11-73, Cl. 315-169.00r.

Harvey, Edward H. Lumber sorter. 3,776,379, 12-4-73, Cl. 209-73.000.

Harvey, Edwin Dennis, to Imperial Chemical Industries, Limited. Dyestuffs. 3,767,682, 10-23-73, Cl. 260-379.000.

Harvey, Eric Alfred; and Marter, Peter Edward, to Ilford Limited. Optically inspecting the position and size of magnetic stripes on a movable web. 3,762,822, 10-2-73, Cl. 356-199.000.

Harvey, Gale A., to United States of America, National Aeronautics and Space Administration. Apparatus for photographing meteors. 3,712,195, 1-2373, Cl. 95-11.00r.

Harvey, Galen E., Jr.; and Petty, Gary C. Filter adapter. 3,743,096, 7-3-73, Cl. 210-232.000.

Harvey, George Arthur. Endless band conveyors. 3,774,752, 11-27-73, Cl. 198-195.000.

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Harvey, Ian J., to Westinghouse Electric Corporation. Vacuum-type circuit interrupter with grounded metallic housing and removable operating mechanism tray. 3,727,019, 4-10-73, Cl. 200-144.00b.

Harvey, James E.; and Gnage, Oliver W., to Eastman Kodak Company. Number on print optical apparatus. 3,734,612, 5-22-73, Cl. 355-40.000.

Harvey, James R., to Union Carbide Corporation. Amine curing agents for polyepoxide composition. 3,730,908, 5-1-73, Cl. 252-426.000.

Harvey, John P., to Harvey Harvesters, Inc. Volume measuring container. 3,712,139, 1-23-73, Cl. 73-428.000.

Harvey, John W., to United Aircraft Corporation. Method and apparatus for determining exact shrink and stretch limits in rubber pad forming of curved flanged members. 3,747,389, 7-24-73, Cl. 72-375.000.

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Harvey, Richard Deane, to Heckinger and Associates, Inc. Structural building module. 3,775,240, 11-27-73, Cl. 161-149.000.

Harvey, Robert J., to Mirlin Corporation Wayland. Can-straw construction. 3,717,476, 2-20-73, Cl. 99-138.00r.

Harvey, Robert J.; and Celebi, Gurbuz Ali, to Meditron Inc. Coated mouthpiece construction. 3,730,737, 5-1-73, Cl. 99-171.00b.

Harvey, Robert J.; and D'Imperio, Angelo G., to Harvey, R. J., Instrument Corporation. Clamping means for flexible dispensing conduits. 3,747,809, 7-24-73, Cl. 222-183.000.

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Harvey, William K., to Fair-Conn., Inc. Trolley wheel. 3,759,190, 9-18-73, Cl. 105-150.000.

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Harwell, Kenneth E.; and Galiano, Francis R., to Gulf Research & Development Company. Electroconductive method for controlling organometallic catalytic polymerizations. 3,729,455, 4-24-73, Cl. 260-80.700.

Harwick, Nathan Everette, III, to Bell Telephone Laboratories, Incorporated. Method of and apparatus for testing the quality of bonded connections of semiconductor devices. 3,759,088, 9-18-73, Cl. 73-37.000.

Harwit, Martin, to Spectral Imaging Inc. Spectrometric imager. 3,720,469, 3-13-73, Cl. 356-74.000.

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Hasselbring, Robert Joel; and Shields, Robert L., to General Electric Company. Incinerator. 3,727,563, 4-17-73, Cl. 110-8.00r.
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Hasselgren, Borjf; and Sebardt, Wilhelm, to Intong Aktiebolag. Method of and apparatus for separating lightweight (aerated) concrete elements. 3,758,934, 9-18-73, Cl. 29-200.00d.
Hassell, Howard L., to Shell Oil Company. Method for separating nickel contaminant from hydrogenated conjugated diene polymers. 3,780,137, 12-18-73, Cl. 260-880.00b.
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Hassenauer, Robert L., to Evans Products Company. Elastomeric railway car side bearing. 3,735,711, 5-29-73, Cl. 105-199.0cb.
Hassencahl, Lloyd J., to United States of America, Air Force. Moving range gate generating system for radar apparatus. 3,781,885, 12-25-73, Cl. 343-7.300.
Hassett, James W.; and Ihde, William M., to Environeering, Inc. Sound suppressing system. 3,712,412, 1-23-73, Cl. 181-33.00d.
Hassing-Hansen, Jens, to Aktieselskabet Brodrene Hartmann. Article-revealing carton fragile objects. 3,741,461, 6-26-73, Cl. 229-2.500.
Hassler, Andreas. Method for loading and drying of ceramic products prior to baking. 3,760,508, 9-25-73, Cl. 34-38.000.
Hassler, Heinrich: *See—*
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Hasslinger, Robert L., to Hughes Aircraft Company. Workload allocation for one or more tools. 3,769,488, 10-30-73, Cl. 219-121.01m.
Hassman, Jeffrey; and Luft, Walter, to Jacoby-Bender, Inc. Watch mounting device. 3,738,100, 6-12-73, Cl. 58-88.0sc.
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Hastings, James E. Well screen cleaning device. 3,721,191, 3-20-73, Cl. 102-20.000.
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Hastwell, Peter J., to Savin Business Machines Corporation. Cleaning system for wetting tank rollers. 3,749,050, 7-31-73, Cl. 118-4.000.
Hastwell, Peter J., to Savin Business Machines Corporation. Corona charger configuration. 3,770,972, 11-6-73, Cl. 250-324.000.
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Hatanaka, Yoshihiro; and Shigemori, Hideto, to Glory Kogyo Kabushiki Kaisha. System of data discrimination in money dispensing machine. 3,718,824, 2-27-73, Cl. 307-149.000.
Hatanaka, Yoshihiro, to Glory Kogyo Kabushiki Kaisha. Coin-guiding device in coin wrapper. 3,775,940, 12-4-73, Cl. 53-212.000.
Hatanaka, Yoshihiro; and Ueba, Akio, to Kabushiki Kaisha Kokuei Kikai Seisakusho. Automatic teller system. 3,778,595, 12-11-73, Cl. 235-61.70b.
Hatand, Isao, to Omron Tateisi Electronics Co. Keyboard input device. 3,715,746, 2-6-73, Cl. 340-365.00s.
Hatano, Ikuo; Oida, Kyuya; Abe, Tatuo; Kumagai, Seiji; Ojima, Suco; and Nagaeda, Hiroshi, to Sumitomo Chemical Company, Ltd. High strength aluminum casting alloy. 3,759,758, 9-18-73, Cl. 148-159.000.
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Hatano, Isao; Nagano, Akira; and Koya, Kiyoshi, to Omron Tateisi Electronics Co. Digital display system. 3,732,545, 5-8-73, Cl. 340-172.500.
Hatano, Isao; Nagano, Akira; and Urasaki, Kazuaki, to Omron Tateisi Electronics Co. Electronic indicia display system. 3,761,766, 9-25-73, Cl. 315-84.600.
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Hatano, Isao; and Mabuchi, Isao, to Omron Tateisi Electronics Co. Input device. 3,764,997, 10-9-73, Cl. 340-172.500.

Hatano, Isao; and Nagano, Akira, to Omron Tateisi Electronics Co. Arithmetic system for use in electronic calculator. 3,775,601, 11-27-73, Cl. 235-156.000.
Hatano, Itaru; and Tsukamoto, Hiroji, to Kanegafuchi Kagaku Kogyo Kabushiki Kaisha. Method of making an expandable thermoplastic resin. 3,736,273, 5-29-73, Cl. 260-2.50b.
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Hatasa, Shigeyoshi; and Iioka, Isao, to Lion Hamigaki Kabushiki Kaisha. Spilanthol-containing compositions for oral use. 3,720,762, 3-13-73, Cl. 424-58.000.
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Hatch, Melvin J.; Schmidt, Donald L.; and Smith, Hugh B., to Dow Chemical Company, The. Poly (hydroxyarylpolymethylenesulfonium) zwitterionic monomers and surface coatings therefrom. 3,749,737, 7-31-73, Cl. 260-332.30r.
Hatch, Melvin J.; Schmidt, Donald L.; and Smith, Hugh B., to Dow Chemical Company, The. Poly(hydroxyarylpolymethylenesulfonium) zwitterionic monomers and surface coatings therefrom. 3,749,738, 7-31-73, Cl. 260-332.30r.
Hatch, Melvin J.; Schmidt, Donald L.; and Smith, Hugh B., to Dow Chemical Company, The. Poly(hydroxyarylpolymethylenesulfonium) zwitterionic monomers and surface coatings therefrom. 3,749,739, 7-31-73, Cl. 260-332.20a.
Hatch, Melvin J.; Schmidt, Donald L.; and Smith, Hugh B., to Dow Chemical Company, The. Poly-(hydroxy arylpolymethylenesulfonium) zwitterionic monomers and surface coatings therefrom. 3,767,622, 10-23-73, Cl. 260-47.00r.
Hatch, Michael R.: *See—*
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Hatchel, Charles Lee. Gas treatment apparatus and method. 3,733,782, 5-22-73, Cl. 55-95.000.
Hatcher, Arthur L., Jr.; and Stonefelt, Ronald D., to Western Electric Company, Incorporated. Method of controlling the reverse breakdown characteristics of semiconductors. 3,717,516, 2-20-73, Cl. 148-187.000.
Hatcher, Burrell R., to Raytheon Company. Compact multifrequency band antenna structure. 3,771,158, 11-6-73, Cl. 343-728.000.
Hatcher, Cecil W.; and Warner, Gene, to Pavement Grooving Ideas, Ltd. Concrete pavement cutting machine. 3,724,900, 4-3-73, Cl. 299-39.000.
Hatcher, Cecil W.; and Warner, Gene. Pavement cutting machine with tractor-trailer assembly. 3,765,724, 10-16-73, Cl. 299-39.000.
Hatcher, Cecil W.; and Warner, Gene. Pavement cutting machine-cutter bearing assembly. 3,771,831, 11-13-73, Cl. 299-39.000.
Hatcher, Cecil W.; and Warner, Gene. Pavement cutting machine with improved liquid coolant supply. 3,779,606, 12-18-73, Cl. 299-39.000.
Hatcher, Cecil W.; and Warner, Gene. Pavement cutting machine with selected drive system. 3,779,608, 12-18-73, Cl. 299-39.000.
Hatcher, Herbert J.; Truda, Robert J.; Lechner, Thomas G.; and McDuff, Charles R., to Economics Laboratory, Inc. Slime control in industrial waters. 3,773,623, 11-20-73, Cl. 195-60.000.
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Hatfield, Cecil T. Device for cultivating around a fixed object. 3,743,027, 7-3-73, Cl. 172-13.000.
Hatfield, Thomas J.; and Robertson, Gus C. Rotary engine apparatus. 3,731,661, 5-8-73, Cl. 123-43.00c.
Hatfield, William C.; and Reed, John M., to Lordel Manufacturing Services, Inc. Control circuits for key telephone system. 3,766,325, 10-16-73, Cl. 179-84.00a.
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Hathaway, Milton R., Jr. Camper pickup truck with removable hard top cover. 3,767,252, 10-23-73, Cl. 296-23.0mc.
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Hathcock, James S., Jr., to Conco Inc. Plural number control system for an automatic warehouse. 3,737,056, 6-5-73, Cl. 214-16.40a.
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Hatley, Lowell J. Fish net retrieval apparatus. 3,707,799, 1-2-73, Cl. 43-8.000.
Hatschek, Rudolf A.; and Witzke, Gunther G., to Vibro-Meter AG. Cable plug. 3,763,460, 10-2-73, Cl. 339-89.00m.
Hatschek, Rudolf A., to Vibro-Meter, AG. Cable connector assembly. 3,772,545, 11-13-73, Cl. 310-71.000.
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Hatta, Hiroshi; and Ishii, Yoshiteru, to Nippon Electric Company, Limited. Data handling system with relocation capability comprising operand registers adapted therefor. 3,754,218, 8-21-73, Cl. 340-172.500.
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Hattori, Hiroo, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Seat belt buckle provided with a switch means. 3,766,612, 10-23-73, Cl. 24-230.00a.
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Hattori, Soichiro. Spinning apparatus for continuous operation. 3,735,575, 5-29-73, Cl. 57-51.300.
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Hatz, Ernst. Piston engine. 3,735,741, 5-29-73, Cl. 123-56.00c.
Hatz, Ernst, to Motorenfabrik Hatz KG. Decompression device for internal combustion engines. 3,735,745, 5-29-73, Cl. 123-182.000.
Hatz, Ernst, to Motorenfabrik Hatz KG. Valve operating gear in internal combustion engines. 3,757,749, 9-11-73, Cl. 123-90.220.
Hatz, Ernst; and Schmuck, Johann, to Motorenfabrik Hatz KG. Air cooled internal combustion engine with noise reducing means. 3,762,497, 10-2-73, Cl. 181-33.00k.
Hatzig, Ernst, to Waldrich, H. A., G.m.b.H. Support adjusting device. 3,730,051, 5-1-73, Cl. 90-15.000.
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Haubein, Albert Howard, to Hercules Incorporated. Certain O-(2-pyrimidyl) phosphates and their use as insecticides. 3,741,968, 6-26-73, Cl. 260-251.00p.
Hauber, Ferdinand R., to Brown & Root, Inc. Universal offshore pipeline riser clamp assembly. 3,749,429, 7-31-73, Cl. 287-54.00a.
Haubner, Georg; and Hofer, Walter, to Bosch, Robert, G.m.b.H. Magneto generator for ignition systems of internal combustion engines. 3,746,901, 7-17-73, Cl. 310-70.000.
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Hauck, Albert. Dividing apparatus. 3,776,076, 12-4-73, Cl. 83-167.000.
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Haus, Paul Z., Jr., to Consolidated Edison Company of New York, Inc. Method and apparatus for detecting oil leaks in cables. 3,765,240, 10-16-73, Cl. 73-204.000.
Hausberg, Gerhard; and Hegemann, Karl-Rudolf, to Bischoff, Gottfried, Bau Kompl. Gasreinigungs und Wasserruckkuhlanlagen Kommanditgesellschaft. Apparatus for cleaning flue gases of blast furnaces and the like. 3,726,065, 4-10-73, Cl. 55-223.000.
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Hause, Gilbert K., to General Motors Corporation. Hydraulic energy translating device. 3,713,757, 1-30-73, Cl. 418-133.000.
Hause, Gilbert K., to General Motors Corporation. Method of making a torque transmitting unit. 3,745,643, 7-17-73, Cl. 29-510.000
Hause, Gilbert K., to General Motors Corporation. Power package. 3,747,436, 7-24-73, Cl. 74-730.000.
Hause, Gilbert K., to General Motors Corporation. Three-speed transmission and controls. 3,747,730, 7-24-73, Cl. 192-87.110.
Hause, Gilbert K., to General Motors Corporation. Hydrostatic transmission power package. 3,748,851, 7-31-73, Cl. 60-19.000.
Hause, Gilbert K., to General Motors Corporation. Three-speed split torque transmission. 3,772,939, 11-20-73, Cl. 74-677.000.
Hause, Gilbert K.; and Kohler, William L., to General Motors Corporation. Pumps and motors. 3,777,622, 12-11-73, Cl. 91-479.000.
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Hauser, Charles Frank; and Lynn, John Wendell, to Union Carbide Corporation. Catalytic process for producing phthaloyl chlorides. 3,734,959, 5-22-73, Cl. 260-544.00m.
Hauser, Daniel, to TRW Inc. Method of hollow ball fabrication. 3,772,750, 11-20-73, Cl. 29-148.40b.
Hauser, Erhard, to Pfeiffer, Arthur, Vakuumtechnik GmbH. Plant for processing casting resin. 3,773,300, 11-20-73, Cl. 259-4.000.
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Hauser, Helmut, to Schering AG. Process for the preparation of pregnane derivatives. 3,764,615, 10-9-73, Cl. 260-397.400.



Hauser, Jean. Jacks for use with containerized cargoes. 3,749,363, 7-31-73, Cl. 254-45.000.
Hauser, Karl V., to Levy, Edward, Company. Method of treating slag. 3,717,490, 2-20-73, Cl. 106-117.000.
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Hauser, William Paul, to Du Pont de Nemours, E. I., and Company. Process for recording images with laser beams. 3,723,121, 3-27-73, Cl. 96-27.000.
Hauser-Lienhard, Hans-Ulrich, to Grunzweig & Hartmann Aktiengesellschaft. Apparatus for carrying out full form casting process. 3,741,281, 6-26-73, Cl. 164-253.000.
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Haushalter, Roger W., to United States of America, Navy. Torpedo safe separation and arming mechanism. 3,752,104, 8-14-73, Cl. 114-20-r.
Hausinger, Otto,, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Lubricating arrangement for change-speed transmissions. 3,738,452, 6-12-73, Cl. 184-6.120.
Hausler, Douglas L. Modular carpet system. 3,751,327, 8-7-73, Cl. 161-40.000.
Hausler, Rudolf H.; and Sampson, Robert W., to Universal Oil Products Company. Temperature compensated fouling measuring method and apparatus. 3,731,187, 5-1-73, Cl. 324-65.00r.
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Hausmann, Heinrich. Turning key for rolling-up the empty end of a tube, possible in combination with a squeezing device. 3,759,421, 9-18-73, Cl. 222-99.000.
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Haussner, Theodor H. W., to Koppers Company, Inc. Continuous casting apparatus with shroud arrangement. 3,756,305, 9-4-73, Cl. 164-281.000.
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Hauth, Jean Marc, to Pont-A-Mousson S.A., mesne. Brake method and device. 3,727,727, 4-17-73, Cl. 188-72.900.
Hauth, Jean-Marc Laurent, to Pont-A-Mousson S.A. Device for taking up wear for a disc brake and a brake including said device. 3,746,133, 7-17-73, Cl. 188-196.0ba.
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Haven, Robert Lee, to Stanley Works, The. Conveyor system lift assembly. 3,750,815, 8-7-73, Cl. 214-730.000.
Havens, Charlie C.; and Welch, Herbert E., to Collins Radio Company. Magnetic tape cleaner apparatus. 3,767,210, 10-23-73, Cl. 274-47.000.
Havens, Richard Calvin, to Motorola, Inc. Concentric line negative resistance oscillator. 3,708,761, 1-2-73, Cl. 331-107.00r.
Havera, Herbert John; and Hayao, Shin, to Miles Laboratories, Inc. 3-Substituted derivatives of 1,3(3H)-benzoxazine-2,4-dione. 3,751,414, 8-7-73, Cl. 260-244.00r.
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Havinga, Reginoldus; and Swaters, Pieter Dirk, to Koninklijke Industrieele Maatschappij Noury & van der Lande N.V. Phenylene bis(amino-substituted benzoate) UV asorbers for polymers. 3,756,983, 9-4-73, Cl. 260-45.85a.
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Havlova, Milada, nee Stribrny, to Messrs Vest Ges. m.b.H. Shade for a light. 3,736,418, 5-29-73, Cl. 240-108.00r.
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Haw, Waily, to United States of America, Navy. Amplitude independent time of arrival detector. 3,763,436, 10-2-73, Cl. 328-147.000.
Hawes, Edward L. Vehicle sign. 3,715,821, 2-13-73, Cl. 40-129.00c.
Hawes, Edward L., to Hawes Industries, Inc. Vehicle sign assembly. 3,762,360, 10-2-73, Cl. 116-28.00r.
Hawes, Edward M. Resilient wheel. 3,763,910, 10-9-73, Cl. 152-14.000.
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Hawes, Roland C., to Cary Instruments. Polarization interferometer with beam polarizing compensator. 3,737,235, 6-5-73, Cl. 356-114.000.
Hawes, Roland C., to Cary Instruments. High resolution or high bandwidth monochromator. 3,748,040, 7-24-73, Cl. 356-101.000.
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Hawkings, William E., to Price Company, Limited, The. Paper machine couching box with a multiperforated surface. 3,758,380, 9-11-73, Cl. 162-306.000.
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Hawkins, Cyril M., to General Motors Corporation. Decoupler control. 3,713,518, 1-30-73, Cl. 192-46.000.
Hawkins, David N., to Filper Corporation. Method and apparatus for printing on empty bags. 3,765,326, 10-16-73, Cl. 101-44.000.
Hawkins, Donald B. Foot operated patio door lock. 3,751,087, 8-7-73, Cl. 292-170.000.
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Hawkins, George C.; and Cutts, James H. Method and apparatus for removing screen wire members from multi-level screen deck assemblies. 3,718,963, 3-6-73, Cl. 29-200.00d.
Hawkins, George C., to Motorola, Inc. Switching regulator sweep starting protection circuit. 3,733,540, 5-15-73, Cl. 321-47.000.
Hawkins, Harold V.; and Forys, Joseph E., to Columbus McKinnon Corporation. Overload prevention handle. 3,722,316, 3-27-73, Cl. 74-524.000.
Hawkins, Harold V.; Dick, Ralph A.; and Parlow, Alfred M., to Columbus McKinnon Corporation. Hoist operating hand wheel incorporating an overload protection mechanism. 3,724,815, 4-3-73, Cl. 254-169.000.
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Hawkins, Robert D. Deck hinge and locking apparatus for boats equipped with side decks. 3,779,197, 12-18-73, Cl. 114-85.000.
Hawkins, Robert L. Vehicle acceleration and deceleration indicator. 3,711,828, 1-16-73, Cl. 340-66.000.
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Hawley, George F., to Ivanhoe Research Corporation. Processes, systems, and composite systems for manufacture of wearing apparel, headgear, footwear, components thereof and similar products. 3,752,471, 8-14-73, Cl. 271-4.000.
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Hawley, William L., to Powerlite Devices Limited. Modular luminaire. 3,737,654, 6-5-73, Cl. 240-52.00r.
Haworth, James G. Automatically varied oscillation type ball projecting device. 3,757,759, 9-11-73, Cl. 124-7.000.
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Haworth, Lionel; Blea, Cyril; and Poucher, Michael, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Gas turbine engine. 3,727,998, 4-17-73, Cl. 308-184.00r.



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Hayes, Saul. Tennis ball pocket. 3,744,059, 7-10-73, Cl. 2-250.000.
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Hays, Eric L., to AMU Company. Accelerometer. 3,750,481, 8-7-73, Cl. 73-515.000.
Hays, Gordon W., to AMF Incorporated. Automatic grader. 3,750,882, 8-7-73, Cl. 209-111.600.
Hays, Jerry L.: *See—*
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Hays, John D.; Schauerte, Johnny F.; and Baswell, Harlen L., to National Cash Register Company, The. Torsional stepping motor and exciter apparatus therefor. 3,739,252, 6-12-73, Cl. 318-699.000.
Hays, Kenneth Scott; and Lawson, Gustaf Rudolph, to AMP Incorporated. Wiring raceway. 3,761,603, 9-25-73, Cl. 174-101.000.
Hays, Robert G.; and Rhee, Chongkook, to Motorola, Inc. Thin single crystal silicon on an insulating substrate and improved dielectric isolation processing method. 3,721,588, 3-20-73, Cl. 148-175.000.
Hays, Robert G.; and Rhee, Chongkook, to Motorola, Inc. Etch stop for koh anisotropic etch. 3,721,593, 3-20-73, Cl. 156-17.000.
Hays, Robert G., to Motorola, Inc. Method of making ultra-fine geometry planar semiconductor devices. 3,764,410, 10-9-73, Cl. 148-187.000.
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Haythornthwaite, James, to Scapa Dryers, Inc. Seam for paper felts. 3,735,451, 5-29-73, Cl. 24-33.000.
Haythornthwaite, James; and Fardeau, Joseph A., to Scapa Dryers (Canada) Ltd. Means for linking separable fasteners. 3,757,402, 9-11-73, Cl. 29-235.000.
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Hayward, Pierre. Means for pumping liquids in a pipeline. 3,773,429, 11-20-73, Cl. 415-11.000.
Hayward, Ronald Hamilton, to Scott and White Memorial Hospital and Scott, Sherwood and Brindley Foundation. Endotracheal tube with positive check valve air seal. 3,709,227, 1-9-73, Cl. 128-351.000.
Hayward, Walter Francis, 1/2 to Hampson Jig, Tool and Automation Limited. Copying devices for milling machines. 3,765,304, 10-16-73, Cl. 90-13.900.
Hayward, Wesley H.: *See—*
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Hayworth, Curtis Benjamin, to World Patent Development Corporation. Restoring and/or preserving papers or like materials. 3,778,401, 12-11-73, Cl. 260-29.6mc.
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Buhayar, Eric S.; Hazard, James E.; Jaagus, John J.; Werner, Fred W.; Wheeler, Robert W.; and Crowe, Robert C., 3,709,349.
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Hazard, Richard; and King, John, to Fisons, Limited. Bis (2-carboxy-1-thiachromonyl and yloxy) compounds. 3,710,459, 1-16-73, Cl. 26-327.0th.
Hazard, Robert E.; and Wilson, Woodrow S., to Polytop Corporation. Safety dispensing closure. 3,718,238, 2-27-73, Cl. 222-536.000.
Hazard, Robert E., to Polytop Corporation. Dispensing closure with initial breakable disc seal. 3,774,822, 11-27-73, Cl. 222-541.000.
Hazard, Robert E., to Polytop Corporation. Safety closure useable on threaded container neck. 3,776,428, 12-4-73, Cl. 222-153.000.
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Hazel, Herbert K., to International Business Machines Corporation. Wiring apparatus with wire path forming means. 3,734,386, 5-22-73, Cl. 228-5.000.
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Hazelhurst, Gerald D., to Mark Products, Inc. Fluid proof electrical connector. 3,757,274, 9-4-73, Cl. 339-60.000.
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Hazen, Edward J., to Bendix Corporation, The. True airspeed measuring apparatus. 3,735,635, 5-29-73, Cl. 73-181.000.
Hazen, George G., to Merck & Co., Inc. Process for preparing cephalosporin compounds. 3,780,033, 12-18-73, Cl. 260-243.00c.
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Hazenbosch, Edwin Hendrik; and Poot, Albert Lucien, to Agfa-Gevaert N.V. Formation of relief images. 3,728,120, 4-17-73, Cl. 96-48.00r.
Hazy, Andrew C., to Horizons Incorporated; division of Horizons Research Incorporated. Dry working photosensitive compositions comprising organic halogen compounds, ethylene compounds and carbinol compounds. 3,712,817, 1-23-73, Cl. 96-48.00r.
Hazzard, Harry I., to McCulloch Corporation. Process for impregnating electrical components. 3,751,549, 8-7-73, Cl. 264-272.000.
Hazzard, Noel D.; and Anderson, William M., to Air Preheater Company, Inc., The. Metallic recovery system. 3,780,676, 12-25-73, Cl. 110-8.00a.
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Headman, Robert K., to Penn Engineering & Manufacturing Corporation. Stud insertion apparatus for an automatic machine or press. 3,766,627, 10-23-73, Cl. 29-208.00c.
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Healey, Gerald F.; and Nirschl, Joseph C., to United States of America, Army. Proximity detector and alarm utilizing field effect transistors. 3,733,597, 5-15-73, Cl. 340-258.00d.
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Heap, James C.; Brown, Fred; and Graves, Donald C., to Union Tank Car Company. Railroad tank car. 3,766,862, 10-23-73, Cl.
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Hearn, Daniel P.; and Hetherington, William D., to Atlantic Richfield Company. Power supply and telemetry system for optical magnetometers. 3,728,612, 4-17-73, Cl. 324-.50r.
Hearn, Daniel P., to Atlantic Richfield Company. Synchronized period measuring system. 3,728,613, 4-17-73, Cl. 324-.50r.
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Hearn, Leo E., to Saginaw Products Corporation. Baggage cart. 3,764,165, 10-9-73, Cl. 280-419.000.
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Hechenbleikner, Ingenuin A., to Carlisle Chemical Works, Inc. Liquid 2-hydroxy-4-alkoxybenzophenone ultraviolet light stabilizers for polymers. 3,729,442, 4-24-73, Cl. 260-45.95f.
Hechenbleikner, Ingenuin A.; Hussar, John F.; Koeniger, Arthur F.; and Bresser, Robert E., to Cincinnati Milacron Chemicals, Inc. Sulfur containing esters of substituted hydroxy-phenylalkanoic acids. 3,763,220, 10-2-73, Cl. 260-773.00s.
Hechenbleikner, Ingenuin A.; Hussar, John F.; Koeniger, Arthur F.; and Bresser, Robert E., to Cincinnati Milacron Chemicals, Inc. Sulfur containing esters of substituted hydroxyphenylalkanoic acids. 3,763,221, 10-2-73, Cl. 260-473.00s.
Hechinger, Al. Hand grips for nursing bottles. 3,773,287, 11-20-73, Cl. 248-102.000.
Hechler, Valentine, IV. Hand operated low pressure valve. 3,709,259, 1-9-73, Cl. 137-630.150.
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Hechlhammer, Wilhelm; Schneider, Kurt; and Fahnler, Friedrich, to Bayer Aktiengesellschaft. Process for the production of reinforced polyamide hollow articles. 3,780,157, 12-18-73, Cl. 264-310.000.
Hecht, Horstmar; and Schwandt, Horst, to Gewerkschaft Victor Chemische Werke. Fertilizer coated with discontinuous layer. 3,708,276, 1-2-73, Cl. 71-27.000.
Hecht, Richard, to United Aircraft Corporation. Circular involute reflector for providing a variable pathlength. 3,776,637, 12-4-73, Cl. 356-106.000.
Hecht, Rudolph A., to TRW Inc. Adaptor. 3,747,050, 7-17-73, Cl. 339-156.00r.
Heck, Burnette; and Reynolds, Donald W., to General Motors Corporation. Temperature responsive pump drive mechanism. 3,730,301, 5-1-73, Cl. 188-71.600.
Heck, Friedrich, to Duria-Werk Karl Kempf KG and Aktiengesellschaft Adolph Saurer. Anti friction bearing pad. 3,729,292, 4-24-73, Cl. 29-182.300.
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Heck, Richard F., to Hercules Incorporated. Preparation of aryl-substituted acetylenic compound. 3,751,446, 8-7-73, Cl. 260-469.00r.
Heck, Richard F. Introduction of organic groups into ethylenically unsaturated carboxylic nitriles using a group VIII metal salt. 3,763,213, 10-2-73, Cl. 260-465.00k.
Heck, Richard F., to Hercules Incorporated. Arylation of allyl alcohols. 3,767,710, 10-23-73, Cl. 260-590.000.
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Heckendorf, Howard A., to General Motors Corporation. Omnidirectional sponsor. 3,732,844, 5-15-73, Cl. 116-114.0ah.
Heckenlaible, Harry R. Hook unit for pickup trucks. 3,722,910, 3-27-73, Cl. 280-179.00r.
Hecker, Alfred, to Anker-Werke AG. Device for registering business machines. 3,724,750, 4-3-73, Cl. 235-145.00r.
Hecker, Joel; and Zinke, Robert, to United States of America, Navy. Logarithmic amplifier and limiter. 3,745,374, 7-10-73, Cl. 307-230.000.
Hecker, Klaus J., to United States of America, Navy. Image correlator with image shift detection capability. 3,723,799, 3-27-73, Cl. 315-11.000.
Hecker, Klaus J., to United States of America, Navy. Remote target acquisition and lock-on system. 3,729,151, 4-24-73, Cl. 244-3.140.
Hecker, Klaus J., to United States of America, Navy. IFF-System. 3,750,163, 7-31-73, Cl. 343-6.50r.
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Heckrotte, John R., Sr.; and Marcacci, James P. Lock-off valve. 3,743,239, 7-3-73, Cl. 251-111.000.
Heckrotte, Robert Sherwood; and Scott, John Alexander, to Du Pont de Nemours, E. I., and Company. Opposed flow spinneret blanketer. 3,761,559, 9-25-73, Cl. 264-237.000.
Hectors, Adrianus Marie Petrus, to Occ-van der Grinten N.V. Resorcinol mono(aryloxy or arylthio) alkyl ethers. 3,769,018, 10-30-73, Cl. 96-91.00r.
Hedaway, Bernard Milton, to Commonwealth Scientific and Industrial Research Organization. Yarn spinning apparatus. 3,742,696, 7-3-73, Cl. 57-51.600.
Hedaya, Eddie, to Union Carbide Corporation. Novel paracyclophanes and process for preparation. 3,754,015, 8-21-73, Cl. 260-456.00p.
Hedberg, Nils Rune. Adjustable tool holder. 3,741,672, 6-26-73, Cl. 408-146.000.
Hedberg, Olof Johan Gerhard, to Lidkopings Mekanisha Verkstads AB. Movable machine element supported with the aid of a gas or fluid bearing. 3,754,799, 8-28-73, Cl. 308-5.00r.



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Hedeen, Nils E.; and Javenkoski, Carl W., to Harnischfeger Corporation. Hydraulic crane control to prevent uncontrolled falling of load. 3,722,707, 3-27-73, Cl. 212-59.00r.
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Hederich, Volker; Gehrke, Gunter; Neef, Rutger; and Wegner, Peter, to Bayer Aktiengesellschaft. Continuous dyeing of synthetic fibers with water immiscible organic solvents and amino anthraquinones. 3,740,186, 6-19-73, Cl. 8-39.000.
Hederich, Volker; Gehrke, Gunter; and Neeff, Rutger. Process for the continuous dyeing of polyester fibers. 3,741,720, 6-26-73, Cl. 8-39.000.
Hederich, Volker; Gehrke, Gunter; and Groll, Manfred, to Bayer Aktiengesellschaft. Process for continuous dyeing polyester fiber material with anthraquinone dyestuff. 3,754,858, 8-28-73, Cl. 8-39.000.
Hedge, John A., to Sun Research and Development Co. and Teijin Limited. Separation of 2,6-dimethylnaphthalene from 1,5-dimethylnaphthalene with molecular sieve. 3,772,399, 11-13-73, Cl. 260-674.0sa.
Hedgepeth, Edward B. Sway control unit. 3,779,582, 12-18-73, Cl. 280-446.00b.
Hedges, Harry O. Fuel injection nozzle assembly. 3,717,305, 2-20-73, Cl. 239-288.500.
Hedges, Joseph Ross. Rotary engine. 3,744,926, 7-10-73, Cl. 415-92.000.
Hedges, Melvin Ronald; and Rickrode, Cyril J., to Cam Industries, Inc. Tool shelf and apron for aerial cage. 3,727,722, 4-17-73, Cl. 182-129.000.
Hedgewick, Peter; and Bauer, Luthar J. Liquid proof safety package. 3,753,510, 8-21-73, Cl. 215-9.000.
Hedgewick, Peter, to Reflex Corporation of Canada Limited. Safety closure assembly. 3,756,445, 9-4-73, Cl. 215-9.000.
Hedgewick, Peter, to Reflex Corporation of Canada Limited. Roadway marker. 3,758,191, 9-11-73, Cl. 350-103.000.
Hedgewick, Peter, to Reflex Corporation of Canada Limited. Wrap-around tail light. 3,766,373, 10-16-73, Cl. 240-8.300.
Hedin, Jan S., to Ampex Corporation. Interchannel time displacement correction method and apparatus. 3,708,783, 1-2-73, Cl. 340-146.01d.
Hedin, Milton W., to Minnesota Mining and Manufacturing Company. X-ray film. 3,777,884, 12-11-73, Cl. 206-62.00r.
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Hedin, Robert A.; and Balzano, Alfiero F. Sound activated controller. 3,748,496, 7-24-73, Cl. 307-252.00w.
Hedin, Robert A., to Phinizy, R. B., mesne. Method and apparatus for producing encoded electrical keys. 3,757,305, 9-4-73, Cl. 340-164.00r.
Hedin, Robert Arnold, to Eaton Corporation. Security alarm system with bypass. 3,757,319, 9-4-73, Cl. 340-274.00r.
Hedler, Robert A., to GTE Sylvania Incorporated. Means and process for achieving a controlled particle size range of cathode ray tube phosphors. 3,720,306, 3-13-73, Cl. 209-1.000.
Hedlund, Junior M. Material handling apparatus. 3,774,754, 11-27-73, Cl. 198-224.000.
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Hedrich, Loren W., to Gulf Research & Development Company. Method of combating nutsedge. 3,737,299, 6-5-73, Cl. 71-94.000.
Hedrick, Geoffrey S., to Lear Siegler, Inc. Dual mode altimeter. 3,715,926, 2-13-73, Cl. 73-387.000.
Hedrick, Geoffrey S., to Lear Siegler, Inc. Altitude alerting apparatus. 3,735,341, 5-22-73, Cl. 340-27.00r.
Hedrick, Geoffrey S., to Lear Siegler, Inc. Digital responsive altimeter. 3,737,885, 6-5-73, Cl. 340-198.000.
Hedrick, Geoffrey S., to Lear Siegler, Inc. Apparatus for providing an analog output in response to a digital input. 3,744,050, 7-3-73, Cl. 340-347.0da.
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Hedstrom, James C., to United States of America, Atomic Energy Commission. Laser-driven fusion reactor. 3,762,992, 10-2-73, Cl. 176-1.000.
Hedu, Jon, to Bassett, W. E., Company, The. Clipper-combined device. 3,712,311, 1-23-73, Cl. 132-73.000.
Hedvig, Peter; and Miskolczy, Laszlo, to Muanyagipari Kutato Intezet. Continuously recording mechanical relaxation spectrometer. 3,756,074, 9-4-73, Cl. 73-99.000.
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Heehler, Arthur C.; and Taylor, George J., to Mercor Corporation. Locomotive warning horn. 3,710,752, 1-16-73, Cl. 116-142.0fp.
Heehler, Arthur C.; and Taylor, George J., to Mercor Corporation. Contactor with a removable arc chute. 3,728,506, 4-17-73, Cl. 200-144.00r.
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Heen, Helge K., to Adaks Products Incorporated. Apparatus for cleaning sewage water. 3,725,205, 4-3-73, Cl. 202-181.000.
Heenan, Sidney A.; Majewski, Norbert; and Montalbano, Anthony J., to Amerace Esna Corporation. Method for making a curved cube-corner reflector. 3,744,117, 7-10-73, Cl. 29-416.000.
Heeney, John M., to Fuller Company. Gas scrubber, entrainment separator and combination thereof. 3,767,174, 10-23-73, Cl. 261-62.000.
Heer, Heribert; Kantelhardt, Werner; and Kritzler, Gerhard, to Apparatebau Rothemuhle Brandt & Kritzler. Connection of discharge electrodes. 3,774,372, 11-27-73, Cl. 55-146.000.
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Heeren, Vernon L., to United States of America, Navy. Microwave beam scanner circuit. 3,710,389, 1-9-73, Cl. 343-7.400.
Heeren, Vernon L.; Howell, James M.; and Reis, C. Dale, to Raytheon Company. Phased array system. 3,775,769, 11-27-73, Cl. 343-100.30a.
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Heesemann, Karl. Grinding device for the radiused chamfering of an edge of a workpiece. 3,715,839, 2-13-73, Cl. 51-58.000.
Heesen, Theodorus Jacobus, to Simon-Heesen N.V. Roller press. 3,742,750, 7-3-73, Cl. 72-238.000.
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Heffan, Howard; Bergh, Emil M.; Mauch, John W.; and Sawick, Walter J., to United States of America, Navy. Nondestructive test device using radiation to detect flaws in materials. 3,766,387, 10-16-73, Cl. 250-360.000.
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Heffington, Thomas E. Mobile refuse retriever. 3,730,367, 5-1-73, Cl. 214-518.000.
Heffner, Robert E., to Aluminum Company of America. Easy opening device in a container wall. 3,744,666, 7-10-73, Cl. 220-98.000.
Heffner, Robert E., to Aluminum Company of America. Easy opening container wall. 3,764,038, 10-9-73, Cl. 220-48.000.
Heffran, Vernon C., to Owens-Illinois, Inc. Convenience opening closure. 3,724,700, 4-3-73, Cl. 215-46.00a.
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Heflinger, Lee O., to TRW Inc. Acoustic imaging system. 3,723,958, 3-27-73, Cl. 340-5.0mp.
Heflinger, Lee O., to TRW Inc. Contour mapping system. 3,743,418, 7-3-73, Cl. 356-5.000.
Heftman, George, to Rank Organisation Limited, The. Cryogenic device for cooling objects. 3,750,414, 8-7-73, Cl. 62-55.000.
Hegar, Frank; and Fleskes, Timothy E., to Warn-Belleview, Inc. Wheel hub clutching mechanism. 3,718,213, 2-27-73, Cl. 192-67.00r.
Hegar, Gert, to Ciba-Geigy AG. Azo dyestuffs containing a spiropiperazino cyclic ring. 3,711,459, 1-16-73, Cl. 260-146.00d.
Hegar, Gert, to Ciba-Geigy AG. Basic monoazo dyestuffs. 3,729,459, 4-24-73, Cl. 260-205.000.
Hegar, Gert, to Ciba-Geigy AG. Water-soluble, basic heterocyclic azo aminoethyl dyestuffs containing a quaternary ammonium alkanoyl substituent. 3,749,708, 7-31-73, Cl. 260-156.000.
Hegar, Gert; Angliker, Hans-Joerg; and Peter, Richard, to Ciba-Geigy AG. Heterocyclic disazo dyestuffs containing a bridging group and at least one quaternary ammonium group. 3,755,287, 8-28-73, Cl. 260-155.000.
Hegar, Gert; and Riat, Henri, to Ciba-Geigy AG. Halogeno-6-hydroxy-pyridone-(2) compounds. 3,776,918, 12-4-73, Cl. 260-296.00r.
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Hege, Sanford L. Air release lid. 3,733,750, 5-22-73, Cl. 49-379.000.
Hege, Sanford L. Sealed silo filling lid. 3,733,764, 5-22-73, Cl. 52-192.000.
Hegedus, Balthasar: *See—*
Bollag, Werner; Gutmann, Hugo; Hegedus, Balthasar; Kaiser, Ado; Langemann, Albert; Muller, Marcel; and Zeller, Paul, 3,711,543.
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Hegedus, Denes, to Schlage Lock Company. Auxiliary spring unit for locks. 3,708,191, 1-2-73, Cl. 292-1.000.
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Folson, Henry J.; Hegel, James D.; Hosokawa, William T.; Pester, William B.; and Porter, Irwin C., 3,711,964.
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Hegemann, Karl-Rudolf: *See—*
Hausberg, Gerhard; and Hegemann, Karl-Rudolf, 3,726,065.
Hegenberg, Peter: *See—*
Rohl, Hermann; Eversmann, Werner; Hegenberg, Peter; and Hellemanns, Gerhard, 3,761,517.
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Hegenscheidt, Wilhelm, Kommanditgesellschaft: *See—*
Naumann, Hans-Joachim, 3,735,620.
Heggs, Thomas Geoffrey: *See—*
Verne, Stefan; and Heggs, Thomas Geoffrey, 3,737,557.
Hegler, Wilhelm. Process of forming plastic tubing which is partially corrugated. 3,751,541, 8-7-73, Cl. 264-90.000.
Hegler, Wilhelm. Apparatus for the manufacture of plastic tubing of special cross-sectional configuration. 3,776,679, 12-4-73, Cl. 425-325.000.
Hegwer, Arnold M., to Fish Engineering & Construction, Inc. Method and apparatus for removing distillate from physical solvents. 3,739,548, 6-19-73, Cl. 55-45.000.
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Karlson, Harald; Goldsworthy, William B.; and Hegyi, Tim T., 3,734,421.
Hehl, Karl. Clamping unit for the casting mold of an injection molding machine. 3,720,061, 3-13-73, Cl. 60-52.0hf.
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Deli, Jack M.; and Hehmiz, Ramiz Y., 3,781,066.
Hehr, Herbert. Stone gatherer. 3,719,233, 3-6-73, Cl. 171-65.000.
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Heiba, El Ahmadi I.; and Dessau, Ralph M., to Mobil Oil Corporation. Substituted gamma-butyrolactones derivatives thereof and organic fluids containing same. 3,734,870, 5-22-73, Cl. 252-51.50a.
Heiba, El Ahmadi I.; and Dessau, Ralph M., to Mobil Oil Corporation. Substituted gamma-butyrolactones, amine derivatives thereof and organic fluids containing same. 3,734,871, 5-22-73, Cl. 252-51.50a.
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Heiba, El Ahmadi I.; and Dessau, Ralph M., to Mobil Oil Corporation. Substituted gamma-butyrolactones derivatives thereof and organic fluids containing same. 3,734,926, 5-22-73, Cl. 252-51.50a.
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Heibel, Helmut, to Girling Limited. Disc brakes for vehicles. 3,773,150, 11-20-73, Cl. 188-73.500.

Heiberger, Francis E.: *See*—
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Heid, Christian: *See*—
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Heid, Robert H. Quick change automatic transmission band and bracket assembly. 3,732,954, 5-15-73, Cl. 188-259.000.

Heid, Walter, to Rexroth GmbH. Valve. 3,735,780, 5-29-73, Cl. 137-625.690.

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Heidacker, Walter C., to General Motors Corporation. Engine oil pan. 3,724,599, 4-3-73, Cl. 184-6.500.

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Dalziel, Donald F.; and Heide, Charles H., 3,781,742.

Heidel, Klaus, to Chemische Werke Huls Aktiengesellschaft. Storable photosensitized polyester molding. 3,721,723, 3-20-73, Cl. 260-865.000.

Heidel, Rodney L., to Meridian Industries, Inc. Protective control circuit for vehicle electrical systems. 3,781,651, 12-25-73, Cl. 322-8.000.

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Harak, Gerhard; Hubert, Heinrich; and Kuhnert, Hans, 3,774,928.
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Eberlein, Wolfgang; Heider, Joachim; Kobinger, Walter; and Diederen, Willi, 3,752,803.

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Heider, Stanley A.: *See*—
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Boll, Harry Joseph; Heightley, John Donnell; Koo, James Teh-Zen; Lynch, William Thomas; Nelson, James Thomas; Bard, Richard; Waaben, Sigurd Gunther; and Waggener, Herbert Atkin, 3,771,147.

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Heitmann, Russell A. Circular saw tensioning method and apparatus. 3,754,485, 8-28-73, Cl. 76-112.000.
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Helgeson, Peter L., to Raytheon Company. Fuel burner structure. 3,739,766, 6-19-73, Cl. 126-19.00r.
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Heling, Wilhelm; and Brehm, Hans, to Freudenberg, Carl, Firma. Non-woven textile fleece containing perforated areas. 3,720,578, 3-13-73, Cl. 162-116.000.
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Heller, Paul R.; and Gehani, Ram T., to Westinghouse Electric Corporation. Sealing means for liquid cooled rotors for dynamoelectric machines. 3,733,501, 5-15-73, Cl. 310-54.000.
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Heller, William C., Jr.; and Shatzkin, Leonard (said Shatzkin assor. to said), 3,730,806.
Heller, William C., Jr.; and Shatzkin, Leonard, said Shatzkin assor. to said Heller, William C., Jr. Method of joining book leaves. 3,730,805, 5-1-73, Cl. 156-272.000.
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Hellerbach, Joseph; and Walser, Armin, to Hoffmann-La Roche Inc. 1-Acyloxyether-1,4-benzodiazepin-2-ones and methods for their preparation. 3,732,211, 5-8-73, Cl. 260-239.30d.
Hellerbach, Joseph; and Jaunin, Roland, to Hoffmann-La Roche Inc. 1-(Carboxyl-heteroalkyl)-1,4-benzodiazapine derivatives and processes for preparing same. 3,757,008, 9-4-73, Cl. 260-239.30d.
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Helliker, Conrad Dean; and Wilkinson, Terry E., to La Barge, Inc. Alerting system responsive to a plural tone signal. 3,735,342, 5-22-73, Cl. 340-34.000.
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Hellman, Robert R., to Westport Development & Manufacturing Company, Inc. Differential pressure switch. 3,742,165, 6-26-73, Cl. 200-83.00y.
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Hellmig, Ehrhard, to Agfa-Gevaert Aktiengesellschaft. Photographic process. 3,745,008, 7-10-73, Cl. 96-45.000.
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Hellstrom, Harold Richard. Alarms for night latch. 3,714,644, 1-30-73, Cl. 340-274.000.
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Hellwig, Karl, to Farymann Diesel, Darny & Weidmann. Shaft seal. 3,716,244, 2-13-73, Cl. 277-65.000.
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Helm, Dietrich, to Schering AG. Heat hardenable thickened epoxy resin masses. 3,728,302, 4-17-73, Cl. 260-37.0ep.
Helm, Eugene C., to General Motors Corporation. Vaccum processing machine. 3,714,925, 2-6-73, Cl. 118-49.000.
Helm, Eugene C., to General Motors Corporation. Vacuum processing machine. 3,747,740, 7-24-73, Cl. 198-209.000.
Helm, Herbert W.; and Barthalow, Henry D., to Smithe, F. L., Machine Company, Inc. Retractable gummer die for envelope machines. 3,712,265, 1-23-73, Cl. 118-212.000.
Helm, Herbert W., to Smithe, F. L., Machine Company, Inc. Rotatable panel cutter. 3,728,918, 4-24-73, Cl. 83-22.000.
Helm, Herbert W.; and O'Keefe, John Gail, to Smithe, J. L., Machine Company, Inc. Apparatus for applying patches to envelope blanks. 3,745,893, 7-17-73, Cl. 93-61.00a.
Helm, Herbert W., to Smithe, F. L., Machine Company, Inc. Flap folding apparatus. 3,745,894, 7-17-73, Cl. 93-61.000.
Helm, Herbert W., to Smithe, F. L., Machine Company, Inc. Adhesive application mechanism for envelope processing machinery. 3,747,561, 7-24-73, Cl. 118-259.000.
Helm, Joan K., to Textron, Inc. Aqueous chain extension of NCO prepolymer with tertiary amino polyol using nonionic surfactant, and aqueous dispersion produced. 3,781,238, 12-25-73, Cl. 260-29.2tr.
Helm, John L.; West, Robert L.; and Malcolm, Vincent T., Jr., to General Dynamics Corporation. Morred barge for arctic offshore oil drilling. 3,766,874, 10-23-73, Cl. 114-.50d.
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Padjen, George; Helman, Robert W.; and Brugger, Joseph A., 3,738,312.
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Anderson, Weston A.; and Helmer, John C., 3,714,417.
Helmer, John C., to Varian Associates. Planar retarding grid electron spectrometer. 3,710,103, 1-9-73, Cl. 250-49.5ae.
Helmer, John C.; and Weichert, Norbert H., to Varian Associates. Apparatus for performing chemical analysis by electron spectroscopy. 3,742,214, 6-26-73, Cl. 250-49.5af.
Helmer, Josef, to Daimler-Benz Aktiengesellschaft. Brake band guide structure for brake bands in automatic transmission. 3,710,643, 1-16-73, Cl. 74-606.00r.
Helmer, Josef, to Daimler-Benz Aktiengesellschaft. Mounting supports for the ends of brake bands of automatic transmissions. 3,726,153, 4-10-73, Cl. 74-606.000.
Helmer, Josef; and Eltze, Georg, to Daimler-Benz Aktiengesellschaft. Elastic plug-type pipe connection. 3,744,343, 7-10-73, Cl. 74-645.000.
Helmer, Josef, to Daimler-Benz Aktiengesellschaft. Securing arrangement of stator shaft at torque converter housing of a hydrodynamic torque converter. 3,751,918, 8-14-73, Cl. 60-330.000.
Helmer, Norman D. Athletic mouth protector apparatus. 3,768,465, 10-30-73, Cl. 128-136.000.
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van Scoy, Davis A., 3,720,138.
Helmers, Helmut, to Olympia Werke AG. One way clutch and brake device. 3,737,018, 6-5-73, Cl. 197-64.000.
Helmerson, Per-Erik, to Lectus AB. Lining board. 3,724,156, 4-3-73, Cl. 52-613.000.
Helmick, James William: *See—*
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Helms, Burl. Scaffold guard rail assembly. 3,752,262, 8-14-73, Cl. 182-113.000.
Helms, Charles Robert, to Container Corporation of America. Finger hold detail for article group carriers and method and apparatus for forming same. 3,738,698, 6-12-73, Cl. 294-87.200.
Helms, Charles Robert, to Container Corporation of America. Divider partitions for article carriers. 3,743,163, 7-3-73, Cl. 229-15.00r.
Helms, Charles Robert, to Container Corporation of America. Apparatus and method for enclosing of container groups. 3,751,872, 8-14-73, Cl. 53-32.000.
Helms, Clifford J., to Sperry Rand Corporation, mesne. Positioning system. 3,721,882, 3-20-73, Cl. 318-594.000.
Helms, Gerd: *See—*
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Helms, Harold E.; Schwedland, Ronald P.; and Waters, Floyd, Jr., to General Motors Corporation. Cooled jet flap vane. 3,726,604, 4-10-73, Cl. 415-115.000.
Helms, Horace H.; Rozner, Alexander G.; and Spencer, Dana E., to United States of America, Navy. Incendiary cutting torch for underwater use. 3,713,636, 1-30-73, Cl. 266-23.0nn.
Helms, Jack A., to Seahorse Spars and Equipment, Ltd. Extruded cam cleat. 3,730,129, 5-1-73, Cl. 114-218.000.
Helms, John D.; and Cecil, Olin B., to Texas Instruments, Incorporated. Low volume deposition reactor. 3,721,210, 3-20-73, Cl. 118-48.000.
Helmuth, James G., to Chadwick-Helmuth Electronics, Inc. Fiber optics light source. 3,770,338, 11-6-73, Cl. 350-96.00r.
Helser, Jerry L., to Owens-Corning Fiberglas Corporation. Slaking quicklime in aqueous sodium/potassium silicate solution in manufacture of hydrous calcium silicate products. 3,778,494, 12-11-73, Cl. 264-82.000.
Helsley, Grover Cleveland; Lunsford, Carl D.; and Richman, John A., Jr., to Robins, A. H., Company, Incorporated. 3-Di-substituted methylene pyrrolidines wherein the 1- or N-lower-alkyl substituent contains at least two carbon atoms. 3,732,247, 5-8-73, Cl.260-326.800.
Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. 1-Substituted-4-phenoxypiperidines. 3,743,645, 7-3-73, Cl. 260-293.740.
Helsley, Grover Cleveland, to Robins, A. H., Company, Incorporated. 1,2,3,4-Tetrahydroisoquinoline-2-(thio)-carboxamides. 3,745,162, 7-10-73, Cl. 260-283.00s.
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Helwig, Carl W. Portable wig dryer. 3,726,022, 4-10-73, Cl. 34-103.000.
Helwig, Frederick Charles, to Construction Specialties, Inc. Grille. 3,730,074, 5-1-73, Cl. 98-121.000.
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Hembree, Ralo L., to FMC Corporation. Singulator for seed or the like. 3,770,164, 11-6-73, Cl. 221-211.000.
Hembree, Ray. Supporting device for open topped receptacle. 3,768,763, 10-30-73, Cl. 248-97.000.
Hemeort, Heinz; Huster, Heinrich; and Heimeier, Franz, to Westfalia Separator AG. Process and plant for obtaining starch from crops. 3,756,854, 9-4-73, Cl. 127-24.000.
Hemfort, Heinrich, to Westfalia Separator AG. Centrifugal sludge separator with desludging control means. 3,749,303, 7-31-73, Cl. 233-20.00a.
Hemfort, Heinrich, to Westfalia Separator A.G. Self cleaning centrifuge drum with stepwise variable closing pressure. 3,765,599, 10-16-73, Cl. 233-20.00a.
Hemgren, Sven Anders. Letter cards and clamp bars for constructing signs, and method of assembling same. 3,753,306, 8-21-73, Cl. 40-128.000.
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Hemker, Herman W., to FMC Corporation. Apparatus and method for quenching and stabilizing extruded molten filaments. 3,709,970, 1-9-73, Cl. 264-176.00f.
Hemmat, Naim; and Wald, Fritz V., to Tyco Laboratories, Inc. Method of producing cadmium telluride crystals. 3,771,970, 11-13-73, Cl. 23-304.000.
Hemme, William R., to Collins Radio Company. VOR 9960 Hz harmonic generator. 3,729,683, 4-24-73, Cl. 328-16.000.
Hemme, William R., to Collins Radio Company. VOR AM modulator. 3,743,971, 7-3-73, Cl. 332-38.000.
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Hemmings, Keith Reginald, to British Leyland Truck and Bus Division Limited. Motor vehicle bodies. 3,761,108, 9-25-73, Cl. 280-106.50r.
Hemmingsen, John O.; Rogers, Glyn D.; and Mullen, Albert C., to MacMillan Bloedel Limited. Log bundling method and apparatus. 3,757,678, 9-11-73, Cl. 100-2.000.
Hempell, Leo Bruce, to Greene, David, Associates, Limited. Shaft positioning means. 3,780,360, 12-18-73, Cl. 318-138.000.
Hempelmann, Heinz J., to Richard & Trute Tool & Die Corporation. Workstock blanking apparatus. 3,760,623, 9-25-73, Cl. 72-336.000.
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Hemphill, Julie A., to United States of America, Air Force. Digital sorter and ranker. 3,740,538, 6-19-73, Cl. 235-177.000.
Hemphill, Robert W., to Sekur-It Products, Inc. Office equipment locking device. 3,744,282, 7-10-73, Cl. 70-58.000.



Hemsath, Klaus H.; and Wright, Dale E., to Midland-Ross Corporation. Combustion apparatus. 3,718,102, 2-27-73, Cl. 110-7.00r.
Hemsath, Klaus H.; and Wright, Dale E., to Midland-Ross Corporation. Combustion apparatus. 3,768,961, 10-30-73, Cl. 431-278.000.
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Hemstreet, Harold S., to Character Recognition Corporation, mesne. Method and apparatus for identifying letters, characters, symbols and the like. 3,713,099, 1-23-73, Cl. 340-146.30d.
Hemstreet, Harold S., to Character Recognition Corporation, mesne. Method and apparatus for identifying letters, characters, symbols, and the like. 3,713,100, 1-23-73, Cl. 340-146.30y.
Henc, Edward V. Feed system for apparatus for performing operations on sheet material. 3,709,483, 1-9-73, Cl. 271-44.00r.
Henc, Edward V. Tear tape applicator. 3,717,540, 2-20-73, Cl. 156-577.000.
Henc, Edward V. Applicator for paper handling apparatus. 3,735,733, 5-29-73, Cl. 118-261.000.
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Hendel, Hans W.; Chen, Francis F.; Chu, Tsu-Kai; Furth, Harold P.; Perkins, Francis W.; Simonen, Thomas C.; and Taylor, John B., to United States of America, Atomic Energy Commission. Plasma control by feedback. 3,733,248, 5-15-73, Cl. 176-3.000.
Hendel, Robert J.: *See—*
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Hender, Berkeley Stephens. Plural electric motor control systems. 3,771,032, 11-6-73, Cl. 318-8.000.
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Hendershot, William B., III; Tallent, Michael W.; Wald, David; and Whitlock, Larry K., to Consolidated Video Systems, Inc. High speed thermal duplication of magnetic tape. 3,777,075, 12-4-73, Cl. 179-100.20b.
Henderson, Barry C. Continuous heating apparatus for granular material. 3,749,549, 7-31-73, Cl. 432-49.000.
Henderson, Charles B.; and Hoglund, Richard F., to Atlantic Research Corporation, mesne. Dectrophillic gas generating compositions and process. 3,779,008, 12-18-73, Cl. 60-207.000.
Henderson, David J.; and Godich, Mike, Jr., to PPG Industries, Inc. Changing lift-out rolls supporting a continuous ribbon of glass. 3,754,880, 8-28-73, Cl. 65-27.000.
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Henderson, Donald W.; deceased (by Seitz, Joseph A.; executor); and Henderson, Shirley W., to Henderson, Shirley W. Underwater hull inspection. 3,776,574, 12-4-73, Cl. 283-1.000.
Henderson, Douglas J., to Champlain Power Products Limited. Externally pressurized seal. 3,727,924, 4-17-73, Cl. 277-23.000.
Henderson, Eulas W.; and Forseth, Glenn J., to Phillips Petroleum Company. Carbon black apparatus. 3,753,658, 8-21-73, Cl. 23-259.500.
Henderson, Harvey. Display system having flexible gear. 3,742,490, 6-26-73, Cl. 340-371.00r.
Henderson, Homer I. Cushion mounting. 3,776,536, 12-4-73, Cl. 267-35.000.
Henderson, Hugh E.; Huber, John Talmage; and Purser, Douglas Barrie. Animal feed and method of making same. 3,753,723, 8-21-73, Cl. 99-9.000.
Henderson, Ian; and Acaster, Geoffrey, to Beatson Clark & Company Limited. Bottle-gauging means. 3,771,650, 11-13-73, Cl. 209-80.000.
Henderson, Ian, to Printed Motors, Limited. Electric control apparatus. 3,780,366, 12-18-73, Cl. 318-345.000.
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Henderson, James B., to Bell & Howell Company. Film control in motion picture projectors. 3,773,411, 11-20-73, Cl. 352-166.000.
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Henderson, James R.; Johnson, Donald M.; and Muramoto, Michiya, to McDonnell Douglas Corporation. Production of high purity rare earth sulfides. 3,748,095, 7-24-73, Cl. 423-21.000.
Henderson, John H.: *See—*
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Henderson, Joseph D., to Telex Computer Products, Inc. Vacuum column for reel servo. 3,776,487, 12-4-73, Cl. 242-182.000.
Henderson, Joseph D., to Telex Computer Products, Inc. Dual-tach capstan speed control. 3,780,364, 12-18-73, Cl. 318-271.000.
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Henderson, Miles L., to Phillips Petroleum Company. Alkylation utilizing surge chambers with settling chambers in a common catalyst system. 3,763,266, 10-2-73, Cl. 260-683.430.
Henderson, Norman Leo; Bruno, August Joseph; and Drain, James Joseph, to American Cyanamid Company. Composition of matter and method of use. 3,758,680, 9-11-73, Cl. 424-22.000.
Henderson, Raymond Eugene. Portable charcoal stove. 3,765,397, 10-16-73, Cl. 126-25.00r.
Henderson, Raymond G., to A-T-O Inc. Liquid supply and recirculation means for partitioned clothes drum. 3,760,613, 9-25-73, Cl. 68-143.000.
Henderson, Raymond G.; and Hess, Ervin A., to G-T-O Inc. Washing machine and door structure therefor. 3,780,545, 12-25-73, Cl. 68-210.000.
Henderson, Robert A., to Ecodyne Corporation. Cartridge filter unit. 3,777,889, 12-11-73, Cl. 210-135.000.
Henderson, Rosetta M., to Du Pont de Nemours, E. I., and Company. Aromatic acetamidoxime-O-carbamates. 3,742,056, 6-26-73, Cl. 260-564.00g.
Henderson, Ross, to Gould, Inc. High speed AC failure detector circuit. 3,760,230, 9-18-73, Cl. 317-27.00r.
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Hendricks, Grover E. Ball anvil primer. 3,732,820, 5-15-73, Cl. 102-45.000.
Hendricks, Herbert D., to United States of America, National Aeronautics and Space Administration. Method of detecting oxygen in a gas. 3,709,663, 1-9-73, Cl. 23-232.00r.
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Hendricks, Laurel A. Sanitary napkin. 3,724,466, 4-3-73, Cl. 128-290.00r.
Hendricks, Leslie. Pleasure shoe. 3,777,374, 12-11-73, Cl. 36-38.000.
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Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,149, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,150, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,151, 11-20-73, Cl. 340-35.000.
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Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,153, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,154, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,155, 11-20-73, Cl. 340-35.000.
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Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,157, 11-20-73, Cl. 340-35.000.
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Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,161, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,162, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,163, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,164, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,165, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,166, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,167, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,168, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,169, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,170, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,171, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,172, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,173, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,174, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,175, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,176, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,177, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,178, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,179, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,180, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,181, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,182, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,183, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,184, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,185, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,186, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,187, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,188, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,189, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,190, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,191, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,192, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,193, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,194, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,195, 11-20-73, Cl. 340-35.000.
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Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,197, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,198, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,199, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,200, 11-20-73, Cl. 340-35.000.
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Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,203, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,204, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,205, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,206, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,207, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,208, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,209, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,210, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,211, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,212, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,213, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,214, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,215, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,216, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,217, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,218, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,219, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,220, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,221, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,222, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,223, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,224, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,225, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,226, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,227, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,228, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,229, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,230, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,231, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,232, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,233, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,234, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,235, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,236, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,237, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,238, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,239, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,240, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,241, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,242, 11-20-73, Cl. 340-35.000.
Hendricks, Robert Lee, to Gulf & Western Industries, Inc., mesne. Traffic cycle split selectors. 3,774,243, 11-20-73, Cl. 340-35.000.
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Hendrickson, Kenneth E.; and Mattson, Larry F., to International Business Machines Corporation. Open loop steeping motor acceleration-deceleration control. 3,732,480, 5-8-73, Cl. 318-696.000.
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Hendrickson, Melvin C.; Merrell, Richard G.; and Parisoe, Wilbert, to Zenith Radio Corporation. Real time remote use metering for broadcast receivers. 3,716,654, 2-13-73, Cl. 178-5.100.
Hendrickson, Melvin C.; and Merrell, Richard G., to Zenith Radio Corporation. Inhibitable random pulse generator. 3,716,797, 2-13-73, Cl. 328-63.000.
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Hendrickson, Melvin C., to Zenith Radio Corporation. Varactor tuner driver circuit. 3,769,590, 10-30-73, Cl. 325-459.000.
Hendrickson, Paul G., to Kelsey-Hayes Company. Servo action parking brake with rotary actuator. 3,743,060, 7-3-73, Cl. 188-72.200.
Hendrickson, Philip J.; and Resch, Richard J., to Krueger Metal Products, Inc. Self-centering support. 3,713,618, 1-30-73, Cl. 248-417.000.
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Herbert, Donald L., to Ohio Brass Company, The. Electric current collector. 3,740,498, 6-19-73, Cl. 191-49.000.
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Herchenroeder, Robert Blanchard Herman, to Cabot Corporation, mesne. Lanthanum containing powders for making oxidation resistant metallics, method of making same, and metallic products. 3,770,391, 11-6-73, Cl. 29-182.000.
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Schroter, Carl; and Mulfinger, Eckhard, 3,764,440.
Schroter, Carl, 3,767,039.
Hermann, Heinz; and Ocker, Herbert, to Werner & Pfleiderer. Process for mixing, kneading and granulating thermosetting plastic material in continuous operation. 3,749,375, 7-31-73, Cl. 259-192.000.
Hermann, Karl Heinz, to Bayer Aktiengesellschaft. Self-extinguishing polyamide moulding compositions. 3,751,394, 8-7-73, Cl. 260-37.00n.
Hermann, Karl Heinz, to Bayer Aktiengesellschaft. Polyamide molding composition containing plagioclase feldspar. 3,773,707, 11-20-73, Cl. 260-37.00n.
Hermann, Karl-Heinz, to Bayer Aktiengesellschaft. Process for the polymerization of lactams. 3,779,998, 12-18-73, Cl. 260-78.001.
Hermann, Lorin E., to Concrete Pipe Machinery Company. Wear surface for concrete pipe machine long bottoms. 3,733,163, 5-15-73, Cl. 425-262.000.
Hermann, Philip E., to Magnavox Company, The. Method for soldering electrical conductors. 3,755,886, 9-4-73, Cl. 29-496.000.
Hermann, Stanley R.: *See—*
Fellows, Charles T.; and Hermann, Stanley R., 3,721,635.
Peters, Gary J.; and Hermann, Stanley R., 3,754,959.
Hermans, Albert L. Ultrasonic burglar alarm system. 3,721,972, 3-20-73, Cl. 340-276.000.
Hermans, Albert L. Controlled wave pattern ultrasonic burglar alarm. 3,781,859, 12-25-73, Cl. 340-258.00a.
Hermans, Jean Pierre; Leblon, Emile; and Lejeune, Marcel, to Solvay & Cie. Process for the preparation of block polymers. 3,732,335, 5-8-73, Cl. 260-878.00b.
Hermans, Jean Pierre; and Henrioulle, Paul, to Solvay & Cie. Process for the preparation of a Ziegler-Natta type catalyst. 3,769,233, 10-30-73, Cl. 252-429.00a.
Hermanson, Lloyd H., to Hancock, John, Furniture Manufacturing Co. Outdoor furniture construction. 3,737,926, 6-12-73, Cl. 5-191.000.
Hermanson, Terry, to Christmas, Mr., Incorporated. Trunk for collapsible artificial tree. 3,713,957, 1-30-73, Cl. 161-14.000.
Hermansson, Bo; and Gustafsson, Jorgen, to Allmanna Svenska Elektriska Aktiebolaget. Plural motor slip-controlled driving means for traction purposes. 3,728,596, 4-17-73, Cl. 318-52.000.
Hermanutz, Peter, to International Standard Electric Corporation. Adjustable frequency-dependent equalizer. 3,750,052, 7-31-73, Cl. 333-28.00r.
Hermes, Heinz: *See—*
Gatermann, Willi; Sorgel, Rolf; Mudder, Hinderk; Thieme, Klaus-Dietrich; Sedlacek, Herbert; Weers, Uwe; and Hermes, Heinz, 3,748,955.
Hermes, Julius, to Martin Processing Company, Incorporated. Method for the surface treatment of polyimide materials. 3,770,528, 11-6-73, Cl. 156-2.000.
Hermes, Julius, to Martin Processing Company, Incorporated. Pretreatment and dyeing of shaped articles derived from wholly aromatic polyamides. 3,771,949, 11-13-73, Cl. 8-4.000.
Hermes, Matthew Edward, to Du Pont de Nemours, E. I., and Company. Alkoxy silyl alkyl compounds. 3,714,214, 1-30-73, Cl. 260-448.80r.
Hermes, Matthew Edward, to Du Pont de Nemours, E. I., and Company. Article coated with composition of polysilicic acid and silyl-fluorolefin. 3,775,171, 11-27-73, Cl. 117-138.80f.
Hermes, Matthew Edward, to Du Pont de Nemours, E. I., and Company. Alkoxy silyl alkyl compounds and polymers thereof. 3,781,251, 12-25-73, Cl. 260-80.710.
Hermes, Rolf, to Mannesmann-Meer Aktiengesellschaft. Hydraulic press for compression of powder. 3,758,245, 9-11-73, Cl. 425-78.000.
Hermes, Walter L.: *See—*
Pierce, Erold F.; Gigon, Richard M.; and Hermes, Walter L., 3,744,940.
Hermida, Felipe Urioste. Container-last for the cleaning of footwear. 3,750,207, 8-7-73, Cl. 12-128.00h.
Hermle, Franz, & Sohn: *See—*
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Hermle, Werner, to Hilti Aktiengesellschaft. Metal washer for an anchoring member. 3,735,664, 5-29-73, Cl. 85-10.00e.
Hermosa, Victor: *See—*
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Hermstein, Wolfgang, to Siemens Aktiengesellschaft. Weather-resistant light transmitting isolating device. 3,746,424, 7-17-73, Cl. 350-96.00b.
Hernandez, Armando C.: *See—*
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Hernandez, Henry R.: *See—*
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Hernandez, Jorge, to SCM Corporation. Dual-function keys for sign change and correction of erroneous entries. 3,762,637, 10-2-73, Cl. 235-156.000.
Hernandez, Jose A., to Esquire, Inc. Floodlight. 3,745,326, 7-10-73, Cl. 240-3.000.
Hernandez, Ralph, Jr., to Aircraft Instruments, Inc. Aircraft gyrohorizon indicator with signal lamp positional attitude indicating means. 3,723,963, 3-27-73, Cl. 340-27.000.
Hernandez, Ralph, Jr. Aircraft gyrohorizon indicator with signal lamp positional attitude indicating means. 3,737,846, 6-5-73, Cl. 340-27.0at.
Herndon, Brian K.: *See—*
Forchini, James F.; and Herndon, Brian K., 3,712,631.
Herndon, John W., to United States of America, Navy. Reflective panoramic TV projection system. 3,740,469, 6-19-73, Cl. 178-6.800.
Herndon, John W., to United States of America, Navy. Multiple gun rotatable television projector head for 360 degree display. 3,758,714, 9-11-73, Cl. 178-7.50d.
Herndon, Leon; and Pearson, Charles S., to Dayco Corporation. Crimping apparatus. 3,762,209, 10-2-73, Cl. 72-402.000.
Herndon, William H.: *See—*
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Herner, Raymond F.: *See—*
Hammond, Michael J.; and Herner, Raymond F., 3,740,250.
Hernestam, Sven E. H.; and Squires, Richard F., to A/S Ferrosan. Antidepressive morpholino compounds and methods of producing the same. 3,772,275, 11-13-73, Cl. 260-247.50r.
Hernick, Jack Frank. Automobile hoist. 3,724,602, 4-3-73, Cl. 187-8.540.
Hernon, Lon. Book marker. 3,744,447, 7-10-73, Cl. 116-119.000.
Hernqvist, Karl Gerhard; and Pultorak, Donald Chester, to RCA Corporation. Method for fabricating a gas-laser tube. 3,730,606, 5-1-73, Cl. 316-19.000.
Hernqvist, Karl Gerhard, to RCA Corporation. Internally-modulated gas laser. 3,760,296, 9-18-73, Cl. 331-94.500.
Herod, Donald M.; and English, Barry E., to General Motors Corporation. Shift indicator mechanism. 3,719,162, 3-6-73, Cl. 116-124.000.
Herok, Horst: *See—*
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Herold, Stanley J.: *See—*
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Dare, Sherman E.; Haas, Davey S.; Herold, Stanley J.; Norris, Steven R.; Patterson, Terry V.; and Sloan, Robert E., 3,713,394.
Herolzer, Ralph H., to Vanguard Industries, Inc. Stackable and nestable container. 3,722,735, 3-27-73, Cl. 220-97.00e.
Herolzer, Ralph H., to Vanguard Industries Inc. 90° Stackable and nestable tray. 3,780,905, 12-25-73, Cl. 220-97.00d.
Heron Establishment: *See—*
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Heron, John B., to Sprague Electric Company. Electrical component having an attached lead assembly. 3,710,210, 1-9-73, Cl. 317-258.000.
Heron, John B. High voltage monolithic ceramic capacitor. 3,721,871, 3-20-73, Cl. 317-261.000.
Herpers, Ferdinand J., Jr.: *See—*
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Herpich, William A.: *See—*
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Herpich, William A.; and Chaney, Donal W., to Peabody Galion Corporation. Rear loading refuse vehicle. 3,727,779, 4-17-73, Cl. 214-83.300.
Herpich, William A.; Palmer, George W.; and Bartholomew, Ray E., to Peabody Galion Corporation. Apparatus for dumping heavy containers. 3,730,365, 5-1-73, Cl. 214-302.000.
Herpich, William A.; Park, Glenn S.; and Palmer, George W., to Peabody Galion Corporation. Refuse collecting vehicle. 3,734,317, 5-22-73, Cl. 214-83.300.
Herpich, William A.; Chaney, Donal W.; and Palmer, George W., to Peabody Galion Corporation. Tailgate for a rear loader refuse vehicle. 3,746,192, 7-17-73, Cl. 214-83.300.
Herpich, William A.; Park, Glenn S.; and Palmer, George W., to Peabody Galion Corporation. Refuse collection vehicle. 3,749,261, 7-31-73, Cl. 214-82.000.
Herpich, William A.; Chaney, Donal Warren; and Palmer, George William, to Peabody Galion Corporation. Packer blade for a rear loader refuse vehicle. 3,767,068, 10-23-73, Cl. 214-83.300.
Herpich, William A.; Park, Glenn S.; and Palmer, George W., to Peabody Galion Corporation. Refuse collecting vehicle. 3,771,675, 11-13-73, Cl. 214-83.300.
Herpich, William A.; Chaney, Donal W.; and Palmer, George W., to Peabody Galion Corporation. Tailgate for a rear loader refuse vehicle. 3,777,917, 12-11-73, Cl. 214-83.300.
Herpich, William A.; and Chaney, Donal W., to Peabody Galion Corporation. Container dumping mechanism for a rear loader refuse vehicle. 3,779,409, 12-18-73, Cl. 214-302.000.
Herpin, Ivey. Fuel additive inductor for internal combustion engine. 3,716,040, 2-13-73, Cl. 123-198.00a.
Herr, Charles H.; and McIntosh, Alexander C., to Caterpillar Tractor Company. Transmission output clutch with conditional overrunning capability. 3,730,314, 5-1-73, Cl. 192-18.00a.
Herr, Charles H., to Caterpillar Tractor Company. Transmission input clutch. 3,736,814, 6-5-73, Cl. 74-740.000.
Herr, Frank M., to CCI Aerospace Corporation. Precompression shroud for inlets. 3,717,163, 2-20-73, Cl. 137-15.100.
Herr, Gerhard; and Treber, Willy O., to Gebr. Happich GmbH. Sunvisor, especially for motor driven vehicles. 3,716,269, 2-13-73, Cl. 296-97.00h.
Herr, Harry C. Cigarette lighter. 3,735,099, 5-22-73, Cl. 235-91.00r.
Herr, Harry C. Cigarette lighter with time lock. 3,744,953, 7-10-73, Cl. 431-13.000.
Herr, John H.: *See—*
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Herr, Milton E.: *See—*
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Fonken, Gunther S.; Herr, Milton E.; and Murray, Herbert C., 3,741,973.
Fonken, Gunther S.; Herr, Milton E.; and Murray, Herbert C., 3,780,022.
Herr, Milton E.; Murray, Herbert C.; and Fonken, Gunther S., to Upjohn Company, The. Oxygenated N,2,3,3-tetramethyl-exo-2-norbornanamines. 3,717,650, 2-20-73, Cl. 260-295.50s.
Herr, Milton E.; Murray, Herbert C.; and Fonken, Gunther S., to Upjohn Company, The. Oxygenated 1-amidoadamantanes. 3,717,677, 2-20-73, Cl. 260-557.00r.
Herr, Milton E.; Murray Herbert C.; and Fonken, Gunther S., to Upjohn Company, The. Method for the microbiological oxygenation of N-benzoyl-N,2,3,3-tetramethyl-exo-2-norbornanamine. 3,766,012, 10-16-73, Cl. 195-51.00r.
Herr, Nicholas George. Needle. 3,754,693, 8-28-73, Cl. 223-102.000.
Herr, Robert L., to Rimar Manufacturing Inc. Offset decorative window grill connection. 3,708,939, 1-9-73, Cl. 52-456.000.
Herr, Robert L., to Rimar Manufacturing, Inc. Automatic pin injector. 3,758,014, 9-11-73, Cl. 227-7.000.
Herr, Robert W.: *See—*
Dixon, Thomas E.; Herr, Robert W.; and Sigl, Edward D., 3,731,881.
Herr, Robert W. Surveyor's stake. 3,754,360, 8-28-73, Cl. 52-103.000.
Herr, Theodore Z. Sliding door construction utilizing an inflatable seal. 3,745,707, 7-17-73, Cl. 49-449.000.
Herramann, William Christian: *See—*
Keyes, Richard Martin; and Herramann, William Christian, 3,729,177.
Herrbach, Paul; and Breton, Alain, to CTA-Compagnie Industrielle de Textiles Artificiels et Synthetiques. Process for the production of crimped acrylonitrile base yarns with an isopropanol containing bath. 3,737,504, 6-5-73, Cl. 264-168.000.
Herrbrich, Bernd, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Apparatus for the automatic operation of operating devices for motor vehicles. 3,713,332, 1-30-73, Cl. 73-117.000.
Herrell, Arthur D., to Dow Chemical Company, The. Closure for film packages and method of making same. 3,780,488, 12-25-73, Cl. 53-38.000.
Herrell, Robert C., to Baker-Ross Inc. Adjustable scaffold. 3,737,007, 6-5-73, Cl. 182-210.000.
Herren, Cecil L.: *See—*
Palmer, Harold A.; and Herren, Cecil L., 3,770,057.
Herrendeen, Jerry L.; and Liebing, Phillip E., to Anaconda Wire and Cable Company. Packaging apparatus for strand. 3,754,721, 8-28-73, Cl. 242-83.000.
Herrera, Crisogono. Automatic geographical position indicator. 3,718,042, 2-27-73, Cl. 73-178.00r.
Herrera, Juan Hernandez. Apparatus for producing a beverage. 3,744,397, 7-10-73, Cl. 99-293.000.
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Herrick, Edward P.: *See—*
Hale, James C.; and Herrick, Edward P., 3,768,726.
Herrick, Frank T., to Massey-Ferguson, Inc. Bale packer fork adjustment. 3,736,866, 6-5-73, Cl. 100-189.000.
Herrick, Norman A., to Picker Corporation. X-ray inspection apparatus logic circuitry. 3,727,054, 4-10-73, Cl. 250-83.30d.
Herrick, Richard. Water driven vehicle. 3,774,848, 11-27-73, Cl. 239-191.000.
Herrick, Richard E.: *See—*
Olsen, Robert W.; and Herrick, Richard E., 3,717,968.
Herriger, Felix; and Dickopp, Gerhard, to Licentia Patent-Verwaltungs-G.m.b.H. Method and apparatus for scanning recording carriers by means of radiation beams. 3,764,759, 10-9-73, Cl. 179-100.40m.



Herrin, Carlos E., to Monarch Marking Systems, Inc. Method of and Herron, Francis H.; deceased (by Herron, Rose C.; executrix)

Herrin, Carlos E., to Monarch Marking Systems, Inc. Method of and apparatus for interpreting a coded record. 3,752,963, 8-14-73, Cl. 235-61.11e.
Herring, Carl E. Automobile timer. 3,710,246, 1-9-73, Cl. 324-162.000.
Herring, George D.; and Reid, Kenneth R., to International Business Machines Corporation. Dual stack to common path document feed apparatus and method. 3,733,068, 5-15-73, Cl. 271-9.000.
Herring, Joseph S. Pipeline plugging pig. 3,746,026, 7-17-73, Cl. 137-1.000.
Herring, Lloyd D., to Rowe International Inc. Centering mechanism for component sequencing machine. 3,738,473, 6-12-73, Cl. 198-29.000.
Herring, Theodore C.; Bracht, Ernest F.; Ainslie, Robert E.; Todd, Eugene M.; and Franz, Joseph J., to United States of America, Army. Air-launched radio apparatus. 3,715,668, 2-6-73, Cl. 325-112.000.
Herring, William Peter: *See*—
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Herriott, Donald Richard: *See*—
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Herrmann, Cal C.: *See*—
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Herrmann, Cal C. Threshold analyzer and stimulator testing device with integral generator. 3,757,790, 9-11-73, Cl. 128-419.00p.
Herrmann, Cal C., to ESB Incorporated. Body organ threshold analyzer. 3,769,986, 11-6-73, Cl. 128-419.00p.
Herrmann, Ernst, to Hager & Kassner KG. Thixotropic combination. 3,763,065, 10-2-73, Cl. 260-22.0tn.
Herrmann, Friedrich, to Golde, H. T., G.m.b.H. Window actuating apparatus with auxiliary manual operation. 3,750,491, 8-7-73, Cl. 74-625.000.
Herrmann, Geunter: *See*—
Sinn, Richard; Herrmann, Geunter; Nagel, Otto; Scheuring, Hubertus; and Hornberger, Paul, 3,755,452.
Herrmann, Gunther, to Photocircuits Division of Kollmorgen Corporation. Method and means for measuring the deposition rate in metallic plating baths. 3,719,565, 3-6-73, Cl. 204-1.00t.
Herrmann, Heinz Dieter: *See*—
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Herrmann, Helmut Friedrich; and Dizon, Rolando M., to Metalloxyd Gesellschaft mit beschrankter Haftung. Apparatus for producing an aluminum foil or band with an electrically insulating or decorative coating thereon. 3,726,783, 4-10-73, Cl. 204-300.000.
Herrmann, Helmut Friedrich; and Dizon, Rolando M., to Metalloxyd Gesellschaft mit beschrankter Haftung. Apparatus for continuous etching and anodizing of aluminum. 3,766,043, 10-16-73, Cl. 204-207.000.
Herrmann, Kurt; and Noss, Kornelius, to Siemens Akticngesellschaft. Light-optical apparatus for drafting very small figures with very fine line widths and/or extremely short line lengths. 3,747,486, 7-24-73, Cl. 95-12.000.
Herrmann, Manfred: *See*—
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Herrmann, Nancy I. Dispensing container. 3,743,082, 7-3-73, Cl. 206-1.00r.
Herrmann, Pierre, to Compteurs Schlumberger. Infrared absorption analysis method and apparatus for determining gas concentration. 3,781,910, 12-25-73, Cl. 250-341.000.
Herrmann, Siegfried: *See*—
Sohr, Hans-Ulrich; Leo, Reinhard; Bachmann, Wolfgang; and Herrmann, Siegfried, 3,768,967.
Herrmann, Willy. Ion exchange filter particularly a miniature filter. 3,730,349, 5-1-73, Cl. 210-281.000.
Herrmann, Wolfgang; and Satzinger, Gerhard, to Warner-Lambert Pharmaceutical Company. Process for the production of pure hexetidine. 3,749,721, 7-31-73, Cl. 260-256.40h.
Herrmanns, Peter, to FMN Schuster SA. Unwinding device for yarn spools. 3,722,826, 3-27-73, Cl. 242-129.500.
Herrnreiter, Siegfried. Automatic alarm setting system. 3,728,707, 4-17-73, Cl. 340-309.100.
Herrnring, Heinz Gunther, to Montblanc-Simplo GmbH. Fountain pen. 3,724,962, 4-3-73, Cl. 401-223.000.
Herrnring, Heinz Gunther, to Montblanc-Simplo G.m.b.H. Method of making fountain pen. 3,731,366, 5-8-73, Cl. 29-423.000.
Herron, Christopher C., to International Business Machines Corporation. Method of manufacturing a tubular printed circuit armature. 3,763,551, 10-9-73, Cl. 29-598.000.
Herron, Francis H.; deceased (by Herron, Rosa C.; executrix), to Petrolite Corporation. Corrosion test probe assembly. 3,714,012, 1-30-73, Cl. 204-195.00c.
Herron, Rosa C.: *See*—
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Herron, W. S., to Ward & Son, Inc. Oven and space heater appliance. 3,741,194, 6-26-73, Cl. 126-85.00b.
Herron, William L.: *See*—
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Herron, William L.; and Adams, Kenneth D., to Singer Company, The. Electric motor mount for sewing machines. 3,739,735, 6-19-73, Cl. 112-220.000.
Hers Management Corporation: *See*—
Harris, Stewart G.; and Bazelmans, Joseph B., 3,774,757.
Hersch, Ira I.: *See*—
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Herschler, Robert J.; and Jacob, Stanley W., said Jacob assor. to Crown Zellerbach Corporation, mesne. Pharmaceutical compositions with dimethyl sulfoxide. 3,740,420, 6-19-73, Cl. 424-45.000.
Herschler, Robert J., to Crown Zellerbach Corporation. Enhanced plant tissue penetration. 3,756,801, 9-4-73, Cl. 71-65.000.
Herschler, Robert John, to Crown Zellerbach Corporation. Compositions for topical application for enhancing tissue penetration of physiologically active agents with DMSO. 3,711,602, 1-16-73, Cl. 424-45.000.
Herschler, Robert John, to Crown Zellerbach Corporation. Enhancing tissue penetration of physiologically active steroidal agents with DMSO. 3,711,606, 1-16-73, Cl. 424-243.000.
Herschler, Robert John, to Crown Zellerbach Corporation. Enhancing tissue penetration of certain antimicrobial agents with dimethyl sulfoxide. 3,743,727, 7-3-73, Cl. 424-181.000.
Herschmann, Otto; Mettig, Hermann; Medenus, Bernhard; Howe, Hans-Ulrich; and Klatte, Hans-Jurgen, to Klockner-Humboldt-Deutz Aktiengesellschaft. Liquid cooled reciprocable piston internal combustion engine. 3,744,462, 7-10-73, Cl. 123-41.310.
Herscovitch, William Howard. Convertible rail-highway traction vehicle. 3,709,153, 1-9-73, Cl. 105-26.00r.
Hershberg, Philip I. Interviewing machines and method. 3,747,069, 7-17-73, Cl. 340-172.500.
Hershenson, Fred M., to Searle, G. D., & Co. 2-(chloropyridylamino)-1-pyrrolines. 3,716,548, 2-13-73, Cl. 260-296.00r.
Hershey, Elmer E.; and Crommett, Donald L., to Halliburton Company. Railway coupling apparatus. 3,760,954, 9-25-73, Cl. 213-69.000.
Hershkowitz, David M.: *See*—
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Hershkowitz, Joseph, to United States of America, Air Force. Flexible hollow spheres. 3,749,016, 7-31-73, Cl. 102-1.00r.
Hershman, Arnold: *See*—
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Paulik, Frank E.; Hershman, Arnold; Roth, James F.; and Knox, Walter R., 3,769,326.
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Paulik, Frank E.; Hershman, Arnold; Roth, James F.; and Knox, Walter R., 3,772,380.
Herson, Robert Joseph; and Kitsopoulos, Sotirios Constantine, to Bell Telephone Laboratories, Incorporated. Electroacoustic transducer having transducing element supporting means. 3,728,562, 4-17-73, Cl. 310-9.100.
Herte, Lawrence F.: *See*—
Lang, Albert, Jr.; and Herte, Lawrence F., 3,767,551.
Hertel, Heinz E., to Bell & Howell Company. Core microfilm. 3,743,204, 7-3-73, Cl. 242-68.500.
Hertel, Karl. Turning tool. 3,775,817, 12-4-73, Cl. 29-96.000.
Herter, Eberhard; and Ulrich, Peter Conrad, to International Standard Electric Corporation. System of time-division multiplex transmission via communications satellites. 3,710,027, 1-9-73, Cl. 179-15.0bs.
Herter, Eberhard, to International Standard Electric Corporation. D.C. monitor circuit. 3,748,395, 7-24-73, Cl. 179-18.0fa.
Herter, George L., to Herter's Inc. Plastic shotshell with sealing rings. 3,722,411, 3-27-73, Cl. 102-43.00p.
Herter, George L., to Herter's Inc. Polyethylene shotshell case. 3,722,412, 3-27-73, Cl. 102-43.00p.
Herter, George L., to Herter's Inc. Tapered cup wad. 3,722,420, 3-27-73, Cl. 102-95.000.
Herter, George L., to Herter's Inc. Molding of all plastic shotshell cases. 3,752,434, 8-14-73, Cl. 249-105.000.
Herter, George L., to Herter's Inc. Moose call. 3,772,823, 11-20-73, Cl. 46-180.000.
Herter, Hermann; and Scherf, Adolf, to Mannesmann Aktiengesellschaft. Apparatus for radially expanding the end portion of a tube made of thermoplastic synthetic material. 3,729,282, 4-24-73, Cl. 425-393.000.



Herter, Martin. Ball and socket pipe joint. 3,712,645, 1-23-73, Cl. 285-95.000.
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Hertrich, Friedrich R., to Iomec, Inc. Opto-electronic transducer for position initialization of a linear motion mechanism. 3,749,925, 7-31-73, Cl. 250-237.00g.
Hertrich, Friedrich R., to Iomec, Inc. Lightweight linear motor. 3,760,206, 9-18-73, Cl. 310-13.000.
Hertrich, Friedrich R., to Iomec, Inc. System for loading and positioning a transducer in a data storage disc cartridge. 3,772,665, 11-13-73, Cl. 340-174.10c.
Herty, Charles H., III, to North American Rockwell Corporation. Propellant casting. 3,722,354, 3-27-73, Cl. 86-1.000.
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Arciprete, Genio R.; Cairns, Walter J.; Hertz, Carl Hellmuth; Mansson, Kjell Ake Gosta; and Rothery, John L., 3,717,875.
Hertz, Carl Hellmuth. Liquid jet recorder. 3,737,914, 6-5-73, Cl. 346-75.000.
Hertz, Julius, to General Dynamics Corporation. Method of fabricating thin graphite reinforced composites of uniform thickness. 3,779,851, 12-18-73, Cl. 156-309.000.
Hertz, Sanford, to GTR Products, Inc. Keyboard teaching device. 3,707,897, 1-2-73, Cl. 84-479.000.
Hertzell, Adelbert F. Retractable side bumper guard. 3,718,357, 2-27-73, Cl. 293-9.000.
Hertzog, Heber T.; and Kamstra, Peter, to Garrett Corporation, The. Multi-engine to single shaft torque transmission. 3,748,927, 7-31-73, Cl. 74-675.000.
Hertzog, William Frederick: *See*—
Meysenburg, Raymond Richard; Recker, Robert James; Wetrich, Peter Donald; Kelly, Charles Whippel; Hertzog, William Frederick; and Conner, James Mervyn, 3,774,475.
Herubel, Jean Frederic, to Schlumberger, N., & Cie. Flexible unit assembly for processing textile fibres. 3,719,968, 3-13-73, Cl. 19-236.000.
Herubel, Jean-Frederic, to Schlumberger, N., & Cie. Device for fastening the ends of tubes which support elements for processing textile fibres. 3,735,450, 5-29-73, Cl. 24-31.00r.
Herud, Frank R., to Textron, Inc. Thrust chamber. 3,710,572, 1-16-73, Cl. 60-204.000.
Herunter, Franz, to AMF Incorporated. Ski boot or inner shoe for a ski boot. 3,744,161, 7-10-73, Cl. 36-2.5al.
Herve, Michel; and Rasneur, Bernard, to Commissariat a l'Energie Atomique. Apparatus for automatic and continuous plotting of absorption-desorption isotherms employed for determining the microstructure of porous bodies. 3,707,870, 1-2-73, Cl. 73-38.000.
Herveling, Wilhelm: *See*—
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Herweg, Jack E., to Tomeco, Inc. Portable air conditioner. 3,740,964, 6-26-73, Cl. 62-262.000.
Herweh, John E.; and Poshkus, Algirdas C., to Armstrong Cork Company. Poly(p-styrenesulfonylhydrazides) as blowing agents for plasticized poly(vinyl chloride). 3,709,844, 1-9-73, Cl. 260-2.50p.
Herweh, John E., to Armstrong Cork Company. Phosphorus-containing sulfonylhydrazides as blowing agents for resins. 3,730,921, 5-1-73, Cl. 260-2.50p.
Herweh, John E., to Armstrong Cork Company. Phosphorus-containing sulfonylchlorides. 3,761,544, 9-25-73, Cl. 260-947.000.
Herwig, Heinz; Mueller, Manfred; and Schoenefeld, Paul, to Filterwerk Mann & Hummel GmbH. Apparatus to regulate the intake air temperature of combustion engine prime movers. 3,726,512, 4-10-73, Cl. 261-39.00b.
Herwig, Walter: *See*—
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Herwig, Walter; Uebe, Rudolf; and Freund, Gunter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Thermoplastic molding compositions based on saturated polyesters. 3,741,936, 6-26-73, Cl. 260-75.00s.
Herwig, Walter; and Freund, Gunter, to Farbwerk Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Salts of polycarboxylic acids as nucleating agents in polyesters. 3,761,450, 9-25-73, Cl. 260-75.00t.
Herwig, Warren E., to Isotopes, Inc., mesne. Electrolysis system and method. 3,755,128, 8-28-73, Cl. 204-230.000.
Herwig, William C.; and Westermann, Donald H., to Miller Brewing Company. Method of purifying acidic components of a hop extract. 3,759,999, 9-18-73, Cl. 260-586.00r.
Herz, Arthur Herman; and Westcott, Edwin Russell, to Eastman Kodak Company. Silver halide emulsions containing alkyl selenols and thiols as antifoggants. 3,732,103, 5-8-73, Cl. 96-109.00r.
Herz, Jack L., to Stauffer Chemical Company. Preparation of esters of aromatic alcohols. 3,780,094, 12-18-73, Cl. 260-488.0cd.
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Herzer, Jorge Abel; and Julia, Joseph R. Pre-fabricated shell structure. 3,755,975, 9-4-73, Cl. 52-90.000.
Herzhoff, Peter: *See*—
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Herzhoff, Peter; Gref, Hans; and Schweicher, Wolfgang, to Agfa-Gevaert Aktiengesellschaft. Extruder for the production of foils. 3,726,628, 4-10-73, Cl. 425-461.000.
Herzhoff, Peter; Gref, Hans; Schweicher, Wolfgang; Heidenreich, Max; and Frenken, Hans, to Agfa-Gevaert Aktiengesellschaft. Drying arrangement on machines for coating supporting webs, more especially with photographic emulsions. 3,738,018, 6-12-73, Cl. 34-55.000.
Herzig, Robert W., to Sprague Electric Company. Battery operating system timed by coulometers. 3,710,225, 1-9-73, Cl. 320-9.000.
Herzig, Robert W.; Clemont, Warren J.; and Zauds, Juris, to Sprague Electric Company. Pulsed charged electrochemical timing cells and method of operating. 3,755,728, 8-28-73, Cl. 320-9.000.
Herzing, Vernon J.: *See*—
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Herzl, Peter J., to Fischer & Porter Company. Sensor assembly for vortex-type flowmeters. 3,733,897, 5-22-73, Cl. 73-194.00b.
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Herzog, Gunther; Kahle, Gunter; Kolling, Wolfgang; Lamm, Christian; Munch, Ursula; Schumann, Horst; Wolfrom, Walter; Riesel, Werner; and Wagner, Roland, to Dungemittelkombinat veb Sticksloffwerk Piesteritz. Process for increasing the strength of cement obtined from calcium sulfate. 3,717,489, 2-20-73, Cl. 106-103.000.
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Herzog, Hershel L.; Weber, Lois; and Shapiro, Elliot L., to Schering Corporation. Hydrolysis of steroidal 21-carbonates. 3,740,316, 6-19-73, Cl. 195-51.00r.
Herzog, Kurt. Valved nozzle for an injection molding machine. 3,777,990, 12-11-73, Cl. 239-571.000.
Herzog, Peter, to Polytype AG. Web coating apparatus. 3,762,365, 10-2-73, Cl. 118-212.000.
Herzog, Rollie R.; and Neusbaum, Frank A., to General Electric Company. Voltage compensated firing circuit. 3,767,940, 10-23-73, Cl. 307-252.00p.
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Herzog, William F.: *See*—
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Hescher, Manfred, to Fernseh G.m.b.H. Magnetic head wheel rotor and transformer assembly with anti-rotation locking means. 3,763,327, 10-2-73, Cl. 179-100.20t.
Hesebeck, Manfred; and Soring, Holger. Tube writing pen. 3,737,242, 6-5-73, Cl. 401-157.000.
Hesee, Kurt. Adaptor for current collectors, for lights, electric appliances or the like. 3,757,273, 9-4-73, Cl. 339-21.00r.
Heseltine, Donald W.: *See—*
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Fumia, Arthur, Jr.; and Heseltine, Donald W., 3,718,476.
Gilman, Paul B.; and Heseltine, Donald W., 3,769,011.
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Stewart, Paul Harold; and Heseltine, Donald W., 3,769,014.
Heseltine, Robert William; and Dawson, John Burt, to Pilkington Brothers Limited. Thermochromic composition of cobalt II chloride in cured polyester. 3,723,349, 3-27-73, Cl. 252-408.000.
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Heslinga, Adolf; and Napjus, Petrus Jan, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid, Handel en Verkeer. Method for hardening an epoxy having at least two 1,2-epoxy groups. 3,741,934, 6-26-73, Cl. 20-47.0ec.
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Hess, Alexander Mcd. Centrifugal type ball projecting device. 3,765,395, 10-16-73, Cl. 124-4.000.
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Hess, George A.; Kffalas, John H.; and MacInnes, Richard D., to Honeywell Information Systems, Inc. Capacitive read only memory. 3,737,874, 6-5-73, Cl. 340-173.0sp.
Hess, Gildard H., to Stanray Corporation. Carousel for baggage and other articles. 3,718,249, 2-27-73, Cl. 198-181.000.
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Hess, Hans-Jurgen E.; and Nelson, Roger P., to Pfizer Inc. (2-Imidazolin-2-ylamino)substituted benzo[b]thiophenes. 3,740,417, 6-19-73, Cl. 260-309.600.
Hess, Hans-Jurgen E.; and Nelson, Roger P., to Pfizer Inc. 18β-Glycyrrhetinic acid amides useful as antiulcer agents. 3,766,206, 10-16-73, Cl. 260-309.000.
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Hess, Howard V.: *See—*
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Hess, Howard V.; and Guptill, Frank E., Jr., to Texaco Inc. Water purification. 3,731,801, 5-8-73, Cl. 210-56.000.
Hess, Howard V.; and Cole, Edward L., to Texaco Inc. Coking of spent pulping liquors with subsequent $SO_2$ absorption. 3,770,574, 11-6-73, Cl. 162-31.000.
Hess, Karl Gunter; and Werner, Kurt, to Scheider, Jos., & Co., Optische Werke. Adapter for television camera. 3,709,133, 1-9-73, Cl. 95-45.000.
Hess, Karl-Gunter, to Schneider, Jos., & Co. Optische Werke. Two-way drive for optical systems and the like. 3,760,253, 9-18-73, Cl. 318-618.000.
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Hess, Peter: *See—*
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Hess, Roland H.; Hoekje, Howard H.; Creasey, Jack R.; and Strain, Franklin, to PPG Industries, Inc. Tire. 3,768,537, 10-30-73, Cl. 152-330.000.
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Hess, William J., to United States of America, Navy. Hardlimiter, automatic symmetry circuit. 3,721,835, 3-20-73, Cl. 307-237.000.
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Hesse, Kurt, to Staff & Schwarz G.m.b.H. Current distributor rail. 3,753,209, 8-14-73, Cl. 339-21.00r.
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Hesselmann, Patrick George, to Honeywell Information Systems Inc. Terminal pin straightening machine. 3,730,234, 5-1-73, Cl. 140-147.000.
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Hesskamp, Robert G.; Meyer, Kenneth P.; and Tornero, Rogelio, to MR Plastics and Coatings, Inc. Self-extinguishing polyurethane foam composite materials and method of preparing same. 3,717,597, 2-20-73, Cl. 260-2.5aj.
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Hesslein, Robert J.; and Chamberlin, Robert W. Remnant retractor collet. 3,733,081, 5-15-73, Cl. 279-46.000.
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Hester, Jackson B., Jr., to Upjohn Company, The. 2,4-Dihydro-6-phenyl-1H-s-triazola[4,3-a] [1,4] benzodiazepin-1-one compositions and method of treatment. 3,708,592, 1-2-73, Cl. 424-269.000.
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Hester, Jackson B., Jr., to Upjohn Company, The. 6 Phenyl-4H-s-triazolo [4,3-d] [1,4] benzodiaylpines and their production. 3,709,899, 1-9-73, Cl. 260-308.00r.
Hester, Jackson B., Jr., to Upjohn Company, The. Pyridobenzodiszepinones. 3,714,149, 1-30-73, Cl. 260-239.30t.
Hester, Jackson B., Jr., to Upjohn Company, The. 6,7-Dihydro-7-alkyl-5h-1,2,4-triazolo [4,3-d] [1,4] benzodiazepines and their production. 3,714,178, 1-30-73, Cl. 260-308.00r.
Hester, Jackson B., Jr., to Upjohn Company, The. Triazolobenzodiazepines and their production. 3,717,653, 2-20-73, Cl. 260-308.00d.
Hester, Jackson B., Jr., to Upjohn Company, The. 2,5,6,7-Tetrahydro-3H-s-triazolo[4,3-d] [1,4]-benzodiazepin-3-onc compounds and their production. 3,717,654, 2-20-73, Cl. 260-308.00c.
Hester, Jackson B., Jr., to Upjohn Company, The. 4,5-Di-hydropyrrolo[3,2,1-jk] [1,4] benzodiazepin-7(6H)-ones and 4,5-dihydropyrrolo [1,2,3-ef] [1,5] benzodiazepin-6(7H)-ones. 3,734,919, 5-22-73, Cl. 260-239.30t.
Hester, Jackson B., Jr., to Upjohn Company, The. Certain 4H-s-triazolo[4,3-a] [1,4] benzodiazepines. 3,734,922, 5-22-73, Cl. 260-296.00t.
Hester, Jackson B., Jr., to Upjohn Company, The. Certain 2-acyl-2,4-dihydro-6-phenyl[1,2,3,5] thiatriazolo[5,4-a][1,4]benzodiazepine-1-oxides and process. 3,737,434, 6-5-73, Cl. 260-302.00f.
Hester, Jackson B., Jr., to Upjohn Company, The. 2-Acyl hydrazino benzo diazepines. 3,741,957, 6-26-73, Cl. 260-237.0bd.
Hester, Jackson B., Jr., to Upjohn Company, The. 4-(2-Benzoylphenyl)-2,4-dihydro-5 [(alkylamino)alkyl]-3H-1,2,4-triazol-3-ones and process. 3,749,733, 7-31-73, Cl. 260-308.00c.
Hester, Jackson B., Jr., to Upjohn Company, The. 1-Substituted-6-phenyl-7H-s-triazolo(4,3-a) (1,6)benzodiazepinc compounds. 3,751,426, 8-7-73, Cl. 260-308.00r.
Hester, Jackson B., Jr., to Upjohn Company, The. Amido and amino triazolo benzodiazepines. 3,759,943, 9-18-73, Cl. 260-38.00r.
Hester, Jackson B., Jr., to Upjohn Company, The. 4H-s-Triazolo[4,3-a][1,4]benzodiazepines. 3,767,660, 10-23-73, Cl. 260-294.900.
Hester, Jackson B., Jr., to Upjohn Company, The. 4H-s-triazolo[4,3-a][1,4]benzodiazepines. 3,767,661, 10-23-73, Cl. 260-295.00t.
Hester, Jackson B., Jr., to Upjohn Company, The. Certain 2-(3-substituted-4H-1,2,4-triazol-4-yl)-2-phenylbenzylamines. 3,772,317, 11-13-73, Cl. 260-308.00r.
Hester, Jackson B., Jr., to Upjohn Company, The. 7-Chloro-1-methyl-5-phenyl-s-triazolo-(4,3-a) quinolines. 3,781,289, 12-25-73, Cl. 260-288.00r.
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Heter, Elmo W., Jr., to Sheridan Products Inc. Dispenser type box. 3,759,428, 9-18-73, Cl. 222-480.000.
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Hetzel, Max; and Waibel, Pierre, to Omega Louis Brandt & Frere S.A. Motion transformer. 3,744,326, 7-10-73, Cl. 74-128.000.
Hetzel, Max, to Omega Louis Brandt & Frere S.A. Motion transformer. 3,744,327, 7-10-73, Cl. 74-128.000.
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Heuer, Hans, to Anker-Werke AG. Electromagnetic drive for data indication. 3,775,714, 11-27-73, Cl. 335-230.000.
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Heyne, Marvin E., to Cornelius Company, The. Mixing valve assembly. 3,730,210, 5-1-73, Cl. 137-329.100.
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Heynick, Louis N.: *See—*
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Heywang, Walter; and Guntersdorfer, Max, to Siemens Aktiengesellschaft. Clock drive with piezoelectric tuning fork. 3,747,326, 7-24-73, Cl. 58-23.0tf.
Heyward, Harold. Stapler device. 3,753,524, 8-21-73, Cl. 227-132.000.
Hezel, William J.; and Neubert, Robert J. Plumbing fittings. 3,711,128, 1-16-73, Cl. 285-153.000.
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Hiatt, Norman A., to Uniroyal, Inc. Polyarylene tetrasulfide polymers. 3,719,645, 3-6-73, Cl. 260-79.000.
Hiatt, Wilbur L. Combination lock and fuel cut-off valve apparatus. 3,747,378, 7-24-73, Cl. 70-257.000.
Hibabayashi, Satoshi: *See—*
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Hibbeler, Charles L., to Nooter Corporation. Tubesheet construction. 3,749,161, 7-31-73, Cl. 165-178.000.
Hibbert, Charles; Kirk, Frederick Arthur; Siddall, Keith; and Howard, Michael Roi, to Osborn-Mushet Tools Limited. Twist drills. 3,709,628, 1-9-73, Cl. 408-229.000.
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Robinson, John Joseph; and Hibbert, Frederick, 3,757,433.
Hibbert, Peter G.; and Lofland, Jerry C., to Du Pont de Nemours, E. I., and Company. Rapid drying polyvinyl alcohol color coating process. 3,711,321, 1-16-73, Cl. 117-119.600.
Hibbert, Sydney George, to Sprocket Properties Limited. Fluidised bed apparatus and method. 3,745,940, 7-17-73, Cl. 110-8.00r.
Hibbins, William A., to General Electric Company. Gas cooked dual fuel air atomized fuel nozzle. 3,777,983, 12-11-73, Cl. 239-422.000.
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Hibbs, Louis E., Jr.; Holub, Fred F.; and Darrow, Kenneth A., to General Electric Company. Grinding wheels formed from prepolymer compositions containing aliphatically unsaturated imido radicals. 3,718,447, 2-27-73, Cl. 51-295.000.
Hibbs, Louis E., Jr., to General Electric Company. Zinc diffused copper. 3,729,294, 4-24-73, Cl. 29-195.000.
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Hibner, David H.; and Comeau, Roger J., to United Aircraft Corporation. Shaft damping arrangement. 3,756,672, 9-4-73, Cl. 308-26.000.
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Hickey, Gordon P., to Hoerner-Waldorf Corporation. Method of securing a container to a pallet. 3,708,861, 1-9-73, Cl. 29-432.000.
Hickey, Herbert P.: *See—*
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Hickey, James R., to Mosher, Robert H.; d/b/a R. M. Associates. Synthetic terrain covering. 3,736,847, 6-5-73, Cl. 272-56.500.
Hickey, Lionel Russell; and McCune, Ellsworth Jacob, to Eastman Kodak Company. Machine programmer. 3,734,608, 5-22-73, Cl. 355-14.000.
Hickey, Lionel Russell; and Guyette, Frank L., to Eastman Kodak Company. Sequencer device for controlling web replacement in electrophotographic apparatus. 3,741,640, 6-26-73, Cl. 355-3.000.
Hickey, Lionel Russell, to Eastman Kodak Company. Magnetically-controlled machine programmer. 3,746,443, 7-17-73, Cl. 355-14.000.
Hickey, Victor F., to FMC Corporation. Terrain vehicle. 3,709,314, 1-9-73, Cl. 180-44.00r.
Hickey, William P. Tank, filter and deproteinator for marine life. 3,760,767, 9-25-73, Cl. 119-3.000.
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Hickinbotham, Donald E., to Hickinbotham Bros. Ltd. Steel bar storage rack unit and cooperating lifting device. 3,734,312, 5-22-73, Cl. 214-16.40a.
Hickinbotham, William Percy. Suspension unit for vehicle seats. 3,712,603, 1-23-73, Cl. 267-131.000.
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Hickman, Albert F. Tandem wheel vehicle spring suspension. 3,749,417, 7-31-73, Cl. 280-104.50r.
Hickman, Albert F., to Hickman Developments, Inc. Tandem wheel spring suspension. 3,768,826, 10-30-73, Cl. 280-104.50r.
Hickman, Albert F. Self-steering standem axle suspension. 3,768,827, 10-30-73, Cl. 280-104.50r.
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Hickman, Jack. Transportation system. 3,735,710, 5-29-73, Cl. 104-168.000.
Hickman, John B., to Hickman, W. P., Company, Inc. Coping and support therefor. 3,719,010, 3-6-73, Cl. 52-60.000.
Hickman, John B., to Hickman, W. P., Company, Inc. Water dam flashing for roof wall. 3,731,439, 5-8-73, Cl. 52-61.000.
Hickman, Malcolm Douglas, to Rocla Concrete Pipes Limited. Pipe winding machine. 3,770,219, 11-6-73, Cl. 242-7.220.



Hickman, Richard W.; Rocheleau, Antoni A.; and Spitz, David A., to Industrial Nucleonics Corporation. Dryer performance indicator. 3,731,520, 5-8-73, Cl. 73-73.000.
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Hickner, George B.; Slavin, Michael; and Howard, Donald W., to Bendix Corporation, The. Adaptive braking control system using peak wheel deceleration detector and initial high slip. 3,734,572, 5-22-73, Cl. 303-21.0be.
Hickner, George B.; and Hendrickson, Richard T., to Bendix Corporation, The. Regulator for adaptive braking system. 3,746,402, 7-17-73, Cl. 303-21.00f.
Hickner, Richard A.; and Bredeweg, Corwin J., to Dow Chemical Company, The. Allyl acetal derivative of one-halo-3-mercapto-2-propanol. 3,708,543, 1-2-73, Cl. 260-609.00r.
Hickner, Richard A., to Dow Chemical Company, The. Thermoset resins from glycidol and a cyclic anhydride. 3,733,311, 5-15-73, Cl. 260-78.4ep.
Hickner, Richard A.; and Goss, Edward W., to Dow Chemical Company, The. Cyclohexyl thiol-dienes. 3,734,968, 5-22-73, Cl. 260-609.00d.
Hickner, Richard A.; and Bredeweg, Corwin J., to Dow Chemical Company, The. Thioether derivatives of 1-halo-3-mercapto-2-propanol. 3,743,679, 7-3-73, Cl. 260-609.00r.
Hickner, Richard A., to Dow Chemical Company, The. Polyether-polythiols, method of preparation and mixtures of polythioether-polythiols with epoxide resins. 3,759,871, 9-18-73, Cl. 260-47.0ec.
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Hickory, Roy E.; McFadden, Robert N.; and Delfin, Irwin; deceased (by Delin, Juliett P.; administratrix), to Graflex, Inc. Slot-load projector. 3,737,220, 6-5-73, Cl. 352-159.000.
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Hicks, Harold N., Jr., to Ashland Oil, Inc. Apparatus for cracking and recovery of hydrocarbons. 3,737,285, 6-5-73, Cl. 23-277.00r.
Hicks, Harris Vernon. Road vehicle lighting systems. 3,731,141, 5-1-73, Cl. 315-83.000.
Hicks, Harris Vernon, to Lucas, Joseph, (Industries) Limited. Road vehicle lighting systems. 3,743,885, 7-3-73, Cl. 315-82.000.
Hicks, Hjalmar L., to Hicks, Kenneth A. and Kaye, Linda. Telltale hinge mounting for doors. 3,724,025, 4-3-73, Cl. 16-128.000.
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Hicks, James P.; Gramera, Robert E.; and Molotsky, Hyman M., to CPC International Inc. Preparation of acetone glucose. 3,723,412, 3-27-73, Cl. 260-210.00r.
Hicks, John J., to United States of America, Navy. Method and apparatus for measuring the intensity of atmospheric turbulence. 3,715,748, 2-6-73, Cl. 343-5.00w.
Hicks, John M.; and Paice, Derek A., to Westinghouse Electric Corporation. Current limiting device. 3,764,851, 10-9-73, Cl. 317-11.00c.
Hicks, John R.; and Bortzfield, William C., to Docutel Corporation. Credit card automatic currency dispenser. 3,715,569, 2-6-73, Cl. 235-61.11d.
Hicks, John W., Jr., to Bendix Corporation, The. Method of forming composite fiber bundle. 3,779,729, 12-18-73, Cl. 65-4.000.
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Hicks, Leon E.; and Jessen, Henry J., to Caterpillar Tractor Company. System for automatic oscillation of an apron tip. 3,739,505, 6-19-73, Cl. 37-126.0ad.
Hicks, Manuel Grant. Fluorocarbon and oxygen-providing compound treatment of waste waters. 3,781,200, 12-25-73, Cl. 210-21.000.
Hicks, Mervyn Lance, to Turn-Styles Limited, mesne. Animal milking and/or treatment apparatus. 3,709,196, 1-9-73, Cl. 119-14.040.
Hicks, Mervyn Lance, to Turn-Styles Limited, mesne. Animal milking apparatus. 3,738,321, 6-12-73, Cl. 119-14.450.
Hicks, Morris R.; and Le Veque, Joseph C., to Bardons & Oliver, Inc. Programmable fluidic logic controlled machine tool. 3,752,036, 8-14-73, Cl. 90-13.00c.
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Hicks, Tommie Earl; and Amestoy, Lavern John. Disposable liner for coffee filter basket. 3,780,871, 12-25-73, Cl. 210-471.000.
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Hidaka, Hiroyoshi: *See—*
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Hidaka, Hiroyoshi; Matsumoto, Ikuo; and Yoshizawa, Junji, to Banyu Pharmaceutical Co., Ltd. and Hidaka, Hiroyoshi. Certain dithio-carbamate derivatives of 5-hydroxymethyl-picolinic acid. 3,776,913, 12-4-73, Cl. 260-293.690.
Hidaka, Kazutaka, to Tokyo Shibaura Electric Co., Ltd. Wide-band dipole antenna with capacitive reactance added to arms. 3,747,112, 7-17-73, Cl. 343-749.000.
Hidaka, Mikio: *See—*
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Hidding, Walter E.: *See—*
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Hidding, Walter E. Dispensing cover with liftable sifter for use on spice cans and the like. 3,773,232, 11-20-73, Cl. 222-480.000.
Hidding, Walter E. Carrying handle. 3,773,249, 11-20-73, Cl. 229-52.00a.
Hidding, Walter E.; Rocker, Hermann; and Beck, Hugo, said Rocker and Said Beck assors. to said Hidding, Walter E. Handle attaching machine. 3,774,285, 11-27-73, Cl. 29-208.00c.
Hideg, Laszlo; and Bishop, Irving N., to Ford Motor Company. High velocity carburetor idle system. 3,711,069, 1-16-73, Cl. 261-41.00d.
Hider, Shibley A.; Kitaj, Walter; and Martin, Robert E., to Owens-Illinois, Inc. Method for forming a polysiloxane impregnated porous sheet and article thereof. 3,749,591, 7-31-73, Cl. 117-21.000.
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Hieslmair, Hans; Fulton, John N.; and Bickart, Charles J., to United States of America, Army. Multipath laser moving target indicator. 3,732,013, 5-8-73, Cl. 356-28.000.
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Hiestand, James C.; and Thies, Richard O., to Continental Drilling Company. Wall saw. 3,722,497, 3-27-73, Cl. 125-14.000.
Hiestand, James C.; and Thies, Richard O., to Continental Drilling Company. Wall saw assembly. 3,763,845, 10-9-73, Cl. 125-14 000.
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Stout, Thomas M.; Smith, Edward J.; and Hiestand, John H., 3,711,688.
Hiestand, Karl, to SMW-Spanneinrichtungen Schneider & Weisshaupt. Device for feeding pressure fluid from a stationary pressure source into a rotating member. 3,771,803, 11-13-73, Cl. 279-4.000.
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Hietschmann, Erhard, to Siemens Aktiengesellschaft. Circuit arrangement for improving the short circuit resistance of an LSL circuit by automatically limiting circuit power consumption. 3,769,527, 10-30-73, Cl. 307-270.000.
Higaki, Shigeo; Harada, Masatoshi; Yashiro, Tadao; and Ohminato, Hideaki, to Nishin Electric Co., Ltd. Suspension type electric apparatus having a plurality of radially disposed buffer devices. 3,726,986, 4-10-73, Cl. 174-43.000.
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Higashinakagawa, Iwao; Nakagawa, Takashi; Ogawa, Takenobu; Takeno, Syozo; and Yasuda, Nobuaki, to Tokyo Shibaura Electric Co., Ltd. Magnetic thin film memory elements and method of manufacturing the same. 3,744,041, 7-3-73, Cl. 340-174.0bc.
Higashino, Toshimitsu, to Nippondenso Kabushiki Kaisha. Battery charging arrangement. 3,710,228, 1-9-73, Cl. 320-61.000.
Higashiyama, Kenji; and Hirata, Hiroshi, to Matsushita Electric Industrial Co., Ltd. Device for measuring an activity of cadmium ions. 3,741,883, 6-26-73, Cl. 204-195.00m.
Higashiyama, Kenji; and Hirata, Hiroshi, to Matsushita Electric Industrial Co., Ltd. Method for measuring an activity of chromium(III) ions. 3,766,022, 10-16-73, Cl. 204-1.00t.
Higbee, Charles D., to Gates Rubber Company, The. Method of making a high pressure hose of a single layer of untwisted textile reinforced rubber. 3,755,032, 8-28-73, Cl. 156-86.000.
Higbee, John E.: *See*—
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Higbee, Roland K.; and Fleck, David C., to American Hospital Supply Corporation. Caster and swivel lock assembly. 3,751,758, 8-14-73, Cl. 16-35.000.
Higby, Richard F.; and Lauriente, Mike, to Westinghouse Electric Corporation. Infrared dectector device with a mosaic of oppositely-poled adjacent elements. 3,727,057, 4-10-73, Cl. 250-83.30h.
Higdon, Buster Watson: *See*—
Jacobs, Max Le Roy; and Higdon, Buster Watson, 3,759,955.
Higdon, Philip E.: *See*—
Winterbottom, David A.; Wheadon, Ellis G.; and Higdon, Philip E., 3,770,511.
Higeta, Tsukumo: *See*—
Yada, Yutaka; Higeta, Tsukumo; and Mitsui, Shinichi, 3,720,791.
Higgens, Calvin E.: *See*—
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Higginbotham, William H.: *See*—
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Higgins , James H.: *See*—
Schultz, Seiford F.; and Higgins , James H., 3,737,348.
Higgins, Anthony P.: *See*—
Wold, Robert A.; and Higgins, Anthony P., 3,741,422.
Higgins, David M.: *See*—
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Higgins, Edward R.: *See*—
Avellar, Karl B.; Buchanan, James E.; and Higgins, Edward R., 3,720,866.
Higgins, Irwin R., to Small Business Investment Company of New York, mesne. Process for treating fertilizer plant waste streams. 3,775,088, 11-27-73, Cl. 71-1.000.
Higgins, James J.: *See*—
Estes, Timothy K.; De Winter, Frank G. V.; Doss, John L.; and Higgins, James J., 3,708,929.
Higgins, Jerry G.: *See*—
Marvel, Carl S.; Higgins, Jerry G.; and Pense, Rolf, 3,772,309.
Higgins, John: *See*—
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Higgins, Larry: *See*—
Smith, Richard A.; Higgins, Larry; and King, John, 3,725,965.
Higgins, Lawrence D. Building panel with high relief aggregate face. 3,745,052, 7-10-73, Cl. 161-44.000.
Higgins, Leon G. Multi-purpose ladder assembly. 3,768,592, 10-30-73, Cl. 182-22.000.
Higgins, Margaret D.: *See*—
DeNight, George G.; Farber, James F.; Glodek, John J.; and Higgins, Margaret D., 3,769,978.
Higgins, Peter, to British Insulated Callender's Cables Limited. Distribution cable with coaxial connections permanently connected thereto and a method of manufacture thereof. 3,778,531, 12-11-73, Cl. 174-72.00r.
Higgins, Robert B.: *See*—
McKibben, James W.; Goodman, Brian L.; and Higgins, Robert B., 3,770,624.
Higgins, Robert P.: *See*—
Yates, Patrick A.; and Higgins, Robert P., 3,717,794.
Higgins, Roger K.; and Sheets, Andrew T., to United States of America, Navy. Synchro-to-digital conversion method and apparatus. 3,713,141, 1-23-73, Cl. 340-347.0sy.
Higgins, Wilja M. Decorative animal collar attachment. 3,765,376, 10-16-73, Cl. 119-106.000.
Higgins, Will L. Lock for bottle-containing cases. 3,752,310, 8-14-73, Cl. 206-65.00e.
Higgins, William E.: *See*—
Samrok, Fred E.; and Higgins, William E., 3,721,819.
Higgs, Roland W.: *See*—
D'Amico, Paul M.; and Higgs, Roland W., 3,756,345.
Higgs, Roland W., to Honeywell Inc. Acoustic decoupler. 3,722,619, 3-27-73, Cl. 181-33.00g.
Higgs, Roland W., to Honeywell Inc. Composite acoustic decoupler. 3,737,004, 6-5-73, Cl. 181-.50a.
High Energy Processing Corporation: *See*—
Wetherell, Thomas J., 3,709,738.
High, Gerald Stanfield, to Sherwin-Williams Company, The. Composition and method of coating oily surfaces with water reducible paint. 3,761,433, 9-25-73, Cl. 260-22.00a.
High Performance Products, Inc.: *See*—
Lettman, Klaus T., 3,769,645.
High, Robert L.: *See*—
Rogols, Saul; High, Robert L.; and Staley, A. E., 3,753,857.
High Voltage Engineering Corporation: *See*—
Charpentier, Robert R., 3,757,152.
Cram, Robert Dana, 3,769,132.
High Voltage Power Corporation: *See*—
Christofferson, James, 3,730,965.
Johnson, Byron L., 3,731,244.
Highberg, Carle W.: *See*—
Teeter, Ford C.; Sheldahl, David B.; and Highberg, Carle W., 3,715,312.
Highfield, Peter Edward; and Hill, Gordon John, to British Visqueen Limited. Plastics web slitting and sealing device. 3,741,850, 6-26-73, Cl. 156-515.000.
Highland Laboratories: *See*—
Wlodyka, Edwin W., 3,708,971.
Highley, Thomas T., Jr.; and Paschkis, Albert E., to Leeds & Northrup Company. Recorder chart drive. 3,710,342, 1-9-73, Cl. 346-136.000.
Hightower, Clement G. Coil winding machine. 3,767,128, 10-23-73, Cl. 242-7.05b.
Hightower, Cooper. Golf practice device. 3,744,799, 7-10-73, Cl. 273-183.00r.



Hightower, John D.; Conboy, Martin E.; and Phillips, Lawrence, to United States of America, Navy. Transporter for stretcher borne animals. 3,734,058, 5-22-73, Cl. 119-3.000.
Highway Trailers of Canada Limited: *See*—
Fehlau, Bert H.; and Domerchie, Garrit A., 3,709,542.
Higo, Kyoichi: *See*—
Irikura, Tsutomu; Abe, Yasuo; Okamura, Kyuya; Higo, Kyoichi; Maeda, Akitoshi; and Morinaca, Fumihiko, 3,759,911.
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Higo, Yatuhiro: *See*—
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Higochi, Hideo, to Nippondenso Co., Ltd. Magnetic clutch. 3,774,739, 11-27-73, Cl. 192-84.00c.
Higson, Harold G.: *See*—
Delta, Vladimir Hach; and Higson, Harold G., 3,708,521.
Higuchi, Hisayuki: *See*—
Mori, Takaaki; Higuchi, Hisayuki; and Uehara, Keijiro, 3,759,761.
Higuchi, Hobart Atsushi; and Trubell, Lawrence Paul, to International Business Machines Corporation. Transistor switch using a current sharing pulse transformer. 3,778,639, 12-11-73, Cl. 307-254.000.
Higuchi, Katumi: *See*—
Hakata, Hiroshi; Higuchi, Katumi; and Kozeni, Masao, 3,774,593.
Higuchi, Masaru, to West Electric Co., Ltd. Electronic flash device for photography. 3,738,239, 6-12-73, Cl. 95-11.00r.
Higuchi, Nori, to Davis Aircraft Products Company, Inc. Safety buckle. 3,760,464, 9-25-73, Cl. 24-77.00r.
Higuchi, Nori. Safety buckle. 3,775,813, 12-4-73, Cl. 24-230.00a.
Higuchi, Ryoichi: *See*—
Watanabe, Toshio; Higuchi, Ryoichi; Yamato, Akihiro; and Sakai, Kazuo, 3,743,657.
Higuchi, Shizuo; and Hagino, Michiyoshi, to Honda Giken Kogyo Kabushiki Kaisha. Drain apparatus for the body of a car. 3,711,147, 1-16-73, Cl. 296-28.00r.
Higuchi, Takeru; and Leeper, Harold M., to Alza Corporation. Drug-delivery device with stretched, rate-controlling membrane. 3,710,795, 1-16-73, Cl. 128-260.000.
Higuchi, Takeru, to ALZA Corporation. Process for storing blood platelets. 3,729,947, 5-1-73, Cl. 62-60.000.
Higuchi, Takeru; and Leeper, Harold M., to Alza Corporation. Osmotic dispenser. 3,732,865, 5-15-73, Cl. 128-260.000.
Higuchi, Takeru; and Leeper, Harold M., to Alza Corporation. Osmotic dispenser employing magnesium sulphate and magnesium chloride. 3,760,804, 9-25-73, Cl. 128-260.000.
Higuchi, Takeru, to Alza Corporation. Osmotic dispenser with collapsible supply container. 3,760,805, 9-25-73, Cl. 128-260.000.
Higuchi, Takeru; and Hussain, Anwar, to Interx Corporation. Compositions of salts of salicylamide. 3,764,668, 10-9-73, Cl. 424-44.000.
Higuchi, Yasuo, to Kabushiki Kaisha Chukyo Gijutsu Center. Rotary actuator. 3,750,535, 8-7-73, Cl. 92-121.000.
Higuera, Richard L.: *See*—
Davis, Edward J.; Cordle, Paul E.; McCubbin, Melvin J.; Lockwood, Donald W.; and Higuera, Richard L., 3,717,098.
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Hiiragi, Mineharu: *See*—
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Hijikata, Hiroshi, to Shizuoka Match Co., Ltd. Chemical composition for combustible tip used for friction matches and method for manufacturing same. 3,775,198, 11-27-73, Cl. 149-18.000.
Hijita, Hiromi; and Hirao, Mamoru, to Hayashibara, Ken. Shaped body of gelatin containing amylose and/or amylitol. 3,765,917, 10-16-73, Cl. 106-126.000.
Hijiya, Hiromi; and Yoshida, Mikihiko, to Hayashibara Company. Process for the production of amylose films. 3,734,760, 5-22-73, Cl. 106-210.000.
Hijos de Juan de Garay, S.A.: *See*—
Garay, Fernando Creixell, 3,779,260.
Hikida, Ryotaro; and Ogasawara, Takeo, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Disc brake anti squeal means. 3,720,293, 3-13-73, Cl. 188-73.500.
Hikido, Tsutomu; and Moyer, Craig R., to United States of America, Atomic Energy Commission. Flow control of filler alloy. 3,750,266, 8-7-73, Cl. 29-490.000.
Hikino, Tadashi: *See*—
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Hikita, Yoshihiko: *See*—
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Hiklert, Thomas L.; Fransson, Goran E.; and Trenbeath, Richard E., to Barber-Colman Company. Hob shifter. 3,748,962, 7-31-73, Cl. 90-4.000.
Hikosaka, Mitsuo. Digital phase detector. 3,766,545, 10-16-73, Cl. 340-347.0sy.
Hikota, Toyohiko: *See*—
Okamoto, Miyoshi; Hikota, Toyohiko; and Shimizu, Kitao, 3,774,273.
Hiland, John R.: *See*—
Welton, Donald E.; and Hiland, John R., 3,740,946.
Hilbelink, Ronald D.; and Peters, Gavin H., to National Cash Register Company, The. Intercrossing resin-curing agent adhesive systems. 3,725,501, 4-3-73, Cl. 260-824.00r.
Hilbenbrandt, Leon H., to International Business Machines Corporation. Illumination system for copier machines arranged to minimize glare with respect to an operator. 3,758,774, 9-11-73, Cl. 240-103.00r.
Hilberg, Wolfgang, to Licentia Patent-Verwaltungs-G.m.b.H. Data storage system with means for eliminating defective storage locations. 3,772,652, 11-13-73, Cl. 340-172.500.
Hilbert, Francis H.: *See*—
Cecchin, Gildo; and Hilbert, Francis H., 3,733,562.
Cecchin, Gildo; and Hilbert, Francis H., 3,781,701.
Hilbert, Francis H., to Motorola, Inc. Frequency multiplying circuit utilizing time gates and switching signals of differing phases. 3,721,766, 3-20-73, Cl. 179-15.0bt.
Hilbert, Francis H.; and Seymour, Arthur F., to Motorola, Inc. Transistorized electronic circuit employing resistorless bias network. 3,743,863, 7-3-73, Cl. 307-296.000.
Hilbert, Francis H., to Motorola, Inc. Variably biased audio amplifier. 3,753,121, 8-14-73, Cl. 325-319.000.
Hilbert, Francis H., to Motorola, Inc. Gain modified multi-channel audio system. 3,772,479, 11-13-73, Cl. 179-1.0gg.
Hild, Willi; Zahradnik, Franz; Zahn, Erwin; and Priebe, Edmund, to Badische Anilin- & Soda-Fabrik Akticngesellschaft. Flame-proof glass-fiber-reinforced polyamide containing phosphorus. 3,778,407, 12-11-73, Cl. 260-37.00n.
Hildebrand, Bernard P.: *See*—
Haines, Kenneth A.; and Hildebrand, Bernard P., 3,715,482.
Hildebrand, Bernard P., to Battelle Development Corporation, The. Scanned holography with a rotating extended source. 3,760,344, 9-18-73, Cl. 340-5.00h.
Hildebrand, Dietrich: *See*—
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Hildebrand, Dietrich; and Kirschneck, Helmut, to Bayer Aktiengesellschaft. Process for the dyeing and printing of textile materials. 3,764,262, 10-9-73, Cl. 8-84.000.
Hildebrand, George L., to General Electric Company. Gyroscope with universally mounted rotor. 3,748,912, 7-31-73, Cl. 74-5.000.
Hildebrand, Hans Gunter, to Aesculap Werke Aktiengesellschaft vormals Jetter & Scheerer. Forceps, pliers or the like and method of producing the same. 3,763,726, 10-9-73, Cl. 81-416.000.
Hildebrand, Helmut: *See*—
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Hildebrand, James Ross: *See*—
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Hildebrand, Klaus, to Wild Heerbrugg Aktiengesellschaft. Electro-optical distance measuring instrument. 3,759,616, 9-18-73, Cl. 356-5.000.
Hildebrand, Kurt. Releasable ski binding. 3,709,509, 1-9-73, Cl. 280-11.35t.
Hildebrand, Otto G. Quickly adjustable vise jaw with tool couple elements. 3,759,504, 9-18-73, Cl. 269-87.000.
Hildebrand, Robert Peter: *See*—
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Hildebrand, Willi: *See*—
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Hildebrand, William Gene, to Dana Corporation. Lock strap mounting adjustment for clutch adjusting ring. 3,754,628, 8-28-73, Cl. 192-111.00b.
Hildebrandt, Guillermo J.; Maugel, Theodore R.; Morgan, Albert R.; and Stern, Boris A., to Celotex Corporation, The. Weather-stabilized asbestos roofing felt. 3,729,373, 4-24-73, Cl. 162-123.000.
Hildebrandt, Norbert: *See*—
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Hildebrandt, Peter: *See*—
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Hildebrandt, Robert A.: *See*—
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Hildebrandt, Ullrich, to Linde Aktiengesellschaft. Low-temperature conductor arrangement. 3,781,455, 12-25-73, Cl. 174-15.00c.
Hildebrant, Floyd J.: *See*—
Chovanec, John J.; and Hildebrant, Floyd J., 3,760,262.

Hilden, Richard H., to Dicomed Corporated. Image display system. 3,720,859, 313-73, Cl. 315-23.000.

Hildenbrand, Jerry L.; and Wagenaar, Loren B., to Westinghouse Electric Corporation. Electrical bushing assembly having resilient means enclosed within sealing means. 3,760,089, 9-18-73, Cl. 174-12.0bh.

Hildenbrand, Walter W.; Levine, Wilbur J.; Manning, Stanley A.; and Stroms, Karl F., to International Business Machines Corporation. Ink distribution for non-impact printing recorder. 3,708,798, 1-2-73, Cl. 346-140.000.

Hildenbrandt, August J., Jr.: *See—*
Breunich, Theodore R.; and Hildenbrandt, August J., Jr., 3,722,534.

Hilditch, David Henry, to Associated Electrical Industries, Limited. Electron microscopes. 3,746,855, 7-17-73, Cl. 250-49.50a.

Hile, John W., to General Motors Corporation. Catalytic converter monitor. 3,766,536, 10-16-73, Cl. 340-229.000.

Hileman, Dale. Vehicle navigation system. 3,749,893, 7-31-73, Cl. 235-150.270.

Hileman, Ronald E.; and Campbell, James T., to United States of America, Air Force. Birefringent optical correlator. 3,714,404, 1-30-73, Cl. 235-181.000.

Hilfing, Karl Erik, to Atlas Copco Aktiebolag. Subsea drilling assembly. 3,741,320, 6-26-73, Cl. 175-6.000.

Hilgenbrink, John T., to Continental Can Company, Inc. Method of forming necked-in bodies. 3,763,807, 10-9-73, Cl. 113-120.00r.

Hilger, Anthony G.: *See—*
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Hilger, Edwin T.; and Miller, James S., to Logan Co. Shuttle car mechanism for transferring loads between two stations. 3,746,148, 7-17-73, Cl. 198-219.000.

Hilger, Ronald O., to Associated Mills, Inc. Massager. 3,710,785, 1-16-73, Cl. 128-36.000.

Hilgers, Howard M., to Production Technology Inc. Chuck with individual jaw compensation. 3,759,535, 9-18-73, Cl. 279-1.00j.

Hilgert, William: *See—*
MacVey, Gary Leo; and Hilgert, William, 3,763,887.

Hilicki, Edwin J.; and Schroeder, Harry J., to Modine Manufacturing Company. Heat exchanger. 3,732,921, 5-15-73, Cl. 165-154.000.

Hilker, George D.: *See—*
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Hill Acme Company, The: *See—*
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Hill, Alan E. Aerodynamic large volume gaseous electric discharge system. 3,735,284, 5-22-73, Cl. 331-94.500.

Hill, Alan Harvey, to General Engineering Company (Radcliffe) Limited and British Insulated Callender's Cables Limited. Cooling of plastic extrusions of small cross-sectional area. 3,729,539, 4-24-73, Cl. 264-89.000.

Hill, Alan M.: *See—*
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Ware, Franklyn O.; and Hill, Alan M., 3,775,145.

Hill, Albert Charles, to Girling Limited. Vehicle brake actuator and lock assembly. 3,770,084, 11-6-73, Cl. 188-265.000.

Hill, Allen D.; Larsson, Ake L.; and Rich, Hubert A., to Mattel, Inc. Pop-up learning toy. 3,768,175, 10-30-73, Cl. 35-9.00r.

Hill, Arnold M., to Whitbread & Company, Limited. Methods of and apparatus for dispensing potable liquids. 3,768,706, 10-30-73, Cl. 222-325.000.

Hill, Brian, to International Nickel Company, Inc., The. Nickel-cobalt aluminate pigments. 3,748,165, 7-24-73, Cl. 106-300.000.

Hill, Brian K.: *See—*
Huffman, William A.; Lowrey, Dean R.; Hill, Brian K.; and Bush, Jacquelyn D., 3,767,414.

Hill, Charles C.: *See—*
Anderson, George Fred; and Hill, Charles C., 3,763,761.

Hill, Charles C., to Power Technology Corporation. Free power gas turbine engine with aerodynamic torque converter drive. 3,731,483, 5-8-73, Cl. 60-39.16r.

Hill, Charles C., to Power Technology Corporation. Rankine cycle power plant with compressible fluid torque converter. 3,753,347, 8-21-73, Cl. 60-105.000.

Hill, Charles O.; and Pence, Elbert A., to United States of America, Navy. Passive sonar array mounting and recovery apparatus. 3,742,540, 7-3-73, Cl. 9-400.000.

Hill, Charles W., to United States of America, Navy, mesne. Inverse logarithmic function generator. 3,728,636, 4-17-73, Cl. 328-145.000.

Hill, Charles W., to Westinghouse Electric Corporation. Phase lock loop for a voltage controlled oscillator. 3,775,695, 11-27-73, Cl. 331-4.000.

Hill, Christopher Rowland; and McCready, Victor Ralph. Ultrasonic scanning apparatus. 3,752,255, 8-14-73, Cl. 181-.5np.

Hill, Clifford W. Syringe assembly. 3,742,949, 7-3-73, Cl. 128-218.0pa.

Hill, David W.: *See—*
Neta, Thomas E.; Hill, David W.; and Wiesenborn, Robert F., 3,769,358.

Hill, Donald G.; Smith, Charles F.; and Kucere, Clare H., to Dow Chemical Company, The. Displacement of drilling fluids from boreholes. 3,749,173, 7-31-73, Cl. 166-291.000.

Hill, Edwin T.; and Quick, John Harvey, to Plessey Handel und Investments A.G. Apparatus responsive to radiation attenuation of an atmosphere. 3,745,350, 7-10-73, Cl. 250-218.000.

Hill, Emmons F.; deceased (by Hill, Frank M.; administrator). Rotary furrowing tool. 3,710,871, 1-16-73, Cl. 172-122.000.

Hill, Eric John: *See—*
Young, Gideon Maurice; Silman, Harold; and Hill, Eric John, 3,715,838.

Hill, Ernest W.; Humphrey, Melvin R.; Maier, Dale E.; and Pope, James H., to Teledyne, Inc. Method for bending tubes. 3,756,053, 9-4-73, Cl. 72-46.000.

Hill, Eugene R., to United States of America, Navy. High frequency field effect transistor switch. 3,731,116, 5-1-73, Cl. 307-251.000.

Hill, Eugene R., to United States of America, Navy. Sample-and-mold circuit. 3,753,132, 8-14-73, Cl. 328-151.000.

Hill, Eugene R., to United States of America, Navy. Multipath simulator for modulated R.F. carrier signals. 3,761,825, 9-25-73, Cl. 328-71.000.

Hill, Ewing K.: *See—*
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Hill, Ezra C.: *See—*
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Hill Fastener Corporation: *See—*
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Hill, Frank E.: *See—*
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Hill, Frank M.: *See—*
Hill, Emmons F., 3,710,871.

Hill, Frank W., to Gulf & Western Industries, Inc. Method and apparatus for controlling traffic flow in accordance with traffic presence. 3,710,312, 1-9-73, Cl. 340-31.00r.

Hill, Frank W.; and Fieser, Garland E., to Gulf & Western Industries, Inc. Low-level logic protection interface. 3,737,672, 6-5-73, Cl. 307-202.000.

Hill, Franklin J., to Parker Pen Company, The. Process for preparing cemented ferrochrome. 3,708,283, 1-2-73, Cl. 75-200.000.

Hill, Franklin J., to Parker Pen Company, The, mesne. Ball point pen writing ball composed of a cemented carbide composition. 3,746,456, 7-17-73, Cl. 401-215.000.

Hill, Franz: *See—*
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Hill, Fred A.: *See—*
Hill, Harold A.; and Hill, Fred A., 3,777,715.

Hill, Fred D.; Hill, Fred J.; and Hill, Stanley L., 15% each to Gray, R. A., Jr. and Montague, Frank D., Jr. Mathematical demonstration device. 3,733,718, 5-22-73, Cl. 35-34.000.

Hill, Fred J.: *See—*
Hill, Fred D.; Hill, Fred J.; and Hill, Stanley L., 3,733,718.

Hill, Geoffrey Douglas: *See—*
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Hill, George B. Adjustable plate saddle with ground edges. 3,771,449, 11-13-73, Cl. 101-415.100.

Hill, George Edward; and Tomlin, Bruce Warren, to Singer Company, The. Monitor pressure regulator assembly. 3,722,536, 3-27-73, Cl. 137-505.460.

Hill, George R.: *See—*
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Hill, George S.: *See—*
Livingston, James M., 3,750,756.

Hill, Gordon John: *See—*
Highfield, Peter Edward; and Hill, Gordon John, 3,741,850.

Hill, Harold A.; and Hill, Fred A. Headholding assembly. 3,777,715, 12-11-73, Cl. 119-99.000.

Hill, Harold J.; and Thigpen, David Ross, to Shell Oil Company. Oil recovery process using an emulsion modifier-containing dilute aqueous surfactant system. 3,712,377, 1-23-73, Cl. 166-252.000.

Hill, Harold J.; and Thigpen, David Ross, to Shell Oil Company. Waterflood oil recovery with chromatographically balanced surfactant. 3,768,560, 10-30-73, Cl. 166-274.000.

Hill, Harold Taylor; and Caton, Ronald Morris, to Wellworthy Limited. Pistons. 3,721,163, 3-20-73, Cl. 92-158.000.

Hill, Harold Taylor; and Fletcher-Jones, David Francis, to Wellworthy Limited. Pistons for internal combustion engines, or for compressors. 3,745,889, 7-17-73, Cl. 92-187.000.

Hill, Harold Wayne, Jr.; and Edmonds, James T., Jr., to Phillips Petroleum Company. Arylene sulfide polymer coating composition. 3,728,313, 4-17-73, Cl. 260-79.000.

Hill, Hayden C. Liquid control and dispensing. 3,757,814, 9-11-73, Cl. 137-268.000.

Hill, Herbert Hoover. Water control trigger. 3,755,636, 8-28-73, Cl. 200-61.050.

Hill, Herbert N., Jr., to Union Carbide Corporation. Analytical process. 3,759,666, 9-18-73, Cl. 23-230.00b.

Hill, Homer E., 1/2 to Morgan, Marvin R. Method and apparatus for rebuilding television picture tubes. 3,746,419, 7-17-73, Cl. 316-2.000.

Hill, Horace E.: *See—*





Caley, Lloyd E.; Hill, Horace E.; and Phillips, Joseph L., 3,779,664.

Hill, Howard H.: *See—*
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Hill, William Frank. Control circuits for vehicle window lift mechanism. 3,733,532, 5-15-73, Cl. 318-266.000.

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Hirao, Yotaro: *See—*
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Hiraoka, Hiroyuki, to International Business Machines Corporation. Preparation of cyclobutanones from glutaric anhydrides. 3,748,242, 7-24-73, Cl. 204-158.00r.

Hiraoka, Michito; and Hikita, Yoshihiko, to Hitachi Metals Ltd. Magnet vehicle. 3,777,834, 12-11-73, Cl. 180-9.440.

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Hirata, Akira; Kobayashi, Akio; Sakamoto, Eiichi; and Saito, Shizuo. Light-sensitive photographic material having exceptionally high resolving power. 3,736,145, 5-29-73, Cl. 96-140.000.

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Hirata, Hiroshi; and Toyoda, Hiroshi, to Asahi Giken Kabushiki Kaisha. Method for driving piles and like elements into the ground. 3,722,600, 3-27-73, Cl. 173-1.000.

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Hirata, Hiroshi. Under-sea oil storage installation. 3,753,494, 8-21-73, Cl. 210-170.000.

Hirata, Hiroshi, to Minolta Camera Co., Ltd. Overlap photographing device in a cinecamera. 3,761,166, 9225-73, Cl. 352-91.00r.

Hirata, Hiroshi. Floating oil storage installation. 3,779,193 12-18-73, Cl. 114-.50t.

Hirata, Masao; Tarumi, Noriyoshi; and Sato, Masayuki, to Konishiroku Photo Industry Co., Ltd. Process for producing photoconductive materials. 3,743,609, 7-3-73, Cl. 252-501.000.

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Hirata, Yoshihiro, to Nihon Denshi Kabushiki Kaisha. Electron beam device. 3,749,964, 7-31-73, Cl. 315-18.000.

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Hiratsuka, Nobuo; Oshihozawa, Akiyasu; and Iwamoto, Tokuji, to Fuji Photo Film Co., Ltd. Mat film for writing. 3,746,566, 7-17-73, Cl. 117-72.000.

Hiratsuka, Nobuo; and Horiguchi, Masaru, to Fuji Photo Film Co., Ltd. Process for preparing a porous nylon film. 3,746,668, 7-17-73, Cl. 260-2.50m.

Hiratsuka, Toshio; and Shimada, Toshio, to Nippon Carbon Co., Ltd. Graphite fluoride-synthetic resin composite material. 3,717,576, 2-20-73, Cl. 252-12.000.

Hirayama, Chikara; and Maniero, Daniel A., to Westinghouse Electric Corporation. Process for producing pyrolytic graphite carbon and graphite. 3,720,499, 3-13-73, Cl. 423-448.000.

Hirayama, Kazuhiro, to Iwatsu Electric Co., Ltd. Circuit for controlling an intensity of a scanning in an electromagnetic deflection type cathode ray tube. 3,714,502, 1-30-73, Cl. 315-30.000.

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Hire, Charles John, to Fasco Industries, Inc. Thermostat and method of making same. 3,747,039, 7-17-73, Cl. 337-380.000.

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Hireha, Michael A., to Bunker Ramo Corporation. Microwave sampling device. 3,768,025, 10-23-73, Cl. 328-151.000.

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Hirn, Helmut; and Bott, Wolfgang, to RILCO Maschinenfabrik GmbH & Co. KG. Ball valve. 3,774,640, 11-27-73, Cl. 137-625.480.

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Hirota, Eiichi: *See—*
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Hirota, Nobuyoshi; and Matsushita, Tsutomu, to Mitsubishi Jukogyo Kabushiki Kaisha. Peeling type pickling compositions. 3,728,267, 4-17-73, Cl. 252-142.000.

Hirota, Nobuyoshi, to Mitsubishi Jukogyo Kabushiki Kaisha. Solid acid containing peeling type picking composition. 3,729,423, 4-24-73, Cl. 252-142.000.

Hirota, Nobuyoshi. Method and agent for preventing coating films from peeling. 3,754,974, 8-28-73, Cl. 117-75.000.

Hirs, Gene, to Hydromation Filter Company. Method of operating a filter bed of fine granular media. 3,731,803, 5-8-73, Cl. 210-80.000.

Hirs, Gene, to Hydromation Filter Company. Method of filtering. 3,737,039, 6-5-73, Cl. 210-80.000.

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Hirs, Gilles Gerardus, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzock ten behoeve van Nijverheid, Handel en Verkeer. Acrodynamic or hydrodynamic element, such as a wing or a blade. 3,734,641, 5-22-73, Cl. 416-4.000.

Hirs, Gilles Gerardus, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzock ten behoeve van Nijverheid, Handel en Verkeer. Method and a device for determining the temperature at viscosity measurements. 3,744,315, 7-10-73, Cl. 73-344.00.

Hirsch, Abraham Adler. Sampler-culture apparatus for the detection of coliform bacteria in potable waters. 3,708,400, 1-2-73, Cl. 195-127.000.

Hirsch, Abraham Adler. Upflow distributive trays for fractionating columns and absorption towers. 3,712,595, 1-23-73, Cl. 261-114.00r.

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Hirsch, Donald; and Spaulding, David Adams, to Bell Telephone Laboratories, Incorporated. Adaptive DC restoration in single-sideband data systems. 3,715,670, 2-6-73, Cl. 325-331.000.
Hirsch, Jean-Jacques; Mayeur, Eugene; and Mayeur, Jacky, to Societe en Commandite par actions dite: Adolphe et Andre, Caen. Slay operating mechanism for a loom. 3,752,196, 8-14-73, Cl. 139-179.000.
Hirsch, Joseph. Energy absorption apparatus. 3,721,320, 3-20-73, Cl. 188-1.00c.
Hirsch, Joseph, to United States of America, Navy. Swimmers tactile command navigation apparatus. 3,736,551, 5-29-73, Cl. 340-5.00r.
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Hirsch, Richard; and Tomezsko, Joseph F., to Paramount Precision Products, Inc. Fluid pressure motor with extensible and retractable part. 3,735,854, 5-29-73, Cl. 198-24.000.
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Hirschfeld, Tomas, to Block Engineering Inc. Electro-optical spectrometer. 3,728,029, 4-17-73, Cl. 356-83.000.
Hirschfeld, Tomas, to Black Engineering, Inc. Apparatus for forming microelements. 3,734,769, 5-22-73, Cl. 117-212.000.
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Hirschfelder, Horst-Dieter, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Wire-looping apparatus. 3,780,963, 12-25-73, Cl. 242-82.000.
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Hochman, Arthur. Display device apertured for holding support hooks. 3,739,919, 6-19-73, Cl. 211-57.000.
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Hochstatter, Theo, to Sealy, Inc. Box spring press. 3,738,259, 6-12-73, Cl. 100-295.000.
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Hockler, Norman Nathan, to North Electric Company. Reporting and security system. 3,757,089, 9-4-73, Cl. 235-61.70b.
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Hodan, Joseph E., III. Board game apparatus. 3,759,522, 9-18-73, Cl. 273-135.0aa.
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Hoday, Steven F.; and Bolante, Jay J., to Appleton, Arthur I. Fish feeder. 3,738,328, 6-12-73, Cl. 119-51.130.
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Hodge, Abram L.; and Fedock, Michael P., to Republic Steel Corporation. Treatment of iron-containing particles. 3,721,548, 3-20-73, Cl. 75-25.000.
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Hodges, Marvin P., to Ranging, Inc. Gun sighting and ranging mechanism. 3,749,494, 7-31-73, Cl. 356-16.000.
Hodges, Ralph R., to Empire Stove Company. Fastener for securing sheet material. 3,774,009, 11-20-73, Cl. 219-98.000.
Hodges, Robert James, to International Standard Electric Corporation. Magnetic power handling arrangement. 3,777,707, 12-11-73, Cl. 118-637.000.
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Hodgkins, David H., to Stanadyne, Inc. Apparatus for making a liquid filter cartridge. 3,753,544, 8-21-73, Cl. 249-141.000.
Hodgkinson, Joseph B.; and Morey, Roger John, to Pilkington Brothers Limited. Stacking of sheets. 3,713,650, 1-30-73, Cl. 271-87.000.
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Hodson, Stuart Arthur; and Marshall, John, to National Research Development Corporation. Microtome knife mount. 3,732,768, 5-15-73, Cl. 83-171.000.
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Hoeg, Donald F.; Legg, Leo V.; and Tijunelis, Donatas, to Borg-Warner Corporation. Electrical cable. 3,710,007, 1-9-73, Cl. 174-120.0ar.
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Hoehn, Hans; and Schulze, Ernst, to Squibb, E. R., & Sons, Inc. 1-N-Lower alkylpiperidyl-1H-pyrazolo [3,4-] pyridines and pyridinols. 3,755,331, 8-28-73, Cl. 260-293.600.
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Hoell, John, to Foster Transformer Company. Method of making electrical transformer means. 3,722,082, 3-27-73, Cl. 29-605.000.
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Hoelscher, William R., to United States Elevator Corporation. Elevator floor leveling system. 3,749,203, 7-31-73, Cl. 187-29.00r.
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Hoener, Ralph H., Jr. Window wall washing device for high-rise buildings. 3,775,804, 12-4-73, Cl. 15-302.000.
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Hoey, Charles Edwin, to Rohm & Haas Company. Method of making non-woven pile fabric. 3,723,213, 3-27-73, Cl. 156-72.000.
Hoey, Fred A., to Bruno, C., & Son, Inc. Percussion instrument. 3,779,126, 12-18-73, Cl. 84-418.000.
Hof, Bruno, to Hatebur, F. B., AG. Device for manufacturing a pair of annular members from a preformed blank. 3,736,827, 6-5-73, Cl. 83-126.000.
Hof, Rainer, to Arn Jung Lockomotivfabrik GmbH. Machine tool. 3,710,660, 1-16-73, Cl. 82-2.00d.
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Hofer, Wolfgang; Hammann, Ingeborg; Homeyer, Bernhard; and Stendel, Wilhelm, to Bayer Aktiengesellschaft. O-phenyl-N-alkoxy-(thiono) phosphoric (phosphonic) acid ester amides. 3,773,861, 11-20-73, Cl. 260-949.000.
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Hoff, Dale R.; and Fisher, Michael H., to Merck & Co., Inc. Substituted benzimidazoles as anthelmintic agents. 3,743,738, 7-3-73, Cl. 424i270.000.
Hoff, Donald G., to Dietzgen Electronics, Inc. Measurement transducer calculator interface. 3,777,126, 12-4-73, Cl. 235-151.300.
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Hoffer, Paul B., to United States of America, Atomic Energy Commission. Radiation camera motion correction system. 3,780,290, 12-18-73, Cl. 250-303.000.
Hoffert, Franklin D., to Hydrocarbon Research Inc. Process for the controlled reduction of iron ores in a helical heating zone. 3,761,244, 9-25-73, Cl. 75-26.000.
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Hoffman, Dale M., to Harris-Intertype Corporation, mesne. False null detection in automatic tracking systems. 3,772,695, 11-13-73, Cl. 343-7.00a.
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Hoffman, Frank A.; Buchanan, Melvin L.; Dunbar, Carl J.; and Sauey, Lawrence K., to Arvin Industries, Inc. Panel and method of making it. 3,755,031, 8-28-73, Cl. 156-79.000.
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Hoffman, George E.; and Tench, John D., to Sun Oil Company of Pennsylvania. Dip coating apparatus including fluid doctor means. 3,719,164, 3-6-73, Cl. 118-6.000.
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Hoffman, Joseph K.; and Russell, James P., to Air Products and Chemicals, Inc., mesne. Telomers of vinyl esters and acetronitrile. 3,711,531, 1-16-73, Cl. 260-465.400.
Hoffman, Joseph K., to Air Reduction Company, Incorporated. Vinyl chloride-propylene copolymer grafted with butadiene, α-methacrylonitrile and optionally styrene. 3,715,413, 2-6-73, Cl. 260-878.00r.
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Hoffman, Lionel B., to Pitney Bowes-Sage, Inc. Optical monitoring chamber unit for toner density controls. 3,722,559, 3-27-73, Cl. 141-98.000.
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Hoffmann, Hellmut; Behrenz, Wolfgang; and Hammann, Ingeborg, to Farbenfabriken Bayer Aktiengesellschaft. Insecticidally active lower alkyl-substituted 2-chloro-2-thiono-1,3,2-dioxaphosphorinane. 3,740,427, 6-19-73, Cl. 424-209.000.
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Hoffmann, Marcel E., to Societe Anonyme des Etablissements Adrien de Backer. Resonant type current regulator providing a continuous regulation. 3,778,699, 12-11-73, Cl. 323-6.000.
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Hogue, Noel E.; and Dennison, Charles M., to Collins Radio Company. Frequency comparison indicating apparatus. 3,755,746, 8-28-73, Cl. 328-133.000.
Hogue, Ralph L. Fold up retrievable anchor. 3,766,878, 10-23-73, Cl. 114-208.00r.
Hoh, George L. K.; and Tuites, Donald E., to Du Pont de Nemours, E. I., and Company. Ethylene/vinyl ester/carboxylic acid copolymers. 3,723,397, 3-27-73, Cl. 260-80.800.
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Hohchreiter, Josef, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Method and means for controlling the distance between two moving conveyances. 3,764,985, 10-9-73, Cl. 340-171.00r.
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Hohenberg, Rudolph, to Avco Corporation. Measurement of gas temperature variations in a gas turbine engine. 3,719,071, 3-6-73, Cl. 73-341.000.
Hohenberg, Rudolph, to Avco Corporation. Fan engine thrust monitor. 3,736,796, 6-5-73, Cl. 73-178.00t.
Hohenberg, Rudolph, to Avco Corporation. Pneumatic shaft speed sensor. 3,754,471, 8-28-73, Cl. 73-506.000.
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Hohlein, Herman, to Volkswagenwerk Aktiengesellschaft. Valve unit for controlling double acting fluid operating cylinders. 3,779,136, 12-18-73, Cl. 91-361.000.
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Hohler, Albert, to U.S. Philips Corporation. Arrangement for supervising circuits. 3,755,688, 8-28-73, Cl. 307-117.000.



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Hohne, John C., Jr.; and Johnson, Carl J., to TRW Inc. Dual motor for cassette drive. 3,717,780, 2-20-73, Cl. 310-112.000.
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Hohwiller, Frieder; Koehling, Klaus; Schneider, Walter; and Koenig, Dietrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Pavement and railroad bed construction with light concrete sublayer. 3,732,791, 5-15-73, Cl. 404-31.000.
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Hoke, Donald Irvin, to Lubrizol Corporation, The. Polymers of N-3-hydroxyalkyl acrylamides and method of preparation. 3,729,456, 4-24-73, Cl. 260-85.700.
Hoke, Donald Irvin, to Lubrizol Corporation, The. Quaternized N-aminoalkyl acrylamide polymers in flocculation of suspended solids from water. 3,761,407, 9-25-73, Cl. 210-54.000.
Hoke, Gilbert J., to Dunlop Tire and Rubber Corporation. Tire tread. 3,727,661, 4-17-73, Cl. 152-209.000.
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Holland, Joan. Umbrella with heat generating means. 3,739,792, 6-19-73, Cl. 135-16.000.
Holland, Johannes, to U.S. Philips Corporation. Cold-transporting apparatus. 3,762,447, 10-2-73, Cl. 138-113.000.
Holland, John G., Sr., to Rolligon Corporation. Vehicle having axial supporting wheels engageable with load bearing driving rollers. 3,744,585, 7-10-73, Cl. 180-74.000.
Holland, John H., to Arkansas Rock and Gravel Co. Material delivery system. 3,724,692, 4-3-73, Cl. 214-83.360.
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Holland, John H., to Arkansas Rock and Gravel Co. Rocking bolster. 3,774,942, 11-27-73, Cl. 280-440.000.
Holland, Kenneth C.; and Sprando, Anthony E., to Tektronix, Inc. Switch having ganged contacts mounted on opposite sides of circuit board. 3,719,788, 3-6-73, Cl. 200-153.0lp.
Holland, Kenneth C., to Tektronix Inc. Step attenuator apparatus having attenuator stages selectively connected in cascade by cam actuated switches. 3,753,170, 8-14-73, Cl. 333-81.00a.
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Holland, Leslie Arthur: *See*—
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Holland, Norman F., to Borg-Warner Corporation. Method and arrangement for controlling fuel delivery in a charge forming apparatus. 3,738,336, 6-12-73, Cl. 123-73.00r.
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Holland, Raymond Prunty, Jr. Kites. 3,767,145, 10-23-73, Cl. 244-153.00r.
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Holland, Terence John, to International Standard Electric Corporation. Printing method. 3,757,346, 9-4-73, Cl. 346-1.000.
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Hollaway, John Thomas, to International Business Machines Corporation. Programmable code selection for automatic address answerback in a terminal system. 3,735,106, 5-22-73, Cl. 235-154.000.
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Hollenbach, Edwin A., to Drexel Industries, Inc. Material handling system. 3,727,778, 4-17-73, Cl. 214-75.00r.
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Hollerl, Alois; and Landgraf, Karl, to Otto Meinel-Georgadel Metallwarenfabrik. Exhaust means for multiple cylinder internal combustion engine. 3,709,320, 1-9-73, Cl. 181-40.000.
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Holley, George M., Jr. Position plotter. 3,781,892, 12-25-73, Cl. 343-112.0pt.
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Holley, John D.; and Peppin, Richard A., to Mannix Construction, Inc. Machine for inserting ties beneath a railroad track. 3,780,664, 12-25-73, Cl. 104-9.000.
Holley, Willard L. Block device for maintaining camber in skis. 3,746,355, 7-17-73, Cl. 280-11.37c.
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Hollies, Norman R. S.; and Chafitz, Steven R., to Cotton, Incorporated. Wet fixation of resins in fiber systems for durable press products. 3,709,657, 1-9-73, Cl. 8-116.300.
Holling, John H. Line controllable boat. 3,739,516, 6-19-73, Cl. 43-26.100.
Hollinger, Paul, to Maryland Cup Corporation. Package for fragile nested articles and method for making same. 3,710,931, 1-16-73, Cl. 206-65.00k.
Hollinger, Paul, to Maryland Cup Corporation. Combined shipping, display and dispensing package for a plurality of nested fragile articles. 3,745,025, 7-10-73, Cl. 99-180.000.
Hollingsead, Robert A.; and Pryor, Clyde Robert, to Hollingsead-Pryor Enterprises, Inc. Relay base apparatus having a retaining clip mounted thereon. 3,708,642, 1-2-73, Cl. 200-168.00c.
Hollingsead, Robert A.; and Pryor, Clyde Robert, to Hollingsead-Pryor Enterprises, Inc. Avionic tray. 3,710,476, 1-16-73, Cl. 29-200.00j.
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Hollingsworth, Alan L. Suspension means for mud flaps. 3,711,119, 1-16-73, Cl. 280-154.50r.
Hollingsworth, Elmont E., to Gray Manufacturing Company, Inc. High rise transmission jack. 3,735,958, 5-29-73, Cl. 254-2.00r.
Hollingsworth, Elvin R., to Overmyer Corporation. Method for forming a blown bottle having a chime in the shoulder portion thereof. 3,734,703, 5-22-73, Cl. 65-68.000.
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Hollingsworth, Gordon P., to Minnesota Mining and Manufacturing Company. Wind shield repair. 3,765,975, 10-16-73, Cl. 156-94.000.
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Hollingsworth, R. Lee. Means for directing electromagnetic wave energy at a very low angle above the horizon. 3,761,940, 9-25-73, Cl. 343-826.000.
Hollins, Jesse R. Vehicle engine fuel control accelerator override. 3,731,663, 5-8-73, Cl. 123-98.000.
Hollins, Jesse R. Apparatus for automatically extinguishing light of a vehicle. 3,760,236, 9-18-73, Cl. 317-142.0td.
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Hollis, Russell E. Metal composites including layer of unwoven wires. 3,764,277, 10-9-73, Cl. 29-191.600.
Hollis, Russell E., Jr., to General Processing Corporation. Jack construction for trailers and the like. 3,738,613, 6-12-73, Cl. 254-86.00r.
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Hollister, Donald D., to Charybdis, Inc. High pressure method for producing an electrodeless plasma arc as a light source. 3,763,392, 10-2-73, Cl. 315-248.000.
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Hollo, Janos; Toth, Jeno; and Zagyvai, Istvan, to Tatabanyai Szenbanyak. Process for the reduction of the biochemical oxygen demand of sewage, and for the recovery of the inherent protein. 3,738,933, 6-12-73, Cl. 210-53.000.
Holloway, Albert L. Spiral antenna with dielectric cover. 3,781,898, 12-25-73, Cl. 343-872.000.
Holloway, Carl C., Jr., to Phillips Petroleum Company. Method for producing a hydrocarbon-containing formation. 3,754,598, 8-28-73, Cl. 166-249.000.
Holloway, Donald P.; Payne, William H.; and Peeler, Donald H., to Metaltek, Inc. Device having coacting wheels for projecting tennis balls. 3,777,732, 12-11-73, Cl. 124-1.000.
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Holloway, Thomas M.; and Weeks, Robert G., to Johnson Service Company. Temperature control system. 3,753,184, 8-14-73, Cl. 236-47.000.
Hollowell, John R. Vacuum trash collector. 3,710,412, 1-16-73, Cl. 15-340.000.
Hollowell, John R. Vacuum trash collector. 3,740,933, 6-26-73, Cl. 55-429.000.
Hollowell, Roger T., to Permawick Company, Inc. Injection machine for wicking material. 3,774,721, 11-27-73, Cl. 184-1.00d.
Hollowell, William R., to Texaco Inc. Removing dialkyl sulfates from an alkylation reaction effluent. 3,763,267, 10-2-73, Cl. 260-683.460.
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Hollwedel, Henry C., Jr.; and Allan, Donald R., to George Lithograph Company. Photo-electronic film transport. 3,741,645, 6-26-73, Cl. 355-41.000.
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Holly, Harry H., to Hollymatic Corporation. Molding apparatus. 3,750,232, 8-7-73, Cl. 17-32.000.
Holly, James A., to Hollymatic Corporation. Fastener. 3,707,898, 1-2-73, Cl. 85-3.00r.
Holly, James A., to Hollymatic Corporation. Fastener. 3,728,761, 4-24-73, Cl. 24-73.000.
Holly, James A.; and Schneider, Edmund, to Hollymatic Corporation. Molding apparatus. 3,747,160, 7-24-73, Cl. 17-32.000.



Holly, James A., to Hollymatic Corporation. Motor drive for an implement. 3,758,798, 9-11-73, Cl. 310-50.000.
Holly, James A., to Hollymatic Corporation. Molding apparatus. 3,765,056, 10-16-73, Cl. 17-32.000.
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Holm, James P., to Upjohn Company, The. Arming control for servo-adjusted tablet compressing machines. 3,734,663, 5-22-73, Cl. 425-147.000.
Holm, Le Roy W., to Union Oil Company of California. Soluble oil additive concentrate. 3,769,209, 10-30-73, Cl. 252-8.55d.
Holm, Leroy W., to Union Oil Company of California. Soluble oil additive concentrate. 3,753,904, 8-21-73, Cl. 252-8.55d.
Holm, Leroy W.; and Gallus, Julius P., to Union Oil Company of California. Method for stimulating the production of oil from a producing well. 3,756,319, 9-4-73, Cl. 166-304.000.
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Holm, William J., to Riggs & Lombard, Inc. Self-calibrating seam detector. 3,748,414, 7-24-73, Cl. 200-61.130.
Holm, William J., to Riggs & Lombard, Inc. Apparatus for shearing patterns on fabrics. 3,758,924, 9-18-73, Cl. 26-16.000.
Holm, William J., to Riggs & Lombard, Inc. Method for solvent scouring knit webs and the like. 3,762,871, 10-2-73, Cl. 8-151.000.
Holm, William J., to Riggs & Lombard, Inc. Web scouring method and apparatus. 3,771,952, 11-13-73, Cl. 8-149.100.
Holm, William Z., to Ross-Holm Division, Holm Tractor & Equipment Company. Automatic milking barn. 3,738,320, 6-12-73, Cl. 119-14.030.
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Holmberg, Bo F.; and Hellstrom, Nils Erik. Signal controlled trimming device. 3,734,150, 5-22-73, Cl. 83-474.000.
Holmberg, Bo F.; Hellstrom, Nils E.; and Modin, Sigurd K. J. Apparatus for grading lumber. 3,759,384, 9-18-73, Cl. 209-122.000.
Holmberg, Gote Eskil Yngve, to G.E.Y.-Patenter Aktiebolag. Push-button lock for safety belts. 3,774,268, 11-27-73, Cl. 24-230.00a.
Holmberg, Joyce D.; and Allgeyer, Earl R., to Marley Company, The. Cooling tower fan blade assembly having yieldable, expendable tip. 3,708,155, 1-2-73, Cl. 261-24.000.
Holmberg, Roland Bengt; and Petersson, Ralf Krister Ebbe, to Kalmar Verkstadsaktiebolag. Coupling mechanisms for tractor semi-trailer vehicle combinations having connecting means for the electrical, pneumatical and/or hydraulical service lines from the trators to the semi-trailers. 3,711,122, 1-16-73, Cl. 280-421.000.
Holmberg, Roland Bengt; and Petersson, Ralf Krister Ebbe, to Kalmar Verkstadsaktiebolag. Mechanisms for coupling semi-trailers to tractors. 3,734,537, 5-22-73, Cl. 280-421.000.
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Holmes, Alton B., to North American Rockwell Corporation. Valve. 3,743,364, 7-3-73, Cl. 303-54.000.
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Holmes, Brandon M., to Progressive Products Corporation, mesne. Deep fat fryer. 3,750,560, 8-7-73, Cl. 99-408.000.
Holmes, Curtis L.; and Brady, Lynn J., to CTS Corporation. Electrically conductive element and method of making the same. 3,778,305, 12-11-73, Cl. 117-212.000.
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Holmes, George W.; and Frisch, Eldon E. Method for improving the adhesion between silicone elastomers. 3,759,775, 9-18-73, Cl. 156-308.000.
Holmes, George W.; and Frisch, Eldon E., to Dow Corning Corporation, mesne. Method for improving the adhesion between silicone elastomers. 3,762,978, 10-2-73, Cl. 156-308.000.
Holmes, Gordon W. Container. 3,756,493, 9-4-73, Cl. 229-55.000.
Holmes, Horace D., Jr., to Holmes, Horace D., Sr. Energy absorbing shift lever. 3,750,492, 8-7-73, Cl. 74-523.000.
Holmes, Horace D., Sr.: *See—*
Holmes, Horace D., Jr., 3,750,492.
Holmes, Jack K.: *See—*
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Holmes, James C.; and Holmes, Fred M. Trailer. 3,780,894, 12-25-73, Cl. 214-505.000.
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Holmes, James D., Sr. Thoracic and abdominal plate for cadavers and method of using. 3,768,127, 10-30-73, Cl. 27-21.000.
Holmes, Jerry D.; and Hagemeyer, Hugh J., Jr., to Eastman Kodak Company. Process for the production of hydroquinone. 3,742,071, 6-26-73, Cl. 260-621.00r.
Holmes, John T.: *See—*
Vissers, Donald R.; Holmes, John T.; and Nelson, Paul A., 3,731,523.
Holmes, Joseph Leslie, to Coventry Climax Engines Limited. Hydraulic power from a prime mover. 3,756,751, 9-4-73, Cl. 417-364.000.



Holmes, Leonard Hubert, to Ferranti Limited. Electrical apparatus. 3,742,424, 6-26-73, Cl. 340-347.000.
Holmes, Lloyd G., to Sperry Rand Corporation. Method and apparatus for recording and reproducing video information on a magnetic disk. 3,742,142, 6-26-73, Cl. 179-100.200.
Holmes, Lloyd G., to Sperry Rand Corporation. Method and apparatus for recording and reproducing video information on a magnetic disk. 3,742,143, 6-26-73, Cl. 179-100.200.
Holmes, Lloyd G., to Sperry Rand Corporation. Method and apparatus for recording and reproducing video information on a magnetic disk. 3,742,144, 6-26-73, Cl. 179-100.200.
Holmes, Lloyd G., to Sperry Rand Corporation. Method and apparatus for recording and reproducing video information on a magnetic disk. 3,742,145, 6-26-73, Cl. 179-100.200.
Holmes, Lloyd G., to Sperry Rand Corporation. Method and apparatus for recording and reproducing video information on a magnetic disk. 3,742,146, 6-26-73, Cl. 179-100.200.
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Holmes, Lloyd G., to Sperry Rand Corporation. Method and apparatus for recording and reproducing video information on a magnetic disk. 3,742,201, 6-26-73, Cl. 179-100.200.
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Holmes, Lloyd G., to Sperry Rand Corporation. Method and apparatus for recording and reproducing video information on a magnetic disk. 3,742,228, 6-26-73, Cl. 179-100.200.
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Holmes, Lambert; and McDougall, Franklin M., to Economics Laboratory, Inc., mesne. Dual additive feeder for dishwashing. 3,756,457, 94-73, Cl. 222-1.000.
Holmes, Lloyd W. Data card storage tray. 3,767,057, 10-23-73, Cl. 211-10.000.
Holmes, Marion B.; and Ganzert, Albert E., to Daniels Manufacturing Corporation. Turret head assembly. 3,738,150, 6-12-73, Cl. 72-410.000.
Holmes, Peter, to Societe Genevoise d'Instruments de Physique. High precision reading device of the graduation of a precision ruler. 3,737,669, 6-5-73, Cl. 250-231.00r.
Holmes, Ralph A.: *See—*
Wertheimer, Donald J.; Fish, Richard D.; and Holmes, Ralph A., 3,714,885.
Holmes, Raymond, to Burgess Micro Switch Company Limited. Electrical switches. 3,763,339, 10-2-73, Cl. 200-67.00b.
Holmes, Richard N.; and Dobbs, Richard A., to McDonnell Douglas Corporation. Non-woven locked ply composite structure. 3,769,142, 10-30-73, Cl. 161-53.000.
Holmes, Robert C., Jr., to Mark Products, Inc. Seismometer with spring spider suspension. 3,718,900, 2-27-73, Cl. 340-17.000.
Holmes, Robert H.: *See—*
Ragard, Phillip A.; Zemek, Albert W.; Dean, Weibley J.; and Holmes, Robert H., 3,727,284.
Zemek, Albert W.; Holmes, Robert H.; and Orzelek, Frank J., 3,730,041.
Holmes, Robert H.; and Zemek, Albert W., to Universal Instruments Corporation. Lead cut and outward clinch mechanism. 3,724,055, 4-3-73, Cl. 29-203.00b.
Holmes, Robert, Jr., to International Telephone and Telegraph Corporation. Method and apparatus for stripping electrical cable ends. 3,768,143, 10-30-73, Cl. 29-427.000.
Holmes, Robert W.: *See—*
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Dey, Arabinda N.; and Holmes, Robert W., 3,736,184.
Dey, Arabinda N.; and Holmes, Robert W., 3,736,190.
Holmes, Ronald Leslie. Hydroplane construction. 3,753,349, 8-21-73, Cl. 60-227.000.
Holmes, Roy F.: *See—*
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Holmes, Stannard D. Rodent trap. 3,729,852, 5-1-73, Cl. 43-61.000.
Holmes, Tracy, Corporation: *See—*
Holmes, Tracy S., 3,773,295.
Holmes, Tracy S., to Holmes, Tracy, Corporation. Sailboat block with shackle adapter. 3,773,295, 11-20-73, Cl. 254-195.000.
Holmes, W. Church; and Coltrinari, Enzo L., to Sunshine Mining Company. Process for removal of arsenic from sulfo-ore. 3,709,680, 1-9-73, Cl. 75-6.000.
Holmes, William C.: *See—*
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Holmgren, Nils Erik Borje, to Telefonaktiebolaget L M Ericsson. Transmitter-and receiver arrangement for detection of targets within a limited range next to the arrangement. 3,725,925, 4-3-73, Cl. 343-17.10r.
Holmgren, Per Harald, to Saab-Scania Aktiebolag. Maintaining desired speed of cutting tool in numerically controlled machine tool. 3,735,104, 5-22-73, Cl. 235-151.110.
Holmlund, Henrik: *See—*
Fransson, Johnny; Holmlund, Henrik; and Kareby, Erik, 3,746,310.
Holmquist, Wesley R. Bale twine cutter. 3,728,791, 4-24-73, Cl. 30-294.000.
Holmqvist, John Gustav Ulrik, to Tomelilla Dental AB. Holder assembly for dental tools. 3,740,852, 6-26-73, Cl. 32-22.000.
Holmstrom, F. Ross; and Hopkins, John B., to United States of America, Transportation. Microwave crash sensor for automobiles. 3,760,415, 9-18-73, Cl. 343-7.0ed.
Holmstrom, John, Jr.: *See—*
Bushmeyer, Richard W.; and Miller, Charles D., 3,723,129.
Holmstrom, Sven Nils Hakan; and Olsen, Jan-Erik, to AB Tetra Pak. Apparatus for forming preferably cup-shaped hollow bodies by drawing a material capable of being formed by heat. 3,732,050, 5-8-73, Cl. 425-289.000.
Holmstrom, Tage Raymond. Method of caulking or stopping up crevices or filling up joints and the like in buildings. 3,709,711, 1-9-73, Cl. 117-2.00r.
Holmwood, Owen L.: *See—*
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Holobeam, Inc.: *See—*
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Holograf Corporation: *See—*
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Holograph Corporation: *See—*
Forster, Harry D., Jr., 3,744,882.
Holohan, Bartholomew A., to Tica Industries, Limited. Safety razor. 3,748,734, 7-31-73, Cl. 30-60.500.
Holophane Company, Inc.: *See—*
Edman, Warren H.; and Patyrak, James W., 3,766,375.
Ewing, Robert L., 3,778,932.
Lewin, Ian, 3,763,369.
Wince, Vearl S., 3,725,697.
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Brenden, Byron B., 3,765,403.
St. John, Daniel S.; and Haines, Kenneth A., 3,716,286.
St. John, Daniel S., 3,721,312.
Holovka, Charles, Jr., to International Business Machines Corporation. Travelling cylinder printer with the roller contacting the back of the embossed plate. 3,768,404, 10-30-73, Cl. 101-269.000.
Holovka, John M.; and Hurley, Edward, Jr., to Marathon Oil Company. Preparation of mixed unsymmetrical ethers. 3,718,701, 2-27-73, Cl. 260-611.00r.
Holovnia, Joseph T.; and Rakauskas, Vitie S., to Dennison Manufacturing Company. Feeding apparatus. 3,712,449, 1-23-73, Cl. 198-20.00r.
Holowaty, Michael O.; and Knoerzer, Jerome J., to Inland Steel Company. Method for reducing dust during handling of reactive form coke briquettes. 3,730,692, 5-1-73, Cl. 44-6.000.
Holowka, Jaroslaw A.; and Lerner, Martin L., to Zenith Radio Corporation. Etch-back screening. 3,772,103, 11-13-73, Cl. 156-18.000.
Holpe Kabushiki Kaisha: *See—*
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Holper, Frank, to Molon Motor & Coil Corporation. Shading coil motor assembly. 3,757,149, 9-4-73, Cl. 310-114.000.
Holsapple, Edward Joe: *See—*
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Holsapple, Jerry Raymond: *See—*
Holsapple, Olen Wade; Holsapple, Edward Joe; and Holsapple, Jerry Raymond, 3,712,106.
Holsapple, Olen Wade; Holsapple, Edward Joe; and Holsapple, Jerry Raymond, to Wolgast, Raymond P. Shaping tool for planar sheets. 3,712,106, 1-23-73, Cl. 72-309.000.
Holscher, Ebo Jan; and Osinga, Theo Jan, to N.V. Internationale Octrooi Maatschappij "Octropa". Nickel catalysts. 3,759,843, 9-18-73, Cl. 252-459.000.
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Holson Company, The: *See—*
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Holst, Edward H.: *See—*
Rigdon, Orville W.; Edwards, Robert S.; and Holst, Edward H., 3,717,561.
Rigdon, Orville W.; Edwards, Robert S.; and Holst, Edward H., 3,775,275.
Holst, Paul F. G.; and Brobeck, William R., to Avco Corporation. Near field spiral antenna. 3,780,373, 12-18-73, Cl. 343-788.000.
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Holst, Rudolf; and Hauschild, Ulrich, to Kali-Chemie Aktiengesellschaft. Production of phosphate fertilizers. 3,713,803, 1-30-73, Cl. 71-45.000.
Holstein & Kappert Maschinenfabrik Phonix GmbH: *See—*
Hahn, Winfried, 3,753,589.
Karass, Hans-Joachim; and Kroger, Heinz, 3,750,801.
Knabe, Uwe; Gust, Arno; and Hinxlage, Alois, 3,712,017.
Mnilk, Reinhold; Keil, Manfred; and Finger, Karl-Heinz, 3,743,141.
Sindermann, Siegmar, 3,777,449.
Holstein, Alvin W.; Short, William H.; and Kuencker, William, to UMC Industries, Inc. Fresh-brew coffee vendor. 3,757,669, 9-11-73, Cl. 99-280.000.
Holstein, Stephen A. Disposable cot sheet. 3,765,040, 10-16-73, Cl. 5-334.00r.
Holster, Peter Leendert; and Smulders, Hendricus Franciscus Gerardus, to U.S. Philips Corporation. Fluidic function module for use in a system for constructing fluidic circuits. 3,747,628, 7-24-73, Cl. 137-269.000.
Holster, Peter Leendert; Smulders, Hendricus Franciscus Gerardus; and Baert, Roger Bertrand, to U.S. Philips Corporation. Fluid control device. 3,747,645, 7-24-73, Cl. 137-838.000.
Holt, Albert C.: *See—*
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Holt, Alwin J., Jr.: *See—*
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Holt, Brian, to Ciba-Geigy Corporation. Stabilizing organic material with piperidone azines. 3,734,883, 5-22-73, Cl. 260-45.80n.
Holt, Brian; Randell, Donald Richard; and Jack, James, to Ciba-Geigy Corporation. 2,2,6,6-Tetramethyl piperidinyl-4-(dialkyl-hydroxy-benzoyl or phenyl alkanky1) hydrazones. 3,745,163, 7-10-73, Cl. 260-93.760.
Holt, David M.: *See—*
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Holt, Eugene L.: *See—*
Lang, Robert J.; Holt, Eugene L.; and Stoneback, David N., 3,778,501.
Holt, Eugene L.; and Welty, Albert B., Jr., to Esso Research and Engineering Company. Reduction of $SO_2$ in gas mixtures. 3,726,958, 4-10-73, Cl. 423-243.000.
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Hopkins, Genc; and Mohrman, Raymond, to La Barge, Inc. Sheath package with sheath removal signalling for clinical temperature measurement instrument. 3,752,309, 8-14-73, Cl. 206-63.200.

Hopkins, George C.; and Hindersinn, Raymond R., to Hooker Chemical Corporation. Nitrilotriacetyltriachloride. 3,709,933, 1-9-73, Cl. 260-544.00y.

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Hopkins, Ralph E., to United States of America, Army. High voltage deposited fuel cell. 3,717,506, 2-20-73, Cl. 136-86.00f.

Hopkins, Richard H.; Roland, George W.; Partlow, William D.; and Steinbruegge, Kenneth B., to Westinghouse Electric Corporation. Calcium-yttrium silicate oxyapatite lasers. 3,710,278, 1-9-73, Cl. 331-94.500.

Hopkins, Richard H.; Roland, George W.; Steinbruegge, Kenneth B.; and Partlow, William D., to Westinghouse Electric Corporation. Calcium containing silicate oxyapatite lasers. 3,781,707, 12-25-73, Cl. 331-94.500.

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Hopkins, Walker L.; Swenney, Donald E., Jr.; and Pitman, Herbert J., to Texaco Inc. Means and method for achicving an optimum acid strength for an alkylation unit. 3,728,527, 4-17-73, Cl. 235-151.120.

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Horak, Martin S., to Vikoa, Inc. Three-piece coaxial cable connector. 3,744,007, 7-3-73, Cl. 339-97.00r.

Horak, Vladimir; and Vretener, John. Automatic tank plug valve. 3,780,981, 12-25-73, Cl. 251-144.000.

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Horgan, William J., Jr., to Blumcraft of Pittsburgh. Panic device for a door. 3,765,198, 10-16-73, Cl. 70-92.000.

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Houlihan, William J., to Sandoz-Wander, Inc. Tetrahydropyridazines and pyridazinones as anti-inflammatory agents. 3,726,978, 4-10-73, Cl. 424-250.000.
Houlihan, William J.; and Nadelson, Jeffrey, to Sandoz-Wander, Inc. 1,1-Disubstituted-2-alkyl isoindolines. 3,741,980, 6-26-73, Cl. 260-326.100.
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Houlihan, William J., to Sandoz-Wander, Inc. 2,3,4,5-Tetrahydro-7H-[1,3] diazepino [2,1- ] isoindoles. 3,755,360, 8-28-73, Cl. 260-326.50b.
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Houlihan, William J.; and Nadelson, Jeffrey, to Sandoz-Wander, Inc. 7-Substituted-hexahydro pleiadenes. 3,763,233, 10-2-73, Cl. 260-553.00r.
Houlihan, William J.; and Nadelson, Jeffrey, to Sandoz-Wander, Inc. Intermediated to substituted dibenz (A,H) azulenones and 8-(oxa or thia) substituted dibenz (A,H) azulenones. 3,767,673, 10-23-73, Cl. 260-327.00b.
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Houlihan, William J.; and Nadelson, Jeffrey, to Sandoz-Wander, Inc. Substituted methano dibenzazocines and dibenzazonines. 3,781,270, 12-25-73, Cl. 260-239.0db.
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Housel, Richard W., to Atlantic Products Corporation. Pillow-pak carrying case. 3,768,610, 10-30-73, Cl. 190-43.000.
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Houseman, Paul S., to Bendix Corporation, The. Brake failure warning system. 3,711,827, 1-16-73, Cl. 340-52.00b.
Houser, David E.: *See—*
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Houser, Lloyd, to PPG Industries, Inc. Multiple glazed units. 3,735,553, 5-29-73, Cl. 53-86.000.
Houser, Robert Wilson: *See—*
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Housholder, William R.: *See—*
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Houss, Max. Snap-out set. 3,743,323, 7-3-73, Cl. 282-23.000.
Houssa, Marcel Goerges Jean. Process and machine for the toasting of cut bread. 3,712,480, 1-23-73, Cl. 214-1.00q.
Houst, Douglas R.; and Iskandar, Kamal, to General Electric Company. Cam actuated switching assembly. 3,719,871, 3-6-73, Cl. 318-139.000.
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Webb, Derrel D., 3,713,481.
Houston, John M., to General Electric Company. Inverted image multibeam cathode ray tube. 3,778,659, 12-11-73, Cl. 313-69.00r.
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Houston, Wesley M.: *See—*
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Houtler, Gerald. Adjustable ladder platform. 3,734,236, 5-22-73, Cl. 182-121.000.
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Houtman, Richard L., to Steelcase, Inc. Recessed pull. 3,742,554, 7-3-73, Cl. 16-124.000.
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Houze, Gerald L., Jr.; and Osborn, Merlin L., to Allegheny Ludlum Industries, Inc. Method for reducing core losses in silicon steels and the like. 3,716,763, 2-13-73, Cl. 317-157.500.
Hovad, Helge: *See—*
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Hovad, Karl Erik: *See—*
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Hover, Lawrence L.: *See—*
Quinlan, William J.; and Hover, Lawrence L., 3,751,754.
Hover, Paul B., to Tecumseh Products Company. Refrigeration process, apparatus and method. 3,763,659, 10-9-73, Cl. 62-115.000.
Hovermale, Ralph Allen; Ostapchenko, George Joseph; and Yang, Hung Han, to Du Pont de Nemours, E. I., and Company. Orientation of tubular polypropylene film. 3,723,583, 3-27-73, Cl. 264-40.000.
Hoverter, Bryce E.: *See—*
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Hovey, John M., to United States of America, Navy. Beacon target selector and evaluator. 3,781,881, 12-25-73, Cl. 343-6.50r.
Hovey, Patrick Bruce. Insect catchers. 3,713,245, 1-30-73, Cl. 43-110.000.
Hovey, Ralph J.: *See—*
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Hovey, Richard J., to American Optical Corporation. Laser energy absorbing composition containing a copper salt. 3,761,437, 9-25-73, Cl. 260-29.10r.
Hovick, Jack H., 1/3% to Gambrell, James B. Apparatus for collection of urine in females. 3,722,503, 3-27-73, Cl. 128-2.00f.
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Hovorka, Jiri J., to Western Electric Company, Incorporated. Apparatus for molding longitudinally spaced block portions about literally spaced parallel inserts. 3,767,155, 10-23-73, Cl. 249-96.000.
Hovsepian, Boghos Karnig, to Du Pont de Nemours, E. I., and Company. Rolling of lithium. 3,721,113, 3-20-73, Cl. 72-46.000.
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Howaldtswerke-Deutsche Werft Aktiengesellschaft Hamburg und Kiel: *See—*
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Howard, Arthur G.; and McHugh, John P. Humidifier means. 3,776,215, 12-4-73, Cl. 126-113.000.
Howard Associates, Inc.: *See—*
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Howard, Clay D.: *See—*
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Howard, David Robert, to Davy and United Engineering Company, Limited. Cooling equipment. 3,758,040, 9-11-73, Cl. 239-550.000.
Howard, Dean D.; and Cross, David C., to United States of America, Navy. Automatic digital error detector for radar range tracking. 3,718,927, 2-27-73, Cl. 343-7.400.
Howard, Dean D., to United States of America, Navy. Tracking radar feed circuitry. 3,728,726, 4-17-73, Cl. 343-16.00m.
Howard, Dean D., to United States of America, Navy. Radar target imaging technique. 3,747,097, 7-17-73, Cl. 343-11.00r.
Howard Displays, Inc.: *See—*
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Howard, Donald W. Electrical actuated trailer brake control system. 3,768,870, 10-30-73, Cl. 303-7.000.
Howard, Dwight T., to Eastman Kodak Company. Continuous microfilm timing circuit. 3,732,006, 5-8-73, Cl. 355-14.000.



Howard, Edward George, Jr., to Du Pont de Nemours, E. I., and Company. Thermally stabilized fluoroketone/vinyl fluoride copolymers. 3,714,117, 1-30-73, Cl. 260-45.90r.
Howard, Frances B. Foldable toothbrush with paste supply and dispenser and covering means. 3,734,118, 5-22-73, Cl. 137-84.000.
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Howard, Frank S., to United States of America, National Aeronautics and Space Administration. Floating baffle to improve efficiency of liquid transfer from tanks. 3,736,956, 6-5-73, Cl. 137-582.000.
Howard, Frank S., to United States of America, National Aeronautics and Space Administration. Zero gravity liquid transfer screen. 3,744,738, 7-10-73, Cl. 244-1.0ss.
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Howard, George C., to Amoco Production Company. Pipeline supported by beams and cables in permafrost areas. 3,747,355, 7-24-73, Cl. 61-72.100.
Howard, George C., to Amoco Production Company. Protecting offshore structures from ice. 3,766,737, 10-23-73, Cl. 61-1.000.
Howard, Gerald Henry; and Guay, Gilles Gerard, to Coutellier, Jacques George. Automatic traffic controller with plural input receiver circuit. 3,763,466, 10-2-73, Cl. 340-41.000.
Howard Harvestore Limited: *See—*
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Howard, Henry H. Apparatus for fry potato sugar leaching and the like. 3,774,524, 11-27-73, Cl. 99-483.000.
Howard, Homer E., to Howard Associates, Inc. Electronic relay and ignition system utilizing same. 3,722,489, 3-27-73, Cl. 123-148.00e.
Howard, James A., to Casselle Novelty Company, Inc. Dice simulator. 3,762,715, 10-2-73, Cl. 273-142.00a.
Howard, James S.: *See—*
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Howard, John; and McIntosh, Terence D., to Rayonier Incorporated. Pure crystalline plicatic acid tetrahydrate and the methyl ester thereof. 3,716,574; 2-13-73, Cl. 260-473.00f.
Howard, John; and McIntosh, Terence D. Plicatic acid esters. 3,754,937, 8-28-73, Cl. 99-163.000.
Howard, John, to Rotaflex Great Britain Limited. Electrical lighting installations. 3,760,133, 9-18-73, Cl. 200-50.00b.
Howard, John Arthur; and Sergant, Gwendolen Alice. Pallets. 3,709,160, 1-9-73, Cl. 108-51.000.
Howard, Joseph A. Reversible ratchet-type wrench. 3,724,298, 4-3-73, Cl. 81-63.000.
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Howard, Norman B., to Procter & Gamble Company, The. Process for forming a stable oil and water-soluble protein-containing emulsion and product thereof. 3,729,325, 4-24-73, Cl. 99-123.000.
Howard, Patrick Joseph, to RCA Corporation. Integral cycle thyristor power controller. 3,761,800, 9-25-73, Cl. 323-18.000.
Howard, Paul D., to Halliburton Company. Dampened railway freight-car truck. 3,768,419, 10-30-73, Cl. 105-182.00r.
Howard, Paul N., to Howard Manufacturing Company. Slat panel furniture. 3,722,431, 3-27-73, Cl. 108-153.000.
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Howard, Robert, to Centronics Data Computer Corporation. Driver circuit for actuating print wire solenoids. 3,754,166, 8-21-73, Cl. 317-148.50b.
Howard, Robert C., to Wyomissing Corporation. Furcated garment. 3,776,002, 12-4-73, Cl. 66-87.000.
Howard, Sol; and Schaaf, Robert, to Mil-An Mfg. Corporation. Filter and dust collecting bag for upright vacuum cleaners. 3,728,847, 4-24-73, Cl. 55-371.000.
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Howard, Wayne R.; and Ratliff, Richard L., to Clark Equipment Company. Clutch with brake having torsional resilience. 3,743,070, 7-3-73, Cl. 192-113.00r.
Howard, William A., to BRI Corporation, mesne. Ignition magneto safety interlock. 3,726,265, 4-10-73, Cl. 123-179.00k.
Howard, William C. Rotating piston engine. 3,719,438, 3-6-73, Cl. 418-36.000.
Howard, William E., to Materials Handling Systems, Inc. Device for holding and bundling newspapers. 3,739,714, 6-19-73, Cl. 100-34.000.
Howard, William G., Jr.: *See—*
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Howard, William L.; and Burger, Joanne D., to Dow Chemical Company, The. Resolution of optically active propylene glycol and certain ketones. 3,737,463, 6-5-73, Cl. 260-587.000.
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Howarth, Roger E.; McGuigan, William M.; and Murday, David A., to Rohr Corporation. Synchronized hydraulic servo motor system. 3,756,123, 9-4-73, Cl. 91-171.000.
Howchin, Ronald M. Circuit breaker. 3,747,034, 7-17-73, Cl. 335-38.000.
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Howe, Charles Wesley, to Emery, Vern, Company, Inc. Apparatus for providing partial slits in corrugated drain pipe. 3,768,365, 10-30-73, Cl. 90-15.10r.
Howe, Derek Henry, to Pye Limited. Noise immune colour killer circuit. 3,717,726, 2-20-73, Cl. 178-5.4ck.
Howe, Donald J.; and Hoppe, John C., to Eastman Kodak Company. Autostereographic print element. 3,751,258, 8-7-73, Cl. 96-81.000.
Howe, Frank C., to Shell Oil Company. Fuel burner nozzle. 3,730,438, 5-1-73, Cl. 239-490.000.
Howe, George F., to Champion International Corporation. Pendulum mounted heat seal. 3,729,897, 5-1-73, Cl. 53-329.000.
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Howe, Hans-Ulrich, to Klockner-Humboldt-Deutz Aktiengesellschaft. Piston cooling arrangement for a reciprocating piston internal combustion engine with an injection nozzle. 3,709,109, 1-9-73, Cl. 92-186.000.
Howe, James A., to Sperry Rand Corporation. Pulsed voltage driver for capacitive load. 3,751,682, 8-7-73, Cl. 307-255.000.
Howe, James D., to Bausch & Lomb Incorporated. Multilayer filter based on substitution of herpin equivalent layers in an antireflection coating formula. 3,737,210, 6-5-73, Cl. 350-166.000.
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Howe, John Arthur, to TRW Inc. Lampholder. 3,781,768, 12-25-73, Cl. 339-125.000.
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Howe, Lawrence C. Display device. 3,744,168, 7-10-73, Cl. 40-132.00r.
Howe, Philip T. Meter socket voltage recorder unit. 3,714,516, 1-30-73, Cl. 317-104.000.
Howe, Ralph; and Smith, Leslie Harold, to Imperial Chemical Industries Limited. Alkanolamine derivatives. 3,712,927, 1-23-73, Cl. 260-471.00c.
Howe, Ralph S., Jr., to Textron, Inc. Shaft locking device. 3,709,575, 1-9-73, Cl. 308-236.000.
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Howe, Robert K.; and Darlington, Walter A., to Monsanto Company. Mosquito control agents. 3,755,598, 8-28-73, Cl. 424-304.000.
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Howe, Spencer D., to Hughes Aircraft Company. Scanning system with uniform scan rate and rapid return. 3,734,591, 5-22-73, Cl. 350-6.000.
Howe, Wesley C. Ball bearing device with barrier seal. 3,768,880, 10-30-73, Cl. 308-187.200.
Howe, William J. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,448, 12-11-73, Cl. 53-47.000.



Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,449, 12-11-73, Cl. 53-47.000.
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Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,451, 12-11-73, Cl. 53-47.000.
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Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,456, 12-11-73, Cl. 53-47.000.
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Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,472, 12-11-73, Cl. 53-47.000.
Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,473, 12-11-73, Cl. 53-47.000.
Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,474, 12-11-73, Cl. 53-47.000.
Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,475, 12-11-73, Cl. 53-47.000.
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Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,479, 12-11-73, Cl. 53-47.000.
Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,480, 12-11-73, Cl. 53-47.000.
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Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,482, 12-11-73, Cl. 53-47.000.
Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,483, 12-11-73, Cl. 53-47.000.
Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,484, 12-11-73, Cl. 53-47.000.
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Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,491, 12-11-73, Cl. 53-47.000.
Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,492, 12-11-73, Cl. 53-47.000.
Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,493, 12-11-73, Cl. 53-47.000.
Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,494, 12-11-73, Cl. 53-47.000.
Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,495, 12-11-73, Cl. 53-47.000.
Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,496, 12-11-73, Cl. 53-47.000.
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Howe, William L., to Sperry Rand Corporation. Method and apparatus for heat-sealing paperboard package closure flaps. 3,777,504, 12-11-73, Cl. 53-47.000.
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Childree, Herman I.; and Trawick, Stewart I., 3,721,226.
Howell, Alun Raymond, to United Kingdom of Great Britain and Northern Ireland, Minister of Aviation Supply in Her Britannic Majesty's Government of the. Ducted fans as used in gas turbine engines of the type known as fan-jets. 3,735,593, 5-29-73, Cl. 60-22.000.
Howell, Bryan Gordon: *See—*
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Howell, Charles B.; and Drew, Richard E., to General Electric Company. Borescope guide tube. 3,778,170, 12-11-73, Cl. 356-241.000.
Howell, Charles Frederick; and Greenblatt, Eugene Newton, to American Cyanamid Company. 7-Amino-2-chloro-11-(4-methyl-1-piperazinyl) dibenz-(b,f)(1,4)oxazepine and salts thereof. 3,773,768, 11-20-73, Cl. 260-268.0tr.
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Howell, Eddie P.; Hardison, Jack E.; and Campbell, William M., to Atlantic Richfield Company. Geothermal exploration. 3,714,832, 2-6-73, Cl. 73-432.00r.
Howell, Edith S.: *See—*
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Howell, Edward R.; Wood, Harold B., Jr.; and Sayad, Richard S., to Dow Chemical Company, The. Heat transfer agent composition. 3,779,927, 12-18-73, Cl. 252-75.000.
Howell, Elvin L.; and Corwith, James, to International Harvester Company. Unloader tube latching mechanism. 3,721,359, 3-20-73, Cl. 214-522.000.
Howell, Frederick Harold; and Pickles, Wilfred, to Ciba-Geigy Corporation. Tri-[p-(2-butenyl)-phenyl] phosphite. 3,717,691, 2-20-73, Cl. 260-956.000.
Howell, Glen W.; and Gilroy, Robert G., to TRW Inc. Digital liquid vector control system. 3,737,103, 6-5-73, Cl. 239-265.230.
Howell, Hilda; and Kutz, Walter M., to Koppers Company, Inc. Self-extinguishing polymer compositions containing brominated arylidene ketones. 3,766,136, 10-16-73, Cl. 260-45.70r.
Howell, Hilda; and Kutz, Walter M., to Koppers Company, Inc. Brominated cinnamic acid esters. 3,766,249, 10-16-73, Cl. 260-476.00r.
Howell Instruments, Inc.: *See—*
Howell, John S.; and Rowan, Richard L., 3,721,120.
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Howell, Jack D. Apparatus for measuring the effective value of electrical waveforms. 3,714,570, 1-30-73, Cl. 324-132.000.
Howell, James M.: *See—*
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Howell, John S.; and Rowan, Richard L., to Howell Instruments, Inc. Engine performance indicator. 3,750,465, 8-7-73, Cl. 73-117.300.
Howell, Marie W. Pleatable fabric. 3,775,235, 11-27-73, Cl. 161-70.000.
Howell, Norbert C.; Tischuk, Walter; and Welsh, Thomas M., to Robertson, H. H., Company. Mold apparatus for making foamed-in-place double-skin building panel. 3,759,479, 9-18-73, Cl. 249-95.000.
Howell, Richard S., to Xerox Corporation. Dual mode electrographic recorder. 3,717,880, 2-20-73, Cl. 346-74.0es.
Howell, Robert B. Presser foot with sideways adjustment. 3,716,008, 2-13-73, Cl. 112-240.000.
Howell, Robert B. Threading feature for roller type presser foot. 3,726,243, 4-10-73, Cl. 112-235.000.
Howell, Robert B. Presser foot roller with alignment feature. 3,754,519, 8-28-73, Cl. 112-235.000.
Howell, Robert G.: *See—*
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Howell, Robert G.; and Panzarino, Joseph N., to Corning Glass Works. Ion-exchange strengthened, electrically-heated glass. 3,723,080, 3-27-73, Cl. 65-30.000.
Howell, Rubie Nell Little: *See—*
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Howell, Thomas A.; and Selle, Dewey D. Solder wick device. 3,726,464, 4-10-73, Cl. 228-19.000.
Howell, Venice T. Building construction with sloping foundation sill and vertical underpinning. 3,727,358, 4-17-73, Cl. 52-169.000.
Howell, Wallace E.: *See—*
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Howell, Wallace E. Air momentum anemometer. 3,719,079, 3-6-73, Cl. 73-194.00r.
Howell, Wallace E., to Hedco, Inc. Method of preserving ice nuclei for snow formation. 3,774,842, 11-27-73, Cl. 239-2.00s.
Howell, William E., to United States Steel Corporation. Temperature-sensing device for continuous-casting molds. 3,745,828, 7-17-73, Cl. 73-295.000.
Howell, William G.: *See—*
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Howells, George Aneurin; and Hunt, Elisabeth June, to International Standard Electric Corporation. Switching centre for a data network. 3,732,548, 5-8-73, Cl. 340-172.500.
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Hower, Sara. Method of working tartan or gingham on canvas. 3,779,190, 12-18-73, Cl. 112-262.000.
Howers, Norman K.: *See—*
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Howland, Benjamin T. Disposable baby bottle. 3,746,198, 7-17-73, Cl. 215-11.00r.
Howland, Bradford; and Howland, Howard C. Kinematic thrust bearing with balls and rollers. 3,751,125, 8-7-73, Cl. 308-206.000.
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Howland, Leland L., to Thermo King Corporation. Diesel engine starting switch and circuit. 3,708,683, 1-2-73, Cl. 290-37.000.
Howland, Leland L., to Thermo King Corporation. Refrigeration system defrost initiation apparatus. 3,726,104, 4-10-73, Cl. 62-140.000.
Howland, Richard E.; and Cederholm, Carl E., to Hasbro Industries, Inc. Doll construction. 3,740,894, 6-26-73, Cl. 46-161.000.
Howland, Ward W.; and Mallett, William R., to Union Oil Company of California. Gasoline anti-icing additives (A). 3,717,446, 2-20-73, Cl. 44-58.000.
Howland, William R. Take-off duct coupler. 3,749,425, 7-31-73, Cl. 285-191.000.
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Howlett, Arthur George. Templates. 3,710,447, 1-16-73, Cl. 33-194.000.
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Howlett, Newel. Food storage and handling system apparatus. 3,731,824, 5-8-73, Cl. 214-16.00b.
Howlett, Robert J.; and Miller, Ronald H., to Container Corporation of America. Foldable support structure. 3,738,604, 6-12-73, Cl. 248-459.000.
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Hoyer, Paul Jean; and Rushmere, John Derek, to Du Pont de Nemours, E. I., and Company. Alkaline cyanide zinc electroplating. 3,734,839, 5-22-73, Cl. 204-55.00y.
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Hoyle, David John; and Whateley, Eric Albert, to Brown, David, Gear Industries Limited. Synchronization devices. 3,752,276, 8-14-73, Cl. 192-53.00e.
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Huang, David H., to United States of America, Air Force. Tension brazed face injector. 3,780,952, 12-25-73, Cl. 239-424.500.
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Hubbard, Glenn R., to Webster Electric Company, Inc. Spool release and sequence valve. 3,724,500, 4-3-73, Cl. 137-624.180.
Hubbard, Harold C., to Motor Wheel Corporation. Electric brake. 3,734,245, 5-22-73, Cl. 188-163.000.
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Hubbard, William C.; Geren, Keith E.; and Sauer, Warren A., to United States of America, Navy. Echo repeater target. 3,721,949, 3-20-73, Cl. 340-3.00e.





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Hubele, Adolf, to Ciba-Geigy AG. Combatting bacteria and fungi with cyanocarbamayloximes. 3,769,423, 10-30-73, Cl. 424-304.000.
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Hubenthal, Aloys. Shut-off fuel tap for motor vehicles or the like. 3,731,703, 5-8-73, Cl. 137-384.200.
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Huboi, Robert W.; Palmer, Osmond F.; and Rising, Bradley D., to Eastman Kodak Company. Apparatus and method of sensing radiation derived from different portions of information bearing media. 3,708,676, 1-2-73, Cl. 250-219.00q.
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Hucker, Arthur A.; and Winter, David F., to Central Transformer, Inc. System for preventing contaminant dispersal in insulating fluid of electrical apparatus. 3,731,029, 5-1-73, Cl. 200-150.00r.
Hucknall, Richard. Pick-resistant lock. 3,762,193, 10-2-73, Cl. 70-419.000.
Hucko, Henry; and Lusignan, Henry T., to General Electric Company. High voltage bushing with removable connector and locking plate. 3,721,946, 3-20-73, Cl. 339-75.00r.
Huckstedt, Guido; and Jakobs, Hermann, to Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V. Method and apparatus for purifying sea water. 3,772,192, 11-13-73, Cl. 210-44.000.
Hudak, Stephen F., to Ashland Oil, Inc. Water-dispersible polyurethanes based on polyesters prepared from carboxy-polyols. 3,759,873, 9-18-73, Cl. 260-75.0nk.
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Hudis, Michael I., to Rexnord Inc. Stringline holder. 3,763,567, 10-9-73, Cl. 33-1.0le.
Hudler, Heinz. Apparatus for detecting unprepared postage stamps. 3,780,310, 12-18-73, Cl. 250-555.000.
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Hudson, Frederick W., to Xerox Corporation. Magnetic gate. 3,717,122, 2-20-73, Cl. 118-636.000.
Hudson, Frederick W. Surface cleaning by ionized flow. 3,743,540, 7-3-73, Cl. 134-1.000.
Hudson, Frederick W., to Xerox Corporation. Xerographic development electrode apparatus. 3,778,144, 12-11-73, Cl. 355-3.0dd.
Hudson, Herbert E., Jr. Filtration system. 3,771,655, 11-13-73, Cl. 210-108.000.
Hudson, James Elmore, Jr., to Simplec Mfg., Co. Bistable circuit controlled sequential damp indicator. 3,747,063, 7-17-73, Cl. 340-109.00r.
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Huebner, Charles Ferdinand, to Ciba-Geigy Corporation. 8-Benzofurylmethyl-1,3,B-triazaspiro(4,5)decanes. 3,759,927, 9-18-73, Cl. 260-293.580.
Huebner, Charles Ferdinand, to Ciba-Geigy Corporation. 1-Aminoalkyl-dibenzo-bicycloalkanes and the salts thereof. 3,766,194, 10-16-73, Cl. 260-295.50s.
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Huelsman, Gregory J.; Bell, Robert E.; and Rohe, Gerald Edward, to Borden Inc. Printing inks comprising a uralkyd. 3,778,395, 12-11-73, Cl. 260-22.0tn.
Huemer, Heinrich; Herrling, Siegfried; and Muckter, Heinrich, to Chemie Gruenenthal GmbH. Benzo-2,3,1-diazoborines. 3,714,206, 1-30-73, Cl. 260-397.700.
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Huettner, Robert E.; Tymann, Edward B.; and Nolin, Richard, to Honeywell Information Systems Inc. Multi function pulling technique. 3,725,871, 4-3-73, Cl. 340-172.500.
Huettner, Robert E.; Tymann, Edward B.; and Nolin, Richard, to Honeywell Information Systems, Inc. Communication control device utilized as an input/output code for a remote terminal system. 3,771,134, 11-6-73, Cl. 340-172.500.
Huettner, Robert E.; and Tymann, Edward B., to Honeywell Information Systems, Inc. Remote terminal system. 3,771,135, 11-6-73, Cl. 340-172.500.
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Hufeld, John L.; Larson, Donald J.; Marsden, Howard A.; Mueller, James P.; and Norick, William B., to Caterpillar Tractor Company. High pressure implement hydraulic circuit. 3,720,221, 3-13-73, Cl. 137-112.000.
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Huffman, Harold W.; and Wilmer, James A., to Hamilton Tool Company, The. Method fo distintegrating a glue string attached to a glue bead by means of a heated wire or the like and after said bead is applied to a web. 3,761,300, 9-25-73, Cl. 117-38.000.
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Huffman, Russell B.; Baker, Stuart J.; Grosslight, Donald P.; and Pace, Aldren M., 1/3 jointly to said Huffman and Baker and 1/3 each to said Grosslight and Pace. Dynamic anhysteretic demagnetization apparatus having pole faces perpendicular to the rotatioal axis. 3,711,750, 1-16-73, Cl. 317-157.500.
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Hug, Karl, to General Motors Corporation. Suspension struts for independent wheel suspension systems of motor vehicles. 3,727,940, 4-17-73, Cl. 280-124.00a.
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Hug, Leonard F.; Grossman, Phillip A.; Young, Roland L.; and Stark, Robert E., to Gates Rubber Company, The. Method for producing a spirally wound electrolytic cell. 3,734,778, 5-22-73, Cl. 136-13.000.
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Humphrey, William E., to Optical Research and Development Corporation. Telescope having immersed mirror stabilizer. 3,761,158, 9-25-73, Cl. 350-16.000.
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Hungerford, Daniel Comstock, to Brunswick Corporation. Twin fluke anchor having improved shank-crown contact. 3,771,486, 11-13-73, Cl. 114-208.00r.
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Hungerford, Philip C., Jr.; Gereby, John L.; and Richens, Robert H., to Cole National Corporation. Key vise. 3,732,781, 5-15-73, Cl. 90-13.050.
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Huniu, Sam, to FMC Corporation. Anti-cavitation system for fluid loading arms. 3,724,499, 4-3-73, Cl. 137-615.000.
Hunka, Robert S.: *See*—
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Hunkar, Denes B., to Hunkar Instrument Development Laboratories, Inc. Control system for parison extruders. 3,712,772, 1-23-73, Cl. 425-141.000.
Hunkar, Denes B., to Hunkar Instrument Development Laboratories, Inc. Extruder control system. 3,759,648, 9-18-73, Cl. 425-140.000.
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Hunnicutt, Wayne E., to Applied Power Industries, Inc. Freely positionable force distributing device. 3,712,108, 1-23-73, Cl. 72-446.000.
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Hunsucker, Jerry H.; and Mudd, Daniel G., to Commercial Solvents Corporation. Polyester resins from polyolamines and phthalic acids. 3,748,309, 7-24-73, Cl. 260-75.00n.
Hunsucker, Jerry Hoyt. Dimethylol propionic acid-urea-aldehyde resins. 3,714,124, 1-30-73, Cl. 260-70.00a.
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Gibble, Walter P., 3,758,532.
Papahronis, Basil T.; and Gibble, Walter P., 3,780,076.
Hunten, Werner, to Ankerwerk Nurnberg GmbH. Closure nozzle for injection molding machines. 3,719,310, 3-6-73, Cl. 222-497.000.
Hunter, Alan D.: *See—*
Grim, John R.; and Hunter, Alan D., 3,726,545.
Hunter, Anthony John; and Forbes, Robert Graham, to A.I. Welders Limited. Friction welding. 3,740,827, 6-26-73, Cl. 29-470.300.
Hunter, Australia. Canine johnny. 3,771,491, 11-13-73, Cl. 119-1.000.
Hunter, Bruce H.: *See—*
Hutchinson, Bruce R.; Hunter, Bruce H.; and Brooks, Robert N., 3,730,112.
Hunter, Bryan J., to E. F. Industries, Inc. Condition sensing apparatus and valve therefor. 3,777,698, 12-11-73, Cl. 116-118.00r.
Hunter, Byron A., to Uniroyal, Inc. Di(higher secondard alkyl) hydroquinones. 3,772,393, 11-13-73, Cl. 260-625.000.
Hunter, Cecil M. Air speed indicator. 3,745,823, 7-17-73, Cl. 73-182.000.
Hunter, Charley W.: *See—*
Craven, Herman R.; Baxendale, John W.; and Hunter, Charley W., 3,752,360.
Hunter, Don L.: *See—*
Strong, Philip L.; Hunter, Don L.; and LeFevre, Cecil W., 3,716,585.
Strong, Philip L.; Hunter, Don L.; and Le Fevre, Cecil W., 3,764,624.
Woods, William G.; Hunter, Don L.; Stone, James D.; and Le Fevre, Cecil W., 3,764,625.
Hunter, Don L.; Kitasaki, Kiyoshi; and Le Fevre, Cecil W., to United States Borax & Chemical Corporation. Herbicidal compounds and methods. 3,757,016, 9-4-73, Cl. 260-247.20b.
Hunter, Don L.; Woods, William G.; Stone, James D.; and Le Fevre, Cecil W. Herbicidal dinitro-1,3-phenylenediamine compounds. 3,764,623, 10-9-73, Cl. 260-573.000.
Hunter, Donald B.: *See—*
Parris, Warren M.; and Hunter, Donald B., 3,756,810.
Hunter, Douglas, International N.V.: *See—*
Edixhoven, Gerardus Hendrikus, 3,736,631.
Edixhoven, Gerardus Hendrikus, 3,766,815.
Hunter, E. Bruce, to Golden West Broadcasters. Solid state switcher for radio broadcast programming. 3,757,139, 9-4-73, Cl. 307-251.000.
Hunter, Edward A.; and Muenker, Adolf H., to Esso Research and Engineering Company. High-energy propellants with polymeric fluoro-amino binder and hydrozine diperchlorate. 3,741,829, 6-26-73, Cl. 149-19.000.
Hunter, Edwin J.: *See—*
Ertsgaard, Byron L.; and Hunter, Edwin J., 3,727,842.
Hunter, Edwin J., to Toro Manufacturing Corporation. Powered sprinkler. 3,713,584, 1-30-73, Cl. 239-206.000.
Hunter, Edwin J., to Moist O'Matic; division of Toro Manufacturing Corporation. Extended range sprinkler head. 3,716,192, 2-13-73, Cl. 239-205.000.
Hunter, Edwin J., to Toro Manufacturing Corporation. Apparatus and method for drilling an arcuate bore from ground surface under an obstruction to ground surface. 3,720,272, 3-13-73, Cl. 175-61.000.
Hunter, Edwin J., to Toro Manufacturing Corporation. Backflow preventing valve construction. 3,724,487, 4-3-73, Cl. 137-218.000.
Hunter, Edwin J., to Moist O'Matic; division of Toro Manufacturing Corporation. Rotary pop-up sprinkler. 3,724,757, 4-3-73, Cl. 239-205.000.
Hunter, Edwin J.; and Walto, Joseph, to Toro Manufacturing Corporation. Water valve apparatus. 3,735,772, 5-29-73, Cl. 137-15.000.
Hunter, Edwin J., to Toro Manufacturing Corporation. Automatic controller drive mechanism. 3,735,779, 5-29-73, Cl. 137-624.200.
Hunter Electronics, Inc.: *See—*
Martin, Stephen J., 3,742,142.
Hunter Engineering Co.: *See—*
Braun, Curt, 3,727,820.
Hunter Engineering Co., Inc.: *See—*
Gomp, Theodore Q., 3,737,280.
Hunter Engineering Company: *See—*
Senften, David A., 3,772,919.
Hunter, Herbert F. Radius cutter. 3,774,279, 11-27-73, Cl. 29-103.00r.
Hunter, Irving R.; and Walden, Mayo K., to United States of America, Agriculture. 1,4,5,6-Tetrahydro-2-acetopyridine, its salts and bisulphite addition products, and synthesis thereof. 3,725,425, 4-3-73, Cl. 260-297.00r.
Hunter, James B., to Bishop, Matthey, Inc. Catalyst supporting structure. 3,776,701, 12-4-73, Cl. 23-288.00r.
Hunter, James R.: *See—*
Wojtowicz, Edward A.; Hunter, James R.; and Lazzarotti, S. James, 3,779,546.
Hunter, James T. Golf putter. 3,779,398, 12-18-73, Cl. 273-183.00d.
Hunter, Joe S.: *See—*
Stripling, William W.; and Hunter, Joe S., 3,752,998.
Hunter, Joe S.; Bailey, Escar L.; and Little, Little J., to United States of America, Army. Flueric direct-impact modulator accelerometer. 3,768,316, 10-30-73, Cl. 73-515.000.
Hunter, Joe S.; Bailey, Escar L.; and Little, Little J., to United States of America, Army. Flueric transverse-impact modulator accelerometer. 3,771,369, 11-13-73, Cl. 73-515.000.
Hunter, John C.; and Beard, Albert L., to Honeywell Information Systems, Inc. Method and apparatus for communicating devices each performing preprocessing operations on data autonomously of the central processor. 3,710,328, 1-9-73, Cl. 340-172.500.
Hunter, John Earl, to Procter & Gamble Company, The. Protein supplemented clear fruit jellies. 3,749,588, 7-31-73, Cl. 99-132.000.
Hunter, John J. Process for lining pipe joints. 3,758,361, 9-11-73, Cl. 156-287.000.
Hunter, John P., Jr.; and George, Erie, to Oxford Industries, Inc. System of making waistbands with crimped belt loops, labels and tickets. 3,710,398, 1-16-73, Cl. 2-236.000.
Hunter, John P., Jr.; and Huddleston, Erie George, to Oxford Industries, Inc. System of making waistbands with crimped belt loops, labels and tickets. 3,752,099, 8-14-73, Cl. 112-121.270.
Hunter, Joseph E., Jr.: *See—*
Mollica, Richard J., Jr.; Hunter, Joseph E., Jr.; and Bladzik, Kenneth R., 3,729,805.
Hunter, Keith Ellis: *See—*
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Hunter, Patrick L., to North Electric Company. Variable flux-reset ferroresonant voltage regulator. 3,739,257, 6-12-73, Cl. 323-50.000.
Hunter, Phillip S., to Burke Concrete Accessories, Inc. Retention clip for concrete slab key joint forming strips. 3,736,013, 5-29-73, Cl. 287-189.350.
Hunter, Raymond E., to Ocean Design Engineering Corporation. Method for separating oil from water surface. 3,723,307, 3-27-73, Cl. 210-33.000.
Hunter, Richard C., to Bailey Meter Company. Differential pressure transmitter overrange protection. 3,756,085, 9-4-73, Cl. 73-407.00r.
Hunter, Richard F., to General Electric Company. Method of protecting a metallic surface from corrosion and resultant article. 3,762,939, 10-2-73, Cl. 117-75.000.
Hunter, Robert H., to ICI America Inc. Purification of polyglycerols. 3,742,069, 6-26-73, Cl. 260-615.00r.
Hunter, Robert Tweedy, Jr.: *See—*
Compa, Russell Edward; Fischer, Charles Frederick; Hunter, Robert Tweedy, Jr.; and Odioso, Raymond Camillus, 3,708,425.
Hunter, Skillman C.: *See—*
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Norman, Leslie W.; and Hunter, Skillman C., 3,777,487.
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Hagerty, William K.; and Hunter, Travis L., 3,744,291.
Hunter, Willard L.: *See—*
Stickney, William A.; Hunter, Willard L.; Elger, Gerald W.; and Rhoads, Stanley C., 3,739,061.
Hunter, William A., to Chrysler Corporation. Overfill limiting apparatus and liquid vapor separator. 3,771,690, 11-13-73, Cl. 220-85.0vr.
Hunter, William W., Jr. Injectable radio-pharmaceutical scanning agent and preparation. 3,720,761, 3-13-73, Cl. 424-1.000.



Hunting Oilfield Services Limited: *See—*
Mitchell, David Thomas Somerled; and Melsom, Henry Roy Francis, 3,775,805.
Huntingdon Industries Incorporated: *See—*
Ullman, John E., 3,728,841.
Huntington, Fred A., to RCBS, Inc. Primer orientation tray. 3,748,950, 7-31-73, Cl. 86-24.000.
Huntington, Fred R., to Galigher Company, The. Rotary sample collector. 3,716,167, 2-13-73, Cl. 222-63.000.
Huntington, Fred R., to Galigher Company, The. Rotary arcual sample for particulate materials. 3,727,739, 4-17-73, Cl. 193-31.000.
Huntington, Richard L. Flue gas recovery method and apparatus. 3,733,777, 5-22-73, Cl. 55-48.000.
Huntington, Richard L. Blower and fan wheel apparatus. 3,744,929, 7-10-73, Cl. 416-145.000.
Huntington, Robert C.; and Wood, Lewis, to Motorola, Inc. Strip transmission line broadband 4:1 impedance transformer. 3,729,694, 4-24-73, Cl. 333-33.000.
Huntjens, Johannes Franciscus: *See—*
Leeuwerik, Cornelis Jan; Huntjens, Johannes Franciscus; and Vrouenraets, Cornelis Martinus Franciscus, 3,753,953.
Huntley, Wright H., Jr., to Holograf Corporation. Interferometer utilizing gratings to measure motion. 3,738,753, 6-12-73, Cl. 356-111.000.
Huntoon, Francis E.; and Kearney, James F., to Teletype Corporation. Endless carrier printer. 3,742,848, 7-3-73, Cl. 101-93.00c.
Huntoon, Richard T.: *See—*
Smith, Paul K.; Huntoon, Richard T.; and Mosley, Wilbur C., Jr., 3,778,295.
Huntsinger, Dean P., to Collins Radio Company. Digital modulo complementary phase detector. 3,727,145, 4-10-73, Cl. 329-104.000.
Huntzinger, Elwood E.; and Schwartz, Nelson N., to Air Products and Chemicals, Inc. Cell stabilizer for vinyl resin foams. 3,717,595, 2-20-73, Cl. 260-2.50p.
Huntzinger, Gerald O.; Sheldrake, Leonard J.; and Johnson, Byron W., to General Motors Corporation. Electronic ignition spark advance system. 3,738,339, 6-12-73, Cl. 123-117.00r.
Hunziker, Fritz: *See—*
Schmitz, Jean; Hunziker, Fritz; and Kunzle, Franz Martin, 3,751,415.
Schmutz, Jean; Hunziker, Fritz; and Kunzie, Franz Martin, 3,726,977.
Hunziker, Fritz; Schmutz, Jean; and Kunzle, Franz Martin, to Sandoz-Wander, Inc. Trifluoromethylthio substituted dibenz [b,f] [1,4] oxazepines. 3,717,637, 2-20-73, Cl. 260-268.0tr.
Hunzinger, Jean-Jacques, to U.S. Philips Corporation. Objective system consisting of a diaphragm and a single lens. 3,764,198, 10-9-73, Cl. 350-190.000.
Hupfeld, Karl-Otto: *See—*
Espenschied, Helmut; Kadelbach, Volker; Rothfuss, Georg; Scheyhing, Hans; Mattes, Bernhard; Burkel, Rainer; Erben, Ernst; Hupfeld, Karl-Otto; and Weyer, Herbert, 3,756,358.
Hupp, Gerhard; and Vorgrimler, Ludwig, to Messrs. Mauser-Werke Aktiengesellschaft. Cartridge feeder device for automatic firearms with a drive mechanism independent of the breechblock. 3,735,667, 5-29-73, Cl. 89-33.0ca.
Huppert, K. H., Co.: *See—*
Huppert, Karl H.; and Schipitsh, Stephen J., 3,735,800.
Huppert, Karl H.; and Schipitsh, Stephen J., to Huppert, K. H., Co. Centrifugal casting machine. 3,735,800, 5-29-73, Cl. 164-250.000.
Huprich, Carl A. Insulated overhead door for trucks and the like. 3,724,526, 4-3-73, Cl. 160-368.00r.
Huras, Robert J.; and Lautenschlager, Eric G. Coil spring assembly. 3,774,248, 11-27-73, Cl. 5-267.000.
Hurco Manufacturing Company, Inc.: *See—*
Roch, Gerald V., 3,757,645.
Hurd, Edward T. E., III, to Honeywell Inc. Bar-graph display apparatus. 3,739,222, 6-12-73, Cl. 315-22.000.
Hurd, Stanley E., to Motch & Merryweather Machinery Company, The. Article decelerator for air conveyor. 3,761,134, 9-25-73, Cl. 302-31.000.
Hurd, William J.: *See—*
United States of America, National Aeronautics and Space Administration, 3,729,736.
Hurd, William J., to California Institute of Technology. Wideband digital pseudo-gaussian noise generator. 3,742,381, 6-26-73, Cl. 331-78.000.
Hure S.A.: *See—*
Guilleray, Roger, 3,745,619.
Hurewitz, Arthur: *See—*
Spiegel, Jacob; and Hurewitz, Arthur, 3,711,961.
Huriez, Claude, to Cables de Lyon Alsacienne. Method of welding an electric cable sheathing employing a heat-shrinkable thermal screen. 3,758,353, 9-11-73, Cl. 156-52.000.
Hurkamp, Charles H., to Lockheed Aircraft Corporation. Cargo aircraft having increased payload capacity versus weight. 3,774,864, 11-27-73, Cl. 244-13.000.
Hurkmans, Antoon M.: *See—*
Olney, Nathaniel M.; Hurkmans, Antoon M.; Barrett, Edward E.; and Leff, Martin J., 3,758,016.
Hurlbert, Clifford F., to Boeing Company, The. Aircraft wing airflow control system. 3,721,406, 3-20-73, Cl. 244-42.00d.
Hurlburt, Charles E.; and Lanni, Michael J., to Bendix Corporation, The. Antifriction bearing with compensating flexural pivot in a free axis gyroscope. 3,722,296, 3-27-73, Cl. 74-5.000.
Hurlburt, Charles E., to Bendix Corporation, The. Speed reducing bearing arrangement for a mechanically erected vertical gyro. 3,727,467, 4-17-73, Cl. 74-5.410.
Hurlburt, Charles E., to Bendix Corporation, The. Electromagnetic gyro torquer. 3,741,020, 6-26-73, Cl. 74-5.460.
Hurlburt, Joseph C., to Sperry Rand Corporation. Cutter bar for mower. 3,722,195, 3-27-73, Cl. 56-245.000.
Hurlburt, Joseph C., to Sperry Rand Corporation. Reel drive train. 3,724,183, 4-3-73, Cl. 56-14.300.
Hurlburt, Joseph C.; and Stohler, John L., to Sperry Rand Corporation. Anti-lowering device for a loader boom. 3,730,362, 5-1-73, Cl. 214-140.000.
Hurlbut, William B., Sr.; Liebig, Preston D.; and Maurin, Peter G., to Combustion Engineering, Inc. Demister vane assembly. 3,757,498, 9-11-73, Cl. 55-440.000.
Hurlbut, William B., Sr.; and Liebig, Preston D., to Combustion Engineering, Inc. Method for forming pipe with integral hole or nozzle pattern. 3,765,980, 10-16-73, Cl. 156-175.000.
Hurlebaus, Richard P., to Budd Company, The. Method of monitoring a welding operation. 3,726,130, 4-10-73, Cl. 73-67.80r.
Hurlemann, Ernst, to Werkzeugmaschinen-Fabrik Oerlikon Buhrle AG. Automatic firearm. 3,713,363, 1-30-73, Cl. 89-185.000.
Hurley, Donald L.; and Talmage, Charles R. Apparatus for compacting granular material. 3,764,244, 10-9-73, Cl. 425-78.000.
Hurley, Edward, Jr.: *See—*
Holovka, John M.; and Hurley, Edward, Jr., 3,718,701.
Norton, Charles J.; and Hurley, Edward, Jr., 3,720,710.
Hurley, Eldon K.; Maule, Robert S.; Musso, Rocco C.; and Smith, Lowell E., to Hercules Incorporated. Chemical gas generating device for an automobile safety system. 3,715,131, 2-6-73, Cl. 280-150.0ab.
Hurley, Michael; and Declerck, James J. Putt-cue device with two different sized striking heads. 3,771,788, 11-13-73, Cl. 273-68.000.
Hurley, Thomas J.; and Robinson, Martin A., to Olin Corporation. Preparation of aromatic isocyanates. 3,781,321, 12-25-73, Cl. 260-453.0pc.
Hurley, Thomas P.; and McAdams, Arthur C., Jr., to Sprague Electric Company. Ceramic slip composition. 3,717,487, 2-20-73, Cl. 106-48.000.
Hurlimann, Ernst: *See—*
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Hurlock, Ronald James: *See—*
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Huron Products Company: *See—*
Pierce, Don C., Jr., 3,721,384.
Huron Tool and Mfg. Co.: *See—*
Oldford, William G., 3,749,250.
Hurrell, Ronald Arthur. Plate valves. 3,747,630, 7-24-73, Cl. 137-312.000.
Hurricane International: *See—*
Coats, George F., 3,747,585.
Hurschman, Alfred A.; to Ampoules, Inc. Variable dosage ampoule applicator. 3,729,003, 4-24-73, Cl. 128-218.0da.
Hurschman, Alfred A.; and Schiller, Thomas P., to Ampoules Inc. Hypodermic devices. 3,735,761, 5-29-73, Cl. 128-218.00m.
Hursh, Jack E.: *See—*
Ballou, Clayton R., 3,742,662.
Hurson, Frank W., to Canadian Char-Co., Ltd. Odor adsorption. 3,739,558, 6-19-73, Cl. 55-387.000.
Hurst, Alvin L., to Aluminum Company of America. Method of fabricating composite multi-metallic billets useful for metal working operations. 3,780,418, 12-25-73, Cl. 29-420.000.
Hurst, David T., to Dyco Incorporated. Battery latching mechanism. 3,729,694, 4-17-73, Cl. 339-91.00r.
Hurst, Frank Carl, to Chrysler Corporation. Exhaust emission control for internal combustion engines utilizing an electrically heated choke. 3,768,453, 10-30-73, Cl. 123-119.00f.
Hurst, Fred J.; and Crouse, David J., to United States of America, Atomic Energy Commission. Reductive stripping process for the recovery of uranium from wet-process phosphoric acid. 3,711,591, 1-16-73, Cl. 423-10.000.
Hurst, George E., to Pollution Control Engineering, Inc. Apparatus for treating waste fluids by means of dissolved gases. 3,773,179, 11-20-73, Cl. 210-194.000.
Hurst, George H.; and Cambria, Emanuel F., to Hurst Performance Inc. Shift control assembly. 3,779,096, 12-18-73, Cl. 74-476.000.
Hurst, George W.; and Colwell, William C., Jr., to University of Kentucky Research Foundation, The, mesne. Sensor package for electrical sensing of plane coordinates and method of preparing the same. 3,735,023, 5-22-73, Cl. 174-117.0ff.
Hurst, Gerald Covington; and Belasco, Alan, to Whiley, George M., Limited. Transfers. 3,708,320, 1-2-73, Cl. 117-3.300.



Hurst, Gerald L., to Kinetics International Corporation. Porous parti-
Hurwitz, Mathew. Automatic recording sphygmomanometer.



Husome, Robert C., to Avco Corporation. C

Hurst, Gerald L., to Kinetics International Corporation. Porous particles containing dispersed organic liquid and gaseous components. 3,718,512, 2n27-73, Cl. 149-2.000.

Hurst, Gerald L., to Kinetics International Corporation. Method of petonating an ammonium nitrate liquid fuel composition with a number 6 cap. 3,722,410, 3-27-73, Cl. 102-23.000.

Hurst, Herbert N. Ossicle replacement prosthesis. 3,710,399, 1-16-73, Cl. 3-1.000.

Hurst, James: *See—*
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Hurst, James A. Adhesive tape dispenser and tube former. 3,747,483, 7-24-73, Cl. 93-80.000.

Hurst, John, to Grace, W. R., & Co. Novel sealants and adhesives. 3,741,856, 6-26-73, Cl. 161-88.000.

Hurst, John. Method of sealing shuttering against a deformable section of an external waterstop for use in forming joints in concrete. 3,758,650, 9-11-73, Cl. 264-34.000.

Hurst Performance, Inc.: *See—*
Hobbins, James F., 3,765,261.
Hurst, George H.; and Cambria, Emanuel F., 3,779,096.
Mc Junkin, Howard P., Jr., 3,711,079.

Hurst, Robert H., to Clevepak Corporation. Antipollution exhaust system for an internal combustion. 3,712,065, 1-23-73, Cl. 60-274.000.

Hurst, Robert L., to Ball Corporation. Method for handling articles. 3,712,450, 1-23-73, Cl. 198-25.000.

Hurst, Robert L., to Ball Corporation. Apparatus for transferring articles. 3,712,453, 1-23-73, Cl. 198-41.000.

Hurst, Robert L., to Ball Corporation. Apparatus for producing closures. 3,745,953, 7-17-73, Cl. 113-1.00d.

Hurst, Thomas P., to Illinois Tool Works Inc. Rivet setting apparatus. 3,724,738, 4-3-73, Cl. 227-147.000.

Hurst, Vernon J. Viscosity reduction of kaolin by hydrothermal treatment. 3,765,825, 10-16-73, Cl. 432-18.000.

Hurst, Vernon J. Hydrothermal transformation of kaolin. 3,769,383, 10-30-73, Cl. 423-328.000.

Hurt, Harmon, to General Motors Corporation. Brake actuator and adjuster mechanism. 3,767,016, 10-23-73, Cl. 188-71.900.

Hurt, John M., Jr. Index card filing system. 3,780,460, 12-25-73, Cl. 40-78.000.

Hurt, Robert H. Power hand truck. 3,713,501, 1-30-73, Cl. 180-9.220.

Hurt, William S.: *See—*
Bayer, Horst O.; and Hurt, William S., 3,708,591.
Bayer, Horst O.; and Hurt, William S., 3,755,512.

Hurtado, Alec; and Fontes, Eugene A. Angular viewing device. 3,744,885, 7-10-73, Cl. 350-307.000.

Hurtado, Jean: *See—*
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Hurth, Carl, Maschinen- und Zahnradfabrik: *See—*
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Hurtig, Carl R.: *See—*
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Hurtig, Gunnar, III, to Kinetic Technology, Inc. Filter network having negative feedback loops. 3,720,881, 3-13-73, Cl. 330-107.000.

Hurtig, Gunnar, III, to Kinetic Technology, Inc. Active filter network having a variable center frequency. 3,760,289, 9-18-73, Cl. 330-51.000.

Hurtig, Roy Eugene; Geri, Don Winston; and Becker, Paul Horst, to Memorex Corporation. Diazo film developer. 3,720,150, 3-13-73, Cl. 95-94.00g.

Hurtle, Ralph L., to General Electric Company. Vapor-state limiter with high pressure housing. 3,735,309, 5-22-73, Cl. 337-21.000.

Hurtle, Richard LaVerne: *See—*
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Hurtmanns, Heinz: *See—*
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Hurtubise, Horace. Cutting tool for pelts or the like. 3,724,071, 4-3-73, Cl. 30-287.000.

Hurue, Motoi. Toy calculator for education. 3,743,750, 7-3-73, Cl. 35-31.00d.

Hurum Shipping & Trading Company, Ltd.: *See—*
Fossberg, Robert A., 3,740,955.

Huruse, Mituhiro, to Kabushiki Kaisha Meidensha. Phase unbalance or open-phase detecting apparatus. 3,745,375, 7-10-73, Cl. 307-231.000.

Hurwitt, Steven, to Materials Research Corporation. Target mounting device for sequential sputtering. 3,756,939, 9-4-73, Cl. 204-298.000.

Hurwitz, Henry, Jr.: *See—*
Daniel, David J. Ben; Fielding, John O.; and Hurwitz, Henry, Jr., 3,740,055.

Hurwitz, Mathew. Thawer-cooker. 3,769,902, 11-6-73, Cl. 99-472.000.

Hurwitz, Mathew. Automatic recording sphygmomanometer. 3,771,515, 11-13-73, Cl. 128-2.05g.

Hurwitz, Michael J., to Westinghouse Electric Corporation. Ultrasonic inspection apparatus. 3,709,029, 1-9-73, Cl. 73-67.80r.

Hurx, Ardianus Antonius: *See—*
Boekkooi, Anton; Hurx, Ardianus Antonius; Van Der Tas, Johannes Cornelis; and Meulemans, Charles Cornelis, 3,721,515.

Husain-Abidi, Akram S.: *See—*
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Husband, Edwin H.: *See—*
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Husbands, George E. M.; and Stein, Reinhardt P., to American Home Products Corporation. Biologically active 17 alpha-ethynyl-16, 17-dihydroxy-13-alkygonanes. 3,734,935, 5-22-73, Cl. 260-397.400.

Husbands, Keith Ronald Frederick; and Dawson, John, to Plessey Handel und Investments A.G. Electrical timing device. 3,732,442, 5-8-73, Cl. 307-304.000.

Husband's Shipyards Limited: *See—*
Duncan, John; and Hart, Graham Arthur Nigel, 3,724,413.

Husch, Albert; Kemenes, Franz; and Pregel, Ludwig, to Ford Motor Company. Switch within a motor vehicle door lock mechanism. 3,715,536, 2-6-73, Cl. 200-64.640.

Huschle, Peter: *See—*
Ettischer, Helmut; Steisslinger, Kurt; and Huschle, Peter, 3,779,145.

Huseby, Robert A., to Smith, A. O., Inland, Inc. Atomized steel powder having improved hardenability. 3,725,142, 4-3-73, Cl. 148-16.000.

Huseman, Francis R. Tread frame and detachable drive sprocket support. 3,750,779, 8-7-73, Cl. 180-9.620.

Husen, Gerhard J., to Hygrade Food Products Corporation. Conveyor press. 3,734,007, 5-22-73, Cl. 100-152.000.

Hushon, James R.: *See—*
Hushon, James R.; and Price, Sidney M. (said Price assor. to said), 3,717,306.

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Husko, John P.: *See—*
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Husky Briquetting, Inc.: *See—*
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Husky Corporation: *See—*
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Husky Manufacturing & Tool Works Limited: *See—*
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Huslin, Theodore J., Jr., to Moore Products Co. Calibrating devices. 3,771,346, 11-13-73, Cl. 73-1.00b.

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Husome, Robert G., to Acurex Corporation. Optical label inspecting apparatus. 3,749,923, 7-31-73, Cl. 250-223.000.

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Huson, Gale: *See—*
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Huss, Heinrich. Apparatus for developing photographic recording materials. 3,772,981, 11-20-73, Cl. 95-96.000.

Hussain, Ali Ghalib Mohammed, to Colgate-Palmolive Company. Production of granular mixtures. 3,773,671, 11-20-73, Cl. 252-89.000.

Hussain, Anwar: *See—*
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Hussey, George D.: *See—*
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Hussong, George Richard. Method for the manufacture of coke. 3,736,248, 5-29-73, Cl. 208-46.000.

Hustead, Ralph L. Universal pitch, hinged clamp roof support. 3,749,428, 7-31-73, Cl. 287-20.950.

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Huster, Franz Josef. Method of preparing hardenable plastics comprising condensing mixed aryl borates with HcHo. 3,728,307, 4-17-73, Cl. 260-51.00r.

Huster, Heinrich: *See—*
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Husz, Charles, to Transco Inc. Insulated expansion joint. 3,759,008, 9-18-73, Cl. 52-573.000.

Huszar, Josef; and Schon, Konrad, to Gebr. Bohler & Co. Aktiengesellschaft. Drilling support for a rock perforator. 3,709,097, 1-9-73, Cl. 173-44.000.

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Hutchens Industries: *See—*
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Hutcheson, Guilford J.: *See—*
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Hutcheson, William H.: *See—*
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Hutchings, Thomas J.; and Winocur, Joseph, to North American Rockwell Corporation. Minimizing frequency locking in ring laser gyroscopes. 3,752,586, 8-14-73, Cl. 356-106.01r.

Hutchins, James P., to Procter & Gamble Company, The. Preparation of fatty acid ester mixtures enriched in unsaturates. 3,755,385, 8-28-73, Cl. 260-410.90r.

Hutchins, Robert L.: *See—*
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Hutchins, Thomas B., IV; and Templeton, William M., to Tektronix, Inc. Direct viewing storage tube having mesh halftone target and nonmesh bistable target. 3,710,173, 1-9-73, Cl. 315-12.000.

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Hutchinson, Arthur H.: *See—*
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Hutchinson, Bruce R.; Hunter, Bruce H.; and Brooks, Robert N., to Silent Glow Corporation. Incineration systems and methods. 3,730,112, 5-1-73, Cl. 110-8.00r.

Hutchinson, Herman R.; Arpajian, Vasken F.; and Malcomson, Robert S., to Pennwalt Corporation. Time monitored injection molding cycle with timed pressure control. 3,741,700, 6-26-73, Cl. 425-159.000.

Hutchinson, James T., Jr.: *See—*
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Hutchinson, Mark Earle, to American Velcro, Inc. Mirrors having stretched reflective sheet materials. 3,733,116, 5-15-73, Cl. 350-288.000.

Hutchinson, William M., to Collins Radio Company. Minimum shift keying modulating apparatus. 3,731,233, 5-1-73, Cl. 332-9.00r.

Hutchinson, William M.; and Middlestead, Richard W., to Collins Radio Company. Data demodulator apparatus. 3,743,775, 7-3-73, Cl. 178-88.000.

Hutchinson, William Y.; and Kushmuk, Walter P., to Continental Scale Corporation. Weighing and height measuring device. 3,724,574, 4-3-73, Cl. 177-210.000.

Hutchinson, William Y.; and Kusmuk, Walter P., to Continental Scale Corporation. Collapsible weighing scale. 3,743,040, 7-3-73, Cl. 177-126.000.

Hutchison, David John, to Monostruct Corporation Limited. Molded structural panel. 3,753,843, 8-21-73, Cl. 161-43.000.

Hutchison, James Moffat: *See—*

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Hutchison, John W., to Pullman Incorporated. Hydraulic cushion device for railway vehicles. 3,743,109, 7-3-73, Cl. 213-43.000.

Hutchison, Michael Raymond: *See—*
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Hutchison, Miller R., Jr., to Eastman Kodak Company. Device for converting linear motion to rotational motion. 3,724,283, 4-3-73, Cl. 14-99.000.

Hutchison, Patrick F., to Standum, Inc. Metallic can body strippers and the like. 3,735,628, 5-29-73, Cl. 72-344.000.

Hutchison, Robert B., to Emery Industries, Inc. Compositions useful as sperm oil substitutes. 3,740,333, 6-19-73, Cl. 252-48.600.

Hutchison, Robert B., to Emery Industries, Inc. Useful wax compositions. 3,745,033, 7-10-73, Cl. 106-270.000.

Hutchison, Stanley O., to Chevron Research Company. Apparatus for handling well elements. 3,710,954, 1-16-73, Cl. 214-2.500.

Hutchison, Stanley O., to Chevron Research Company. High pressure jet well cleaning. 3,720,264, 3-13-73, Cl. 166-311.000.

Hutchison, Stanley O.; and Anderson, Glen W., to Chevron Research Company. Well circulation fluid for use in permafrost. 3,727,703, 4-17-73, Cl. 175-69.000.

Huthcins, Thomas B., IV; and Edwards, Miles Lowell. Catheter tip pressure transducer. 3,710,781, 1-16-73, Cl. 128-2.05d.

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Hutner, Mark A., to Xerox Corporation. Selective fusing. 3,743,779, 7-3-73, Cl. 219-216.000.

Hutner, Mark A., to Xerox Corporation. Selective fusing. 3,745,304, 7-10-73, Cl. 219-216.000.

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Hutsinger, Dean P., to Collins Radio Company. Digital harmonic rejecting phase detector. 3,723,890, 3-27-73, Cl. 329-50.000.

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Hutson, Thomas, Jr.; and Ritter, Ronald E., to Phillips Petroleum Company. Method of controlling an oxidative dehydrogenation. 3,709,951, 1-9-73, Cl. 260-680.00e.

Hutson, Thomas, Jr.; and Carter, Cecil O., to Phillips Petroleum Company. Recovery of alkyl fluoride in alkylation of isoparaffin with ethylene and a higher olefin promoter. 3,751,517, 8-7-73, Cl. 260-683.480.

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Hutson, Thomas, Jr.; and Carter, Cecil O., to Phillips Petroleum Company. Extraction of alkyl fluoride from an alkylate hydrocarbon with a lean HF acid. 3,767,726, 10-23-73, Cl. 260-683.420.

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Hutson, Tom, Jr.; and Carter, Cecil O., to Phillips Petroleum Company. Hydrogen fluoride recovery method. 3,716,593, 2-13-73, Cl. 260-653.600.

Hutson, Tom, Jr.; and Carter, Cecil O., to Phillips Petroleum Company. Refrigerating cooled recycled isobutane in alkylation. 3,775,510, 11-27-73, Cl. 260-683.410.

Hutt, Bruce L.: *See—*
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Hutt, Clyde B. Collapsible side rail assembly for hospital bed. 3,747,133, 7-24-73, Cl. 5-331.000.

Hutt, Peter Murray Bruce; and Gormley, Ian Gavin, to Swingball Investments (Proprietary) Limited. Hollow ball including flexible tethering line. 3,729,195, 4-24-73, Cl. 273-58.00c.

Huttemann, Werner. Apparatus for continually cutting blanks with tridimensional surfaces from foam or the like material. 3,730,031, 5-1-73, Cl. 83-4.000.

Huttenhoff, John Harry, to Bell Telephone Laboratories, Incorporated. Data field transfer and modification apparatus. 3,747,070, 7-17-73, Cl. 340-172.500.

Huttenlocher, Dieter: *See—*
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Hutter, Wayne R., to Dow Chemical Company, The. Scraping and cleaning device. 3,754,831, 8-28-73, Cl. 401-139.000.

Hutter, Wilhelm, to Becker & Van Hullen Niederrheinische Maschinenfabrik. Process and device for separating the press boards pressed on loading plates in a press especially a daylight press. 3,761,337, 9-25-73, Cl. 156-247.000.

Huttinger, Walter G., to Campbell Chain Company. Pocket wheel for weldless chain. 3,766,791, 10-23-73, Cl. 74-245.00h.

Huttinger, Wilhelm; Von Almasy, Heinz; and Buchwald, Joachim. Sodium tripolyphosphate. 3,770,644, 11-6-73, Cl. 252-135.000.

Hutto, Billy D. Heater device for a firearm. 3,742,635, 7-3-73, Cl. 42-1.00r.

Hutto, Billy D. Barge interconnection system. 3,756,184, 9-4-73, Cl. 114-235.00r.

Hutto, Robert J.: *See—*
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Hutton, Gerald E., to American Telephone and Telegraph Company. Communication call holding circuit. 3,725,600, 4-3-73, Cl. 179-99.000.

Hutton, Jonathan; and Stacey, Gilbert Joseph, to Imperial Chemical Industries Limited. Phenylfuran- and phenylthiophene-alkanols and derivatives thereof. 3,721,681, 3-20-73, Cl. 260-332.30r.

Hutton, Jonathan; and Stacey, Gilbert Joseph, to Imperial Chemical Industries Limited. 4-(4-Bromophenyl)-2-(2-hydroxyisopropyl) thiazole. 3,770,755, 11-6-73, Cl. 260-302.00r.

Hutton, Larry D.: *See—*
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Hutton, Philip F., to Eastman Kodak Company. Photographic process. 3,767,448, 10-23-73, Cl. 117-34.000.

Hutton, Walter C. Fusion tool. 3,723,229, 3-27-73, Cl. 156-580.000.

Hutton, Walter C. Service tap tool. 3,756,267, 9-4-73, Cl. 137-318.000.

Hutton, Wilfred H.: *See—*
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Hutzenlaub, Armin S. P., to Kampf, Erwin, Maschinenfabrik. Web drive and web processing controls for web processing machines. 3,759,432, 9-18-73, Cl. 226-42.000.

Hutzenlaub, Armin S. P.; and Durhager, Paul-Gerhard, to Inta-Roto, Inc. Strip spacing apparatus. 3,765,616, 10-16-73, Cl. 242-56.500.

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Huver, Lawrence L.: *See—*
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Huvers, Marius E., to Canadian Limited. Yaw control system for an air vehicle. 3,735,945, 5-29-73, Cl. 244-17.190.

Huvey, Michel; and Le Meur, Germain, to Institut Francais du Petrole des Carburants et Lubrifiants and Societe Anonyme pour Tous Appareillages Mecaniques (S.A.T.A.M.). Safety piping for fluid conveyance. 3,744,505, 7-10-73, Cl. 137-68.000.

Huwil-Werke Hugo Willach & Sohne: *See—*
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Huwyler, Ernst; and Wenzel, Heinrich, to Aktiengesellschaft Brown, Boveri & Cie. Cover lifting-and swinging mechanism for a tiltable furnace. 3,751,854, 8-14-73, Cl. 263-46.000.





Huxley, Thomas C., III, to Del Mar Engineering Laboratories. Lazy tong type boom structure with extension aid. 3,750,846, 8-7-73, Cl. 182-141.000.

Huxsoll, Charles C.; and Homnick, Douglas N., to United States of America, Agriculture. Preparation of pre-fried food products. 3,745,019, 7-10-73, Cl. 99-83.000.

Huxsoll, Charles C.; Graham, Robert P.; and Weaver, Merle L., to United States of America, Agriculture. Process for peeling potatoes. 3,759,160, 9-18-73, Cl. 99-233.500.

Huxsoll, Charles C.; and Ponting, James D., to United States of America, Agriculture. Preservation of peaches for subsequent processing. 3,764,348, 10-9-73, Cl. 426-310.000.

Huybrechts, Roger Joseph: *See—*
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Kienzl, Arnold F.; and Thorp, Benjamin Adelbert, 3,738,911.
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Huyffer, Paul S., to Polaroid Corporation. 7-Sulfamoyl indole derivatives. 3,772,329, 11-13-73, Cl. 260-326.12r.

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Hvoslef, Peer. Life-boats. 3,717,889, 2-27-73, Cl. 9-4.00r.

Hwa, Chih M.; and Moran, Ralph T., to Chemed Corporation. Compositions and method for inhibiting scaling in aqueous systems. 3,766,077, 10-16-73, Cl. 252-180.000.

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Hwang, Kao: *See—*
Gaston, Claude; and Hwang, Kao, 3,755,579.

Hwang, Kao; and Ratajczyk, James Daniel, to Abbott Laboratories. Substituted 1H-pyrido[2,3-b][1,4]thiazine-2(3H)-thiones. 3,728,343, 4-17-73, Cl. 260-243.00r.

Hwang, Paul Y.; and Arvin, Earl F., to Ampex Corporation. Process of making acicular, stable magnetic iron particles. 3,748,119, 7-24-73, Cl. 75-.5aa.

Hwang, Paul Y., to Ampex Corporation. Method of preparing cobalt doped magnetic iron oxide particles. 3,748,270, 7-24-73, Cl. 252-62.560.

Hwang, Philip T. R.; and Pusey, Walter C., III., to Continental Oil Company. Process for determining hydrocarbon maturity using electron spin resonance. 3,740,641, 6-19-73, Cl. 324-.50r.

Hwang, Richard A.; Kahle, Rolf D.; Roshon, Arthur H.; and Seitz, Paul N., to Quantor Corporation. Computer output display system. 3,754,228, 8-21-73, Cl. 340-324.0ad.

Hwu, Mark Chung-Kong: *See—*
Looney, Glenwell Ray; and Hwu, Mark Chung-Kong, 3,753,965.

Hy-Rider, Inc.: *See—*
Quick, Robert G., 3,770,297.

Hy-Way Heat Systems, Inc.: *See—*
Miller, John H., 3,757,745.
Miller, John H., 3,776,199.

Hy-Wind, Inc., mesne: *See—*
Nourse, Jack T., 3,755,967.

Hyakumura, Hiroyuki, to Isuzu Motors Limited. Device for lubricating a tandem axle assembly with an interaxle differential. 3,771,622, 11-13-73, Cl. 184-11.00a.

Hyams, Robert F., to Systemation, Inc. Dry cleaning recovery unit. 3,738,127, 6-12-73, Cl. 68-18.00c.

Hyatt, Alfred Ray, to Brown & Root, Inc. Pipeline bundle laying operations. 3,713,275, 1-30-73, Cl. 61-72.300.

Hyatt, Frederick; and Arruda, Frederick Earl, to Bevis Industries, Inc. Tenter frame. 3,727,273, 4-17-73, Cl. 26-57.00r.

Hyatt, Gilbert P.: *See—*
Lee, Barry T.; Wimmer, Gunther W.; and Hyatt, Gilbert P., 3,738,242.

Hyatt, John W. Automatic pipe handling system. 3,720,992, 3-20-73, Cl. 29-430.000.

Hyca, Bohumil, to Zbrojovka Brno, narodni podnik. Device for repairing punch tape provided with code holes and feed holes. 3,709,759, 1-9-73, Cl. 156-527.000.

Hycel, Inc.: *See—*
Jones, Gerald M.; and Laird, Cleve W., 3,723,063.

Moran, John J., 3,711,206.
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Hyco Hydraulic AB: *See—*
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Hycor, Inc.: *See—*
Hyman, Joseph, 3,730,544.

Hyde, James A.: *See—*
Lorenc, Walter F.; and Hyde, James A., 3,767,571.

Hyde, James A.; and Youngs, Roger W., to Nalco Chemical Company. Method and apparatus for detecting and controlling foamability of a liquid system. 3,739,795, 6-19-73, Cl. 137-5.000.

Hyde, James S., to Varian Associates. Microwave spectrometer apparatus. 3,714,550, 1-30-73, Cl. 324-.50r.

Hyde, James S., to Varian Associates. Cavity resonator structure for an EPR spectrometer employing dielectric material for improving RF electric and magnetic field uniformity along the sample. 3,757,204, 9-4-73, Cl. 324-.50r.

Hyde, James S., to Varian Associates. Method and apparatus for observing transient gyromagnetic resonance. 3,771,054, 11-6-73, Cl. 324-.50r.

Hyde, Lawrence Edward: *See—*
Blee, Timothy John; Hyde, Lawrence Edward; and Noddings, John, 3,759,344.
Noddings, John; Hyde, Lawrence Edward; and Borton, Poland Kenneth, 3,767,972.

Hyde, Mike Arthur; Chalmers, Peter Denton; and Mackie, Walter Blair, to Dow Chemical Company, The. Roof construction. 3,763,614, 10-9-73, Cl. 52-309.000.

Hyde, Noel. Lock for garbage can covers. 3,731,964, 5-8-73, Cl. 292-258.000.

Hyde, Peter John; and Reddish, Wilson, to Imperial Chemical Industries Limited. Method and apparatus for measuring the charge-time response of materials by applying a voltage step across the same. 3,715,656, 2-6-73, Cl. 324-61.00r.

Hyde, Richard E., to Strolee of California. Brace assembly. 3,709,454, 1-9-73, Cl. 248-351.000.

Hyde, Richard E.; Vogler, Paul; Morelli, Dino; and Carmichael, Lee T., "Strolee" of California; a division of U.S. Industries Inc. Infant car seat. 3,762,768, 10-2-73, Cl. 297-253.000.

Hyde, Richard W.; Meissner, Herman P.; and Kusik, Charles L., to Columbia Gas System Service Corporation, mesne. Method for converting solid ferrous metal to steel. 3,772,000, 11-13-73, Cl. 75-60.000.

Hyde, Robert W., to Pryde Inc. Faucet. 3,726,318, 4-10-73, Cl. 137-625.410.

Hyde, Robert W., to Pryde Inc. Float valve. 3,760,839, 9-25-73, Cl. 137-414.000.

Hyde, Robert W. Steam driven vehicle and steam engine therefor. 3,771,419, 11-13-73, Cl. 91-6.500.

Hyde, Walter E., to Halliburton Company. Pipeline leak locator plug. 3,768,304, 10-30-73, Cl. 73-40.50r.

Hyde, William J.: *See—*
Franke, Edward L., Jr.; and Hyde, William J., 3,767,454.

Hyde, William P. Garbage classification system. 3,749,324, 7-31-73, Cl. 241-58.000.

Hyden, Victor Holger: *See—*
Hyden, Victor Holger; and Larsson, Sune Torsten, 3,727,602.

Hyden, Victor Holger; and Larsson, Sune Torsten, to Hyden, Victor Holger and said Larsson, assor. to Hasselblad, Fritz Victor. Instrument for taking samples from internal organs. 3,727,602, 4-17-73, Cl. 128-2.00b.

Hyder, Clarence R.: *See—*
Illman, Walter F.; and Hyder, Clarence R., 3,732,603.

Hydo, Steven J.: *See—*
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Hydr-O-Matic Pump Company: *See—*
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Conery, William J.; and Kaessen, Donald A., 3,732,889.
Deibler, Robert R.; and Patterson, Tom W., 3,741,243.

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Hitchings, Joseph J., III; Hohenberger, Carl H.; and Holmes, Allen E., 3,771,819.

Hydraulic Industries, Inc.: *See—*
Tennis, Francis H., 3,718,159.
Tennis, Francis H., 3,722,543.
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Hydraulic-Drive A.G.: *See—*
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Hydril Company: *See—*
Le Rouax, Robert K., 3,744,749.
Lewis, George E.; and Murman, Fernando, 3,729,170.
Macheel, Gary W., 3,735,351.
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Hydril Company, mesne: *See*—
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Murman, Fernando; and Hiatt, Lyle E., 3,750,404.

Hydro Chemical & Mineral Corporation: *See*—
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Osdor, Asriel, 3,741,878.
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Hydro Conduit Corporation: *See*—
Breitfuss, Thomas K.; Wallace, Floyd L.; and Zicaro, Joseph P., 3,724,768.

Hydro Corporation: *See*—
Allen, Russell G., Jr., 3,762,643.

Hydro Tech Services, Inc.: *See*—
Arnold, James F., 3,711,123.
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White, William E., Jr., 3,713,675.
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White, William E., Jr.; and Billingsly, Lloyd E., 3,780,421.

Hydro, William R., to United States of America, Army. Process of purifying oripavines. 3,763,167, 10-2-73, Cl. 260-285.000.

Hydro-Air Engineering, Inc.: *See*—
Moehlenpah, Walter G.; and Husman, David N., 3,728,958.

Hydro-Med. Sciences, Inc.: *See*—
Arlen, Myron, 3,765,414.

Hydro-Mite Limited: *See*—
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Hydrocarbon Research, Inc.: *See*—
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Hydrocouple Corporation: *See*—
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Hydromatik GmbH, mesne: *See*—
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Hydromation Filter Company: *See*—
Hirs, Gene, 3,731,803.
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Hydromation Systems, Inc.: *See*—
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Hydron Chemical Co., Ltd.: *See*—
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Hydron Limited: *See*—
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Hydronautics, Incorporated: *See*—
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Hydronautics-Israel Ltd.: *See*—
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Hydrophilics International, Inc.: *See*—
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Hydrovane Compressor Company Limited, The: *See*—
Rudge, Peter John, 3,768,236.

Hyer, Frank S., to Cutler-Hammer, Inc. Agitator assembly for particulate material hopper. 3,715,059, 2-6-73, Cl. 222-199.000.

Hyer Hardware Mfg. Company: *See*—
Swartz, Dorian J., 3,737,184.

Hyer, Harry J., to United Aircraft Corporation. Igniter composition. 3,769,106, 10-30-73, Cl. 149-18.000.

Hyer, James M., to Bendix Corporation, The. Fluidic proximity sensor. 3,754,433, 8-28-73, Cl. 73-37.600.

Hyer, Val D.: *See*—
Hansen, Lindsey B., Jr.; and Hyer, Val D., 3,715,822.

Hygrade Food Products Corporation: *See*—
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Strelchuk, William N., 3,737,329.

Hylak, Peter J.: *See*—
Notko, Michael F.; and Hylak, Peter J., 3,724,399.

Hyland, Thomas J. Tongue guard for horses. 3,750,368, 8-7-73, Cl. 54-8.000.

Hyland, William P.; Baird, Roy W.; and Culbertson, James A., to Goodyear Tire & Rubber Company, The. Vehicle wheel with fail safe features. 3,712,680, 1-23-73, Cl. 301-63.0ds.

Hylmo, Bertil: *See*—
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Hyman, Dennis C. Earth handling apparatus. 3,726,347, 4-10-73, Cl. 172-666.000.

Hyman, Herbert B.; and Gramont, John R., Jr. Postcard including photograph mounting means. 3,713,238, 1-30-73, Cl. 40-158.000.

Hyman, Joseph, to Hycor, Inc. Collapsible ski pole. 3,730,544, 5-1-73, Cl. 280-11.371.

Hyman, Myles; Sheehan, Ronald T.; and Rowland-Hill, Edward W., to Sperry Rand Corporation. Hinged gathering sheet assembly for a corn header. 3,765,157, 10-16-73, Cl. 56-119.000.

Hyman, Oscar E.: *See*—
Buddecke, Charles L., 3,717,037.

Hyman, Richard L., to Cooper Laboratories, Inc. Two-headed brush. 3,754,295, 8-28-73, Cl. 15-107.00r.

Hymatic Engineering Company, Limited, The: *See*—
Nicholds, Kenneth Edmund, 3,747,365.

Hynes, Barry T.; Krall, George S.; and Krall, Michael G. Novel cleaning composition. 3,715,324, 2-6-73, Cl. 252-529.000.

Hynes Electric Heating Company: *See*—
Koester, George L., Jr., 3,766,357.

Hynes, Fred B. Parallel ski trainer and leg conditioner. 3,708,163, 1-2-73, Cl. 272-57.00b.

Hynes, Joseph H.; Hintzen, Walter J.; and Jansen, Martin B., to Vetco Offshore Industries, Inc. Flexible pipe joints. 3,746,372, 7-17-73, Cl. 285-95.000.

Hynes, Pierce Charles. Lifesaving systems for escaping from high buildings in the case of fires or other emergencies. 3,760,901, 9-25-73, Cl. 182-7.000.

Hyodo, Takeo: *See*—
Oishi, Hiroshi; Aoki, Fumio; Kawano, Shigeru; Kudo, Yasushi; Kobayashi, Hideo; and Hyodo, Takeo, 3,719,928.

Hyosaka, Alfred M., to Speed-O-Print Business Machines Corporation. Rollers. 3,760,616, 9-25-73, Cl. 68-248.000.

Hypaco, Incorporated: *See*—
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Hyperion Incorporated: *See*—
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Hyrve, Arnold Thomas. Plug for bore holes. 3,731,833, 5-8-73, Cl. 220-24.500.

Hysan Corporation: *See*—
Brownstein, Henry J., 3,760,429.

Hysaw, Jimmie H. Quick-change slip-float. 3,733,734, 5-22-73, Cl. 43-44.900.

Hyster Company: *See*—
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Lynch, Peter D.; Oldfield, Dempsey R.; and Zifka, Donald K., 3,734,324.
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Schwab, Delmar G.; and Graham, Dennis P., 3,780,820.

Hytek International Corporation: *See*—
Robertson, Richard G., 3,716,485.

Hyytinen, Timo, to Valmet Oy. Ejector mechanism for breakdown firearms. 3,710,494, 1-16-73, Cl. 42-47.000.

I. V. Pressure Controllers Limited: *See*—
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I-T-E Circuit Breaker (Canada) Limited: *See*—
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I-T-E Imperial Corporation: *See*—
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Iacobellis, Sam F., to North American Rockwell Corporation. Rocket engine nozzle with gas spike. 3,714,785, 2-6-73, Cl. 60-258.000.

Iacobucci, Guillermo Arturo; Myers, Dirck Van Buren; and Okubo, Kazuyoshi, 1/2 to Coca-Cola Company, The and 1/2 to Kikkoman Shoyu Co., Ltd. Process for preparing protein products. 3,736,147, 5-29-73, Cl. 99-17.000.

Iacovazzi, Michael A.; and Kulig, Constantine W., to Emhart Corporation, Glass ware reject apparatus. 3,767,374, 10-23-73, Cl. 65-165.000.

Iacoviello, John G.: *See*—
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Iacoviello, John G., to Air Products and Chemicals, Inc. Aqueous emulsion of interpolymer of vinyl acetate, N-methylol acrylamide, and acrylic acid. 3,770,680, 11-6-73, Cl. 260-29.6ta.

Iadarola, Joseph M. Rotating reflector level rod. 3,736,058, 5-29-73, Cl. 356-4.000.

Iadicicco, Robert A.; and Wolfe, Paul G., to Philco-Ford Corporation. Graded field cathode ray tube. 3,731,135, 5-1-73, Cl. 315-31.00r.

Ian, Yin-Hwee: *See*—
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Ianaka, Katsutoshi: *See*—
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Ianaka, Saboro. Solenoid valve. 3,759,293, 9-18-73, Cl. 137-598.000.

Iannelli, Frank M. Gas-operated carbonating apparatus. 3,752,452, 8-14-73, Cl. 261-52.000.

Iannini, Robert E., to Rid-O-Lay Inc. Electric fly killer. 3,768,196, 10-30-73, Cl. 43-112.000.

I'Anson, Thomas. Chain link with extended wear surface. 3,744,239, 7-10-73, Cl. 59-84.000.

I'Anson, Thomas C., to Motorola, Inc. Protective carrier for semiconductor devices. 3,746,157, 7-17-73, Cl. 206-46.0ed.

Ianuzzi, Anthony P., to United States of America, Navy. Deep ocean submersible. 3,713,412, 1-30-73, Cl. 114-16.00r.

Ianuzzi, Joseph N.; and Mohney, Donald A., to Union Corporation, The. Slide switch assembly with auxiliary switch deactivated by controller in extreme position. 3,757,060, 9-4-73, Cl. 200-16.00c.

Iarossi, Frank J.; and Cowles, Walter C., to Esso Research and Engineering Company. Grid system for external insulation tanker. 3,759,209, 9-18-73, Cl. 114-74.000.

Iascone, Michael. Wire bending tool. 3,722,256, 3-27-73, Cl. 72-470.000.

Ibamoto, Mosahiko; and Kiwaki, Hisakatsu, to Hitachi Ltd. System for controlling an electric output with reduced recovery time. 3,754,183, 8-21-73, Cl. 323-22.0sc.

Ibanez, Renato L. Combined musical instrument and drum sound effects unit. 3,743,751, 7-3-73, Cl. 84-1.160.

Ibata, Yozo, to Nippon Tenshashi Kabushiki Kaisha. Knife with adjustable blade. 3,765,089, 10-16-73, Cl. 30-320.000.

Iben, Kurt-Werner, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. On-board cargo loading device for airplanes. 3,776,492, 12-4-73, Cl. 244-137.00r.

Ibex; division of Jelco: *See*—
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Ibing, Gunther; Neubold, Kurt; and Haferkorn, Herbert, to Veba-Chemie AG. Diene synthesis using isoprene and citraconic acid anhydride, and hydrogenation of synthesis product. 3,745,179, 7-10-73, Cl. 260-346.600.

Icard, Joseph W., to Broyhill Furniture Industries. Lumber unstacking apparatus. 3,737,034, 6-5-73, Cl. 209-84.000.

Ice Crafts, Inc.: *See*—
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Ice, Lory F., to Inteo-Concept Enterprises Inc. Building structure. 3,754,364, 8-28-73, Cl. 52-187.000.

Iceland, William F., to North American Rockwell Corporation. Proximity control using microwave techniques. 3,775,582, 11-27-73, Cl. 219-125.00a.

Iceland, William F.; and Cuzzupoli, Joseph W., to Air Products and Chemicals, Inc., mesne. Alternating current arc power source having opposite polarity ignition pulse. 3,780,258, 12-18-73, Cl. 219-131.00r.

Icenhower, David E.: *See*—
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Ichelson, David L. Method of closing lacerations and clamp therefor. 3,735,765, 5-29-73, Cl. 128-335.000.

Ichida, Takeshige, to Matsushita Electric Industrial Co., Ltd. Subcarrier signal generating system having phase compensator and utilizing VIR signals. 3,755,617, 8-28-73, Cl. 178-5.4he.

Ichida, Takeshige, to Matsushita Electric Industrial Co., Ltd. Pattern generating device. 3,766,528, 10-16-73, Cl. 340-172.500.

Ichihara, Hiroshi: *See*—
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Nakahara, Yasuji; Ichikawa, Kiyoshi; and Kondo, Kunio, 3,715,412.
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Ichikawa, Kohei, to Fuji Photo Film Co., Ltd. Apparatus for taking up a web. 3,776,481, 12-4-73, Cl. 242-56.00a.

Ichikawa, Mitsuo: *See*—
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Imai, Hiroshuke; and Matsuno, Mitsuo. Process for the production of 5-ethylidene norbornene-2. 3,742,076, 6-26-73, Cl. 260-666.01y.

Imai, Hirosuke; and Koizumi, Takeo, to Nippon Oil Company, Limited. Process for the production of 5-alkylidenenorbornene-2. 3,714,279, 1-30-73, Cl. 260-666.0py.

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Imai, Kin-Ichi; Yoshioka, Yoshio; Toda, Jun; and Aoki, Hisashi, to Takeda Chemical Industries, Ltd. 2-Allyloxyinosine-5'-phosphate and physiologically acceptable salts thereof. 3,752,804, 8-14-73, Cl. 260-211.50r.

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Imai, Takeshi; Nomura, Siniti; and Sumita, Muneo, to Nippondenso Kabushiki Kaisha. Method for forming an insulation coating. 3,729,333, 4-24-73, Cl. 117-16.000.

Imai, Tomio; Takahashi, Masao; Seki, Nobuyuki; and Irie, Yoshio, to Godo Shusei Kabushi Kaisha. Process for the production of aeruginoic acid. 3,729,378, 4-24-73, Cl. 195-28.00r.

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Imaizumi, Ichiro, to Hitachi, Ltd. Double epitaxial method for fabricating complementary integrated circuit. 3,767,486, 10-23-73, Cl. 148-175.000.

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Inomata, Yoshio; and Kawaguchi, Yukiyoshi, to Kabushiki Kaisha Ichikin Kogyosha. Apparatus for treatment of cloth. 3,738,131, 6-12-73, Cl. 68-177.000.
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Inoue, Eiichi; Ueda, Yasuo; and Aizawa, Tatsuo, to Mita Industrial Company Limited. Liquid developer for electrophotography containing the reaction product of a dyestuff and a fatty acid. 3,720,619, 3-13-73, Cl. 252-62.100.
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Inoue, Gentei; Sato, Chuichi; and Tanaka, Mamoru, to Nippon Seiko Kabushiki Kaisha. Spindle provided with an anti-vibration mechanism. 3,747,470, 7-24-73, Cl. 90-11.00a.
Inoue, Giichi; Kubo, Naoshi; and Hatano, Shogo, to Osaka Cement Co., Ltd. and Naoshi Kubo and Osaka Consulting Engineers, Ltd. Method and apparatus for plastic hydraulic material. 3,738,115, 6-12-73, Cl. 61-63.000.
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Inoue, Isao; Sekine, Susumu; Hirose, Takeshi; Matsumoto, Kenichi; and Miyasawa, Nobuo, to Nippon Kokan Kabushiki Kaisha, Tokyo Yogyo Kabushiki Kaisha and Kokankikai Kogyo Kabushiki Kaisha. Rotary nozzle for ladle. 3,764,047, 10-9-73, Cl. 222-548.000.
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Inoue, Shiro. Odometer reset mechanism. 3,756,088, 9-4-73, Cl. 74-89.170.
Inoue, Shiro. Odometer. 3,756,506, 9-4-73, Cl. 235-95.00r.
Inoue, Shiro. Odometer reset mechanism. 3,779,091, 12-18-73, Cl. 74-109.000.
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Inoue, Tadanari; Yamamoto, Shigeru; and Wakasa, Yutaka, to Yokogawa Electric Works, Ltd. Memory protection system providing fixed, conditional and free memory portions corresponding to ranges of memory address numbers. 3,742,458, 6-26-73, Cl. 340-172.500.
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Inoue, Takashi, to Ricoh Co. Ltd. Gaseous-discharge tube control system. 3,757,160, 9-4-73, Cl. 315-169.0tv.
Inoue, Takayasu. Electric typewriter. 3,732,964, 5-15-73, Cl. 197-17.000.
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Inoue, Tamotsu, to Hirose Steel Industrial Co., Ltd. Method for constructing frame for retaining earth. 3,710,578, 1-16-73, Cl. 61-41.00r.
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Inoue, Touru; and Terashima, Kenzi, to Nippon Sheet Glass Co., Ltd. Process for producing tempered glass sheet. 3,776,707, 12-4-73, Cl. 65-29.000.
Inoue, Wahei, to Kabushiki Kaisha Maekawa Scisakusho. Method of controlling high stage and low stage compressors. 3,759,052, 9-18-73, Cl. 62-115.000.
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Inoue, Yuichiro; Sakaki, Masamichi; and Fukabori, Teruo, to Tokyo Shibaura Electric Co., Ltd. Apparatus for measuring the sulfur content of hydrocarbons. 3,745,340, 7-10-73, Cl. 250-43.500.
Inoue, Yuzuru; and Morita, Akiyoshi, to Victor Company of Japan, Limited. Beat signal suppression system for a system for transmitting a frequency modulated wave or a device for recording and reproducing a frequency modulated wave. 3,728,475, 4-17-73, Cl. 78-5.20r.
Inoue, Yuzuru, to Victor Company of Japan, Limited. Color video signal recording and reproducing system. 3,769,449, 10-30-73, Cl. 178-5.4cd.
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**Irvine, Robert Leard.** Catalyst transfer in a plural bed hydrogention process. 3,708,420, 1-2-73, Cl. 208-156.000.

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**Irving, Donald E.,** to Motorola, Inc. Cartridge construction for containing audio and visual mediums. 3,734,606, 5-22-73, Cl. 353-120.000.

**Irving, Donald Q.;** and Greenwood, Charles S., to FMC Corporation. Circuitry for sorting fruit according to color. 3,750,883, 8-7-73, Cl. 209-111.600.

**Irving, Edgar W., Jr.,** to Egan Machinery Company. Material feeding apparatus. 3,780,801, 12-25-73, Cl. 165-120.000.

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**Irving Industries (Foothills Steel Foundry Division):** *See—*
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**Irving, Joseph F.** Vehicle mounted loader and unloader. 3,721,355, 3-20-73, Cl. 214-80.000.

**Irving, Putter,** to Merck & Co., Inc. Deuterated l-amino acid mixture. 3,716,551, 2-13-73, Cl. 260-309.000.

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**Irwin, Arthur S.,** to TRW Inc. Method of making linear motion antifriction bearings. 3,719,979, 3-13-73, Cl. 29-148.40a.

**Irwin, Carl F.;** and Muncaster, William T., to Du Pont de Nemours, E. I., and Company. Organic isocyanate recovery process by distillation with a tar-thinning agent and a stripping agent. 3,729,386, 4-24-73, Cl. 203-8.000.

**Irwin, Carl F.,** to Du Pont de Nemours, E. I., and Company. Process for manufacture of organic isocyanates. 3,781,320, 12-25-73, Cl. 260-453.0ph.

**Irwin, George W.,** to Owens-Illinois, Inc. Multiple-cavity glass mold opening apparatus. 3,721,545, 3-20-73, Cl. 65-261.000.

**Irwin, Gordon A.,** to Clark Equipment Company. Earth working implement with tripping mechanism. 3,765,492, 10-16-73, Cl. 172-266.000.

**Irwin, Henry D.** One-piece slipper. 3,710,485, 1-16-73, Cl. 36-11.000.

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**Irwin, John W.,** to International Business Machines Corporation. Data processing peripheral subsystems. 3,729,713, 4-24-73, Cl. 340-172.500.

**Irwin, Philip G.;** McNaughtan, Thomas J.; and Patellis, Anargiros Pete, to Hercules Incorporated, mesne. Dibasic acid anhydrides. 3,775,335, 11-27-73, Cl. 252-182.000.

**Irwin, Samuel N.;** and Levine, Michael R., to Sycor, Inc. Source data entry terminal. 3,760,375, 9-18-73, Cl. 340-172.500.

**Isaac, Earl J.,** to Tplot, Inc. Typehead character raster for plotting. 3,726,379, 4-10-73, Cl. 197-1.00r.

**Isaacs, Anthony Leonard,** to Thorn Electrical Industries, Limited. Lighting control system including an analogue to digital converter. 3,766,431, 10-16-73, Cl. 315-292.000.

**Isaacs, Hugh S.:** *See—*
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**Isaacs, Hugh S.;** and Romano, Anthony J., to United States of America, Atomic Energy Commission. Suppression of corrosion of iron in sodium. 3,726,642, 4-10-73, Cl. 21-2.50r.

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**Isaacs, Philip K.;** and Paton, Alexander C., to Grace, W. R., & Co. Vinyl acetate-alpha olefin copolymer compositions. 3,755,237, 8-28-73, Cl. 260-29.6ta.

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**Isaacson, Manfred A.,** to General Motors Corporation. Vehicle jack. 3,770,323, 11-6-73, Cl. 301-38.00r.

**Isaacson, Max,** to Vibrodyne, Inc. Vibratory apparatus. 3,774,888, 11-27-73, Cl. 259-72.000.

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**Isaev, Alexei Ilich;** Pevzner, Semen Albertovich; and Zemtsov, Jury Semenovich, to Kramatorsky Nauchno-Issledovatelski i Procktno-





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Ishida, Mitsuo. Aerosol spray container. 3,722,748, 3-27-73, Cl. 222-

tekhnologichesky institut mashinostroenia. Device for lapping tapered mating surfaces of parts. 3,708,919, 1-9-73, Cl. 51-26.00.
Isak, Conrad J., to General Electric Company. Phase analog numerical control system employing a laser digitized position feedback. 3,728,607, 4-17-73, Cl. 318-608.000.
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Itakura, Kiyoshi; and Ohmae, Yutaka, to Nippon Sheet Glass Co., Ltd. Surface-coated metal material having resistance to molten tin. 3,771,974, 11-13-73, Cl. 29-195.00m.

Itakura, Tatsuo; Shoda, Tetsuo; and Yamamoto, Takashi, to Daiki Engineering Co., Ltd. Electrolytic cell for electrolysis of sea water. 3,766,045, 10-16-73, Cl. 204-275.000.

Italfarmaco S.p.A.: *See—*
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Italiano, Larry. Closures. 3,751,770, 8-14-73, Cl. 24-204.000.

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Italsider S.p.A.: *See—*
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Itani, Takashi: *See—*
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Itatani, Mikio, to Minato Seiki Kogyo Kabushiki Kaisha. Steel rod straining device. 3,743,330, 7-3-73, Cl. 287-60.000.

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Itaya, Nobushige; Mizutani, Toshio; Kitamura, Shigeyoshi; Okuno, Yoshitosi; and Fujimoto, Keimei, to Sumitomo Chemical Company, Ltd. 4,5-Tetramethylene furfuryl and 4,5-tetramethylene- 3-furylmethyl chrysanthemates. 3,716,560, 2-13-73, Cl. 260-346.200.

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Iten, Paul; and Mastner, Jiri, to Aktiengesellschaft Brown, Boveri & Cie. Method and apparatus for measuring the period of electrical signals. 3,743,420, 7-3-73, Cl. 356-28.000.

Iten, Paul; and Mastner, Jiri, to Brown, Boveri & Cie, Aktiengesellschaft. Electrical filter circuit. 3,747,025, 7-17-73, Cl. 333-17.000.

Iten, Paul; Mastner, Jiri; and Mottier, Francois, to Aktiengesellschaft Brown, Boveri & Cie. Electro-optical measuring apparatus. 3,769,584, 10-30-73, Cl. 324-96.000.

Iten, Paul D., to Aktiengesellschaft Brown, Boveri & Cie. Laser doppler flow probe with high spatial resolution. 3,709,599, 1-9-73, Cl. 356-28.000.

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Itó, Katsunori: *See—*
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Ito, Kazuhiro; and Iida, Shinya. Method for selective epitaxial deposition of intermetallic semiconductor compounds. 3,752,714, 8-14-73, Cl. 148-175.000.

Ito, Kazuo: *See—*
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Ito, Kazuo, to Kabushiki Kaisha Daini Seikosha. Quartz crystal watch. 3,712,045, 1-23-73, Cl. 58-23.00r.

Ito, Ken; Kaminaka, Hiroshi; and Oie, Kunihisa, to Sumitomo Chemical Company, Ltd. Process for producing 2,6-dimethylphenol. 3,714,269, 1-30-73, Cl. 260-621.00r.

Ito, Ken; Terao, Shinichiro; Sugahara, Hirotaka; Yamada, Takashi; Dohgane, Iwao; Chinuki, Takashi; Yoshitake, Hiroshi; and Fujino, Hidekazu, to Sumitomo Chemical Company, Ltd. Continuous process for manufacturing O, O-dialkyl-chlorothiophosphate. 3,723,580 3-27-73, Cl. 260-974.000.

Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dogane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, to Sumitomo Chemical Company, Ltd. Method for xidizing alkylated aromatic compounds. 3,725,484, 4-3-73, Cl. 260-610.00b.

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Ito, Miyaji; Umezawa, Masao; Furukawa, Tadashi; and Hirako, Hiroo, to Asahi Kasei Kogyo Kabushiki Kaisha. Paper tube bobbin for treatment of yarn in cheese form. 3,756,530, 9-4-73, Cl. 242-118.200.

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Ito, Roy Atsushi, to RCA Corporation. Communications between central unit and peripheral units. 3,766,530, 10-16-73, Cl. 340-172.500.

Ito, Ryosuke; and Ishida, Toshiaki, to Sansui Electric Co., Ltd. Four channel sound reproduction system. 3,757,047, 9-4-73, Cl. 179-1.0gq.

Ito, Ryosuke; and Ishida, Toshiaki, to Sansui Electric Co., Ltd. Synthesized four channel sound using phase modulation technique. 3,761,631, 9-25-73, Cl. 179-1.0gq.

Ito, Shin: *See—*
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Ito, Shin, to Toyota Jidosha Kogyo Kabushiki Kaisha. Hydraulic control system for transmissions. 3,709,067, 1-9-73, Cl. 74-869.000.

Ito, Shin; and Kubo, Seitoku, to Toyota Jidosha Kogyo Kabushiki Kaisha. Power transmission mechanism. 3,736,815, 6-5-73, Cl. 74-759.000.

Ito, Shin; Kubo, Seitoku; Hashimoto, Mashanao; and Hayashi, Hihiro, to Toyota Jidosha Kogyo Kabushiki Kaisha. Control system for automatic transmission. 3,750,495, 8-7-73, Cl. 74-866.000.

Ito, Shin; and Ushijima, Fmihiro, to Toyota Jidosha Kogyo Kabushiki Kaisha. Angular acceleration sensor. 3,768,374, 10-30-73, Cl. 91-419.000.

Ito, Shin; and Kawaguchi, Hiroshi, to Toyota Jidosha Kogyo Kabushiki Kaisha. Hydraulic controls for transmission with brake priority valve. 3,774,736, 11-27-73, Cl. 192-4.00a.

Ito, Shinya, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Hydraulic pressure differential switch with snap over leaf contact. 3,715,538, 2-6-73, Cl. 200-82.00d.

Ito, Tadashi: *See—*
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Ito, Takamasa; and Makino, Tsutomu, to Sony Corporation. Graphic symbol display system including plural storage means and shared signal converter. 3,715,744, 2-6-73, Cl. 340-336.000.

Ito, Takamitsu: *See—*
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Ito, Takuji; and Hoshino, Yoshio, to Tokyo Institute of Technology. Arsonium and stibonium anion exchangers. 3,711,429, 1-16-73, Cl. 260-2.10e.

Ito, Takuo: *See—*
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Ito, Teiichiro: *See—*
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Ito, Tomoyuki: *See—*

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Ito, Toshi: *See—*
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Ito, Toshio; Miyamoto, Toshio; Wada, Yuichi; and Mori, Teijiro, to Mitsubishi Denki Kabushiki Kaisha. Current limiting device. 3,753,190, 8-14-73, Cl. 337-21.000.
Ito, Toshio; Nomaguchi, Tamotsu; and Saito, Tatsuo, to Mitsubishi Denki Kabushiki Kaisha. Room heating apparatus. 3,757,767, 9-11-73, Cl. 126-110.00b.
Ito, Toshio; Nomaguichi, Tamotsu; Sakai, Masahiro; and Ito, Koji, to Mitsubishi Denki Kabushiki Kaisha. Combustion apparatus. 3,765,820, 10-16-73, Cl. 431-75.000.
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Ito, Yasutaka, to Tokyo Seimitsu Co., Ltd. Minitype electronic micrometer. 3,768,169, 10-30-73, Cl. 33-172.00e.
Ito, Yoichiro; and Bowman, Robert L., to United States of America, Health, Education and Welfare. Countercurrent chromatography with flow-through coil planet centrifuge. 3,775,309, 11-27-73, Cl. 210-31.00c.
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Ito, Yoshinao: *See—*
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Ito, Yoshiro: *See—*
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Ito, Yukio; Komizo, Hidemitsu; Okamura, Takeshi; and Simizu, Yasusi, to Fujitsu Limited. Strip line to waveguide transition. 3,732,508, 5-8-73, Cl. 333-21.00r.
Ito, Yuko. Method and apparatus for opening and closing hatch covers. 3,751,853, 8-14-73, Cl. 49-127.000.
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Itoda, Masaru; Matona, Hirokuni; and Ushio, Masatoshi, to Kabushiki Kaisha Kokuei Kikai Seisakusho. Wrapping tool device in coin-wrapping machine. 3,740,923, 6-26-73, Cl. 53-212.000.
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Itoh, Hisatsugu, to Hitachi, Ltd. Ripple eliminating circuit. 3,710,148, 1-9-73, Cl. 307-295.000.
Itoh, Isamu; and Nakazono, Fumio, to Ishikawajima-Harima Jukogyo Kabushiki Kaisha. Lift apparatus. 3,722,863, 3-27-73, Cl. 254-105.000.
Itoh, Keiichi, to Olympus Optical Co., Ltd. Telescopic lens system having small telephoto ratio. 3,770,341, 11-6-73, Cl. 350-220.000.
Itoh, Masaji, to Nippon Gakki Seizo Kabushiki Kaisha. Keyboard type wind msical instrument having removable mouthpiece securing removable air filter. 3,715,448, 2-6-73, Cl. 84-375.000.
Itoh, Mitsuto, to Olumpus Optical Co., Ltd. Surgical instrument. 3,739,784, 6-19-73, Cl. 128-320.000.
Itoh, Noboru: *See—*
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Itoh, Noboru; Tosa, Senji; Tsukahara, Hirokazu; and Kobayashi, Norio, to Mitsubishi Paper Mills, Ltd. Developer monobath free from formation of colored sludge. 3,769,015, 10-30-73, Cl. 96-61.00m.
Itoh, Noriji: *See—*
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Kohzuma, Sadao; Hasuo, Shigetsuyo; Tada, Kenichi; and Itoh, Takayuki, 3,713,113.
Itoh, Takayuki, to Takachiho Kocki Kabushiki Kaisha. Series-parallel shift register memory. 3,760,382, 9-18-73, Cl. 340-173.0rc.
Itoh, Takeshi, to Tokyo Shibaura Electric Co., Ltd. Linear beam tube modulation system using modulation of first grid. 3,740,649, 6-19-73, Cl. 325-120.000.
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Itoh, Tsutomu; Suga, Koji; Takumi, Yasuo; and Yamamoto, Masahiro, to Onoda Cement Company, Limited. Control system of rotary kilns. 3,729,181, 4-24-73, Cl. 340-220.000.
Itoh, Yokichi: *See—*
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Itoh, Yoshio: *See—*
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Itoh, Yoshishige; Kawamura, Masatada; and Kasai, Yoshio, to Fuji Motors Corporation. Method of electrically destroying concrete and/or mortar and device therefor. 3,727,982, 4-17-73, Cl. 299-14.000.
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Iwata, Akio, to Mitsubadenkiseisakusho Co., Ltd. Apparatus for automatically disconnecting power circuit for vehicles due to impact. 3,743,849, 7-3-73, Cl. 307-10.00r.
Iwata, Akira: *See—*
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Iwata, Hiroshi, to West Electric Co., Ltd. Electronic flash intensity control circuits. 3,716,752, 2-13-73, Cl. 315-151.000.
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Izawa, Nobuharu; Toyoshima, Hiroshi; and Kikuyama, Munetsugu, to Teijin Limited. Methods and apparatus for transferring tows. 3,763,520, 10-9-73, Cl. 19-65.00t.
Izawa, Nobuharu; Toyoshima, Hiroshi; and Ikazaki, Koh, to Teijin Limited. Apparatus for supplying crimped synthetic filament tow to conveyor for heat treatment. 3,780,405, 12-25-73, Cl. 28-1.600.
Izawa, Nobuo; Iizuka, Yasuhiro; and Kubota, Yoshiaki, to Kanegafuchi Boseki Kabushiki Kaisha. Method for producing polyesters from benzendicarboxylic acid and alkylene oxide. 3,720,649, 3-13-73, Cl. 260-75.00m.
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Izdebski, Simon S., to Jackson Vibrators, Inc. Rail anchor applying machine. 3,745,931, 7-17-73, Cl. 104-17.00a.
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Izumi, Shinjiro. Apparatus for filling up and sealing a synthetic resin tetrahedron. 3,728,840, 4-24-73, Cl. 53-29.000.
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Jache, Otto. Accumulator or battery with sulfuric acid electrolyte containing phosphoric acid. 3,765,942, 10-16-73, Cl. 136-26.000.
Jachim, Frank J. Container for fish lures. 3,775,895, 12-4-73, Cl. 43-54.50r.
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Jackson, Edward J., to Westinghouse Electric Corporation. Digital phase-locked-loop. 3,781,695, 12-25-73, Cl. 328-155.000.
Jackson, Erval D. Swather device. 3,771,297, 11-13-73, Cl. 56-15.200.
Jackson, George E., to Union Carbide Corporation. Double faced warp knit fabric and apparatus and method for making same. 3,757,540, 9-11-73, Cl. 66-192.000.
Jackson, George Oliver, to United Kingdom Atomic Energy Authority. Nuclear reactors. 3,715,270, 2-6-73, Cl. 176-38.000.
Jackson, George W.: *See—*
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Jackson, George W., to General Motors Corporation. Combination hydraulic motor driven hydraulic pump and air compressor assembly. 3,753,629, 8-21-73, Cl. 417-388.000.
Jackson, Harold Ernest, to Petrol Injection Limited. Fuel injection systems. 3,712,275, 1-23-73, Cl. 123-32.0ea.
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Jackson, Harold Ernest, 1/2 to Petrol Injection Limited. Fuel injection systems. 3,739,762, 6-19-73, Cl. 123-139.0bg.
Jackson, Harold P., to McDonough Power Equipment, Inc. Grass catcher assembly. 3,716,977, 2-20-73, Cl. 56-202.000.
Jackson, Harold S., to Allegheny Ludlum Steel Corporation. Arc slag meeting. 3,759,311, 9-18-73, Cl. 164-52.000.
Jackson, Harold W.; Olmstead, Merlin E.; and Fickenscher, William E., to Bendix Corporation, The. Digital phase tracker. 3,723,714, 3-27-73, Cl. 235-152.000.
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Jackson, Harry Yale, to Eaton Corporation. Hydraulic fuse. 3,741,241, 6-26-73, Cl. 137-504.000.
Jackson, Herman E.: *See—*
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Jackson, Herman Roy. Drycleaning compositions. 3,766,075, 10-16-73, Cl. 252-104.000.
Jackson, Hiram T.: *See—*
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Jackson, Homer L., to Holbeck, Robert and Holbeck, Janice. Automatic lifter for bowling. 3,726,525, 4-10-73, Cl. 273-54.00b.
Jackson, Isaac S.: *See—*
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Jackson, John R., to Sperry Rand Corporation. Apparatus for detecting unlevelness of a pendulously supported flux valve by subjecting the valve to a vertical magnetic field. 3,778,703, 12-11-73, Cl. 324-43.00r.
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Jackson, Lawrence D. A., to Lawjack Equipment Limited. Pinch valve sleeve. 3,724,807, 4-3-73, Cl. 251-7.000.
Jackson, Leland B., to Rockland Systems Corporation. Digital frequency synthesizer. 3,735,269, 5-22-73, Cl. 328-14.000.
Jackson, Lloyd J.: *See—*
Rentz, Albert W.; Jackson, Lloyd J.; Willard, Robert C.; and Burklund, Vernon D., 3,734,019.
Jackson, Lowell L.: *See—*
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Jackson, M. Ward. Animal brush. 3,752,125, 8-14-73, Cl. 119-83.000.
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Jackson, Nathaniel, Jr.: *See—*
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Jackson, Nicholas Ernest, to Petrol Injection Limited. Fuel injection systems. 3,739,799, 6-19-73, Cl. 123-139.0bg.
Jackson, Nicholas Ernest, to Petrol Injection Limited. Fuel injection systems. 3,739,800, 6-19-73, Cl. 123-139.0bg.
Jackson, Nicholas Ernest, to Petrol Injection Limited. Fuel injection systems. 3,739,801, 6-19-73, Cl. 123-139.0bg.
Jackson, Nicholas Ernest, to Petrol Injection Limited. Fuel injection systems. 3,739,802, 6-19-73, Cl. 123-139.0bg.
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Jackson, Nicholas Ernest, to Petrol Injection Limited. Fuel injection systems. 3,739,818, 6-19-73, Cl. 123-139.0bg.
Jackson, Nicholas Ernest, to Petrol Injection Limited. Fuel injection systems. 3,739,819, 6-19-73, Cl. 123-139.0bg.
Jackson, Nicholas Ernest, to Petrol Injection Limited. Fuel injection systems. 3,739,820, 6-19-73, Cl. 123-139.0bg.
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Jackson, Nicholas Ernest, to Petrol Injection Limited. Fuel injection systems. 3,739,824, 6-19-73, Cl. 123-139.0bg.
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Jackson, Morden A., to Maloney-Crawford Tank Corporation. Downflow coalescing for emulsion treater. 3,727,382, 4-17-73, Cl. 55-160.000.
Jackson, Norman: *See—*
Sayers, Leslie W.; Barnes, Jeffery W.; and Jackson, Norman, 3,729,920.
Jackson, Norman C., to Standard Products Company, The. Trim strip structure. 3,745,056, 7-10-73, Cl. 161-118.000.
Jackson, Norman C., to Standard Products Company, The. Joint construction for strip structures. 3,756,636, 9-4-73, Cl. 287-189.30h.
Jackson, Norman C., to Standard Products Company, The. Rubber gasket with plastic molding insert. 3,766,697, 10-23-73, Cl. 52-312.000.
Jackson, Norman Charles, to Standard Products Company, The. Exterior molding structure and method of manufacturing same. 3,770,545, 11-6-73, Cl. 156-221.000.
Jackson, Patrick T. Furling and unfurling of sails. 3,749,042, 7-31-73, Cl. 114-106.000.
Jackson, Raymond Pennoyer, to International Nickel Company, Inc., The. Descaling process for alloys containing chromium. 3,778,309, 12-11-73, Cl. 134-2.000.
Jackson, Richard H.; and Warner, Dale J., to Gits Bros. Mfg. Co., Inc. Shaft seal and method of manufacture. 3,718,336, 2-27-73, Cl. 277-40.000.
Jackson, Richard H.; and Bak, Harry B., to Gits Bros. Mfg., Co., Inc. Dip stick. 3,722,102, 3-27-73, Cl. 33-126.70r.
Jackson, Richard H.; and Schulz, George H., to Gits Bros. Mfg. Co., Inc. Water air separator. 3,772,857, 11-20-73, Cl. 55-418.000.
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Jackson, Richard I.: *See—*
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Jackson, Richard L. Insulin product. 3,758,683, 9-11-73, Cl. 424-178.000.
Jackson, Richard Lee, to Lilly, Eli, and Company. Process for the crystallization of the ammonium and alkali metal salts in insulin. 3,719,655, 3-6-73, Cl. 260-112.700.
Jackson, Richard R. Hydraulic cuff tracheal tube. 3,766,927, 10-23-73, Cl. 128-351.000.
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Jackson, Robert Alvin. Friction clamp. 3,744,838, 7-10-73, Cl. 294-116.000.
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Jackson, Robert Eartis, to Lear Siegler, Inc. Non-destructive trouble shooting probe. 3,774,144, 11-20-73, Cl. 339-97.00t.
Jackson, Robert G.; and Armstrong, Edward, to Conch International Methane Limited. Methods of welding together sheets to form walls, tanks or the like. 3,740,526, 6-19-73, Cl. 219-137.000.
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Jackson, Squire Ronald; Greenwood, Kenneth; Heaton, Alban; and Harrison, Alwin, to Lucas, Joseph, (Industries) Limited. Apparatus for regulation of airflow to flame tubes for gas turbine engines. 3,731,484, 5-8-73, Cl. 60-39.230.
Jackson, Sydney; and Titterington, Joseph Bell, to Ferranti Limited. Manufacture of supports for semiconductor devices. 3,762,029, 10-2-73, Cl. 29-470.100.
Jackson, Sydney; and Titterington, Joseph Bell, to Ferranti Limited. Manufacture of supports for use with semiconductor devices. 3,771,212, 11-13-73, Cl. 29-471.300.
Jackson, Thomas J.; Weltsch, Dan A.; and Beattie, Stephen J., to Wik-It Electronics Corporation. Method for solder removal. 3,715,797, 2-13-73, Cl. 29-426.000.
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Jackson Vibrators, Inc.: *See—*
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Root, La Verne W., 3,745,929.
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Jackson, Weldon H., to Hewlett-Packard Company. Transducer formed in peripherally supported thin semiconductor web. 3,758,830, 9-11-73, Cl. 317-234.00r.
Jackson, William D., said Jackson and Bell assors. of 10% each to Rankin, R. Ray. Method for mounting and preserving animals without evisceration. 3,780,452, 12-25-73, Cl. 35-20.000.
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Jackson, Winston J.; Kuhfuss, Herbert F.; and Caldwell, John R., to Eastman Kodak Company. Process for enhancing the inherent viscosity of bisphenol polyesters. 3,780,148, 12-18-73, Cl. 264-141.000.
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Jacob, Ingolf: *See—*
Buttner, Gert; and Jacob, Ingolf, 3,710,463.
Jacob, Jean-Baptiste, to Compagnie Industrielle des Telecommunications Cit-Alcatel and Societe Lannionnaise d'Electronique Raute de Perros-Guirec. Path finding system for time-division multiplexed telephone communication network. 3,718,769, 2-27-73, Cl. 17-18.00j.
Jacob, Jean-Baptiste. Multi-stage time connection network. 3,727,006, 4-10-73, Cl. 179-18.0gf.
Jacob, Jean-Baptiste, to CIT-Compagnie Industrielle des Telecommunications. Multi-stage time connection network arrangement adapted to be used more particularly in telephone switching. 3,754,100, 8-21-73, Cl. 179-15.0aq.
Jacob, Oscar, to Greiff-Werke Gustav Winkler KG. Article of apparel. 3,760,426, 9-25-73, Cl. 2-237.000.
Jacob, Rene F., to Societe Anonyme: Poclain. Device for controlling a winch provided with a safety device. 3,762,777, 10-2-73, Cl. 303-22.00r.
Jacob, Richard J., to Dayco Corporation. Loom picker. 3,768,524, 10-30-73, Cl. 139-159.000.
Jacob, Stanley W.: *See—*
Herschler, Robert J.; and Jacob, Stanley W., 3,740,420.
Jacob, Werner; and Toth, Arpad, to Industriewerk Schaeffler OHG. Compact roller bearing. 3,738,718, 6-12-73, Cl. 308-174.000.
Jacobs, Alan M.: *See—*
Kenney, Edward S.; and Jacobs, Alan M., 3,769,507.
Jacobs, Christopher A. Capacitive discharge ignition system. 3,716,037, 2-13-73, Cl. 123-148.00e.
Jacobs, Cornelis Adrianus Joannes: *See—*
Beijer, Louis Benjamin; Driessen, Antonius Jozephus Gerardus Cornelis; and Jacobs, Cornelis Adrianus Joannes, 3,753,018.
Jacobs, F. L., Co.: *See—*
Olsen, Harry C.; Tischler, Ludwig J.; and Wernecke, Heinz C., 3,724,730.
Olsen, Harry C.; Tischler, Ludwig J.; and Wernecke, Heinz C., 3,724,928.
Tischler, Ludwig J., 3,719,313.
Visser, John G., 3,738,725.



Jacobs, Harold, to United States of America, Army. Photon radiation detector. 3,718,820, 2-27-73, Cl. 250-83.30h.
Jacobs, Harry Michael: *See—*
Castle, William Harold; Jacobs, Harry Michael; and Sloan, Thomas, 3,759,363.
Jacobs, Harvey Barry. High pressure resuscitating and ventilating system incorporating humidifying means for the breathing mixture. 3,766,914, 10-23-73, Cl. 128-145.800.
Jacobs, J. Donovan. Apparatus for advancing tunnel supports. 3,733,835, 5-22-73, Cl. 61-84.000.
Jacobs, Jacobus Hubertus: *See—*
van Esdonk, Johannes; and Jacobs, Jacobus Hubertus, 3,754,882.
Van Esdonk, Johannes; Jacobs, Jacobus Hubertus; Hornman, Johannes Petrus; and Van de Laar, Wilhelmus Johannes, 3,776,613.
Jacobs, James W., to General Motors Corporation. Means for rapidly heating interior of a motor vehicle. 3,720,372, 3-13-73, Cl. 237-12.30b.
Jacobs, James W., to General Motors Corporation. Dishwasher with top loading utensil compartment. 3,727,622, 4-17-73, Cl. 134-183.000.
Jacobs, James W., to General Motors Corporation. Means for lubricating vehicle air conditioning compressor shaft seals. 3,738,118, 6-12-73, Cl. 62-192.000.
Jacobs, James W., to General Motors Corporation. Means for cooling and heating a seat structure. 3,738,702, 6-12-73, Cl. 297-180.000.
Jacobs, James W., to General Motors Corporation. Internally-actuated taillight system. 3,748,643, 7-24-73, Cl. 340-71.000.
Jacobs, James W., to General Motors Corporation. Combination compressor-condenser. 3,754,410, 8-28-73, Cl. 62-507.000.
Jacobs, James W., to General Motors Corporation. Compressor shaft seal heater. 3,759,058, 9-18-73, Cl. 62-228.000.
Jacobs, James W., to General Motors Corporation. Cam operated compressor. 3,781,144, 12-25-73, Cl. 417-525.000.
Jacobs, Jan, to U.S. Philips Corporation. Spray vaccines. 3,755,557, 8-28-73, Cl. 424-46.000.
Jacobs, John E.; and Kovac, Michael G., to Northwestern University. Secondary emission enhancer for an X-ray image intensifier. 3,710,125, 1-9-73, Cl. 250-213.0vt.
Jacobs, John H.; and Corrigan, Richard A., to Bell & Howell Company. Lead iodine film. 3,764,368, 10-9-73, Cl. 117-34.000.
Jacobs, John J., to Re Jo Multi Colour, Inc. Multi-color anodizing process for aluminum. 3,709,742, 1-9-73, Cl. 148-6.100.
Jacobs, John T.; Keester, Kenneth L.; and Silverman, Benjamin D., to International Business Machines Corporation. Thermal capacitative-ferroelectric storage device. 3,710,353, 1-9-73, Cl. 340-173.200.
Jacobs, Josef Egied, to Ordibel S.P.R.L. Apparatus for assembling a stack of sheets. 3,740,050, 6-19-73, Cl. 270-58.000.
Jacobs, Justin M., Jr.; and Stafford, Neil S. Highly improved transportation system. 3,760,740, 9-25-73, Cl. 104-130.000.
Jacobs, Karl F. Fish culture cage assembly. 3,717,124, 2-20-73, Cl. 119-3.000.
Jacobs, Lloyd K.; and Hull, Richard N. Cathodic protection for water tanks. 3,718,554, 2-27-73, Cl. 204-147.000.
Jacobs Manufacturing Company, Limited, The: *See—*
Derbyshire, George C., 3,751,052.
Jacobs Manufacturing Company, The: *See—*
Price, Robert B.; and Stager, Francis W., 3,730,006.
Jacobs, Marcellus L.: *See—*
Jacobs, Paul R.; and Jacobs, Marcellus L., 3,744,255.
Jacobs, Marcellus L. Tidal flow system and method for causing water to flow through waterways. 3,733,830, 5-22-73, Cl. 61-1.000.
Jacobs, Max Le Roy; and Higdon, Buster Watson, to Celanese Corporation. Process for inhibiting diketene polymerization. 3,759,955, 9-18-73, Cl. 260-343.900.
Jacobs, Miles H. Refuse can holder. 3,750,990, 8-7-73, Cl. 248-146.000.
Jacobs, Norman A.: *See—*
Alonas, Kay; Engelman, Valentine R.; and Jacobs, Norman A., 3,720,298.
Jacobs, Orville W., to East Dayton Tool & Die Company, The. Article transfer apparatus. 3,757,961, 9-11-73, Cl. 214-1.0bb.
Jacobs, Paul: *See—*
Brocker, John R.; Chapman, Ronald H.; Jacobs, Paul; Johnson, Ronald C.; Powell, Jerry R.; and Peay, Robert L., 3,766,523.
Jacobs, Paul E.: *See—*
Honn, James B.; and Jacobs, Paul E., 3,722,786.
Jacobs, Paul H.: *See—*
Fierstien, Gary N.; and Jacobs, Paul H., 3,721,932.
Jacobs, Paul R.; and Jacobs, Marcellus L. Canal bank retaining wall means and method. 3,744,255, 7-10-73, Cl. 61-7.000.
Jacobs, Philip C., Jr.: *See—*
Kozacka, Frederick J.; and Jacobs, Philip C., Jr., 3,748,622.
Jacobs, Philip C., Jr., to Chase-Shawmut Company, The. Current-limiting polyphase fuse. 3,713,064, 1-23-73, Cl. 337-161.000.
Jacobs, Philip C., Jr., to Chase-Shawmut Company, The. Electric multibreak forming cartridge fuse. 3,735,317, 5-22-73, Cl. 337-291.000.
Jacobs, Philip C., Jr., to Chase-Shawmut Company, The. Low-voltage fuse having molded case. 3,766,507, 10-16-73, Cl. 337-161.000.
Jacobs, Richard L.: *See—*
Cooke, Anson R.; Jacobs, Richard L.; and Compton, Ell Dee, 3,752,816.
Jacobs, Richard L., to Sherwin-Williams Company, The. Method of controlling plant growth and 3-substituted lumazines used in such method. 3,732,224, 5-8-73, Cl. 260-251.500.
Jacobs, Robert B.; and Hoekstra, Gerald B., to Standard Oil Company. Catalyst for hydrocracking a resid hydrocarbon. 3,764,565, 10-9-73, Cl. 252-470.000.
Jacobs, Roger E.: *See—*
Morley, Edwin R.; and Jacobs, Roger E., 3,751,697.
Jacobs, Stanley C., to Aluminum Company of America. Fluid sheated electrode lead for use in a corrosive environment. 3,745,106, 7-10-73, Cl. 204-243.00r.
Jacobs, Stanley C., to Aluminum Company of America. Protected electrode lead for use in a corrosive environment. 3,745,107, 7-10-73, Cl. 204-243.00r.
Jacobs, Thomas A., to Tideland Signal Corporation. Navigational light system. 3,781,853, 12-25-73, Cl. 340-29.000.
Jacobs, William B.: *See—*
Goodson, Louis H.; and Jacobs, William B., 3,711,251.
Goodson, Louis H.; Jacobs, William B.; and Davis, Andrew W., 3,715,298.
Jacobs, William H.: *See—*
Gardner, John A., Jr.; Brown, Merle S.; and Jacobs, William H., 3,737,076.
Jacobsen, Gunnar Monrad; and Mollevik, Asbjorn, to A/S Strommen Staal Strommen-Raufoss. Propeller nozzle. 3,738,307, 6-12-73, Cl. 115-42.000.
Jacobsen, John C.; and Wilson, John S., to Allied Gear and Machine Co., Inc. Printing cylinder assembly. 3,721,188, 3-20-73, Cl. 101-375.000.
Jacobsen Manufacturing Company: *See—*
Akgulian, Sahag C.; Haffner, Donald G.; and Heth, Sherman C., 3,731,469.
Heth, Sherman C., 3,721,074.
Heth, Sherman C., 3,754,500.
Heth, Sherman C.; Akgulian, Sahag C.; Hoffmeyer, Knud H.; and Meyer, Dean A., 3,756,042.
Hoffmeyer, Knud H., 3,754,385.
Hoffmeyer, Knud H., 3,755,998.
Kaercher, William C., Jr., 3,758,146.
Rogers, Chester D., 3,718,192.
Rogers, Chester D., 3,739,860.
Woelffer, Neill C., 3,780,509.
Jacobsen, Preben Bob: *See—*
Christensen, Borge Johannes Ravn; and Jacobsen, Preben Bob, 3,776,434.
Jacobsen, Ralph T.: *See—*
Oakley, Daniel C.; Jacobsen, Ralph T.; and Van Delud, Harley J., 3,767,911.
Jacobsen, Stephen C.: *See—*
Kwan-Gett, Clifford S.; and Jacobsen, Stephen C., 3,768,102.
Swan-Gett, Clifford S.; Despain, Richard R.; and Jacobsen, Stephen C., 3,772,790.
Jacobson, Allen G.; and Epstein, Maurice J., to Computer Transceiver Systems, Inc. Data terminal with automatic response feature. 3,743,763, 7-3-73, Cl. 178-4.10b.
Jacobson, Bernhard E.: *See—*
Lovcall, George A.; and Jacobson, Bernhard E., 3,762,525.
Jacobson, Charles L.; Zurakowski, Stanley J.; and Tambert, John, to Xerox Corporation. Data coupling apparatus. 3,739,338, 6-12-73, Cl. 340-147.00r.
Jacobson, Dean, Jr. Heating and ventilating system for mobile homes. 3,727,538, 4-17-73, Cl. 98-33.000.
Jacobson, Donald C.: *See—*
Dreier, William M., Jr.; and Jacobson, Donald C., 3,769,034.
Jacobson, Earl B.: *See—*
Grenier, Raymond P.; and Jacobson, Earl B., 3,777,142.
Jacobson, Elton J.; and Schlicher, Davis W., to Electric Machinery Manufacturing Company. Synchronizing and transfer system. 3,753,002, 8-14-73, Cl. 307-87.000.
Jacobson, Gerson M.: *See—*
Goldin, Morris; and Jacobson, Gerson M., 3,730,050.
Jacobson, Glen A.: *See—*
Berner, David L.; Jacobson, Glen A.; and Trombold, Charles D., 3,732,111.
Jacobson, Howard W., to Du Pont de Nemours, E. I., and Company. Sheet-like alpha aluminum oxide. 3,718,494, 2-27-73, Cl. 106-291.000.
Jacobson, Howard W., to Du Pont de Nemours, E. I., and Company. Salt-gel process for the manufacture of fibrous alkali metal hexatitanates. 3,737,520, 6-5-73, Cl. 423-598.000.



Jacobson, Kenneth E., to Beckman Instruments, Inc. Centrifuge in-



Jaeger, Horst; and Schaefer, Paul, to Ciba Geigy AG.

Jacobson, Kenneth E., to Beckman Instruments, Inc. Centrifuge indexing seal head assembly and method. 3,724,748, 4-3-73, Cl. 233-21.000.
Jacobson, Leonard P., to Burt, F. N., Company, Inc. Sealable carton. 3,724,741, 4-3-73, Cl. 229-38.000.
Jacobson Manufacturing Company: *See*—
Haffner, Donald G., 3,721,078.
Haffner, Donald G.; and Hubbard, Glenn R., 3,744,522.
Kaercher, William C., Jr., 3,757,529.
Wright, Bruce C.; and Erickson, Donald G., 3,778,986.
Jacobson, Michael D., to United States of America, Navy. Low-interference seeker dome attachment. 3,757,698, 9-11-73, Cl. 102-70.20r.
Jacobson, Nathaniel J. Fine and graphics arts products for enabling amateurs and others to select and utilize color materials with optical results of increased predictability. 3,722,109, 3-27-73, Cl. 35-28.500.
Jacobson, Nils Bertil: *See*—
Begg, Geoffrey S.; and Jacobson, Nils Bertil, 3,736,099.
Edholm, Paul Ragnvald; and Jacobson, Nils Bertil, 3,717,768.
Edholm, Paul Ragnvald; and Jacobson, Nils Bertil, 3,748,487.
Linkoping, Paul Edholm; and Jacobson, Nils Bertil, 3,755,672.
Jacobson, Norman: *See*—
Rossi, Albert; Tornqvist, Erik; Jacobson, Norman; and Song, Won Ryol, 3,767,561.
Jacobson, Norman; and Ryer, Jack, to Esso Research and Engineering Company. Distillate petroleum hydrocarbon fuel compositions containing novel multi-functional additives. 3,728,091, 4-17-73, Cl. 44-63.000.
Jacobson, Oscar D., to Bendix Corporation, The. Flexible tube pump. 3,733,149, 5-15-73, Cl. 417-412.000.
Jacobson, Oscar D. Combination centrifugal and viscous shear rotary pump. 3,781,136, 12-25-73, Cl. 417-353.000.
Jacobson, Peter E.: *See*—
Duncan, Damon H.; and Jacobson, Peter E., 3,722,297.
Jacobson, Richard M., to Kayser-Roth Corporation. Shoe construction. 3,732,634, 5-15-73, Cl 36-2.5ah.
Jacobson, Richard W. Play toy for use with miniaturized vehicles. 3,722,135, 3-27-73, Cl. 46-244.00a.
Jacobson, Robert L.; and Vanselow, Robert D., to Chevron Research Company. Low pressure regenerative reforming process. 3,716,477, 2-13-73, Cl. 208-139.000.
Jacobson, Robert S., to Sperry Rand Corporation. Area navigation system. 3,781,880, 12-25-73, Cl. 343-6.00r.
Jacobson, Roger. Multiple-bolt installation jig. 3,739,451, 6-19-73, Cl. 29-237.000.
Jacobson, Sava W. Telephone answering apparatus. 3,780,226, 12-18-73, Cl. 179-6.00r.
Jacobson, Sol H.; and Gorsuch, Donald R., to Sanders Associates, Inc. Tension turnbuckle. 3,751,083, 8-7-73, Cl. 287-60.000.
Jacobsson, Jan Roland, to AGA Aktiebolag. Apparatus for correlation spectroscopy. 3,744,918, 7-10-73, Cl. 356-188.000.
Jacobsz, Roelof F. Bridge operated late-phase firing circuit means for fuel burners. 3,764,821, 10-9-73, Cl. 307-139.000.
Jacobus, Dan, to Buckbee-Mears Company. Method of making and using electroplating matrix. 3,764,485, 10-9-73, Cl. 204-11.000.
Jacobus, Johannes; Schats, Cornelis; and Schenk, Hendrik, to Koninklijke Zwavelzuurfabrieken Voorheen Ketjen N.V. Elastomeric mixtures vulcanizable to electrically conductive vulcanisates and methods of preparing the same. 3,723,355, 3-27-73, Cl. 252-511.00.
Jacoby, Charles H., to International Salt Company. Solution mining of salt and storage of industrial fluids. 3,724,898, 4-3-73, Cl. 299-5.000.
Jacoby, Ewald: *See*—
Reisacher, Josef; Klaue, Hans Joachim; Jacoby, Ewald; and Bergmeier, Dieter, 3,734,650.
Jacoby, Frederick J.; Hamb, Frederick L.; and Trent, Lewis C., to Eastman Kodak Company. Photographic subbing material. 3,725,329, 4-3-73, Cl. 260-32.80r.
Jacoby, Frederick J.; Hamb, Frederick L.; and Trent, Lewis C., to Eastman Kodak Company. Photographic subbing material. 3,775,152, 11-27-73, Cl. 117-34.000.
Jacoby, George Victor; and Meslener, George John, to RCA Corporation. Digital signal decoder using two reference waves. 3,728,716, 4-17-73, Cl. 340-347.0dd.
Jacoby, Hans: *See*—
Crachy, Rudolf; and Jacoby, Hans, 3,735,460.
Ledergerber, Alfred; and Jacoby, Hans, 3,762,035.
Jacoby, Hans-Dieter, to Continental Elektroindustrie Aktiengesellschaft. Gravimeter. 3,731,538, 5-8-73, Cl. 73-382.000.
Jacoby, Ian H.: *See*—
Lukacs, Michel J.; and Jacoby, Ian H., 3,780,935.
Jacoby, Joseph M.: *See*—
Jacoby, Joseph M.; and Gelak, Richard (said Gelak assor. to said), 3,780,458.
Jacoby, Joseph M.; and Gelak, Richard, said Gelak assor. to said Jacoby, Joseph M. Portable visual-aid or display device. 3,780,458, 12-25-73, Cl. 40-31.000.
Jacoby-Bender, Inc.: *See*—
Hassman, Jeffrey; and Luft, Walter, 3,738,100.
Jacocks, Claud L., to Continental Oil Company. Magnesium silicate thickened hydrocarbon insulating fluids. 3,719,601, 3-6-73, Cl. 252-62.000.
Jacquart, Christian Augustin, to International Business Machines Corporation. Servobalanced delta modulator. 3,761,841, 9-25-73, Cl. 332-11.00d.
Jacquart, Christian Augustin, to International Business Machines Corporation. Method and apparatus for adding two delta coded signals. 3,764,792, 10-9-73, Cl. 235-168.000.
Jacque, Donald A.: *See*—
Rausch, Ronald L.; and Jacque, Donald A., 3,771,277.
Jacquelin, Guy, to Centre Technique de l'Industrie des Papiers Cartons et Celluloses. Method and apparatus of producing a sheet with orientated fibres by overflow. 3,717,546, 2-20-73, Cl. 162-215.000.
Jacquelin, Guy J.; Hampartzoumain, Robert; and Louvat, Jules, to Societe Anonyme des Ateliers de Constructions. System for separating fibres from a fibrous suspension. 3,770,126, 11-6-73, Cl. 210-81.000.
Jacquemet, Andre, to Battelle Memorial Institute and Dunlop Limited. Rail joints. 3,750,946, 8-7-73, Cl. 238-226.000.
Jacquerie, Jean-Marie; Defosse, Georges Jean-Pierre Hubert; and Lams, Pierre-Paul, to Elphiac. Refining process and apparatus. 3,762,912, 10-2-73, Cl. 75-65.0zm.
Jacques, Roy Jerome, to Bendix Corporation, The. Automatic gaging apparatus of modular construction and method of manufacture. 3,754,316, 8-28-73, Cl. 29-400.000.
Jacques, Vincent L.: *See*—
Baldwin, Douglas S.; Benton, Kenneth E.; and Jacques, Vincent L., 3,781,017.
Benton, Kenneth E.; and Jacques, Vincent L., 3,781,016.
Jacquet, Michel: *See*—
Desre, Pierre; Berthon, Olivier; and Jacquet, Michel, 3,726,666.
Jacquet, Raymond, to Thomson-CSF. Data code conversion for remote signalling and control systems. 3,716,836, 2-13-73, Cl. 340-167.00r.
Jacquinot, Bernard: *See*—
Lhomore, Pierre; Cohen, Guy; and Jacquinot, Bernard, 3,780,115.
Jacquot, Michel; and Amicel, Charles, to Boussois Souchon Neuvesel. Apparatus for the fabrication of an insulating pane unit. 3,744,697, 7-10-73, Cl. 228-5.000.
Jacquot, Michel Jules: *See*—
Duthion, Louis; Jacquot, Michel Jules; Amicel, Charles Gustave; Chaube, Robert Augustin; and Jean, Francis Marie, 3,754,617.
Jacquot, Michel Jules; Amicel, Charles Gustavf; and Renaudon, Marie Michel, to Centre d'Etudes Techniques des Industries de l'Habillement. Suction gripping apparatus. 3,712,611, 1-23-73, Cl. 271-11.000.
Jacuzzi Bros., Incorporated: *See*—
Horan, Raymond E., Jr., 3,739,810.
Woell, Fred T., Jr., 3,756,741.
Jacuzzi Research, Inc.: *See*—
Jacuzzi, Roy A.; and Kosta, Peter L., 3,736,924.
Jacuzzi, Roy A.; and Kosta, Peter L., to Jacuzzi Research, Inc. Hydromassage tub assembly. 3,736,924, 6-5-73, Cl. 128-66.000.
Jade Controls, Inc.: *See*—
Wagner, Edmond M., 3,741,816.
Jade Corporation, The: *See*—
Cushman, Robert H., 3,750,265.
Cushman, Robert H., 3,756,067.
Jaderosa, Vittorio: *See*—
Sperandio, Claudio; Boscolo, Carlo; Jaderosa, Vittorio; and Savino, Antonio, 3,754,080.
Jadin, Andre, to Glaverbel S.A. Apparatus for bending sheet material. 3,711,265, 1-16-73, Cl. 65-287.000.
Jadoiss, Donald B. G.: *See*—
Crennan, Timothy P.; and Jadoiss, Donald B. G., 3,751,400.
Jadow, B., and Sons, Inc.: *See*—
Jadow, Henry C., 3,714,713.
Usami, Sadao, 3,736,841.
Jadow, Henry C., to Jadow, B., and Sons, Inc. Device for circular engraving. 3,714,713, 2-6-73, Cl. 33-23.00k.
Jaeger, Erich: *See*—
Ganshorn, Peter, 3,709,600.
Hampl, Franz, 3,765,245.
Jaeger, Friedrich; Koepp, Hans-Martin; Wiloth, Fritz; and Eismann, Rudolf, to Glanzstoff AG. Process for increasing the molecular weight of polyethylene terephthalate. 3,756,990, 9-4-73, Cl. 260-75.00m.
Jaeger, Hannes; and Veprek, Walter, to Siemens Aktiengesellschaft. Program-controlled data telecommunication exchange system and method for priority assignment of operating cycles. 3,711,835, 1-16-73, Cl. 340-172.500.
Jaeger, Hannes. Redundant pulse supply system. 3,751,685, 8-7-73, Cl. 307-219.000.
Jaeger, Horst, to Ciba-Geigy AG. N-s-triazine perfluoroalkylmonocarboxylic acid esters. 3,770,731, 11-6-73, Cl. 260-248.0ns.



Jaeger, Horst; and Schaefer, Paul, to Ciba-Geigy AG. Perfluoralkyl compounds. 3,780,093, 12-18-73, Cl. 260-486.00a.
Jaeger, John E., to Bissett-Berman Corporation, The. Inductively coupled connector. 3,742,408, 6-26-73, Cl. 336-5.000.
Jaeger, Joseph H.: *See*—
Rico, Edward H.; and Jaeger, Joseph H., 3,710,786.
Jaeger, Joseph H., to Illinois Tool Works Inc. Locating plug. 3,722,037, 3-27-73, Cl. 24-73.0pf.
Jaeger, Joseph H., to Illinois Tool Works Inc. Headlamp bearing. 3,735,121, 5-22-73, Cl. 240-41.600.
Jaeger, Kurt S., to Forney Engineering Company. Burner assembly with dual register and throat construction. 3,743,471, 7-3-73, Cl. 431-115.000.
Jaeger Machine Company, The: *See*—
O'Dea, John A., 3,754,737.
Wise, Richard L., 3,765,439.
Jaeger, Raymond E.; and Nickell, Robert Ernest, to Bell Telephone Laboratories, Incorporated. Devices for processing molten metals. 3,722,821, 3-27-73, Cl. 239-133.000.
Jaeger, Raymond Edward: *See*—
Avila, Arthur Julian; Jaeger, Raymond Edward; Miller, Thomas John; and Sauer, Harold Alfred, 3,755,530.
Jaeger, Robert O., to Unity Manufacturing Co. Beacon signaling devices. 3,723,725, 3-27-73, Cl. 245-46.590.
Jaeger, Walter. Textile dry cleaning machine. 3,712,088, 1-23-73, Cl. 68-18.00c.
Jaeger, Wilbert J. Self-refrigerating and heating food containers and method for same. 3,726,106, 4-10-73, Cl. 62-294.000.
Jaegers, Heinz; and Quenter, Horst, to Eck, Joseph, & Sohne. Jointed roller. 3,745,625, 7-17-73, Cl. 29-116.0ad.
Jaeggi, Knut Alfred: *See*—
Kocsis, Karoly; Renner, Ulrich; and Jaeggi, Knut Alfred, 3,717,641.
Jaeggi, Kurt, to Givaudan Corporation. Process for the manufacture of meat flavors. 3,761,287, 9-25-73, Cl. 99-140.00r.
Jaeggli, Ralph G.: *See*—
El-Hindi, Ahmad M.; and Jaeggli, Ralph G., 3,752,758.
Jaehn, Edwin C., to Gleason Works, The. Work holding chuck and arbor. 3,735,994, 5-29-73, Cl. 279-1.00g.
Jaehnig, James Herbert: *See*—
Dahlstrom, Robert Victor; and Jaehnig, James Herbert, 3,773,621.
Jaekel, Gerhard; Karrenbauer, Kurt; Goedicke, Eitel; and Kirstein, Dieter, to Knapsack Aktiengesellschaft. Process and apparatus for the aerobic fermentation of substrates. 3,752,742, 8-14-73, Cl. 195-109.000.
Jaeken, Jan: *See*—
Mannens, Marc Godfried; Jaeken, Jan; Janssens, Wilhelmus; and Priem, Jan Jozef, 3,761,272.
Van Listhout, Jan August; and Jaeken, Jan, 3,721,823.
Jaeschke, Ralph L., to Eaton Corporation. Electromagnetic coupling with permanent magnets. 3,730,317, 5-1-73, Cl. 192-84.00r.
Jaeschke, Ralph L., to Eaton Corporation. Single support eddy current coupling. 3,742,270, 6-26-73, Cl. 310-105.000.
Jaeschke, Ralph L.; Moyer, William H.; and Wiltsey, Howard E., to Eaton Corporation. Electromagnetic friction coupling with ledging prevented means. 3,749,216, 7-31-73, Cl. 192-70.140.
Jaeschke, Ralph L., to Eaton Corporation. Spline clearance reduction for couplings. 3,770,087, 11-6-73, Cl. 192-18.00b.
Jaffa, David; and Miller, James D., to Precision Screen Machines Inc. Method and apparatus for screen printing tiles. 3,719,141, 3-6-73, Cl. 101-126.000.
Jaffa, David, to Precision Screen Machines, Inc. Method and apparatus for screen printing contiguous designs on elongated strips of material. 3,752,070, 8-14-73, Cl. 101-123.000.
Jaffa, David, to Precision Screen Machines, Inc. Vacuum pallet type screen printing machine with registration means. 3,763,776, 10-9-73, Cl. 101-126.000.
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Jaffe, James M., to General Motors Corporation. Solid state variable delay line using reversed biased PN junctions. 3,778,643, 12-11-73, Cl. 307-293.000.
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Jaffe, Leo. Apparatus for composing documents. 3,721,173, 3-20-73, Cl. 95-85.000.
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Jaffe, Max L. Garment hanger and clamp therefor. 3,726,452, 4-10-73, Cl. 223-91.000.
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Jaffe, Richard M.; and Parente, Robert B., to System Development Corporation. Simulation through rotating coordinate transformation. 3,723,718, 3-27-73, Cl. 235-185.000.
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Jaffee, Wilton, to Freeman, H., & Son, Incorporated. Insertable ski cuff for stretch pants. 3,733,615, 5-22-73, Cl. 2-232.000.
Jaffre, Felicien. Automatic discharge trays. 3,750,860, 8-7-73, Cl. 198-144.000.
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Jagdmann, Edwin F.; and Lemieux, George E., to Ford Motor Company. Two-stage throttle valve for an automatic transmission. 3,719,107, 3-6-73, Cl. 74-843.000.
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Jager, Heinz, to Wedag Westfalia Dinnendahl Groppel Aktiengesellschaft. Air classifier assembly. 3,734,287, 5-22-73, Cl. 209-139.00a.
Jager, Horst; Schundehutte, Karl-Heinz; Trautner, Kersten; and Horstmann, Walter. Anthraquinone dyestuffs. 3,773,779, 11-20-73, Cl. 260-303.000.
Jager, Lothar, to U.S. Philips Corporation. Recording and/or playback apparatus. 3,770,283, 11-6-73, Cl. 274-4.00e.
Jaggard, Arthur M., to Gould Inc. Forming sealed housings for electrochemical cells. 3,775,189, 11-27-73, Cl. 136-175.000.
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Jaguar Cars Limited: *See*—
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Jahn, Darrel S., to Aquatic Systems, Inc. Swimming pool guard alarm unit. 3,778,803, 12-11-73, Cl. 340-261.000.



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Jahn, Eberhard: *See—*
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Jahnke, Donald E. Lung and kidney removal device. 3,769,656, 11-6-73, Cl. 17-11.000.
Jahnke, Earl M.; and Miller, Robert. Safety guard for fabricating apparatus. 3,731,573, 5-8-73, Cl. 83-544.000.
Jahnke, Horst: *See—*
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Jahnke, Horst, to Bosch, Robert, G.m.b.H. Method of producing self-breathing composite electrode for fuel cells. 3,773,878, 11-20-73, Cl. 264-49.000.
Jahnke, Richard William, to Lubrizol Corporation, The. Photosensitive diacetone acrylamide resins. 3,725,231, 4-3-73, Cl. 204-159.140.
Jahnke, Ullrich: *See—*
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Jakel, Joseph B. Fastening strip for synthetic turf. 3,733,647, 5-22-73, Cl. 16-16.000.
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Jakob, Fritz; Tesar, Gerold; and Kuhnlenz, Karl-Heinz, to Linde Aktiengesellschaft. Process for making artificial snow. 3,760,598, 9-25-73, Cl. 62-74.000.
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Jakob, Hans, to American Safety Equipment Corporation. Dead zone mechanism for and inertia locking retractor. 3,711,037, 1-16-73, Cl. 242-107.400.
Jakob, Horst, to Societe Financiere Francaise de Licences et Brevets. Process for the making of slide fasteners, means for carrying out this process and fastener chain made by said process. 3,750,260, 8-7-73, Cl. 29-408.000.
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Jakobi, Gunter; and Berth, Peter, to Henkel & Cie G.m.b.H. Washing and cleansing compositions. 3,775,348, 11-27-73, Cl. 252-524.000.
Jakobi, Wilhelm; Kumper, Ernst; and Wagner, Hans, to Koppers, Heinrich, G.m.b.H. Industrial furnace. 3,723,054, 3-27-73, Cl. 263-15.00r.
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Jakubowski, Marek. High energy storage flywheel. 3,724,288, 4-3-73, Cl. 74-572.000.
Jalbert, Domina C. Aerial sled. 3,749,337, 7-31-73, Cl. 244-145.000.
Jalbert, Domina C. Cloth ventilator. 3,757,664, 9-11-73, Cl. 98-37.000.
Jalbert, Donald A. Plastic lobster trap. 3,708,905, 1-9-73, Cl. 43-100.000.
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Jallais, Francois Denis, to Societe Industrielle Bull-General Electric (Societe Anonyme). Apparatus for the photo-optical reading of marks and perforations on record media. 3,714,447, 1-30-73, Cl. 250-227.000.
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James, David Maldon, to Beanstalk Shelving Limited. Charts. 3,728,802, 4-24-73, Cl. 35-73.000.
James, David Richard, to Murray Curvex Printing Limited. Apparatus for decorating rotatable articles. 3,720,162, 3-13-73, Cl. 101-39.000.
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James, Ernest F. Garment carrier. 3,743,083, 7-3-73, Cl. 206-7.00h.
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James, Maurice L., to Calcatco, Inc. Thermally removable support means for loading long vertical vessels. 3,749,258, 7-31-73, Cl. 214-17.00c.
James, Maurice L., to Calcato, Inc. Vacuum controlled vessel loading with particulate materials. 3,778,962, 12-18-73, Cl. 53-35.000.
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James, William T., III, to Renner Company, The. Machine for forming curbing. 3,733,141, 5-15-73, Cl. 404-98.000.
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Jamison, Joel D., to Hercules Incorporated. O,O-dialkyl-S-[2-halo-1-(N-succinimido)ethyl] phosphorathioates and phosphorodithioates used as insecticides. 3,773,933, 11-20-73, Cl. 424-200.000.
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Jamison, Saunders E.; and Soehngen, John W., to Celanese Corporation. Production of shaped synthetic articles having improved dyeability. 3,742,104, 6-26-73, Cl. 264-78.000.
Jamison, Saunders E., to Celanese Corporation of America. B shaped structure of trioxane and polyacetaldehyde. 3,763,105, 10-2-73, Cl. 260-67.00r.
Jamison, Wayne L. Transistor and diode tester. 3,778,713, 12-11-73, Cl. 324-158.00t.
Jamison, Will B., to Consolidation Coal Company. Fluid propelled mine haulage vehicle and method for underground haulage. 3,712,489, 1-23-73, Cl. 214-83.360.
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Jammet, Jean-Firmin; and Brych, Alfred, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Cylindrical dry cells. 3,740,271, 6-19-73, Cl. 136-107.000.
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Janes, John F.: *See—*
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Jangaard, Sverre M., to Campbell Industries. Purse ring stripper and stripping method. 3,710,498, 1-16-73, Cl. 43-4.500.



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Jania, Zbigniew J.; and Vanderberg, Lawrence J., to Ford Motor Company. Maximum vehicle speed limiter. 3,708,031, 1-2-73, Cl. 180-110.000.
Janiak, Stefan: *See*—
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Janiak, Stefan; and Dittrich, Volker, to Ciba-Geigy AG. Formimidesters and pesticidal preparations containing them. 3,715,436, 2-6-73, Cl. 424-304.000.
Janiak, Stefan, to Ciba-Geigy AG. N-benzothiazol-2-yl-N'-propylureas. 3,725,428, 4-3-73, Cl. 260-305.000.
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Janik, Anton J., to Emerson Electric Co. Cable hoist. 3,765,652, 10-16-73, Cl. 254-167.000.
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Janin, Raymond Marc Clement: *See*—
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Janiszewski, Kasimir. Die set. 3,776,086, 12-4-73, Cl. 83-637.000.
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Janke, Donald E.; and Marcade, Roque D., to Whirlpool Corporation. Dryness sensor circuit with static eliminating means for dryer. 3,729,833, 5-1-73, Cl. 34-48.000.
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Janko, Bozidar, to Tektronix Inc. Stabilization of prepare voltage of transmission storage target. 3,753,129, 8-14-73, Cl. 328-123.000.
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Jannery, George E.; O'Donnell, John F., Jr.; and Parks, Herman David, to Time, Incorporated. Image analyzing apparatus. 3,757,038, 9-4-73, Cl. 178-6.800.
Jannett, Frederick Joseph; and Mracek, Jaroslav, to Western Electric Company, Incorporated. Apparatus for handling and maintaining the orientation of a matrix of miniature electrical devices. 3,765,431, 10-16-73, Cl. 134-113.000.
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Janning, John L., to National Cash Register Company, The. Slave printing apparatus. 3,727,234, 4-10-73, Cl. 346-33.00r.
Janning, John L., to National Cash Register Company, The. Method of forming cavities in a plasma display panel. 3,764,429, 10-9-73, Cl. 156-89.000.
Jannjzzi, Frank, Jr. Above-the-ground swimming pool. 3,749,244, 7-31-73, Cl. 210-169.000.
Jannuzzi, Frank, Jr. Winterizing cover for above-the-ground swimming pool skimmer opening. 3,733,621, 5-22-73, Cl. 4-172.190.
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Jansen, Robert J., to Westinghouse Electric Corporation. Cold plate and drain design. 3,720,074, 3-13-73, Cl. 62-272.000.
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Jansen-Vanbeek, Guy; and Jansen-Vanbeek, John. Animal hobble. 3,769,940, 11-6-73, Cl. 119-126.000.
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Janson, Sven Olof. Overheating protection arrangement in an electric sauna unit. 3,769,494, 10-30-73, Cl. 219-363.000.
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Janssen, Alexander Patton, to Datastrip Corporation. Visible index systems. 3,778,914, 12-18-73, Cl. 40-64.00r.
Janssen, Casper Johannes Gerardus Ferdinand; Jonker, Hendrik; Postma, Cambertus; and Guerts, Angustinus Joseph, to U.S. Philips Corporation. Method of producing electrically conductive metal layers. 3,758,304, 9-11-73, Cl. 96-38.400.
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Janssen, Donald E.; Reynolds, Delbert D.; and Cossar, Bernard C., to Eastman Kodak Company. Development accelerators for image transfer systems. 3,718,464, 2-27-73, Cl. 96-29.00d.
Janssen, Donovan M.; Kollar, Ernest P.; Stahlberg, Eugene G.; and Tiao, Hui-Li, to International Business Machines Corporation. Tape containing cassettes, each with a removable wall. 3,759,465, 9-18-73, Cl. 242-199.000.



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Janssen, Eldon L. Educational toy for teaching arithmetic. 3,711,965, 1-23-73, Cl. 35-31.00d.
Janssen, Gail E.; and Hoh, John L., to Badger Northland Inc. Barn cleaner paddle wiper. 3,756,381, 9-4-73, Cl. 198-185.000.
Janssen, Hans Georg, to Aktiengesellschaft "Weser". Guide arrangement. 3,718,108, 2-27-73, Cl. 114-181.000.
Janssen, Hans Georg; Ecke, Gunter; and Wiese, Friedmar, to Aktiengesellschaft "Weser". Connecting of conduit terminals on traveling marine vessels. 3,746,060, 7-17-73, Cl. 141-387.000.
Janssen, Leopold Mathieu Lambert. Double-walled partition and partition elements. 3,749,432, 7-31-73, Cl. 287-189.36a.
Janssen, Leopold Mathieu Lambert. Continuous type skylight device. 3,762,120, 10-2-73, Cl. 52-200.000.
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Janssen Paul Adriaan Jan, to Janssen Pharmaceutica, N.V. N-arallyl-N'-aralkyl piperazine pharmaceutical composition. 3,773,939, 11-20-73, Cl. 424-250.000.
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Janssen, Sylvain, to Compagnie des Compteurs. Device for measuring the density of a fluid. 3,728,893, 4-24-73, Cl. 73-32.000.
Janssen, Wilhelmus-Henricus Johannes. Device for harvesting cabbage. 3,739,854, 6-19-73, Cl. 171-61.000.
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Jansson, John G.; and Sjoblom, Ake E. Stepped roofing sheets. 3,754,366, 8-28-73, Cl. 52-535.000.
Jansson, Sixten Vincent. Method of weakening strip material in section rolling processes. 3,777,530, 12-11-73, Cl. 72-129.000.
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Jaquay, Paul T., to United States of America, Air Force. Transducer for measuring the displacement of an electrically conductive objection. 3,714,561, 1-30-73, Cl. 324-61.00p.

Jaques, Roland; and Rossi, Alberto, to Ciba-Geigy Corporation. O-esters of monosaccharides having ether groupings. 3,781,267, 12-25-73, Cl. 260-210.00r.

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Jaquiss, Donald B. G., to General Electric Company. Process for preparing polycarbonate using a guanidine catalyst. 3,763,099, 10-2-73, Cl. 260-47.0xa.

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Jardim, Joseph. Water reconditioning unit for aquaria. 3,768,652, 10-30-73, Cl. 210-169.000.

Jardine, Robert William, to U.S. Philips Corporation. Stretchers. 3,760,435, 9-25-73, Cl. 5-81.00r.

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Jarema, Alexander J., to Sola Basic Industries, Inc. Rocking hearth furnace. 3,721,334, 3-20-73, Cl. 198-218.000.

Jarema, Chester P.; and Niebylski, Leonard M., to Ethyl Corporation. Foamed core sandwich construction. 3,711,363, 1-16-73, Cl. 161-161.000.

Jarema, Chester P.; and Niebylski, Leonard M., to Ethyl Corporation. Method for quietly casting foamed metal. 3,719,223, 3-6-73, Cl. 164-79.000.

Jarko, Michael F.; Powers, Avery W.; and Newmeyer, Reed A., to Solid State Devices, Inc. Monitor for detecting conflicting traffic control signals. 3,778,762, 12-11-73, Cl. 340-46.000.

Jarman, Ronald D.: *See—*
Schrink, George H.; and Jarman, Ronald D., 3,771,664.

Jaroff, David: *See—*
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Jarolim, Vaclav; Slama, Karel; and Sorm, Frantisek. Epoxidized esters of 5-oxaalkenoic acids. 3,766,220, 10-16-73, Cl. 260-348.00a.

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Jaros, Frantisek: *See—*
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Jarosik, Robert J.: *See—*
Felcheck, Marvin; Kirschner, Wallace; Jarosik, Robert J.; and Capes, Charles W., 3,725,870.

Jarosinski, Louis, to Lee, Raymond, Organization, Inc., The. Golden age glory sit in shower. 3,711,872, 1-23-73, Cl. 4-146.000.

Jaroslav, Bohac: *See—*
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Jarowenko, Wadym: *See—*
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Jarowenko, Wadym, to National Starch and Chemical Corporation. Continuous process for the preparation of modified starch dispersions. 3,721,575, 3-20-73, Cl. 106-213.000.

Jarowenko, Wadym; and Rutenberg, Morton W., to National Starch and Chemical Corporation. Process for making paper and paper made therefrom using liquid cationic starch derivatives. 3,737,370, 6-5-73, Cl. 162-175.000.

Jarowenko, Wadym, to National Starch and Chemical Corporation. Polycarboxylic thioether detergent builders. 3,753,913, 8-21-73, Cl. 252-89.000.

Jarowenko, Wadym, to National Starch and Chemical Corporation. Process for preparing modified starch dispersions. 3,770,472, 11-6-73, Cl. 106-213.000.

Jarr, Klaus D.; Baker, John Kenneth; and Ufford, David B., to Red Jacket Manufacturing Company. Iron removal filter system. 3,762,550, 10-2-73, Cl. 210-126.000.

Jarratt, Robert L., Momories, Inc.: *See—*
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Jarret, Jacques: *See—*
Jarret, Jean; and Jarret, Jacques, 3,740,630.

Jarret, Jean; and Jarret, Jacques. Variable-reluctance electric motor. 3,740,630, 6-19-73, Cl. 318-138.000.

Jarrett, David Michael: *See—*
Jarritt, Percival Ward; and Jarrett, David Michael, 3,744,384.

Jarrett, Graham: *See—*
Jones, Michael Edward Benet; and Jarrett, Graham, 3,723,396.

Jarrett, Harry M. Lure dislodging and retrieving device. 3,735,520, 5-29-73, Cl. 43-17.200.

Jarrett, Helen M.: *See—*
Jarrett, Robert O., 3,761,957.

Jarrett, Jay H., to Ranco Incorporated. Defrost control system. 3,728,867, 4-24-73, Cl. 62-140.000.

Jarrett, Noel: *See—*
Bruno, Marshall J.; Jarrett, Noel; and Slaugenhaupt, Burl L., 3,767,382.

Jarrett, Robert O.; deceased (by Jarrett, Helen M.; executrix), to General Motors Corporation. Direct filament lamp assembly. 3,761,957, 9-25-73, Cl. 313-110.000.

Jarrett, Steven M.: *See—*
Hobart, James L.; and Jarrett, Steven M., 3,720,213.

Jarrige, Georges Roger: *See—*
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Jarrige, Georges Roger; deceased (by Jarrige, Jeannine Germaine; administrator); and Nguyen, Dat Nhiep, to ITT Industries, Inc. Ignition device for high pressure discharge lamps. 3,740,686, 6-19-73, Cl. 337-22.000.

Jarrige, Jeannine Germaine: *See—*
Delembre, Andre Emile; and Jarrige, Georges Roger, 3,716,744.
Jarrige, Georges Roger; and Nguyen, Dat Nhiep, 3,740,686.

Jarritt, Percival Ward; and Jarrett, David Michael, to Masson Scott Thrissell Engineering Limited. Rollers for cutting, creasing, perforating or embossing sheet materials. 3,744,384, 7-10-73, Cl. 93-58.20r.

Jarry, Jacques: *See—*
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Jarva, Inc.: *See—*
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Jarvis Corporation: *See—*
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Jarvis, Francis L.: *See—*
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Jarvis, George A., to Litton Systems, Inc. Method and means for controlling electromagnetic wave energy leakage in microwave ovens. 3,736,398, 5-29-73, Cl. 219-10.550.

Jarvis, George A., to Litton Systems, Inc. Electromagnetic wave energy seal. 3,736,399, 5-29-73, Cl. 219-10.550.

Jarvis, Harold F., to Shaw Pipe Industries, Ltd. Apparatus for conveying pipe longitudinally. 3,743,124, 7-3-73, Cl. 214-338.000.

Jarvis, Howell R.: *See—*
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Jarvis, Howell R., to Petrolite Corporation. Ready-to-use lead sulfide catalyst. 3,720,627, 3-13-73, Cl. 252-430.000.

Jarvis, John P.: *See—*
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Jarvis, John P., to Aero Service Corporation. Variable frequency rejection filter having light emitting and light responsive elements. 3,757,255, 9-4-73, Cl. 333-17.000.

Jarvis, William Harding, to Ragosine Oil Company, Limited. Wax emulsion. 3,738,851, 6-12-73, Cl. 106-14.000.

Jarysta, Henri, to Pont-A-Mousson S.A. Composite means for treating cast iron. 3,717,457, 2-20-73, Cl. 75-130.00a.

Jasaitis, Tadas K.: *See—*
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Jascalevich, Mario Enrique. Thoracic inlet rid retractor. 3,710,783, 1-16-73, Cl. 128-20.000.

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Zirngibl, Hans; Jaschinski, Klemens; Brandle, Karl; and Weidmann, Walter, 3,727,378.

Jasgur, Joseph. Glareless mirror using relatively rotatable polarizers. 3,711,182, 1-16-73, Cl. 350-159.000.

Jasik, Henry; Myslicki, Robert Leonard; and Rudish, Ronald Myron, to Cutler-Hammer, Inc. Sheet array antenna structure. 3,757,342, 9-4-73, Cl. 343-738.000.

Jasinski, Donald W. Sheetmetal shearing apparatus. 3,771,401, 11-13-73, Cl. 83-453.000.

Jasinski, Raymond J.; and Gaines, Lewis H., to Tyco Laboratories, Inc. Method of removing water from lithium batteries. 3,721,586, 3-20-73, Cl. 136-175.000.

Jasinski, Raymond J.; and Gaines, Lewis H., to Tyco Laboratories, Inc. Lithium batteries having a cathode composition comprising a mixture of nickel sulfide and aluminums. 3,749,607, 7-31-73, Cl. 136-83.00r.

Jasinski, Stanley C.: *See—*
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Jasinski, William C.: *See—*
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Jaskewycz, Taras. Azine compounds. 3,780,029, 12-18-73, Cl. 260-240.00b.

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Jasmin, Claude: *See—*
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Jason, John J. Method of making a composite picture transparancy. 3,750,541, 8-7-73, Cl. 95-18.00r.

Jason, Robert C.: *See—*
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Jasper Electronics Manufacturing Company: *See—*
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Jasper Electronics Manufacturing Corporation, The: *See—*
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Robinson, John W.; and Whittington, Billy Joe, 3,725,560.
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Jasperson, Robert E.; and Kapland, Mitchell Arthur, to Trident Engineering Associates, Inc. Navigational chart display device. 3,724,079, 4-3-73, Cl. 33-1.0sd.

Jaster, Dale R.; and Quigley, James R., to GTE Automatic Electric Laboratories, Incorporated. Contactless test apparatus for determining the sensitivity of reed switches. 3,745,447, 7-10-73, Cl. 324-28.0rs.

Jastrow, Horst; Lederer, Michael; and Heiskel, Elmar, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of formable styrene polymers. 3,758,425, 9-11-73, Cl. 260-2.50b.

Jaszczak, Ronald J., to Searle, G. D. & Co. Scintillation camera with improved resolution. 3,752,981, 8-14-73, Cl. 250-368.000.

Jaszczak, Ronald J., to Searle, G. D. & Co. Tomographic scintillation camera with improved resolution. 3,752,982, 8-14-73, Cl. 250-368.000.

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Jatcko, Joseph. Taper lock break-away pole structure. 3,713,262, 1-30-73, Cl. 52-296.000.

Jatcko, Joseph M. Swing-away automation workpiece gripper. 3,764,023, 10-9-73, Cl. 214-1.0bc.

Jatteau, Michel Rene, to North American Philips Co., Inc. Circuitry for displaying isodensity lines in an image. 3,711,642, 1-16-73, Cl. 178-6.800.

Jauch, Erhard: *See—*
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Jauch, Erhard, Uhrenfabrik: *See—*
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Jaulmes, Eric, to Ateliers de la Motobecane. Ignition and control devices for fuel burners. 3,711,237, 1-16-73, Cl. 431-69.000.

Jaulmes, Eric, to Ateliers de la Motobecane. Electric autocycle. 3,773,131, 11-20-73, Cl. 180-34.000.

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Hellerbach, Joseph; and Jaunin, Roland, 3,757,008.

Jautelat, Manfred; Kabbe, Hans-Joachim; and Ley, Kurt, to Bayer Aktiengesellschaft. 5-Imino-1,2,4-triazines and their production. 3,752,808, 8-14-73, Cl. 260-249.500.

Javaloy, Don Jose Manuel Jara; and Garrusta, Don Jaime Prenafeta. Dosifying sausage making machine. 3,733,653, 5-22-73, Cl. 17-35.000.

Javan, Ali; and Hocker, Lon O., III, to Massachusetts Institute of Technology. Method of generating a signal with a frequency between $10^{11}$ and $10^{15}$ Hz with extreme frequency stability. 3,719,822, 3-6-73, Cl. 250-83.30h.

Javan, Ali, to Massachusetts Institute of Technology. Apparatus and processes for detection, generation and frequency measurements of electromagnetic radiation in the infrared and visible domain. 3,755,678, 8-28-73, Cl. 250-211.100.

Javenkoski, Carl W.: *See—*
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Javet, Alain Ferdinand, to Battelle Development Corporation, The. Separating apparatus. 3,708,067, 1-2-73, Cl. 209-211.00.

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Jay, Walter M. Grocery cart and checkout counter combination. 3,739,878, 6-19-73, Cl. 186-1.0ac.

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Jayne, Gerald John Joseph: *See—*
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Jayne, Murray L. Integrated flight indicators. 3,778,760, 12-11-73, Cl. 340-27.0na.

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Jean, Leonard P.; and Hendrix, William L., to Hendrix Wire and Cable Corporation. Cable stringing and insulating apparatus and method. 3,739,075, 6-12-73, Cl. 174-40.00r.

Jean, Pierre; and Nias, Marcel, to Gaz Transport and Etudes et Realisations Industrielles. Electrical welding machine. 3,777,107, 12-4-73, Cl. 219-82.000.

Jean-Baptiste, Armand: *See—*
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Jean-Blanc, Ferdinand H. Self-centering foot for sewing machines. 3,759,202, 9-18-73, Cl. 112-239.000.

Jean-Claude, Girauldon; and Massimo, Leone, to Societe Anonyme D.B.A. Hydraulic brake actuator for a disc brake. 3,773,148, 11-20-73, Cl. 188-72.400.

Jeandron, Howard T. Projectile and target having a resilient frictional resistant surface causing an impinging projectile to bounce back toward the projector. 3,731,930, 5-8-73, Cl. 273-95.00r.

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Derrien, Michel; van Landeghem, Hugo; JeanJean, Pierre; and Le Page, Jean Francois, 3,770,619.
Jeanmart, Claude; Messer, Mayer Naoum; and Simon, Pierre, to Rhone-Poulenc S.A. Palladium hydrogenation process for 3,4 dihydroisoquinolines. 3,748,333, 7-24-73, Cl. 260-286.00r.
Jeanmart, Claude; Messer, Mayer Naoum; and Simon, Pierre, to Rhone-Poulenc S.A. 1-Amino-3(or 4)-phenyl-3,4-dehydroisoquinolines. 3,759,924, 9-18-73, Cl. 260-286.00r.
Jeanmonod, Jacques, to Heuer-Leonidas S.A. Timepiece. 3,759,033, 9-18-73, Cl. 58-74.000.
Jeanmonod, Jacques, to Heuer-Leonidas S.A. Timepiece mounting means. 3,763,646, 10-9-73, Cl. 58-88.00r.
Jeanneret, Jean Louis, to Foseco International Limited. Process and apparatus for die-casting of ferrous metals. 3,735,797, 5-29-73, Cl. 164-72.000.
Jeannet, Jean-Pierre; and Leuba, Jean-Pierre, to Tesa S.A. Measuring instrument. 3,742,609, 7-3-73, Cl. 33-143.00m.
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Jebb, Alan; and Besant, Colin Bowden. Computer input/output equipment. 3,763,479, 10-2-73, Cl. 340-172.500.
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Jedynak, Leo; and Gusaras, Vladas, to Oak Industries, Inc. Multiturn rotary switch. 3,761,649, 9-25-73, Cl. 200-14.000.
Jefferies, Patrick J.; and Crounse, Nathan N., to Sterling Drug Inc. Water-soluble quaternary ammonium phthalocyanine dyestuffs. 3,709,903, 1-9-73, Cl. 260-314.500.
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Jeffreys, Roy A.; and Gloag, Elizabeth A., to Eastman Kodak Company. Novel hexahydroindolizine and hexahydroquinolizine cyanine dyes. 3,772,278, 11-13-73, Cl. 260-240.400.
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Jeffs, Keith Derek, to Metal Box Company Limited, The. Polyolefins film material. 3,745,038, 7-10-73, Cl. 117-47.00a.
Jeger, Hans; and Rohre, Rudolf, to Schweizerische Aluminum AG. Device for the opening of foil sealed containers. 3,736,660, 6-5-73, Cl. 30-6.400.
Jeger, Iskar; Wehrli, Hans Ueli; and Schaffner, Kurt, to Ciba-Geigy Corporation. Process for the manufacture of beta-hydroxy-steroid. 3,723,418, 3-27-73, Cl. 260-239.55r.
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Jeger, Oskar; and Schaffner, Kurt, to Ciba-Geigy Corporation. A-nor-B-homo-steroids. 3,758,588, 9-11-73, Cl. 260-586.00h.
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Jekat, Walter K., to Klein, Schanzlin & Becker Aktiengesellschaft. Drive shaft. 3,714,840, 2-6-73, Cl. 74-421.00a.
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Jekowski, Edward W.; and Foster, Kenneth J., to United States of America, Navy. Automatic sensitivity adjustment in flash blindness protective device. 3,761,717, 9-25-73, Cl. 250-209.00r.
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Jelley, Frank Edward Charles, to Denley-Tech Limited. Apparatus for mixing the contents within containers. 3,764,112, 10-9-73, Cl. 259-57.000.
Jellinek, John. Vehicle having plural modes of propulsion. 3,747,717, 7-24-73, Cl. 180-6.500.
Jellinek, Karl; Post, Udo; Gerlach, Dieter; and Oellig, Rudi, to Rutgerswerke Aktiengesellschaft. Flame resistant epoxy-based materials and a process for their preparation. 3,775,355, 11-27-73, Cl. 260-37.0ep.
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Jenkins, Elmer Thomas; and Ward, Geoffrey Marcus. Spark-discharge apparatus for electrohydraulic crushing. 3,735,195, 5-22-73, Cl. 315-111.000.
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Jenkins, Gerald L.; Jungjohann, Vernon H.; Marvin, Edgar S.; and Seely, Neil G., to Eastman Kodak Company. Motion picture camera drive mechanism. 3,768,896, 10-30-73, Cl. 352-174.000.
Jenkins, Gerald L.; Jungjohann, Vernon H.; and Marvin, Edgar S., to Eastman Kodak Company. Motion picture camera drive mechanism. 3,781,100, 12-25-73, Cl. 352-180.000.
Jenkins, Henry H. Punching apparatus. 3,760,671, 9-25-73, Cl. 83-155.000.
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Jenkins, Philip W., to Eastman Kodak Company. 2-Imino-3-thiazoline cyanine dyes. 3,723,422, 3-27-73, Cl. 260-240.00e.
Jenkins, Philip W.; Heseltine, Donald W.; and Mee, John D., to Eastman Kodak Company. Photographic elements and light-absorbing layers. 3,745,009, 7-10-73, Cl. 96-84.00r.
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Jenkins, Philip W.; Heseltine, Donald W.; and Mee, John D., to Eastman Kodak Company. Silver halide emulsions sensitized with dyes containing heterocyclic nitrogen atoms substituted with an-OR group. 3,770,451, 11-6-73, Cl. 96-135.000.
Jenkins, Ralph E., to Core Laboratories, Inc. Method and apparatus for measuring oil in water. 3,771,353, 11-13-73, Cl. 73-61.10r.
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Jenkins, Trevor; Needham, Brian John; and Smith, Michael Arthur, to Fisons Limited. Preparation of azines. 3,728,390, 4-17-73, Cl. 260-566.00b.

Jenkins, Walter Norman; and Williams, Terence, to British Iron and Steel Research Association, The. Method for combined coating and cold reduction of metal. 3,728,147, 4-17-73, Cl. 117-93.310.

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Jennings, Harley Y., Jr., to Chevron Research Company. Blood flood. 3,724,546, 4-3-73, Cl. 166-274.000.

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Jennings, Irving C. Gas and liquid separator. 3,731,467, 5-8-73, Cl. 55-459.000.

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Jensen, Neil F., to Semiconductors Electronic Memories, Incorporated. Apparatus for fastening contact pins to a substrate. 3,735,466, 5-29-73, Cl. 29-203.00b.

Jensen, Niels; Thomasson, James T.; and Mead, Donald C., to Recognition Systems, Inc., mesne. Automatic beam ratio control system for holography. 3,729,634, 4-24-73, Cl. 250-204.000.

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Jensen, Norman P.; Kollonitsch, Janos; and Shen, Tsung-Ying, to Merck & Co., Inc. 4-Amino-3- or 3'-fluoro-4-ureido diphenyl sulfones. 3,775,444, 11-27-73, Cl. 260-397.600.

Jensen, Olav N., to Gutzeitin, O. Y., Laatikkotehdas-A.B. Gurzeits Ladfabrik. Method for manufacturing building boards with chequer-square pattern. 3,730,797, 5-1-73, Cl. 156-182.000.

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Jensen, Paul K., to SSR Instruments, Company. Method and apparatus for detecting a faint energy source. 3,748,478, 7-24-73, Cl. 250-207.000.

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Jensen, Stephen F.; and Meyer, William A., to American Can Company. Method of making a container body. 3,716,435, 2-13-73, Cl. 156-195.000.

Jensen, Thomas H., to PPG Industries, Inc. Method and apparatus for forming glass fibers. 3,733,188, 5-15-73, Cl. 65-2.000.

Jensen, Warren, to Atco Enterprises. Lawn mower apparatus. 3,744,223, 7-10-73, Cl. 56-10.200.

Jensen, Wayne Emil. Tire peeling device. 3,747,177, 7-24-73, Cl. 29-78.000.

Jensen, William S., to Turf-Vac Corporation. Lift dump vacuum apparatus. 3,744,653, 7-10-73, Cl. 214-50.000.

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Jenssen, Sverre Knut, to Alfa-Laval AB. Plate heat exchanger. 3,731,737, 5-8-73, Cl. 165-167.000.

Jentges, Heribert; and Burz, Oskar, to Siemens Aktiengesellschaft. Combined specimen removal and vacuum distillation apparatus. 3,722,872, 3-27-73, Cl. 266-34.00r.

Jentoft, Arthur P., to Wasco Products, Inc. Fire and smoke ventilator. 3,738,253, 6-12-73, Cl. 98-86.000.

Jentsch, Alfred C., Jr.; Taylor, Edward I., Jr.; and Shukoff, Walter, to USM Corporation. Hot log shear. 3,780,606, 12-25-73, Cl. 83-23.000.

Jentsch, Dietrich, to Dorken & Mankel KG, Firma. Arrangement for closing doors and the like. 3,726,043, 4-10-73, Cl. 49-388.000.

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Jerzewski, Lawrence, Jr., to Johnson & Johnson. Adhesive tape package. 3,768,641, 10-30-73, Cl. 206-52.00r.
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Jespersen, Hans Jorgen, to Danfoss A/S. Refrigerant valve. 3,762,180, 10-2-73, Cl. 62-223.000.
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Jespersen, Herbert A., to Outboard Marine Corporation. All-terrain vehicle. 3,776,325, 12-4-73, Cl. 180-6.480.
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Jespersen, Paul W., to Georgia-Pacific Corporation. Apparatus for making nonwoven fibrous webs. 3,748,693, 7-31-73, Cl. 19-156.300.
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Jessop, Thomas C., to Eastman Kodak Company. Web guiding apparatus. 3,779,439, 12-18-73, Cl. 226-88.000.
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Jessup, Robert L., to Halliburton Company. Apparatus for conducting controlled well testing operations. 3,743,014, 7-3-73, Cl. 166-69.000.
Jessup, Robert L., to Halliburton Company. Apparatus for conducting controlled well testing operations. 3,762,219, 10-2-73, Cl. 73-155.000.
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Jette, Emile, Jr. Door latch operated switch unit. 3,710,052, 1-9-73, Cl. 200-61.680.
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Jezic, Zdravko, to Dow Chemical Company, The. Difunctional iodonium salts of diphenyl oxide and preparation. 3,734,928, 5-22-73, Cl. 260-332.20r.
Jezic, Zdravko, to Dow Chemical Company, The. Bis(p-phenoxyphenyl)iodonium salts. 3,759,989, 9-18-73, Cl. 260-539.00a.
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Jiruse, Jaroslav, to Adamovske strojirny narodni podnik. Device for preselection of the number of printed paper sheets. 3,734,016, 5-22-73, Cl. 101-232.000.
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Job, Richard W.: *See—*
Brooks, Dean P.; Fell, Ferol S.; Garrison, Harold Keith; and Job, Richard W., 3,741,051.
Jobe, John D., to Shell Oil Company. Flame photometer using vibrating slit monochromator. 3,743,425, 7-3-73, Cl. 356-87.000.
Jobin-Yvon: *See—*
Pieuchard, Guy; Flamand, Jean; and Labeyrie, Antoine, 3,721,487.
Jobkes, Jakob: *See—*
Motek, Herbert; and Jobkes, Jakob, 3,716,196.
Jobst, Ludwig. Classifying apparatus, particularly for sorting coins. 3,763,871, 10-9-73, Cl. 133-3.00r.
Jobst, Raymond C.: *See—*
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Joch, Wilhelm: *See—*
Rogler, Walter; Lenz, Arnold; and Joch, Wilhelm, 3,743,711.
Jochim, La Vergne C., to Ti-Mind Incorporated. Timer with adjustable conductive brush means and resettable conductive pins. 3,710,045, 1-9-73, Cl. 200-37.00r.
Jochimski, Stefan L. Head vibrator. 3,763,853, 10-9-73, Cl. 128-36.000.
Jochmann, Bonnie K.; and Mervin, Torbjorn, to ESB Incorporated. Method for the preparation of charged cadmium-nickel powder and battery electrode power made thereby. 3,741,749, 6-26-73, Cl. 75-.50a.
Jochum, Christian: *See—*
Bartmann, Wilhelm; Alpermann, Hans-Georg; and Jochum, Christian, 3,772,297.
Jochum, Peter: *See—*
Schmitt, Werner; Purrmann, Robert; Jochum, Peter; and Zahler, Wolf-Dietrich, 3,751,395.
Joco Incorporated: *See—*
Foxhall, Ollie C., 3,720,224.
Jocyno, Henry: *See—*
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Jodoin, Joseph J. L. Smoking pipe and method of manufacture. 3,750,677, 8-7-73, Cl. 131-172.000.
Johanson, Lars. Tool holding system. 3,711,105, 1-16-73, Cl. 279-

Jodoin, Joseph J. L. Smoking pipe and method of manufacture. 3,750,677, 8-7-73, Cl. 131-172.000.
Joeckel, Stanley V., to Lincoln Manufacturing Company, Inc. Electric gull type cooking device. 3,738,256, 6-12-73, Cl. 99-400.000.
Joeckel, Stanley V., to Lincoln Manufacturing Company, Inc. Metal clad hairpin shaped electric interleaved heating elements. 3,781,525, 12-25-73, Cl. 219-532.000.
Joel, Amos Edward, Jr., to Bell Telephone Laboratories, Incorporated. Equipment for switching calls from remote trunk groups to distant centralized operator service center. 3,731,000, 5-1-73, Cl. 179-8.00r.
Joel, Amos Edward, Jr., to Bell Telephone Laboratories, Incorporated. Traffic recording system. 3,760,110, 9-18-73, Cl. 179-8.00a.
Joerg, Hans: *See—*
Storm, Elmar; Joerg, Hans; and Vogel, Christian, 3,776,912.
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Joerns, Guenter: *See—*
Von Gottberg, Horst; Schaefer, Gerd; and Joerns, Guenter, 3,709,190.
Joesting, Frederick D., to Honeywell Inc. Diaphragm logic switching circuit. 3,769,995, 11-6-73, Cl. 137-829.000.
Joffe, Edward Mattnew: *See—*
Baier, Frederick Lawrence; and Joffe, Edward Mattnew, 3,751,287.
Joffe, Frederick M.: *See—*
Lubsen, Timothy A.; Joffe, Frederick M.; Gregory, Paulee; and McSwiggin, Joseph R., 3,713,842.
Joh, Yasushi; and Mimura, Koji, to Mitsubishi Rayon Company Limited. Acrylic fiber and a method for manufacturing the same. 3,718,716, 2-27-73, Cl. 260-898.000.
Joh, Yasushi; and Sugimori, Teruhiko, to Mitsubishi Rayon Company Limited. Process for polymerizing vinyl compounds using premixed redox catalyst of nitrous compounds/sulfoxy compounds. 3,736,302, 5-29-73, Cl. 260-79.3mu.
Johanna Plastics, Inc.: *See—*
Ludlow, Thomas B.; and Champlin, Keith S., 3,753,092.
Johannes, Conrad: *See—*
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Johannes, Conrad; deceased (by Johannes, Marie Jose; administrator); Carbonnel, Emile; Sauty, Pierre; and Grenier, Maurice, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Method of generation of frigorific enegy and a refrigerator utilizing said method. 3,750,417, 8-7-73, Cl. 62-114.000.
Johannes, John H. Animal crate for pick-up trucks. 3,773,017, 11-20-73, Cl. 119-17.000.
Johannes, Marie Jose: *See—*
Johannes, Conrad; Carbonnel, Emile; Sauty, Pierre; and Grenier, Maurice, 3,750,417.
Johannesen, Warren: *See—*
Kahn, Alexander; Kahn, Charles; and Johannesen, Warren, 3,757,317.
Johannessen, Paul R., to Megapulse Incorporated. Apparatus and method for radio-frequency pulse generation in tuned radio-frequency loads. 3,711,725, 1-16-73, Cl. 307-108.000.
Johannessen, Rolf; and Mun, Joseph, to International Standard Electric Corporation. Radio altimeter with rate of height change indication. 3,761,946, 9-25-73, Cl. 343-12.00a.
Johannesson, Nils Olof, to Telefonaktiebolaget L M Ericsson. Picture telephone system at which the video signal is adapted to the character of the picture. 3,781,477, 12-25-73, Cl. 179-2.0tv.
Johanningmeier, Charles E., to International Minerals & Chemical Corporation. Method and apparatus for controlling dust. 3,780,495, 12-25-73, Cl. 55-1.000.
Johannisson, Dag O. A.; and Wictorin, Ake G. R., to AGA Aktiebolag. Absorption unit for the absorption of carbon dioxide. 3,752,654, 8-14-73, Cl. 23-284.000.
Johannsen, Hans Werner; and Oberheim, Robert, to Braun Aktiengesellschaft. Projector for slides. 3,743,401, 7-3-73, Cl. 353-52.000.
Johannsen, Kenneth L. Retractable bicycle training wheels. 3,746,367, 7-17-73, Cl. 280-301.000.
Johansen, Bent Georg: *See—*
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Johansen, Bent Georg, to Bristol-Myers Company. Hair curler with plastic integral ring. 3,773,057, 11-20-73, Cl. 132-33.00r.
Johansen, Geni G.: *See—*
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Johansen, Jan, to A/S Grorud Jernvarefabrik. Hinge. 3,728,758, 4-24-73, Cl. 16-149.000.
Johansen, Rolf J., to Kamyr Aktiebolag. Strainer device in vessels for treating cellulosic pulp. 3,760,948, 9-25-73, Cl. 210-342.000.
Johanson, Donald Lee; and Stutz, Rolf, to Audivox, Inc. Hearing aid having recessed microphone. 3,777,077, 12-4-73, Cl. 179-107.00r.
Johanson, Edwin S.; Chervenak, Michael C.; and Wolk, Ronald H., to Hydrocarbon Research, Inc. Hydrogenation of coal using unreduced catalyst. 3,769,198, 10-30-73, Cl. 208-10.000.
Johanson, Lars. Tool holding system. 3,711,105, 1-16-73, Cl. 279-1.00r.
Johanson Manufacturing Corporation: *See—*
Buehler, Bert E., 3,757,177.
Johansson, Arnold Johannes, to Aktiebolaget Bofors. Device for a sight. 3,772,960, 11-20-73, Cl. 89-41.00t.
Johansson, August V., to General Electric Company. Supplemental wheel-slip control system. 3,743,900, 7-3-73, Cl. 318-52.000.
Johansson, Axel Harry, to Aktiebolaget Electrolux. Multi-purpose vacuum cleaner nozzle. 3,727,263, 4-17-73, Cl. 15-373.000.
Johansson, Bengi Henri, to Aktiebolaget Bofors. Circuit system for compensating the influence of the back-ground radiation on the picture display in an infra-red camera. 3,751,586, 8-7-73, Cl. 178-7.100.
Johansson, Bo Emil: *See—*
Andersson, Tage Vilhelm Leander; Isheden, Lars Rune; Johansson, Bo Emil; and Warring, Stig Erik, 3,710,372.
Johansson, Erik Lennart. Apparatus for winding sewing thread upon bobbins. 3,741,492, 6-26-73, Cl. 242-20.000.
Johansson, Erik Lennart Waldemar, to Lidkopings Mekanisha Verkstads AB. Device for handling a ring-formed workpiece. 3,746,523, 7-17-73, Cl. 51-236.000.
Johansson, Erik Lennart Waldemar, to SKF Industrial Trading and Development Company N.V. Hydrostatic bearing. 3,754,800, 8-28-73, Cl. 308-9.000.
Johansson, Hans Elof: *See—*
Hede, Nils Erik Allan; Hellner, Lars Ivar; and Johansson, Hans Elof, 3,717,455.
Hellner, Lars Ivar; Hede, Nils Erik Allan; and Johansson, Hans Elof, 3,740,213.
Johansson, Ingemar Haldor; and Joustra, Marius Klaus, to Pharmacia Fine Chemicals AB. Method for the preparation of a separation medium for gel filtration. 3,728,290, 4-17-73, Cl. 260-2.50n.
Johansson, Jarl; and Urnquist, Jan. Process for the catalytic amination of aliphatic alcohols, aminoalcohols and mixtures thereof. 3,766,184, 10-16-73, Cl. 260-261.50y.
Johansson, Johan Gunnar Inge, to Defibrator Aktiebolag. Double-acting axial thrust and radial bearings for grinding apparatus. 3,737,109, 6-5-73, Cl. 241-37.000.
Johansson, John; and Skinner, Wilfred A., to Stanford Research Institute. Alpha-hydrazino-ornithine and precursors thereof. 3,754,027, 8-21-73, Cl. 260-534.00r.
Johansson, Karl Ingemar Wenzel: *See—*
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Johansson, Lennart J. I.; Andersson, Sven E.; and Eliasson, Jan A., to Forenade Fabriksverken. Safety lock for breech opening for firearms. 3,765,115, 10-16-73, Cl. 42-1.00n.
Johansson, Lennart Ragnar; and Tenne, Lave, to Hasselblad, Fritz Victor. Mechanical differential for an exposure meter at photographic cameras. 3,742,829, 7-3-73, Cl. 95-10.0fs.
Johansson, Nils Soren Lennart: *See—*
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Johansson, Paul; Landa, Torstein; and Larker, Hans, to Allmanna Svenska Elektriska Aktiebolaget. Means in furnaces for vacuum-pressure-sintering. 3,775,043, 11-27-73, Cl. 432-205.000.
Johansson, Stig G. O.: *See—*
Bennich, Hans H:son; Johansson, Stig G. O.; and Wide, Leif E., 3,720,760.
Johansson, Stig R.; Johnsson, Lars B.; and Strid, Karl-Gustav A., to Industrilaboratoriet Aktienbolag. Method of determining the risk of explosion of a preferably gaseous medium and apparatus for carrying out this method. 3,768,313, 10-30-73, Cl. 73-432.00.
Johansson, Sven-Goran, to Barracudaverken AB. Camouflaging means for preventing or obstructing detection by radar reconnaissance. 3,733,606, 5-15-73, Cl. 343-18.00a.
Johansson, Torbjorn, to Allmanna Svenska Elektriska Aktiebolaget. Device for clamping a winding bar in tangential direction. 3,739,214, 6-12-73, Cl. 310-214.000.
Johmann, Frank T. Die gameboard and die throwing roll. 3,779,556, 12-18-73, Cl. 273-134.00a.
John, Erwin Roy, to Neuro-Data, Inc. Sensation-cognition computer employing "t" test calculations. 3,780,724, 12-25-73, Cl. 128-2.10b.
John, John S., to ACF Industries, Incorporated. Valve with powder charge emergency operator. 3,771,551, 11-13-73, Cl. 137-436.000.
John, Robert S., Jr., to Bell & Howell Company. Apparatus for recording television images on film. 3,723,647, 3-27-73, Cl. 178-6.70r.
John, T. Grant: *See—*
Aukrust, Egil; and John, T. Grant, 3,754,900.
John, Veit, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Lubricating system for internal combustion engines. 3,763,960, 10-9-73, Cl. 184-6.130.
Johne, Albrecht; Forster, Karl-Heinz; and Schanze, Klaus, to VEB Polygraph Leipzig, Kombinat fur Polygraphische Maschinen und Ausrustungen. Arrangement for controlling the stacking of printed



sheets in multiple color rotary printing machines. 3,762,320, 10-2-73, Cl. 101-183.000.
Johne, Hans: *See—*
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Johne, Hans; and Graupner, Eberhard, to VEB Polygraph Leipzig Kombinat fur Polygraphische Maschinen und Ausrustungen. Device for cleaning color stirrer and color chests of printing machines. 3,750,570, 8-7-73, Cl. 101-364.000.
Johne, Rudolf; and Bechter, Max, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Heater for use in the manufacture of plastics filaments. 3,741,716, 6-26-73, Cl. 432-59.000.
Johnk, Poul, to Novo Terapeutisk Laboratorium A/S. Hexahydrophenanthrene derivatives. 3,716,578, 2-13-73, Cl. 260-488.0cd.
Johnke, Robert E.: *See—*
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Johns, Antony; Tiley, Michael; and McDonnell, Patrick J., to Production Engineering Research Association of Great Britain. Electrochemical machining. 3,723,268, 3-27-73, Cl. 204-129.100.
Johns, Douglas A., to Scientific Instruments, Inc. Microminiature center mountable on the engine. 3,758,756, 9-11-73, Cl. 235-92.0mt.
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Johns, Herman S., to Wellman Industries, Inc. Apparatus for coiling strand material such as textile silver. 3,728,760, 4-24-73, Cl. 19-159.00r.
Johns, Herman S., to Wellman Industries, Inc. Sliver can donning and doffing apparatus for coilers. 3,729,776, 5-1-73, Cl. 19-159.00a.
Johns, Herman S., to Wellman Industries, Inc. Apparatus for coiling textile sliver. 3,736,625, 6-5-73, Cl. 19-159.00r.
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Scott, Donald D., 3,756,692.
Zimmerman, Daniel D., 3,756,490.
Johns, John M. Electric blanket having auxiliary heating element. 3,739,142, 6-12-73, Cl. 219-212.000.
Johns, Mary K. Portable bathtub. 3,755,830, 9-4-73, Cl. 4-177.000.
Johns, Paul A., to Tenneco Inc. Bypass for catalytic reactor. 3,762,163, 10-2-73, Cl. 60-277.000.
Johns, Raymond; and Kuhns, David G., to Safety Research and Development Inc. Turn actuated alarm system for automotive vehicles. 3,778,763, 12-11-73, Cl. 340-55.000.
Johns, William H., to United States Steel Corporation. Collapsible gate for chain-link fence gateway. 3,724,527, 4-3-73, Cl. 160-368.000.
Johns, William H., to United States Steel Corporation. Gate for chain-link fence. 3,740,897, 6-26-73, Cl. 49-381.000.
Johns-Manville Corporation: *See—*
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Brunk, Jack Laurence; and Brosch, Eric Joseph, 3,771,701.
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Goldfield, Joseph; and Greco, Vincent, 3,745,748.
Hannes, George John; Helmick, James William; Dennis, James Arnold; and Current, John Marvin, 3,728,189.
Harris, David Andrew; and Hart, Bruce Edward, 3,726,056.
Hite, Edward Lee; Ramge, Dennis Lee; and Roelf de Muinck, Andre, 3,709,327.
Jennings, Richard Frank, 3,741,742.
Johnson, Charles William, 3,758,013.
Kazmierski, John, Jr.; Lawson, Benjamin, Jr.; Thornton, Craig Edward; and Verrelli, Gerard Louis, Jr., 3,730,566.
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Sloane, Ivan Henry; Mailhot, Armand Ludovic; Belivcau, Roger Louis; and Sawhney, Harbans Lal, 3,729,917.
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Messerschmidt, Harold J.; Heyman, Karl; and Johnsen, Bernadou W., II, 3,728,180.
Messerschmidt, Harold J.; Heyman, Karl; and Johnsen, Bernadou W., II, 3,736,197.
Messerschmidt, Harold J., Jr.; Heyman, Karl; and Johnsen, Bernadou W., II, 3,725,158.
Messerschmidt, Harold J., Jr.; Heyman, Karl; and Johnsen, Bernadou W., II, 3,730,899.
Johnsen, Carsten Ingeman. Generating alternating and direct electric currents by modified fuel cells. 3,751,302, 8-7-73, Cl. 136-86.00e.
Johnsen, Eric C., to Gem Products, Inc. Refrigerator fan motor. 3,746,289, 7-17-73, Cl. 248-14.000.
Johnsen, Raymond K., to Rohr Corporation. Ejector nozzle having primary nozzles communicating with exhaust gases in plenum chamber. 3,747,874, 7-24-73, Cl. 244-53.000.
Johnsen, Vernon L.; Burnett, Raymond S.; and Matern Eugene V., to Wilson Pharmaceutical & Chemical Corporation. Method of preparing polypeptides. 3,738,913, 6-12-73, Cl. 195-29.000.
Johnson & Johnson: *See—*
Boricheski, Joseph, 3,746,680.
Buese, George J., 3,728,206.
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Chapman, George, Jr., 3,769,747.
Dean, William Bruce, 3,716,446.
Drelich, Arthur H., 3,720,562.
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Link, Martin, 3,724,651.
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Mayer, Warren C., 3,720,573.
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Petterson, Dewitt R.; Assenza, John S.; and Kipp, Henry A. W., 3,734,080.
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Johnson, Albert Henry, to United Kingdom of Great Britain and Northern Ireland, Minister of Aviation Supply in her Britannic Majesty's Government of the. Coaxial cavity resonator with



separate controls for frequency tuning and for temperature coeffi-

separate controls for frequency tuning and for temperature coefficient f resonant frequency adjustment. 3,733,567, 5-15-73, Cl. 333-82.00b.
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Johnson, Alfred D.; Say, Donald L.; and Smithgall, Harry E., to GTE Sylvania Incorporated. Multibeam single gun electron discharge device. 3,714,489, 1-30-73, Cl. 313-69.00r.
Johnson, Alfred D., to GTE Sylvania Incorporated. Support and high voltage protective means for a cathode ray tube. 3,716,662, 2-13-73, Cl. 178-7.800.
Johnson, Algie M.: *See—*
Overcast, Cecil L.; Johnson, James D.; and Edwards, Laurren C., Sr., 3,760,900.
Johnson, Allan G.: *See—*
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Johnson, Allan M., to CCI Aerospace Corporation. Ion exchange demineralizing system. 3,715,287, 2-6-73, Cl. 204-301.000.
Johnson, Allan M. Electric demineralizing apparatus. 3,755,135, 8-28-73, Cl. 204-301.000.
Johnson, Allan S., to Tapmatic Corporation. Tapping attachment adapted for numerical control. 3,717,892, 2-27-73, Cl. 10-89.00f.
Johnson, Allen M. L., to United States of America, Army. Link-type hypersonic centrifuge. 3,745,832, 7-17-73, Cl. 73-432.00r.
Johnson, Alvin O.; and Rice, Herbert D., to Stanley Home Products, Inc. Swivel mop head. 3,768,110, 10-30-73, Cl. 15-144.00a.
Johnson, Anderson F., Jr.: *See—*
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Johnson, Anna D. Driver alertness alarm system. 3,718,921, 2-27-73, Cl. 340-279.000.
Johnson, Archie L.; and Post, Herbert H., to United States Steel Corporation. Flexible magnet yoke for a crane. 3,773,185, 11-20-73, Cl. 212-129.000.
Johnson, Arnold C., to Veeder Industries, Inc. TV channel indicator counter. 3,708,114, 1-2-73, Cl. 235-103.000.
Johnson, Arnold N.; and Nudenberg, Walter, to Uniroyal, Inc. Halohydrin synthesis. 3,733,313, 5-15-73, Cl. 260-80.780.
Johnson, Arthur C.; and Herrman, Robert F., to Inductherm Corporation. Power control and phase angle correcting apparatus. 3,731,183, 5-1-73, Cl. 323-24.000.
Johnson, Arthur F. Reduction of aluminum with improved reduction cell and anodes. 3,738,918, 6-12-73, Cl. 204-290.00r.
Johnson, Arthur H., to Bendix Corporation, The. Automatic oxygen breathing apparatus. 3,768,466, 10-30-73, Cl. 128-142.200.
Johnson, Arthur J. Outdoor ground tile. 3,775,918, 12-4-73, Cl. 52-169.000.
Johnson, Arthur L.: *See—*
Goldman, Martin; and Johnson, Arthur L., 3,719,486.
Johnson, Arthur L., to Eastman Kodak Company. Metallocene photoconductors used in electrophotography. 3,711,280, 1-16-73, Cl. 96-1.600.
Johnson, Arthur O. Fuel flow restricting and filter assembly. 3,719,595, 3-6-73, Cl. 210-445.000.
Johnson, Axel R.; and Wolk, Ronald H., to Hydrocarbon Research, Inc. Hydrogenation of residuum. 3,725,247, 4-3-73, Cl. 208-111.000.
Johnson, Benjamin Allen; Royal, Stephen L.; and Ackerman, Robert A., to Eastman Kodak Company. Apparatus for making coupler dispersions. 3,773,302, 11-20-73, Cl. 259-22.000.
Johnson, Bernard A.: *See—*
Voda, Edward R.; and Johnson, Bernard A., 3,766,451.
Johnson, Bernard H.: *See—*
Dunaway, Jack W.; Woodland, Michael W.; and Johnson, Bernard H., 3,715,257.
Johnson, Bernard H., to Gatco Rotary Bushing Company. Rotary tool holder. 3,721,503, 3-20-73, Cl. 408-238.000.
Johnson, Bernard Steven Woodward, to Imperial Chemical Industries Limited. Polyolefine composition. 3,767,638, 10-23-73, Cl. 260-93.700.
Johnson, Berthuld Thomas. Scall apparatus. 3,752,245, 8-14-73, Cl. 177-208.000.
Johnson, Bertram C., Jr.: *See—*
Carman, Robert L., Jr.; Steinmetz, Lloyd L.; and Johnson, Bertram C., Jr., 3,757,249.
Johnson, Bertrand Harold, to Bell Telephone Laboratories, Incorporated. Light emitting device. 3,774,021, 11-20-73, Cl. 240-2.100.
Johnson, Betty S.: *See—*
Pera, John D.; and Johnson, Betty S., 3,771,989.
Johnson, Boyd R. Non-corrosive aquarium construction and method. 3,769,935, 11-6-73, Cl. 119-5.000.
Johnson, Bremen I.: *See—*
Nolan, John L.; Rivin, Arnold A.; and Johnson, Bremen I., 3,779,247.
Johnson, Bruce K.; and Shelton, William A., to Polaroid Corporation. Portrait camera having synchronized flash illumination source. 3,720,145, 3-13-73, Cl. 95-11.50r.
Johnson, Bruce K., to Polaroid Corporation. Range responsive flash unit. 3,721,169, 3-20-73, Cl. 95-11.001.
Johnson, Bruce K., to Polaroid Corporation. Apparatus for adapting a reflex camera to use with a monocular microscope. 3,721,170, 3-20-73, Cl. 95-12.000.
Johnson, Bruce K., to Polaroid Corporation. Exposure compensation arrangement for a variably focused polarizing system. 3,762,298, 10-2-73, Cl. 95-44.00r.
Johnson, Bruce K., to Polaroid Corporation. Unitary trim control. 3,774,510, 11-27-73, Cl. 95-11.00r.
Johnson, Bruce K., to Polaroid Corporation. Folding tripod adapter. 3,774,519, 11-27-73, Cl. 95-86.000.
Johnson, Bruce L., to Elpower Corporation. Celled battery elcctrolyte containing a polyglycol polymer and a process for locating same within a lead-acid cell. 3,776,779, 12-4-73, Cl. 136-157.000.
Johnson, Burnett H.; and Huff, Terrence, to Esso Research and Engineering Company. Rewettable battery separator. 3,765,948, 10-16-73, Cl. 136-146.000.
Johnson, Byron L., to High Voltage Power Corporation. Transposition of insulating core windings. 3,731,244, 5-1-73, Cl. 336-187.000.
Johnson, Byron W.: *See—*
Huntzinger, Gerald O.; Sheldrake, Leonard J.; and Johnson, Byron W., 3,738,339.
Johnson, Calvin K.; and Laitar, Robert A., to CPC International Inc. Foundry core compositions. 3,755,229, 8-28-73, Cl. 260-29.300.
Johnson, Calvin N., 33 1/3 to Chilton, Kenneth M. Adjustable mattress. 3,739,409, 6-19-73, Cl. 5-345.000.
Johnson, Cameron D.; Mayer, Gerald M.; and Morency, Roger L., to United States of America, Navy. Hydrodynamic shock simulator. 3,729,980, 5-1-73, Cl. 73-12.000.
Johnson, Carl A. Combination steady-rest and tool holder. 3,771,392, 11-13-73, Cl. 82-35.000.
Johnson, Carl E.: *See—*
Meyer, Robert J.; Johnson, Carl E.; and Crouthamel, Carl E., 3,746,614.
Johnson, Carl J.: *See—*
Hohne, John C., Jr.; and Johnson, Carl J., 3,717,780.
Johnson, Carl L. Ore classifier. 3,709,359, 1-9-73, Cl. 209-138.000.
Johnson, Carl W.: *See—*
Voss, Joseph A.; and Johnson, Carl W., 3,764,438.
Johnson, Carl W. Scour pad and method of making the scour pad. 3,772,728, 11-20-73, Cl. 15-209.00r.
Johnson, Cecil J.: *See—*
Leas, Lawrence E.; Leas, Robert L.; and Johnson, Cecil J., 3,751,906.
Leas, Lawrence E.; Leas, Robert L.; and Johnson, Cecil J., 3,753,671.
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Johnson, Cedric E.: *See—*
Johnson, Stephen W.; Johnson, Roma B.; Johnson, Susan; and Johnson, Cedric E., 3,774,325.
Johnson, Charles D.; and Droegemueller, James T., to Fairmont Railway Motors, Inc. Device for imbedding and removing elongated members. 3,709,464, 1-9-73, Cl. 254-29.00r.
Johnson, Charles L., to Procter & Gamble Company, The. Carton having a bag-like liner. 3,768,719, 10-30-73, Cl. 229-14.00b.
Johnson, Charles L., to United States of America, National Aeronautics and Space Administration. Molding process for imidazopyrrolone polymers. 3,772,418, 11-13-73, Cl. 264-284.000.
Johnson, Charles R.: *See—*
Gross, Leonard B.; Johnson, Charles R.; and Nattsas, Stephen C., 3,715,914.
Johnson, Charles S., to Baker Hydro, Inc. Semi-seal device. 3,779,667, 12-18-73, Cl. 415-170.00a.
Johnson, Charles W.: *See—*
Osmun, Dean W.; Johnson, Charles W.; and Plummer, Ray A., 3,738,424.
Johnson, Charles W. Garbage grinder stuffer. 3,765,275, 10-16-73, Cl. 81-1.00r.
Johnson, Charles Wayne: *See—*
Smith, Arthur W.; Plummer, Ray A.; and Johnson, Charles Wayne, 3,722,589.
Smith, Arthur W.; Plummer, Ray A.; and Johnson, Charles Wayne, 3,722,594.
Johnson, Charles William, to Johns-Manville Corporation. Skein timer-device. 3,758,013, 9-11-73, Cl. 226-199.000.
Johnson, Chester H.: *See—*
Fikse, Tyman H.; Scheumann, Richard E.; and Johnson, Chester H., 3,762,174.
Johnson, Christopher Linley; Whitmarsh, John Robert William; and Basford, Kenneth Arnold, to Secretary of State for Defence, mesne. Centrifugal governor. 3,713,344, 1-30-73, Cl. 73-546.000.



Johnson, Christopher Linley; and Cantwell, Hugh Francis, to State for Defence, The Secretary of. Fluid flow control apparatus. 3,756,285, 9-4-73, Cl. 137-810.000.
Johnson, Clair Allen, to Texas Instruments, Incorporated. Hermetically sealed electronic package. 3,753,054, 8-14-73, Cl. 317-234.00r.
Johnson, Clarence. Force measuring instrument. 3,718,038, 2-27-73, Cl. 73-141.00a.
Johnson, Clarence R.; and Kidder, Jay T. Bed and lounge unit. 3,729,753, 5-1-73, Cl. 5-2.00r.
Johnson, Clarence S.: *See—*
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Johnson, Clarence S.; and Langguth, Arthur F., to United States of America, Navy. Anti-shark drogue dart. 3,715,828, 2-13-73, Cl. 43-6.000.
Johnson, Clarence S. Universal replaceable weir assembly. 3,724,666, 4-3-73, Cl. 210-169.000.
Johnson, Clarence S.; and Langguth, Arthur F., to United States of America, Navy. Method of making a protective diving suit. 3,725,173, 4-3-73, Cl. 156-250.000.
Johnson, Clarence S.; and Langguth, Arthur F., to United States of America, Navy. Full view diver's mask. 3,725,953, 4-10-73, Cl. 2-14.00w.
Johnson, Clarence S. Water heater. 3,741,169, 6-26-73, Cl. 122-367.00c.
Johnson, Clarence S. Boiler tube end-fitting assembly. 3,747,572, 7-24-73, Cl. 122-511.000.
Johnson, Clarence S. Temperature responsive valve assembly. 3,753,526, 8-21-73, Cl. 236-99.000.
Johnson, Clarence S.; and Baldridge, Henry D. Electric anti-shark dart. 3,771,249, 11-13-73, Cl. 43-6.000.
Johnson, Clifford; Duncan, Martin D.; and Sannes, Laurence A. Automatic sandblast machine. 3,768,210, 10-30-73, Cl. 51-12.000.
Johnson, Clifford T.; Neuhaus, Herbert M.; Silver, Wallace E.; Whiting, Gordon D.; and Larson, Richard A. N., to United States of America, Navy. Method and apparatus for manufacture of and improvements in explosive transfer link. 3,713,361, 1-30-73, Cl. 8622.000.
Johnson, Craig E.; and Henderson, Larry D., to United States of America, Navy. Nitrocellulose containing adhesive compositions. 3,758,325, 9-11-73, Cl. 106-180.000.
Johnson, Curt H., to Curty, Inc. Lumbo-sacral support. 3,717,143, 2-20-73, Cl. 128-78.000.
Johnson, Cydney Ashley: *See—*
Bendell, Sidney Leo; and Johnson, Cydney Ashley, 3,767,853.
Johnson, Dale R.: *See—*
Snellman, Donald L.; Davis, Ernest D.; and Johnson, Dale R., 3,772,970.
Johnson, Dale Richard, to Norfin, Inc. Retainer for sheet transfer in sorting machine. 3,765,670, 10-16-73, Cl. 270-58.000.
Johnson, Dale W.; Grounds, Robert B.; and Langford, Donald C., to D.B.F.D. Enterprises. Beverage mixer and dispenser. 3,723,851, 3-27-73, Cl. 222-132.000.
Johnson, Daniel; and Loft, Arne, to General Electric Company. Gated amplifier control with provision for supplementary control. 3,753,128, 8-14-73, Cl. 328-71.000.
Johnson, Daniel H.; and Johnson, Harry T. Wind deflector for a towed trailer. 3,768,854, 10-30-73, Cl. 296-1.00s.
Johnson, Darrel D.: *See—*
Fountain, Richard W.; and Johnson, Darrel D., 3,750,920.
Johnson, David A.; and Wickersham, Arthur F., to Stanford Research Institute. Spark-gap triggering system. 3,710,178, 1-9-73, Cl. 315-149.000.
Johnson, David Emil, to Mobil Oil Corporation. Method and apparatus for splicing foam sheet material. 3,769,124, 10-30-73, Cl. 156-159.000.
Johnson, David G.: *See—*
Woerman, Delwin G.; Johnson, David G.; and Murphy, Donald F., 3,747,688.
Johnson, David L. Diving board apparatus having a diving board telescopically mounted in a support frame for compact portability. 3,767,193, 10-23-73, Cl. 272-66.000.
Johnson, David R.: *See—*
Bon, Charles K.; and Johnson, David R., 3,759,660.
Johnson, David W., to Arrow-Hart, Inc. Two part casing for trigger switch with one part mounting all switch contact members. 3,766,348, 10-16-73, Cl. 200-157.000.
Johnson, Dean W., to Burcliff Industries, Inc. Integrated electrical control device. 3,772,622, 11-13-73, Cl. 335-202.000.
Johnson, Delmar R.; and Precin, Raymond J., to Ampex Corporation. Tape transport with constant take-up tension. 3,747,872, 7-24-73, Cl. 242-206.000.
Johnson, Delmar R., to Ampex Corporation. Fast wind tape transport with tension control. 3,772,469, 11-13-73, Cl. 179-100.20t.
Johnson, Dennis J.: *See—*
Alcivar, Ernesto A., 3,746,789.
Johnson, Dennis William: *See—*
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Johnson, Derwyn C.: *See—*
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Johnson, Derwyn C., to Canada, Her Majesty the Queen in the right of, as represented by the Minister of National Defence. Energy meter using gas as an energy absorber. 3,747,401, 7-24-73, Cl. 73-190.00r.
Johnson Die & Engineering Co.: *See—*
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Johnson, Verner A., 3,771,216.
Johnson, Verner A., 3,771,480.
Johnson, Don E.: *See—*
Hancock, Bruce Jay; Johnson, Don E.; and Merkley, Zane W., 3,754,147.
Johnson, Donald A.; Milani, Louis V.; and Massini, Anthony L., to Micron Research and Development Corporation. Exercise apparatus for attachment to an overhead frame. 3,716,232, 2-13-73, Cl. 272-63.000.
Johnson, Donald G. Hair spraying apparatus. 3,709,438, 1-9-73, Cl. 239-417.500.
Johnson, Donald L. Log flacing and parting apparatus. 3,744,539, 7-10-73, Cl. 144-176.000.
Johnson, Donald L. Blade assemblies for flacing apparatus. 3,776,288, 12-4-73, Cl. 144-235.000.
Johnson, Donald M.: *See—*
Henderson, James R.; Johnson, Donald M.; and Muramoto, Michiya, 3,748,095.
Johnson, Donald R.: *See—*
Carter, Elbert P.; Johnson, Donald R.; McErlane, James E.; Nadeau, Richard G.; and Nieuweboer, Gerrit, 3,770,382.
Johnson, Donald R., to Cincinnati Milacron-Heald Corporation. Machine tool. 3,750,343, 8-7-73, Cl. 51-50.00r.
Johnson, Douglas, to General Motors Corporation. Combustion apparatus. 3,724,207, 4-3-73, Cl. 60-39.74r.
Johnson, Douglas; and Mar, Henry M., to General Motors Corporation. Duct for hot gas. 3,752,225, 8-14-73, Cl. 165-47.000.
Johnson, Douglas, to General Motors Corporation. Casing joining. 3,772,767, 11-20-73, Cl. 29-507.000.
Johnson, Douglas, to General Motors Corporation. Combustion apparatus. 3,780,529, 12-25-73, Cl. 60-39.360.
Johnson, Duane M.: *See—*
Little, Steven M.; Lyons, John H.; Noles, Ronald C.; St. Amand, Pierre; Hazelton, Donald R.; Johnson, Duane M.; and Riester, James J., 3,736,876.
Johnson, Duane M.; and Hazelton, Donald R., to United States of America, Navy. Pyrotechnic composition for generating lead based smoke. 3,769,107, 10-30-73, Cl. 149-19.600.
Johnson, Dwight; and Mizuno, William G., to Economics Laboratory Inc. Treatment of water used in heat transfer equipment. 3,715,307, 2-6-73, Cl. 210-58.000.
Johnson, E. Curtis, to Buckbee-Mears Company. X-ray measuring grid. 3,770,956, 11-6-73, Cl. 250-59.000.
Johnson, E. Curtis; and Hillis, Benjamin F., to Buckbee-Mears Company. Method of forming miniature electrical conductors. 3,776,820, 12-4-73, Cl. 204-15.000.
Johnson, E. Curtis, to Buckbee-Mears Company. Mounting preformed circuits on flexible dielectric substrates. 3,778,899, 12-18-73, Cl. 29-625.000.
Johnson, E. F., Company: *See—*
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Swinehart, Frank, 3,710,040.
Johnson, Edgar G., to Minnesota Mining and Manufacturing Company, mesne. Retroviewer. 3,767,291, 10-23-73, Cl. 350-237.000.
Johnson, Edna F.: *See—*
Johnson, Wilbur D.; and Johnson, Edna F., 3,720,438.
Johnson, Edward B. Silver recovery from photographic wastes. 3,754,743, 8-28-73, Cl. 266-24.000.
Johnson, Edward J.: *See—*
Ketchpel, Paul A., Jr.; Stoutenberg, Carl C.; and Johnson, Edward J., 3,774,302.
Johnson, Edward J., to Stanley Works, The. Pruner. 3,775,846, 12-4-73, Cl. 30-262.000.
Johnson, Edward L.; Buggs, Ralph N.; and Kornmann, Richard L., to Nalco Chemical Company. Sacrificial electrode system for removal of heavy metal ions from waste water. 3,748,240, 7-24-73, Cl. 204-149.000.
Johnson, Edward Robert, to Allied Chemical Corporation. Utilization of urea production effluents. 3,746,528, 7-17-73, Cl. 71-30.000.
Johnson, Edwin: *See—*
Gray, John McCutcheon; Pionke, Jerzy; and Johnson, Edwin, 3,742,793.
Johnson, Edwin W., to General American Transportation Corporation. Handwheel security lock. 3,756,640, 9-4-73, Cl. 292-256.750.
Johnson, Elbert L.: *See—*
Rowls, Garth A.; and Johnson, Elbert L., 3,775,730.



Johnson, Elizabeth W.: *See—*

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Coleman, Margot O.; and Johnson, Elizabeth W., 3,718,529.

Johnson, Elling Z.: *See—*
Back, John H.; Johnson, Elling Z.; Kranc, Stanley J.; and McDowell, Robert D., 3,750,960.

Johnson, Elmer G.; and Von Ohain, Hans P., to United States of America, Air Force. Apparatus for generating ultra high total enthalpy gases with multicomponent flow. 3,739,634, 6-19-73, Cl. 73-147.000.

Johnson, Elmer W. Cartridge. 3,732,826, 5-15-73, Cl. 102-92.700.

Johnson, Elmer W. Nursing bottle. 3,770,154, 11-6-73, Cl. 215-11.00b.

Johnson, Eric C. Covering for mobile home trailers. 3,774,364, 11-27-73, Cl. 52-509.000.

Johnson, Erlon Fitch; Gerber, Jay Calvin; and Crabb, Donald Eugene, to AMP Incorporated. Multiple contact connector. 3,745,512, 7-10-73, Cl. 339-59.00m.

Johnson, Erlon Fitch; and Kopenhaver, Kenneth Oscar, to AMP Incorporated. High voltage connector. 3,747,048, 7-17-73, Cl. 339-75.00r.

Johnson, Erlon Fitch; and Crabb, Donald Eugene, to AMP Incorporated. High voltage terminal strip. 3,753,216, 8-14-73, Cl. 339-198.0ga.

Johnson, Erlon Fitch, to AMP Incorporated. Connector for display tube anode button. 3,760,337, 9-18-73, Cl. 339-94.00r.

Johnson, Ernest D.: *See—*
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Johnson, Ernest H.; and Ricker, Conrad J., to Andrew Corporation. Coaxial cable resistant to high-pressure gas flow. 3,745,232, 7-10-73, Cl. 174-107.000.

Johnson, Ernest H., to Andrew Corporation. Tube corrugating apparatus and method. 3,780,556, 12-25-73, Cl. 72-78.000.

Johnson, Eugene. Transformer mounting assembly. 3,750,992, 8-7-73, Cl. 248-221.000.

Johnson, Eugene L. Pneumatic tire pressure sensor. 3,760,350, 9-18-73, Cl. 340-58.000.

Johnson Farm Machinery Co., Inc.: *See—*
Johnson, Roy W., 3,721,132.

Johnson, Floyd O., to Varian Associates. Electrographic printer. 3,751,157, 8-7-73, Cl. 355-3.000.

Johnson, Forrest H.: *See—*
Schmitt, Robert A.; Betts, Gary W.; Johnson, Forrest H.; and Carlson, Lloyd, 3,719,288.

Johnson, Francis; and Nasutavicus, Wilmonte A., to Dow Chemical Company, The. Novel 3-amino-5-bromo-2H-1,4-thiazines. 3,725,401, 4-3-73, Cl. 260-243.

Johnson, Francis B., to United States of America, Navy, mesne. High resolution aircraft radar antenna. 3,766,561, 10-16-73, Cl. 343-705.000.

Johnson, Frank. Apparatus for measuring unfrozen moisture in snow. 3,757,212, 9-4-73, Cl. 324-65.00r.

Johnson, Frank B.: *See—*
Mann, Ralph W.; and Johnson, Frank B., 3,722,409.

Johnson, Frank Charles: *See—*
Turner, William Neil; and Johnson, Frank Charles, 3,767,773.

Johnson, Frank J.; Walker, Nelson L.; and Ross, John P., to Select-Au-Matic; a partnership composed of Dyna-Craft, Inc. and Samp, Inc. Selective plating system. 3,723,283, 3-27-73, Cl. 204-206.000.

Johnson, Fred W.; and Lloyd, Edward R., to International Business Machines Corporation. Transducer and index mounting arrangement for dictating and transcribing units. 3,743,300, 7-3-73, Cl. 274-4.00j.

Johnson, Frederick O.; and Heinrich, Theodore M., to Westinghouse Electric Corporation. Converter apparatus. 3,713,011, 1-23-73, Cl. 321-27.00r.

Johnson, Frederick O., to Westinghouse Electric Corporation. Converter apparatus. 3,713,012, 1-23-73, Cl. 321-27.00r.

Johnson, Frederick Stanley, 1/3 to Consolidated Concrete Limited and 1/3 to Welch, Herbert T. Slump meters for mobile concrete mixers. 3,731,909, 5-8-73, Cl. 259-177.000.

Johnson, Frederick Stanley, to Consolidated Concrete Limited. Piston construction for concrete pumps. 3,741,078, 6-26-73, Cl. 92-244.000.

Johnson, Frederick W.: *See—*
Gibson, David K.; and Johnson, Frederick W., 3,724,942.
Hagge, John K.; and Johnson, Frederick W., 3,710,251.

Johnson, Frederick W., to Collin's Radio Company. Moisture seal for electrical connector. 3,781,764, 12-25-73, Cl. 339-94.000.

Johnson, Gary R.: *See—*
Kammerer, Archer W., Jr.; and Johnson, Gary R., 3,753,471.

Johnson, Gene A.: *See—*
Gorgie, Frank J.; and Johnson, Gene A., 3,716,832.

Johnson, George A., to Johnson Products Company, Inc. Spirit level with clamping action. 3,750,301, 8-7-73, Cl. 33-379.000.

Johnson, George A. Tire iron. 3,771,581, 11-13-73, Cl. 157-1.220.

Johnson, George B.: *See—*
Ellinghause, Edgar A.; and Johnson, George B., 3,739,132.

Johnson, George E.; and Rohleder, Penelope C., to General Mills, Inc. Cake mix. 3,708,309, 1-2-73, Cl. 99-94.000.

Johnson, George E., to Leviton Manufacturing Co., Inc. Lamp-retaining socket. 3,755,773, 8-28-73, Cl. 339-75.00r.

Johnson, Gerald D., to Portec, Inc. Vibrating screening apparatus. 3,768,647, 10-30-73, Cl. 209-364.000.

Johnson, Gladys M. Anti-skid device for boots and shoes. 3,777,373, 12-11-73, Cl. 36-7.700.

Johnson, Glenn D.: *See—*
Peterman, Charles P.; Johnson, Glenn D.; and Petersen, William H., 3,739,844.

Johnson, Glenn H.: *See—*
Taylor, Marvin A.; Johnson, Glenn H.; and Becker, H. Jack, 3,751,111.

Johnson, Glenn H., to Hudson Products Corporation. Apparatus for controlling movement between relatively reciprocable bodies. 3,722,317, 3-27-73, Cl. 74-527.000.

Johnson, Glenn H., to Hudson Products Corporation. Apparatus for controlling movement between relatively reciprocable bodies. 3,748,918, 7-31-73, Cl. 74-242.13a.

Johnson, Glenn Norman. Lid hinge. 3,713,578, 1-30-73, Cl. 229-44.00m.

Johnson, Glenn W.: *See—*
Flanagan, Robert M.; and Johnson, Glenn W., 3,711,797.

Johnson, Glover Douglas; Nicodemus, Keith Lynn; Schumacher, George Charles; and Slana, Matthew Francis, to Bell Telephone Laboratories, Incorporated. Time division switching system. 3,736,381, 5-29-73, Cl. 179-15.0aq.

Johnson, Glover Douglas, to Bell Telephone Laboratories, Incorporated. Time division switching system. 3,737,586, 6-5-73, Cl. 179-15.0aq.

Johnson, Gordon B.: *See—*
Chill, Leonard; Johnson, Gordon B.; and Weisner, Carl S., 3,761,552.

Johnson, Gordon, Company: *See—*
Crawford, Robert D.; and Johnson, Ralph D., 3,740,793.

Johnson, Gordon, Company, mesne: *See—*
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Johnson, Gordon W.: *See—*
Allen, Thomas E.; Johnson, Gordon W.; Sears, Richard L. M.; Strantz, Chester L.; and Waggoner, John B., 3,771,424.
Habiger, Cyril W.; Hopkins, Donald L.; Johnson, Gordon W.; Norick, William B.; Van Zandt, Rollin P.; and Winters, Frank H., 3,727,628.

Johnson, Hal C.: *See—*
Mitton, Robert E., 3,707,845.

Johnson, Harmon W., to International Business Machines Corporation. Drive circuit for inductive device. 3,763,383, 10-2-73, Cl. 307-270.000.

Johnson, Harold, to California Data Corporation. Electric motor speed sensing. 3,708,737, 1-2-73, Cl. 318-636.000.

Johnson, Harold G.; and Silk, Harry, to United States of America, Navy. Missile. 3,727,569, 4-17-73, Cl. 114-20.00r.

Johnson, Harold M.; and Hendrickson, Vergil P., to Caterpillar Tractor Company. Blade lift/centershift controls for motor graders. 3,739,861, 6-19-73, Cl. 172-793.000.

Johnson, Harry Joseph; Wolfelsperger, Robert O.; and Davis, Robert Edgar, to Federal Paper Board Company, Inc. Container forming machine. 3,709,114, 1-9-73, Cl. 93-44.000.

Johnson, Harry T.: *See—*
Johnson, Daniel H.; and Johnson, Harry T., 3,768,854.

Johnson, Harry T.; and Mitchell, Robert K., to Battelle Development Corporation, The. Vane end and tip assembly. 3,723,034, 3-27-73, Cl. 418-268.000.

Johnson, Harvey G., to Joa, Curt G., Inc. Sealing rolls with yieldable shoes. 3,775,203, 11-27-73, Cl. 156-582.000.

Johnson, Henry Douglas, to Random Industries, Inc. Concrete furniture. 3,756,657, 9-4-73, Cl. 297-440.000.

Johnson, Herbert G. Heat exchanger with backed thin tubes. 3,724,537, 4-3-73, Cl. 165-133.000.

Johnson, Herbert G., to Shell Oil Company. Method for forming hollow articles of work-strengthenable plastic materials. 3,757,718, 9-11-73, Cl. 113-120.00r.

Johnson, Howard, Company: *See—*
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Johnson, Howard L., to Caterpillar Tractor Company. Hydraulic clutch booster with supply and exhaust valve. 3,710,909, 1-16-73, Cl. 192-91.00r.

Johnson, Howard R., to Kelsey-Hayes Company. Friction lining composition containing fluorocarbon particles. 3,766,130, 10-16-73, Cl. 260-41.00a.

Johnson, Howard R. Muffler. 3,779,339, 12-18-73, Cl. 181-48.000.

Johnson, Ingolf B.; and Mitchell, Graham R., to General Electric Company. Protective equipment for a series capacitor. 3,751,716, 8-7-73, Cl. 317-12.00a.

Johnson, Irving S., to Lilly, Eli, and Company. Psoriasis treatment. 3,749,784, 7-31-73, Cl. 424-262.000.

Johnson, Irving S., to Lilly, Eli, and Company. Psoriasis treatment with mycophenolic acid. 3,777,020, 12-4-73, Cl. 424-180.000.

Johnson, Jack B.: *See—*





Smith, Leland E.; Johnson, Jack B.; Burks, Kenneth N.; and Copeland, Kenneth D., 3,711,837.

Johnson, Jacob L. Expansion device for mounting an upright column to a base structure. 3,719,376, 3-6-73, Cl. 287-20.300.

Johnson, James D.: *See—*
Overcast, Cecil L.; Johnson, James D.; and Edwards, Laurren C., Sr., 3,760,900.

Johnson, James D.; and Edwards, Laurren C., Sr. Scavenger system for industrial engines. 3,735,594, 5-29-73, Cl. 60-319.000.

Johnson, James E.: *See—*
Applequist, James E.; Johnson, James E.; Akers, Clifford B.; Daniels, Donald V.; James, Richard N.; Roberts, Daniel M.; and Guzy, Darrel James, 3,768,714.

Johnson, James E., to Construction Machinery Company. Power chute racking device therefor. 3,774,741, 11-27-73, Cl. 193-10.000.

Johnson, James R., to Burlington Industries, Inc. Thermochemical cleaning of glass fabrics. 3,762,897, 10-2-73, Cl. 65-3.000.

Johnson, James S., Jr., to United States of America, Atomic Energy Commission. Dual-layer hyperfiltration membrane and process for using same. 3,743,595, 7-3-73, Cl. 210-23.000.

Johnson, Jay: *See—*
Gardner, Charles R.; and Johnson, Jay, 3,717,899.

Johnson, Jerold E. Loading ramp for trucks and trailers. 3,737,058, 6-5-73, Cl. 214-85.000.

Johnson, Jerold W.: *See—*
Wright, Colin S.; Fogelsong, Robert L.; Johnson, Jerold W.; and Jouhal, Teja S., 3,762,309.

Johnson, Jerome L.: *See—*
Peterson, John Allan; and Johnson, Jerome L., 3,762,700.

Johnson, Jesse R., to AVM Corporation. Plug valve having a dual diaphragm three position actuator. 3,709,461, 1-9-73, Cl. 251-58.000.

Johnson, Joe L.: *See—*
Johnson, Tom W.; and Johnson, Joe L., 3,714,958.
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Johnson, Joe W., Jr.: *See—*
Keeney, Bill R.; and Johnson, Joe W., Jr., 3,773,465.

Johnson, John A., to Year-A-Round Cab Corporation. Door closure structure. 3,747,273, 7-24-73, Cl. 49-394.000.

Johnson, John Algot; and Muller, Fred, Jr. Slack-free container coupler. 3,726,550, 4-10-73, Cl. 287-2.000.

Johnson, John D.; and Southworth, Dean L., to Kraftco Corporation. Method for imparting cheese-like flavor to proteinaceous materials. 3,780,182, 12-18-73, Cl. 426-33.00r.

Johnson, John H., to General Electric Company. Stator assembly for single phase induction motor employing aluminum alloy starting winding. 3,774,062, 11-20-73, Cl. 310-184.000.

Johnson, John R.; and Mercer, Benjamin, Jr., to Owens-Illinois, Inc. Container rotating apparatus. 3,735,855, 5-29-73, Cl. 198-33.0ab.

Johnson, John W., Sr. Cleaning mop. 3,753,267, 8-21-73, Cl. 15-210.00r.

Johnson, Joseph H.: *See—*
Bryan, William S.; and Johnson, Joseph H., 3,742,319.

Johnson, Josiah D.: *See—*
Blake, Pressley L.; and Johnson, Josiah D., 3,767,259.

Johnson, Junion L.: *See—*
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Johnson, Justin O., Jr., to Honeywell Inc. Electrochemical oxygen demand apparatus. 3,725,236, 4-3-73, Cl. 204-195.00r.

Johnson, Justin O., Jr., to Honeywell Inc. Electrochemical oxygen demand measuring system. 3,764,508, 10-9-73, Cl. 204-195.00b.

Johnson, Keith L.; and Anderson Harry T., to Swift & Company. Ternary emulsifying agent. 3,726,807, 4-10-73, Cl. 252-356.000.

Johnson, Keith N.; and Hagarman, Paul O., to Texas Instruments, Incorporated. Metallic covering of continuous metallic core material. 3,778,355, 12-11-73, Cl. 204-28.000.

Johnson, Kenneth O.; Kepf, Peter F.; and St. George, Alfred, to General Electric Company. Combustor casing and concentric air bleed structure. 3,777,489, 12-11-73, Cl. 60-226.00r.

Johnson, Kenneth W.: *See—*
Kim, Young Ho; Pattison, John N.; and Johnson, Kenneth W., 3,771,960.

Johnson, Kenneth W. Shock attenuating device. 3,737,154, 6-5-73, Cl. 267-153.000.

Johnson, Kurt Theodore, to Seeburg Corporation of Delaware, The. Credit pulse generating system for vending machines. 3,776,338, 12-4-73, Cl. 194-9.00r.

Johnson, Lambert L., to General Electric Company. Capacity compensation and discrimination circuits for high voltage power supply. 3,772,585, 11-13-73, Cl. 323-7.000.

Johnson, Lance H.: *See—*
Anderson, David W.; Gustafson, Richard N; Johnson, Lance H.; and Sparacio, Francis J., 3,735,360.
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Johnson, Lauren L., to General Motors Corporation. Locomotive excitation and regenerative braking control arrangement. 3,743,901, 7-3-73, Cl. 318-87.000.

Johnson, Lawrence N. Boat cradle for mobile trailers. 3,731,826, 5-8-73, Cl. 214-84.000.

Johnson, Lawrence N. Boat trailer support. 3,756,439, 9-4-73, Cl. 214-84.000.

Johnson, Lawrence P.; and Kitchin, Oscar G., to General Motors Corporation. Overrunning clutch with centering means and unit handled subassembly therefor. 3,732,956, 5-15-73, Cl. 192-45.000.

Johnson, Lawrence P.; and Kitchin, Oscar G., to General Motors Corporation. Spring mounting arrangement for one-way roller clutch. 3,737,015, 6-5-73, Cl. 192-45.000.

Johnson, Lennart B., to Teradyne, Inc. Bussing construction for printed circuit connectors. 3,725,843, 4-3-73, Cl. 339-19.000.

Johnson, Leonard A., to Minnesota Mining and Manufacturing Company. Terminal with grease retaining members. 3,730,970, 5-1-73, Cl. 174-73.00r.

Johnson, Leonard Gregory. Safety garment. 3,774,240, 11-27-73, Cl. 2-51.000.

Johnson, Leonard L.; Mahoney, Tennis; and Hart, Harry L., to Lincoln Logotype Co., Inc. Rotary imprinter with ink wheel having temperature controlled ink pad. 3,736,870, 6-5-73, Cl. 101-329.000.

Johnson, Leonard W.; and Newton, Albert E., to USM Corporation. Weatherstrip. 3,745,053, 7-10-73, Cl. 161-63.000.

Johnson, Leroy E. Marker for farm implement. 3,762,482, 10-2-73, Cl. 172-126.000.

Johnson, Leroy J., to Kidde, Walter, & Company, Inc. Dual position hydraulic outrigger assembly. 3,716,252, 2-13-73, Cl. 280-150.500.

Johnson, Leslie William: *See—*
Cayton, David Walter; and Johnson, Leslie William, 3,749,035.

Johnson, Lewis B., Jr. Alloy for dental amalgam. 3,762,917, 10-2-73, Cl. 75-169.000.

Johnson, Lewis T.: *See—*
Fraser, Hugh B.; Johnson, Lewis T.; Shutt, Melvin S.; and Brookshire, Harry A., 3,727,791.

Johnson, Lloyd E.: *See—*
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Johnson, Logan J.: *See—*
Allen, Jan K.; and Johnson, Logan J., 3,762,481.

Johnson, Lorene M. Container for use as exercise apparatus having fluent mass therein. 3,756,592, 9-4-73, Cl. 272-57.00r.

Johnson, Louis W. Sandcone crusher. 3,734,418, 5-22-73, Cl. 241-207.000.

Johnson, Louis W. Rock crusher. 3,759,453, 9-18-73, Cl. 241-207.000.

Johnson, Lu Wanna M.; and Zachariae, Barbara L. Ornamental construction of safety pins and beads. 3,733,852, 5-22-73, Cl. 63-2.000.

Johnson, Lyman A.: *See—*
Borom, Marcus P.; and Johnson, Lyman A., 3,710,625.
Borom, Marcus P.; and Johnson, Lyman A., 3,759,101.
Borom, Marcus P.; and Johnson, Lyman A., 3,759,108.

Johnson, Lyman A.; and Borom, Marcus P., to General Electric Company. Multi-time constant pneumatic analogue decompression instruments. 3,759,109, 9-18-73, Cl. 73-432.00r.

Johnson, Mark M. Ski with collapsible riding seat. 3,778,077, 12-11-73, Cl. 280-12.00k.

Johnson, Mark S. Method of securing prolapsed vagina in cattle. 3,744,495, 7-10-73, Cl. 128-337.000.

Johnson, Marlyn D.: *See—*
Pfaffendorf, James L.; and Johnson, Marlyn D., 3,740,109.

Johnson, Marvin F. L., to Atlantic Richfield Company. Method for determinaing decrease in hydrogenation dehydrogenation activity and acidic activity of reforming catalyst. 3,759,824, 9-18-73, Cl. 208-139.000.

Johnson, Marvin F. L.; and Graff, Stuart L., to Atlantic Richfield Company. Halide addition and distribution in the reactivation of platinum-rhenium catalysts. 3,781,219, 12-25-73, Cl. 252-415.000.

Johnson, Marvin M.: *See—*
Drehman, Lewis E.; Farha, Floyd E., Jr.; and Johnson, Marvin M., 3,761,539.
Garner, James W.; and Johnson, Marvin M., 3,772,400.
Rohde, Raymond; and Johnson, Marvin M., 3,751,363.

Johnson, Marvin M.; and Tabler, Donald C., to Phillips Petroleum Company. Cracking catalyst restoration with antimony compounds. 3,711,422, 1-16-73, Cl. 252-414.000.

Johnson, Marvin M.; and Tabler, Donald C., to Phillips Petroleum Company. Catalyst, catalyst preparation method, and process for catalytic hydrotreating unsaturated hydrocarbons. 3,743,684, 7-3-73, Cl. 260-681.50r.

Johnson, Marvin M.; and Nowack, Gerhard P., to Phillips Petroleum Company. Selective absorption and hydrogenation of acetylenes. 3,755,488, 8-28-73, Cl. 260-677.00a.

Johnson, Marvin M.; Tabler, Donald C.; and Nowack, Gerhard P., to Phillips Petroleum Company. Formation of bicycloolefins. 3,767,718, 10-23-73, Cl. 260-666.0py.

Johnson, Matthey & Co., Limited: *See—*
Cooper, Brian Sydney; Cronk, John Edward; and Hobbs, Derek John, 3,729,259.
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Johnson, Maurice V., Jr.; Carter, Ned C.; and Koenig, Kenneth W., to Sunkist Growers, Inc. Fruit slicer. 3,759,168, 9-18-73, Cl. 99-545.000.

Johnson, Maurice Vivian, to Wall & Leigh Thermoplastics Limited. Frictional connecting devices. 3,765,054, 10-16-73, Cl. 16-140.000.

Johnson, Michael: *See—*
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Stifle, Jack; and Johnson, Michael, 3,746,794.

Johnson, Nels A. Advancing fish lure. 3,738,046, 6-12-73, Cl. 43-42.390.

Johnson, Nordahl. Quick-acting vise. 3,752,466, 8-14-73, Cl. 269-201.000.

Johnson, Norman A.: *See—*
Davey, John R.; Gilbo, Charles F.; Johnson, Norman A.; and Fritz, Thomas W., 3,745,734.
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Johnson, Norman R.: *See—*
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Johnson, Norman S., to Rex Chainbelt Inc. High strength adjustable quarter turn fastener. 3,709,086, 1-9-73, Cl. 85-7.000.

Johnson, Olin B.: *See—*
Dickie, Ray A.; Johnson, Olin B.; and Labana, Santokh S., 3,761,371.

Johnson, Olin B.; and Labana, Santokh S., to Ford Motor Company. Polyester and graded acrylic rubber-urethane-acrylate paint and painting process. 3,719,521, 3-6-73, Cl. 117-93.310.

Johnson, Olin B.; and Labana, Santokh S., to Ford Motor Company. Vinyl resin and acrylic rubber-urethane-acrylate paint and painting process. 3,719,522, 3-6-73, Cl. 117-93.310.

Johnson, Olin B.; and Labana, Santokh S., to Ford Motor Company. Hydroxy-vinyl copolymer and graded-rubber paint and process. 3,719,523, 3-6-73, Cl. 117-93.310.

Johnson, Olin B.; and Labana, Santokh S. Unsaturated graded-rubber and vinyl monomer paint. 3,723,166, 3-27-73, Cl. 117-93.310.

Johnson, Oliver C.: *See—*
Toma, Joseph R.; Johnson, Oliver C.; Mitreuter, Amelia M.; and Ward, Charles C., 3,731,378.
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Johnson, Owen: *See—*
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Johnson, Paul, to A.P.C. Industries, Inc. Apparatus for simultaneously joining and testing conductors. 3,755,632, 8-28-73, Cl. 179-175.300.

Johnson, Paul B.: *See—*
Taylor, Leta S.; Johnson, Paul B.; and Huskey, Eugene D., 3,739,641.

Johnson, Paul C.; Lilland, Larry L.; and Siemon, Earl L., to Berkley & Company, Inc. Cane pole reel. 3,765,618, 10-16-73, Cl. 242-84.10r.

Johnson, Paul K.: *See—*
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Johnson, Peter Bennett: *See—*
Chambers, Albert; Johnson, Peter Bennett; and Lee, Thomas Brian, 3,773,794.

Johnson, Peter D., to United States of America, Navy, mesne. Optical radiation detector. 3,745,566, 7-10-73, Cl. 343-5.00r.

Johnson, Peter D., to General Electric Company. High intensity lamp apparatus and method of operation thereof. 3,771,007, 11-6-73, Cl. 313-183.000.

Johnson, Peter D., to General Electric Company. High intensity fluorescent lamp radiating ionic radiation within the range of 1,600-2,300 A.U. 3,778,662, 12-11-73, Cl. 313-109.000.

Johnson, Peter D., to General Electric Company. Long lifetime mercury-metal halide discharge lamps. 3,781,586, 12-25-73, Cl. 313-174.000.

Johnson, Peter Graham: *See—*
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Johnson, Peter Graham, to Imperial Chemical Industries Limited. Chlorinated hydrocarbon compositions and uses thereof. 3,714,075, 1-30-73, Cl. 252-545.000.

Johnson, Peter Raymond: *See—*
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Johnson, Philip C., to Wells Aluminum Corporation. Awning window assembly. 3,750,336, 8-7-73, Cl. 49-371.000.

Johnson, Philip L. Mechanical jack. 3,749,361, 7-31-73, Cl. 254-2.00r.

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Johnson, Quentin S. Method and apparatus for housing underwater optical instruments. 3,759,605, 9-18-73, Cl. 350-179.000.

Johnson, Ralph D.: *See—*
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Johnson, Ralph S. Safety ski binding apparatus. 3,731,945, 5-8-73, Cl. 280-11.35t.

Johnson, Ralph S., to General Motors Corporation. Double-acting swashplate compressor. 3,746,475, 7-17-73, Cl. 417-269.000.

Johnson, Ray Clifford, to Harris-Intertype Corporation. Cyclic variable speed drive. 3,745,865, 7-17-73, Cl. 83-313.000.

Johnson, Ray M. Circular waveguide microwave applicator. 3,715,555, 2-6-73, Cl. 219-10.550.

Johnson, Ray M., to Microdry Corporation, mesne. Reflector and waveguide applicator. 3,716,688, 2-13-73, Cl. 219-10.550.

Johnson, Ray M., to Microdry Corporation, mesne. Microwave applicator with time-sharing of magnetron sources. 3,723,900, 3-27-73, Cl. 331-55.000.

Johnson, Ray M., to Microdry Corporation, mesne. Microwave applicator with throughput suppression guides at input and output ports. 3,725,628, 4-3-73, Cl. 219-10.550.

Johnson, Raymond D. Winch having a selectable stable 'at rest' unbraked drum position during each revolution. 3,746,309, 7-17-73, Cl. 254-150.000.

Johnson, Raymond E.: *See—*
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Johnson, Richard M.; and Jones, John, to International Computer Products, Inc. Tape cassette holding and positioning unit. 3,766,327, 10-16-73, Cl. 179-100.20z.

Johnson, Richard N., to United States of America, Army. Manufacturing an optical shaft encoder having a holographic code disk. 3,731,373, 5-8-73, Cl. 29-592.000.

Johnson, Richard T., to Stein, Sam, Associates, Inc. Breading machine. 3,762,363, 10-2-73, Cl. 118-16.000.

Johnson, Robert A.; and Stump, Theodore M., to Collins Radio Company. Frequency discriminator utilizing mechanical filter. 3,748,586, 7-24-73, Cl. 329-104.000.

Johnson, Robert B.; and Smith, Craig E., to Eastman Kodak Company. Take-up device for a strip of web material. 3,712,558, 1-23-73, Cl. 242-195.000.

Johnson, Robert B.; and Woodhouse, Fred N., to Eastman Kodak Company. Motion picture projector. 3,743,398, 7-3-73, Cl. 352-157.000.

Johnson, Robert B., to Honeywell Information Systems, Inc. Cathode ray tube dynamic character correction circuit. 3,757,162, 9-4-73, Cl. 315-276.00d.

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Johnson, Robert E.; Swanson, Donald F.; and Westergren, George A., to Whirlpool Corporation. Shag rug cleaning tool for use with vacuum cleaners. 3,739,422, 6-19-73, Cl. 15-397.000.

Johnson, Robert E., to Whirlpool Corporation. Vacuum cleaner structure. 3,750,222, 8-7-73, Cl. 15-416.000.

Johnson, Robert E., to McDonnell Douglas Corporation. Airplane flaps. 3,767,140, 10-23-73, Cl. 244-42.0da.

Johnson, Robert E., to Whittaker Corporation. Universal bell housing and deflector plate. 3,772,938, 11-20-73, Cl. 74-606.000.

Johnson, Robert F., to Phillips Petroleum Company. Producing a dyed propylene polymeric fabric by incorporating a plurality of fibers containing dye receptors therein. 3,754,856, 8-28-73, Cl. 8-15.000.

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Johnson, Robert I. Vehicle light-ignition switching arrangement. 3,764,816, 10-9-73, Cl. 307-10.01s.

Johnson, Robert L.; Overoye, Kenneth R.; and Bhuta, Pravin G., to TRW Inc. Acoustic particle concentration measuring instrument and method. 3,710,615, 1-16-73, Cl. 73-61.00r.

Johnson, Robert P.: *See—*
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Johnson, Robert P. Welding filler material feed apparatus. 3,734,369, 5-22-73, Cl. 226-134.000.

Johnson, Robert P. Means and technique for removing flux on a welding rod. 3,750,348, 8-7-73, Cl. 51-391.000.

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Johnson, Robert Wayne: *See—*
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Johnson, Roy A., to Mead Corporation, The. Synchronous cutter mechanism. 3,724,307, 4-3-73, Cl. 83-337.000.

Johnson, Roy W., to Johnson Farm Machinery Co., Inc. Intermittent drive for conveyors and the like. 3,721,132, 3-20-73, Cl. 74-394.000.

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Johnson, S. C., & Son, Inc.: *See—*
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Johnson, Stanley Jerome, to Bell Telephone Laboratories, Incorporated. Phase difference detection circuit. 3,739,287, 6-12-73, Cl. 328-133.000.

Johnson, Stanley R.; and Forel, Sheldon H., to Baxter Laboratories, Inc. Gel diffusion device. 3,725,004, 4-3-73, Cl. 23-230.00b.

Johnson, Stephen W.; Johnson, Roma B.; Johnson, Susan; and Johnson, Cedric E. Composite needle work frame structure. 3,774,325, 11-27-73, Cl. 38-102.200.

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Johnson, Terence C.; and Reed, Malcolm E., to Seal, Inc., mesne. Method of bonding a laminating film to a graphic art object. 3,738,890, 6-12-73, Cl. 156-286.000.

Johnson, Terry Gordon: *See—*
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Pappas, Michael; Witte, Paul A.; and Johnson, Thomas, 3,757,731.

Johnson, Thomas Albert, to Du Pont de Nemours, E. I., and Company. Intermediates for p-benzamide polymers. 3,719,642, 3-6-73, Cl. 260-78.00a.

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Johnson, Thomas C., to Easy-Back, Inc. Castered trailer for a vehicle. 3,719,373, 3-6-73, Cl. 280-474.000.

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Johnson, Virgil E., to Hydronautics, Incorporated. System for eroding solids with a cavitating fluid jet. 3,713,699, 1-30-73, Cl. 299-14.000.

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Johnson, Wade M.; and Ruckle, Robert A., to Continental Oil Company. Stabilized coupler for tractor drawn trailers. 3,749,420, 7-31-73, Cl. 280-432.000.

Johnson, Wallace F.; and Tilson, William H. Universal female receiver for miniature lamp bases. 3,729,700, 4-24-73, Cl. 339-59.001.

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Johnson, Wallace J. S., to Up-Right, Inc. Field crusher for grapes. 3,730,443, 5-1-73, Cl. 241-82.100.

Johnson, Walter A.: *See—*
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Johnson, Walter E.: *See—*
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Johnson, Walter P. Liquid level sensing system and apparatus. 3,755,804, 8-28-73, Cl. 340-244.00c.

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Johnson, Wayne O.: *See—*
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Johnson, Wells B.: *See—*
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Johnson, Wendell C.; Gomez, Nicolas G.; and Foret, Claude H., to Xerox Corporation. Method of making a plated wire memory plane. 3,722,083, 3-27-73, Cl. 29-604.000.

Johnson, Wesley Grant. Suction mouthpiece. 3,742,607, 7-3-73, Cl. 32-33.000.

Johnson, Wilbur D.; and Johnson, Edna F. Awning fixture. 3,720,438, 3-13-73, Cl. 296-23.00r.

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Johnson, William E., to Owens-Illinois, Inc. Integrated circuit system. 3,754,161, 8-21-73, Cl. 315-169.0tv.

Johnson, William E.; and Schmersal, Larry J., to Owens-Illinois, Inc. Interfacing circuitry system for multiple gaseous display/memory unit. 3,761,773, 9-25-73, Cl. 315-169.000.

Johnson, William G.: *See—*
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Johnson, William H., to Research Corporation. Method for turgor conditioning tobacco. 3,710,803, 1-16-73, Cl. 131-140.00p.

Johnson, William H., to Patent and Development of North Carolina, Inc. Method of fabricating a fluid dispersion nozzle. 3,731,517, 5-8-73, Cl. 72-367.000.

Johnson, William H., to Patent and Development North Carolina, Inc. Power rotated device for dispersing fluids into a gaseous environment. 3,737,101, 6-5-73, Cl. 239-225.000.

Johnson, William J. Paperboard chair. 3,717,377, 2-20-73, Cl. 297-440.000.

Johnson, William, Jr. Coupling for securing a lamp in a lampholder. 3,716,816, 2-13-73, Cl. 339-53.000.

Johnson, William K. Shielded cable stripper. 3,777,397, 12-11-73, Cl. 30-90.600.

Johnson, William R.; and Singleton, Thomas C., to Monsanto Company. Purification of acetic acid streams by distillation. 3,772,156, 11-13-73, Cl. 203-33.000.

Johnson, William R., Jr.; and Davis, Leonard M., Jr., to Morris, Philip, Incorporated. Microporous vinyl chloride polymers and process for producing. 3,749,685, 7-31-73, Cl. 260-2.50m.

Johnson, William S.: *See—*
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Johnson, William S., to Leland Stanford Junior University, The Board of Trustees of the. Intermediates in total synthesis of 16-dehydroprogesterone. 3,741,987, 6-26-73, Cl. 260-340.900.

Johnson, William S., to General Motors Corporation. Vehicle suspension system. 3,770,077, 11-2-73, Cl. 180-71.000.

Johnson, Winston O.; and Meadows, Donald M., to Lockheed Aircraft Corporation. Contour measurement apparatus. 3,762,818, 10-2-73, Cl. 356-120.000.

Johnsson, Bo, to Svenska Rotor Maskiner Aktiebolag. Feeding and cutting device. 3,774,486, 11-27-73, Cl. 83-277.000.

Johnsson, Carl E.; and Swander, Kenneth D., Jr., to Certain-Teed Saint Gobain Insulation Corporation. Diaphragm brake actuator. 3,759,147, 9-18-73, Cl. 92-19.000.

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Johnsson, M. K. Olof. Method for the production of liquid pig iron or steel directly of dressed ore. 3,711,275, 1-16-73, Cl. 75-30.000.

Johnston, Charles: *See—*
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Johnston, David L.; and Nyberg, Marvin E., to International Business Machines Corporation. Control apparatus for document stackers. 3,722,879, 3-27-73, Cl. 271-47.000.

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Johnston, Douglas, to Blue, John, Company; a division of Subscription Television, Inc. Centrifugal pump. 3,741,679, 6-26-73, Cl. 415-170.00a.

Johnston, Earl W. Compactly folding sled. 3,744,811, 7-10-73, Cl. 280-12.00k.

Johnston, Earnest L.: *See—*
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Johnston, Edward, to Carrier Engineering Company, Limited. Method and apparatus for applying coating material to a surface. 3,742,901, 7-3-73, Cl. 118-8.000.

Johnston, Frank L. Golf club. 3,762,717, 10-2-73, Cl. 273-167.00f.

Johnston, Frederick B.: *See—*
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Grybek, Roland S.; and Johnston, Frederick B., 3,712,803.
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Johnston, Furnie W. Olecranon plate. 3,716,050, 2-13-73, Cl. 128-92.00d.

Johnston, Furnie W. Femoral hip prosthesis with positioning and drill guide assembly. 3,765,034, 10-16-73, Cl. 3-1.000.

Johnston, Harlin D.: *See—*
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Johnston, Harlin D.; and Ripley, Dennis L., to Phillips Petroleum Company. Removal of acetylenes from olefinic and paraffinic hydrocarbons. 3,728,412, 4-17-73, Cl. 260-677.00a.

Johnston, Harry R. Apparatus for selectively actuating passenger safety devices in vehicles. 3,720,426, 3-13-73, Cl. 280-150.0ab.

Johnston, Howard: *See—*
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Johnston, James A. Food and fuel dispensing processes and structures therefor. 3,774,723, 11-27-73, Cl. 186-1.00c.

Johnston, James H., to Tenneco Inc. Sliding wing dies. 3,727,449, 4-17-73, Cl. 72-389.000.

Johnston, James R.; and Moertel, George B., to Textron, Inc. Apparatus for forming slide fastener stops. 3,775,815, 12-4-73, Cl. 29-207.5st.

Johnston, James Stewart, to Rosemount Engineering Company, Limited. Signal processing circuits. 3,731,072, 5-1-73, Cl. 235-151.300.

Johnston, James Stewart, to Rosemount Engineering Company, Limited. Electrical power pick-up for vehicles. 3,737,590, 6-5-73, Cl. 191-45.00r.

Johnston, James V. Twin gyro north seeker. 3,762,062, 10-2-73, Cl. 33-321.000.

Johnston, John, to Scholl, Inc. Stabilized surgical adhesive. 3,716,503, 2-13-73, Cl. 260-3.000.

Johnston, John, to Scholl, Inc. Surgical pads. 3,741,210, 6-26-73, Cl. 128-153.000.

Johnston, Laird E.: *See—*
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Johnston, Leroy I. Lantern hanger assembly. 3,746,294, 7-17-73, Cl. 248-221.000.

Johnston, Leroy I. Extension type holder for food handling implements. 3,760,501, 9-25-73, Cl. 30-322.000.



Johnston, Mack S., to Draft Systems, Inc., mesne. Portable beer siphon device. 3,720,355, 3-13-73, Cl. 222-400.700.

Johnston, Mack S., to Craft Systems, Inc. Tapping device for beer kegs and the like. 3,743,145, 7-3-73, Cl. 222-400.700.

Johnston, Mack S. Washing, filling and tapping valve assembly. 3,753,445, 8-21-73, Cl. 137-322.000.

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Johnston, Orin B. Remote control system for kites and the like. 3,770,230, 11-6-73, Cl. 244-155.00a.

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Johnston Pump Company: *See—*
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Johnston, Robert A.; Docherty, Daniel; and Arrington, Robert L., to Caledon Engineering Inc. De-mister device. 3,757,493, 9-11-73, Cl. 55-242.000.

Johnston, Robert Bernard; and Rees, John Michael, to British Lighting Industries, Limited. Electric incandescent lamps. 3,712,701, 1-23-73, Cl. 316-20.000.

Johnston, Robert F., to Bell & Howell Company. Sensing fiducial markings form motion picture film. 3,713,733, 1-30-73, Cl. 352-109.000.

Johnston, Robert F.; and Hendrickson, Kenneth L., to Bell & Howell Company. Reset control particularly for optical compensators. 3,719,418, 3-6-73, Cl. 352-109.000.

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Johnston, Roger L., to Harnischfeger Corporation. Control system for automatically sequencing operation of a plurality of hydraulic pumps for supplying a plurality of hydraulic actuators. 3,760,689, 9-25-73, Cl. 91-412.000.

Johnston, Roger L., to Harnischfeger Corporation. Tension scale system for lifting cable of a telescoping boom crane. 3,771,668, 11-13-73, Cl. 212-55.000.

Johnston, Roger L.; and Wieneck, Daniel Charles, to Harnischfeger Corporation. Hydraulic cylinder for telescopic boom. 3,777,629, 12-11-73, Cl. 91-411.00r.

Johnston, Ronald R. Method and apparatus for dispensing pharmaceutical doses. 3,759,597, 9-18-73, Cl. 312-234.500.

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Johnston, Samuel A.; and Riedmayer, Henry J., to Bunker-Ramo Corporation, The. Electrically controlled hydraulic system and transducer therefor. 3,726,191, 4-10-73, Cl. 92-5.00r.

Johnston, Stephen L., to United States of America, Army. Radar target identification system. 3,733,603, 5-15-73, Cl. 343-5.0sa.

Johnston, Thomas F., Jr., to Lansing Research Corporation. Optical alignment device providing a virtual pivoting laser beam. 3,724,953, 4-3-73, Cl. 356-153.000.

Johnston, Thomas W.; and Pippin, Jack M., to Unlimited Development, Inc. Collapsible crutch. 3,730,198, 5-1-73, Cl. 135-50.000.

Johnston, Thomas W.; and Pippin, Jack M., to Unlimited Development, Inc. Hospital bed. 3,742,527, 7-3-73, Cl. 5-63.000.

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Johnston, Wilbur Dexter, Jr.; and Runge, Peter Klaus, to Bell Telephone Laboratories, Incorporated. Double-folded astigmatically compensated optical cavities. 3,754,195, 8-21-73, Cl. 331-94.500.

Johnston, William D., to Pittsburgh Corning Corporation. Metal oxide coated glass blocks. 3,778,243, 12-11-73, Cl. 65-58.000.

Johnston, William F., to Rex Chainbelt Inc. Air conveyor deck. 3,759,579, 9-18-73, Cl. 302-31.000.

Johnston, William V., to North American Rockwell Corporation. Synthesis of ionically conductive compositions of matter. 3,719,612, 3-6-73, Cl. 252-518.000.

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Johnstone, Duncan, to DP Way Corporation. Refuse hoppers. 3,717,901, 2-27-73, Cl. 15-314.000.

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Johswich, Friedrich; and Schindelbeck, Werner, to Chemiebau Dr. A. Zieren GmbH & Co. KG. Adsorption method and apparatus for treating polluted gas streams. 3,708,981, 1-9-73, Cl. 55-73.000.

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Joice, Richard L. Bag bottom construction. 3,765,309, 10-16-73, Cl. 93-35.0sb.

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Jokiel, Theodor; and Bracht, Karl, to Clag Dominit Aktiengesellschaft. Apparatus for producing clean air. 3,750,558, 8-7-73, Cl. 98-40.00d.

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Jolisburger, Hans Yohanan; and Lowy, Paul, to International Business Machines Corporation. Digital phase control for an ink jet recording system. 3,769,632, 10-30-73, Cl. 346-75.000.

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Jollivet, Christian L. Arrangement for mounting a push-button or the like on a control panel. 3,751,999, 8-14-73, Cl. 49-89.150.

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Jones, Alan L.; Judson, George T.; Kellogg, Robert M.; and Kruger, Victor R., to International Business Machines Corporation. Blood processing control apparatus. 3,737,096, 6-5-73, Cl. 233-19.00a.
Jones, Alan L.; and Judson, George T., to International Business Machines Corporation. Centrifuge fluid container. 3,748,101, 7-24-73, Cl. 23-259.000.
Jones, Alan Richardson, to Coulter Chemistry Inc., mesne. Reagent mixing apparatus. 3,740,041, 6-19-73, Cl. 261-64.000.
Jones, Alan Richardson, to Coulter Electronics, Inc. Sample mixing and metering apparatus. 3,747,412, 7-24-73, Cl. 73-423.00a.
Jones, Alan Richardson, to Coulter Chemistry, Inc., mesne. Fluid switch. 3,777,785, 12-11-73, Cl. 137-806.000.
Jones, Alan Richardson, to Coulter Chemistry, Inc., mesne. Colorimeter with automatic cuvette. 3,781,116, 12-25-73, Cl. 356-180.000.
Jones, Alene H. Fish mobile. 3,762,084, 10-2-73, Cl. 40-138.000.
Jones, Allen Jacob, to Community Bank, The. Refractory damper for high temperature or corrosive gases. 3,716,004, 2-13-73, Cl. 110-163.000.
Jones, Allen P.: *See—*
Pepmeier, Carl R.; Burke, David C.; and Jones, Allen P., 3,731,529.
Jones, Arthur Llewelyn: *See—*
Cuckson, Eric Engel; and Jones, Arthur Llewelyn, 3,757,391.
Jones, Benjamin; and Jones, Rosetta M. Smog eliminator. 3,715,871, 2-13-73, Cl. 55-227.000.
Jones, Bernard H.: *See—*
Sears, James H.; and Jones, Bernard H., 3,741,153.
Jones, Bill F., to Smoot-Holman Company. Lighting system utilizing high intensity discharge lamps. 3,723,808, 3-27-73, Cl. 315-95.000.
Jones, Bill F.; and Stewart, William J., to Smoot-Holman Company. Incandescent-high intensity discharge lamp lighting system. 3,749,968, 7-31-73, Cl. 315-95.000.
Jones, Bruce A.: *See—*
Goffe, William L.; Jones, Bruce A.; and Blackert, John E., 3,770,554.
Jones, Bryon: *See—*
Bell, Clarence A.; Gwinn, Ralph; Jennison, Rolland N.; Jones, Bryon; and Strauss, Philip W., 3,759,049.
Jones, Cecil E. P. Chord playing attachment for string musical instruments. 3,776,088, 12-4-73, Cl. 84-317.000.
Jones, Cecil H. Tube shaping device. 3,710,609, 1-16-73, Cl. 72-392.000.
Jones, Cecil R., to Transfer Systems Incorporated. Apparatus for securing the bolts of the reactor pressure vessel head to the reactor pressure vessel. 3,722,332, 3-27-73, Cl. 81-57.380.
Jones, Cecil R., to Transfer Systems Incorporated. Elevator for a reactor well and equipment storage area. 3,744,593, 7-10-73, Cl. 187-17.000.
Jones, Cecil R., to Transfer Systems Incorporated. Apparatus for detecting reactor fuel tube failures. 3,762,993, 10-2-73, Cl. 176-19.00r.
Jones, Cecil R., to Transfer Systems Incorporated. Apparatus and method for loading nuclear fuel into a shipping cask without immersion in a pool. 3,765,549, 10-16-73, Cl. 214-18.00n.
Jones, Cecil R., to Transfer Systems Incorporated. Nuclear control rod having embedded filaments. 3,781,191, 12-25-73, Cl. 176-86.00r.
Jones, Charles, to Curtiss-Wright Corporation. Rotary internal combustion engine with low starting drag. 3,712,766, 1-23-73, Cl. 418-88.000.
Jones, Charles, to Curtiss-Wright Corporation. Doweling construction for rotary engine housing. 3,715,178, 2-6-73, Cl. 418-83.000.
Jones, Charles A., to Tiber Industries Inc. Yarn process. 3,733,801, 5-22-73, Cl. 57-157.0ts.
Jones, Charles E.; and Aiken, William Ross, to Display Technology Corporation. Arrangement for preserving the free rotatability of the individual vanes in composite display devices. 3,745,563, 7-10-73, Cl. 340-378.000.
Jones, Charles Elmer, Jr., to Bell Telephone Laboratories, Incorporated. Continuous monitoring of eccentricity and coaxial capacitance variables during electrical insulation extrusion. 3,748,577, 7-24-73, Cl. 324-61.00r.
Jones, Charles H., to Westinghouse Electric Corporation. Side looking sonar apparatus. 3,742,436, 6-26-73, Cl. 340-3.00r.
Jones, Charles L., to Ripley Company, Inc. Meter device. 3,732,404, 5-8-73, Cl. 235-113.000.
Jones, Charles Wright, to Xepex Industries, Inc. Carton and blank for forming carton. 3,749,300, 7-31-73, Cl. 229-37.00r.
Jones, Charles Wright, to Xepex Industries, Inc. Apparatus for filling and sealing cartons for holding liquids. 3,775,943, 12-4-73, Cl. 53-282.000.
Jones, Christopher Robin. Method of behaviour therapy. 3,728,588, 4-17-73, Cl. 317-141.00s.
Jones, Clarence E.: *See—*
Carr, Robert D.; Collier, Harry T.; and Jones, Clarence E., 3,707,859.
Jones, Clarence E. Portable remote broadcasting telephone system. 3,748,397, 7-24-73, Cl. 179-2.00c.
Jones, Clarence O., Jr., to Niagara Machine & Tool Works. Shiftable multiple roll forming apparatus. 3,750,446, 8-7-73, Cl. 72-181.000.
Jones, Clarence O., Jr., to Niagara Machine & Tool Works. Motion detecting apparatus. 3,760,189, 9-18-73, Cl. 307-120.000.
Jones, Clarence O., Jr., to Niagara Machine & Tool Works. Inertia balancing means for power presses. 3,776,046, 12-4-73, Cl. 74-50.000.
Jones, Claude A. Self-propelled snow sled. 3,757,880, 9-11-73, Cl. 180-5.00r.
Jones, Claude K.; and Martin, Stuart W., to General Electric Company. Workpiece support for glow discharge apparatus. 3,739,220, 6-12-73, Cl. 313-281.000.
Jones, Clifford M., to General Electric Company. Line feed-print inhibit system. 3,716,841, 2-13-73, Cl. 340-172.500.
Jones, Clifford M.; and Harnden, John D., Jr., to General Electric Company. Time-share transmitter. 3,727,185, 4-10-73, Cl. 340-147.00r.
Jones, Cyril W. Changing hand fishing reel. 3,708,137, 1-2-73, Cl. 242-219.000.



Jones, Cyril W. Fishing reel. 3,741,493, 6-26-73, Cl. 242-84.10r.
Jones, Darryl L.: *See—*
Hass, Robert H.; Mickelson, Grant A.; Baral, William J.; Reeg, Cloyd P.; Attane, Edward C., Jr.; and Jones, Darryl L., 3,725,243.
Jones, Darryl S.: *See—*
Hong, Se J.; Jones, Darryl S.; and Ostapko, Daniel L., 3,764,788.
Jones, David Fitzherbert. Apparatus for coating under water. 3,766,879, 10-23-73, Cl. 114-222.000.
Jones, David H., to Electronic Data Preparation Corporation. Stroke counter mechanism. 3,729,620, 4-24-73, Cl. 235-92.0pd.
Jones, David H.; and Dolthoff, Alvin E., to Electronic Data Preparation Corporation. Method of selective high speed printing using letters with flared limbs and gaps to compensate for smearing. 3,739,720, 6-19-73, Cl. 101-93.00c.
Jones, David Henry: *See—*
Amin, Shirish Chandubhai; Jones, David Henry; and Maxwell, Donald Robert, 3,709,879.
Jones, David Ian: *See—*
Stanworth, Colin Graham; Dixon, John; and Jones, David Ian, 3,747,408.
Jones, David Thomas; Jowett, George Edward; and Webster, Edward Ernest, to Sponcel Limited. Method of forming a fabric covered cellulose sponge strand and then compressing it in a plurality of directions. 3,729,537, 4-24-73, Cl. 264-47.000.
Jones, David W., to Conover, C. E., & Co., Inc. Antiblow-by rings. 3,727,925, 4-17-73, Cl. 277-165.000.
Jones, Dennis G.; and Barkley, George G., to Kennametal Inc. Cutting insert and clamping arrangement therefor. 3,754,309, 8-28-73, Cl. 29-96.000.
Jones, Dennis Lee, 33 1/3 to Jones, Wallace Thomas and 33 1/3 to Walbaum, Fred H. Shelf mountable storage container. 3,726,411, 4-10-73, Cl. 211-126.000.
Jones, Derick: *See—*
Creagh, Linda T.; Jones, Derick; and Lu, Sun, 3,716,289.
Jones, Donald W. Method and apparatus for thin layer chromatography. 3,714,035, 1-30-73, Cl. 210-31.00c.
Jones, Dougan L.: *See—*
Loetel, Charles E.; Lebo, William H.; and Jones, Dougan L., 3,733,063.
Jones, Douglas George: *See—*
Abramson, Carl Newton; and Jones, Douglas George, 3,718,768.
Abramson, Carl Newton; and Jones, Douglas George, 3,754,098.
Jones, Drexel D., to Scott Paper Company. Packaging system. 3,770,118, 11-6-73, Cl. 206-47.00r.
Jones, Duane A.: *See—*
Nordgren, Robert; Jones, Duane A.; and Wittcoff, Harold A., 3,723,408.
Jones, Edward B.: *See—*
Beste, Lawrence F.; Jones, Edward B.; and Yates, Paul C., 3,718,584.
Jones, Edward Barry, to Du Pont de Nemours, E. I., and Company. Flame-retarded acrylonitrile fibers. 3,748,302, 7-24-73, Cl. 260-41.00b.
Jones, Edward M. T.; and Tanner, Robert L., to Technology for Communications International. Balun transformer with a single magnetic core and impedance transforming means. 3,731,238, 5-1-73, Cl. 333-26.000.
Jones, Edward W., to Pioneer Laboratories, Inc. Method and apparatus for packaging medicated gauze pads. 3,720,037, 3-13-73, Cl. 53-21.0fc.
Jones, Edwin K., to Universal Oil Products Company. Alkylation-fractionator. 3,713,615, 1-30-73, Cl. 196-139.000.
Jones, Elmer R., to Wakefield Engineering, Inc. Closed-loop system for maintaining constant temperature. 3,756,903, 9-4-73, Cl. 161-39.000.
Jones, Elvis E.; Olstowski, Franciszek; and Parrish, Donald B., to Dow Chemical Company, The. Rapid-setting non-elastomeric polyurethane compositions. 3,726,827, 4-10-73, Cl. 260-31.80n.
Jones, Elwyn, to Koehring Company. Thin walled thermoplastic pressure vessels particularly for carbonated beverages and methods of making same. 3,712,497, 1-23-73, Cl. 215-1.00c.
Jones, Emelba E. Convertible table bed. 3,732,583, 5-15-73, Cl. 5-3.000.
Jones, Emery Benjamin, to American Coolair Machines. Fan control panel. 3,749,992, 7-31-73, Cl. 318-452.000.
Jones, Eric: *See—*
Ballard, Denis George Harold; Heap, Nicholas; Jones, Eric; Kilbourn, Barry Tarbatt; and Wyatt, Ronald John, 3,740,384.
Jones, Eric Douglas: *See—*
Eggleton, Geoffrey Donald; and Jones, Eric Douglas, 3,763,948.
Jones, Ernest Frank, to Esso Research and Engineering Company. Rust preventative compositions containing a wax metal naphthenate, and a natural fatty body-polyol ester. 3,711,420, 1-16-73, Cl. 252-389.000.
Jones, Ernie C., Jr. Trailer fifth-wheel lubrication. 3,743,054, 7-3-73, Cl. 184-14.000.
Jones, Eugene C.: *See—*
Northrop, John H.; Jones, Eugene C.; Sioles, George W.; and Mellette, Gary W., 3,724,860.
Jones, Evan Islwyn, to Heath, G. H., & Co., Limited. Handling elongate materials. 3,739,967, 6-19-73, Cl. 226-7.000.
Jones, Evan L., to Chrysler Corporation. Differential bearing preload lock. 3,715,936, 2-13-73, Cl. 74-713.000.
Jones, Faber B.: *See—*
Brady, Donnie G.; Deck, Harold R.; Jones, Faber B.; and Underwood, John H., 3,716,601.
Jones, Frank J.: *See—*
Ehrman, Chester S.; Scheib, Louis; Worsley, Charles S.; Jones, Frank J.; and Freeborg, Robert M., 3,763,770.
Jones, Frank R.: *See—*
Manning, Donald P.; Caison, Lloyd D.; and Jones, Frank R., 3,767,754.
Jones, Frank T.: *See—*
Priebe, Frank D.; Tribble, Robert G.; and Jones, Frank T., 3,744,562.
Jones, Fred C.: *See—*
Muller, Charles B.; and Jones, Fred C., 3,707,832.
Jones, Frederick L.; and Connell, Richard A., to Pitney-Bowes, Inc. Electrophotographic compositions and plates and methods of making and using same. 3,754,906, 8-28-73, Cl. 96-1.400.
Jones, Gardner D., Jr., to International Business Machines Corporation. Digital band-pass filter for a single circuit full duplex transmission system. 3,715,496, 2-6-73, Cl. 178-58.000.
Jones, Geoffrey A.: *See—*
Mason, Henry J.; and Jones, Geoffrey A., 3,713,228.
Jones, George R.; Dunn, James F.; and Purdum, Glenn R., Jr. Pulmonary inhalation device. 3,769,967, 11-6-73, Cl. 128-2.080.
Jones, Gerald Cedric; and Leek, Herbert Bentley, to Saunders Valve Company Limited. Ball valve seating assemblies. 3,719,344, 3-6-73, Cl. 251-174.000.
Jones, Gerald Cedric; and Leek, Herbert Bentley, to Saunders Valve Company Limited. Seat assembly for ball valves. 3,721,425, 3-20-73, Cl. 251-174.000.
Jones, Gerald D., to Imperial Oil Limited. Multi-pattern spraying apparatus. 3,711,030, 1-16-73, Cl. 239-397.000.
Jones, Gerald M.; and Laird, Cleve W., to Hycel, Inc. Process for determination of chemical constituents of proteinaceous biological fluids. 3,723,063, 3-27-73, Cl. 23-230.00b.
Jones, Glenn A.: *See—*
May, Larry A.; and Jones, Glenn A., 3,735,897.
Jones, Glenson Trevelyn: *See—*
Wong, Cho Lun; Jones, Glenson Trevelyn; and Crawford, Roland Francis, 3,713,046.
Wong, Cho Lun; Jones, Glenson Trevelyn; and Krausbar, Helmuth, 3,755,629.
Jones, Gordon H.; and Moffatt, John C., to Syntex Corporation. Unsaturated nucleoside phosphonates, phosphonic acids and phosphonic acid salts. 3,736,314, 5-29-73, Cl. 260-211.50r.
Jones, Gordon Kenneth, to Humphreys & Glasgow Limited. Process for the production of metals. 3,721,611, 3-20-73, Cl. 204-1.00r.
Jones, Hale M.; and Deas, Richmon E., to Ampex Corporation. Precision ramp generator with precise steady state output. 3,745,373, 7-10-73, Cl. 307-228.000.
Jones, Harold A., Jr.: *See—*
Sinnott, Norbert C.; and Jones, Harold A., Jr., 3,735,305.
Jones, Harold H.: *See—*
Jones, Robert L.; and Jones, Harold H., 3,751,097.
Jones, Harry G., to Pat & Chuck Oil Well Equipment, Inc. Apparatus for automatically controlling weight-on-bit. 3,759,489, 9-18-73, Cl. 254-173.00r.
Jones, Harry Joseph: *See—*
Groh, Louis; and Jones, Harry Joseph, 3,776,013.
Jones, Harry R.: *See—*
Jones, William C.; and Jones, Harry R., 3,771,512.
Jones, Harry S., to Chrom-Tronics, Inc. Relief photograph conversion printing apparatus. 3,737,229, 6-5-73, Cl. 355-78.000.
Jones, Harry S., to Chrom-Tronics, Inc. Production of doublet blanks for simulated diamonds. 3,755,025, 8-28-73, Cl. 156-61.000.
Jones, Herbert Francis, to Treadwell Corporation. Method of hoisting and anchoring heavy structures in a building. 3,722,170, 3-27-73, Cl. 52-745.000.
Jones, Herman L.: *See—*
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Jones, Horace: *See—*
Law, Malcolm John; and Jones, Horace, 3,713,999.
Jones, Howard: *See—*
Shen, Tsung-Ying; Greenwald, Richard B.; Jones, Howard; Linn, Bruce O.; and Witzell, Bruce E., 3,725,548.
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Jones, Howard R., Jr.: *See—*
Keyser, Merle D.; and Jones, Howard R., Jr., 3,749,177.
Jones, Howard S., Jr., to United States of America, Army. Base mounted re-entry vehicle antenna. 3,739,386, 6-12-73, Cl. 343-708.000.



Jones, Howard S., Jr.; and Norris, Richard J., to United States of America, Army. Super lightweight microwave circuits. 3,768,048,
Jones, John Paul, Jr., to Compuline Corporation. Electrolytic time delay capsule with plastic cup electrode holder. 3,769,557, 10-30-



Jones, Neal K.; Faulkner, Douglas W.; Johnston, Robert T.; and
Jones, Rexford W.; and Thompson, William B., to Staley, A. E.,

Jones, Howard S., Jr.; and Norris, Richard J., to United States of America, Army. Super lightweight microwave circuits. 3,768,048, 10-23r73, Cl. 333-84.00m.

Jones, Howell A., Jr.: *See—*
Eckert, Alton B., Jr.; and Jones, Howell A., Jr., 3,716,699.
Mc Figgans, Robert B.; and Jones, Howell A., Jr., 3,742,456.

Jones, Hugh F., to Federal-Mogul Corporation. Electroplating cell including magnetic means to couple concave workpieces to a plating rack. 3,751,354, 8-7-73, Cl. 204-198.000.

Jones, Hugh Gwynfryn. Liquid level control devices. 3,763,881, 10-9-73, Cl. 137-414.000.

Jones, Ida May, to Imperial Chemical Industries Limited. Emulsions. 3,771,955, 11-13-73, Cl. 8-173.000.

Jones, Ira David. Scope for viewing the internal surface of a bore of similar cavity. 3,724,922, 4-3-73, Cl. 350-96.00r.

Jones, Irby C., Jr.; and Rhymes, Aubrey J., Jr., to Dow Chemical Company, The. Process for recovering urea from pyrolysis systems. 3,758,572, 9-11-73, Cl. 260-553.00b.

Jones, Ivan R. Doorknob locking device. 3,738,137, 6-12-73, Cl. 70-428.000.

Jones, J. Franklin, Jr., to Fellows Gear Shaper Company, The. Bias corrected measuring instrument. 3,741,659, 6-26-73, Cl. 356-109.000.

Jones, Jack, to Cessna Aircraft Company, The. Aircraft hangar structure. 3,708,934, 1-9-73, Cl. 52-237.000.

Jones, Jack D. Illumination platter on a mobil vehicle. 3,736,546, 5-29-73, Cl. 338-15.000.

Jones, James H.: *See—*
Wojtasinski, Ronald J.; and Jones, James H., 3,754,263.

Jones, James J. Ramp generator for producing ramp current during controlled rate discharge of stored capacitance. 3,760,191, 9-18-73, Cl. 307-228.000.

Jones, James R., to Armstrong Cork Company. Fireproofing cellulose-containing materials. 3,779,861, 12-18-73, Cl. 162-145.000.

Jones, Jerry J.; and Lochridge, Joe C., to Brown & Root, Inc. Method and apparatus for plotting vessel position. 3,725,919, 4-3-73, Cl. 343-6.50r.

Jones, Jerry O.; and Osburn, Michael R., to United States of America, Navy. Shot vortex arming device. 3,776,140, 12-4-73, Cl. 102-70.20r.

Jones, John: *See—*
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Jones, John B., Jr.; and Reeves, Adam A., to Paraho Corporation. Retorting of solid carbonaceous material. 3,736,247, 5-29-73, Cl. 208-11.000.

Jones, John B., Jr., to Paraho Corporation. Process of calcination. 3,743,697, 7-3-73, Cl. 423-175.000.

Jones, John B., Jr., to Paraho Corporation. Bottom fluid distributor for shaft vessels. 3,777,940, 12-11-73, Cl. 222-193.000.

Jones, John E.: *See—*
Crouse, William G.; and Jones, John E., 3,723,710.
Drew, Robert S.; and Jones, John E., 3,729,618.

Jones, John E.; and Knutson, Orville T., to Cummins-Allison Corporation, mesne. Method and apparatus for recording data by perforating record media. 3,780,938, 12-25-73, Cl. 234-1.000.

Jones, John F.: *See—*
Lubowitz, Hyman R.; Burns, Eugene A.; and Jones, John F., 3,708,370.
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Jones, John Leslie, Jr.: *See—*
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Jones, John Leslie, Sr. Disposable toilet applicator. 3,737,939, 6-12-73, Cl. 15-244.00a.

Jones, John Leslie, Sr. Reservoir napkin manufacturing process. 3,749,627, 7-31-73, Cl. 156-268.000.

Jones, John Leslie, Sr. Integral strap tissue napkin. 3,759,262, 9-18-73, Cl. 128-290.00r.

Jones, John Leslie, Sr. Optimum profile absorbent diaper pad. 3,765,418, 10-16-73, Cl. 128-287.000.

Jones, John Leslie, Sr.; and Jones, John Leslie, Jr. Process for manufacturing sheet binders. 3,769,130, 10-30-73, Cl. 156-259.000.

Jones, John Leslie, Sr. Timing sensor switch with oscillating coil spring and metal mass contact. 3,781,496, 12-25-73, Cl. 200-61.45r.

Jones, John M., to Texaco Inc. Well logging system with linearity control. 3,767,921, 10-23-73, Cl. 250-340.000.

Jones, John P. Adjustable ski pole with split retainer ring. 3,722,903, 3-27-73, Cl. 280-11.37f.

Jones, John P., Jr., to Mobil Oil Corporation. Marine propeller stern bearing-shaft design and seal arrangement. 3,762,359, 10-2-73, Cl. 115-34.00r.

Jones, John Paul; and Nicol, Charles H., to Procter & Gamble Company, The. Bleach-fabric softener compositions. 3,749,673, 7-31-73, Cl. 252-95.000.

Jones, John Paul; and Nicol, Charles H., to Procter & Gamble Company, The. Bleach compositions. 3,749,674, 7-31-73, Cl. 252-95.000.

Jones, John Paul, Jr., to Compuline Corporation. Electrolytic timer delay capsule. 3,711,751, 1-16-73, Cl. 317-232.000.

Jones, John Paul, Jr., to Compuline Corporation. Electrolytic time delay capsule with plastic cup electrode holder. 3,769,557, 10-30-73, Cl. 317-230.000.

Jones, John R.: *See—*
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Jones, John Robert: *See—*
Davis, Paul Trevor; Glover, Terence George; and Jones, John Robert, 3,781,195.

Jones, John Stephen: *See—*
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Jones, John W., to Lockheed Aircraft Corporation. Thermit composition and method of making. 3,745,077, 7-10-73, Cl. 149-40.000.

Jones, Joseph K.: *See—*
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Jones, Joseph William, Jr.: *See—*
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Jones, Josh B. Case for fluid filter cartridge. 3,773,182, 11-20-73, Cl. 210-321.000.

Jones, Keith L., to Box, Jones, and Label Co., Limited. Safety cap for vials. 3,710,971, 1-16-73, Cl. 215-9.000.

Jones, Kenneth; and Patterson, Willard E. Lift apparatus for raising wall sections. 3,727,885, 4-17-73, Cl. 254-133.000.

Jones, Kenneth G.: *See—*
Lucas, William H.; and Jones, Kenneth G., 3,729,886.

Jones, Kenneth I. Boat anchor movement signal device. 3,727,212, 4-10-73, Cl. 340-282.000.

Jones, Kenneth P.; and Howell, Cleves H., Jr.; deceased (by Howell, Edith S.; executrix). Projectile deceleration device. 3,718,041, 2-27-73, Cl. 73-167.000.

Jones, Kenneth W.; and Richie, Edward H. Non-lethal home defense implement. 3,724,114, 4-3-73, Cl. 42-84.000.

Jones, Kenneth W.; and Richie, Edward H. Non-lethal projectile and launcher therefor. 3,733,727, 5-22-73, Cl. 42-1.00r.

Jones, Kermith W. Foam brush. 3,717,898, 2-27-73, Cl. 15-244.00r.

Jones, Lawrence T.: *See—*
Smith, Jay, III; Schmidt, Gerald W.; and Jones, Lawrence T., 3,729,859.
Smith, Jay, III; Schmidt, Gerald W.; and Jones, Lawrence T., 3,778,053.

Jones, Lawrence Temple: *See—*
Schmidt, Gerald W.; Jones, Lawrence Temple; and Smith, Jay, III, 3,747,459.
Smith, Jay, III; Schmidt, Gerald W.; and Jones, Lawrence Temple, 3,712,397.
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Jones, Learoy H., Jr.; and Butler, Joel F. Apparatus for lifting and moving containers. 3,760,966, 9-25-73, Cl. 214-750.000.

Jones, Lester C.: *See—*
Foshee, William H.; and Jones, Lester C., 3,777,542.

Jones, Lewis E.; and Wilkinson, Richard W., to Mallory, P. R., & Co., Inc. Cam operated timer switch assembly with manually adjustable cam and clutch mechanism. 3,737,597, 6-5-73, Cl. 200-38.0ba.

Jones, Lloyd G.: *See—*
Fitch, John L.; and Jones, Lloyd G., 3,750,412.
Stein, Nathan; and Jones, Lloyd G., 3,756,318.

Jones, Lloyd Leslie Llewellyn. Data supports for numerical data. 3,776,454, 12-4-73, Cl. 235-61.12r.

Jones, Loyd W., to Amoco Production Company. Oil-soluble phosphonic acid composition. 3,770,815, 11-6-73, Cl. 260-501.120.

Jones, Lynn G., to Global Marine Inc. Thread protector for threaded pipe section ends or the like. 3,709,261, 1-9-73, Cl. 138-96.00t.

Jones, Mack C.: *See—*
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Jones, Marie: *See—*
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Jones, Mattie Lou. Ladder bench. 3,722,621, 3-27-73, Cl. 182-118.000.

Jones, Maurice R.: *See—*
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Jones, Michael B.; and Rublack, Wilfred D., to General Electric Company. Annular exposure source. 3,735,677, 5-29-73, Cl. 95-1.00r.

Jones, Michael Edward Benet; and Jarrett, Graham, to Imperial Chemical Industries Limited. Catalytic production of polyamides from aromatic diamines. 3,723,396, 3-27-73, Cl. 260-78.00r.

Jones, Michael Edward Beney; and Jennings, Brian Edmund. Cross-linked poly(arylsulphone ethers). 3,758,436, 9-11-73, Cl. 260-37.00r.

Jones, Michael Weston, to Imperial Metal Industries (Kynoch) Limited. Structures. 3,771,748, 11-13-73, Cl. 244-123.000.

Jones, Morris, 50% to Lloyd, David Dale. Trailer hitch. 3,708,183, 1-2-73, Cl. 280-483.000.





Jones, Neal K.; Faulkner, Douglas W.; Johnston, Robert T.; and Meharry, Murray R., to Commonwealth of Australia, The. Thermal imaging device. 3,778,624, 12-11-73, Cl. 250-333.000.

Jones, Nelson A.: *See—*
Bragg, Gary O.; and Jones, Nelson A., 3,773,142.
Kirchgessner, Edwin M.; and Jones, Nelson A., 3,770,231.

Jones, Norman A. Manually operable plaque removing dental tool. 3,742,608, 7-3-73, Cl. 32-59.000.

Jones, Norman F. Light pen. 3,749,932, 7-31-73, Cl. 307-112.000.

Jones, Norman H.: *See—*
Pahl, Leo F.; and Jones, Norman H., 3,780,198.

Jones, Norman R.: *See—*
Davis, Oliver Thurston; and Jones, Norman R., 3,737,626.

Jones, Orlando: *See—*
Gilligan, William H.; McDonnell, Chilton H.; and Jones, Orlando, 3,716,550.

Jones, Otis V., Jr. Bundle feed device. 3,774,753, 11-27-73, Cl. 198-219.000.

Jones, Paul D.: *See—*
Klarquist, John M.; Jones, Paul D.; and Reilly, Lawrence C., 3,738,862.

Jones, Paul Victor: *See—*
Nangarrow, John; Jones, Paul Victor; and Clark, Peter Stanley, 3,749,628.

Jones, Paul W., to Rostone Corporation. Arc interrupting composition and apparatus. 3,761,660, 9-25-73, Cl. 200-144.00c.

Jones, Paul W., to General Electric Company. Vacuum loading process for the manufacture of a narrow pore fluid electrode. 3,769,093, 10-30-73, Cl. 136-120.0fc.

Jones, Paul W., Jr., to General Electric Company. Pour hole closure for foam mold. 3,739,936, 6-19-73, Cl. 220-86.00r.

Jones, Peter, to Girling Limited. Fluid level indicating devices with pull to test feature. 3,751,614, 8-7-73, Cl. 200-84.00c.

Jones, Peter. Liquefied gas containers. 3,762,175, 10-2-73, Cl. 62-45.000.

Jones, Peter Hadley; and Martin, Yvonne Connolly, to Abbott Laboratories. Aspergillic acid as an antihypertensive agent. 3,720,768, 3-13-73, Cl. 424-250.000.

Jones, Peter Hadley; and Perun, Thomas John, to Abbott Laboratories. Erythromycin derivatives. 3,736,313, 5-29-73, Cl. 260-210.00e.

Jones, Peter Hadley; and Somani, Pitambar, to Abbott Laboratories. Iodinin as an anti-hypertensive agent. 3,764,679, 10-9-73, Cl. 424-250.000.

Jones, Peter Killcross, to Hawker Siddeley Aviation, Limited. Aerodynamic surfaces. 3,778,009, 12-11-73, Cl. 244-42.0da.

Jones, R. A., & Company, Inc.: *See—*
Daily, William C., 3,758,104.
Deering, Edwin Naul; and Jones, Wickliffe, 3,761,072.
Hamilton, Joel A., 3,733,773.
Stone, Orison W., 3,756,384.

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Jones, Ralph E.: *See—*
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Jones, Ralph Edwin, to Thorn Electrical Industries Limited. Magnetic core memories. 3,720,929, 3-13-73, Cl. 340-174.0pa.

Jones, Ralph P.: *See—*
Burgess, Dennis A.; Alexson, Charles E.; and Jones, Ralph P., 3,775,711.

Jones, Ralph S.: *See—*
Jones, Ralph S.; and Stich, Willi L. (said Stich assor. to said), 3,711,619.

Jones, Ralph S.; and Stich, Willi L., said Stich assor. to said Jones, Ralph S. Natural performance extended range pick-up device. 3,711,619, 1-16-73, Cl. 84-1.250.

Jones, Raymond E., to Brown & Root, Inc. Method and apparatus for evaluating offshore pipeline laying operations. 3,739,591, 6-19-73, Cl. 61-72.300.

Jones, Rex O., III.: *See—*
Holland, Eugene E.; and Jones, Rex O., III., 3,719,875.

Jones, Rexford W.: *See—*
Hayes, Lester P.; Jones, Rexford W.; and Thompson, William B., 3,713,831.

Jones, Rexford W.; and Thompson, William B., to Staley, A. E., Manufacturing Company. Dye imbibition imaging. 3,721,561, 3-20-73, Cl. 96-48.000.

Jones, Rexford W.; and Thompson, William B., to Staley, A. E., Manufacturing Company. Multi-color reproductions. 3,723,123, 3-27-73, Cl. 96-48.000.

Jones, Rexford W.; and Thompson, William B., to Staley, A. E., Manufacturing Company. Dye inhibition images. 3,723,124, 3-27-73, Cl. 96-48.000.

Jones, Rexford W.; and Thompson, William B., to Staley, A. E., Manufacturing Company. Deep etch printing plates. 3,734,729, 5-22-73, Cl. 96-36.300.

Jones, Rexford W.; and Thompson, William B., to Staley, A. E., Manufacturing Company. Polymetal printing plates. 3,734,730, 5-22-73, Cl. 96-36.300.

Jones, Rexford W.; and Thompson, William B., to Staley, A. E., Manufacturing Company. Producing printed circuits by using power-embedded composition as etch-resist. 3,734,731, 5-22-73, Cl. 96-36.100.

Jones, Rexford W.; and Thompson, William B., to Staley, A. E., Manufacturing Company. Polymetal printing plates. 3,734,732, 5-22-73, Cl. 96-36.300.

Jones, Rexford W.; and Thompson, William B., to Staley, A. E., Manufacturing Company. Treatment of frostable light sensitive organic layers with water vapor, after exposure, for obtaining frosted images in unexposed areas. 3,748,134, 7-24-73, Cl. 96-48.0hd

Jones, Rexford W.; and Thompson, William B., to Staley, A. E., Manufacturing Company. Preparation of ceramics. 3,753,710, 8-21-73, Cl. 96-36.100.

Jones, Rexford W.; and Thompson, William B., to Staley, A. E., Manufacturing Company. Chemical milling using fused powder particles as resist. 3,754,912, 8-28-73, Cl. 96-36.000.

Jones, Richard A.: *See—*
Bhagawan, Venkatesha S.; Jones, Richard A.; McDowell, Allen W.; Mine, George D.; Remsburger, Louis J.; Rupp, Bruce A.; and Whittaker, Rodney R., 3,778,819.

Jones, Richard B. Camera supporting harness. 3,767,095, 10-23-73, Cl. 224-5.00v.

Jones, Richard K. Apparatus for dislodging skulls from slag or cinder ladles. 3,722,868, 3-27-73, Cl. 266-1.00s.

Jones, Richard Sterling; and Stevenson, George Michael. Underground distribution system for utilities with meter pullbox. 3,760,234, 9-18-73, Cl. 317-111.000.

Jones, Robert D.: *See—*
Slough, Ronald S.; and Jones, Robert D., 3,778,233.
Spector, Marshall L.; Jones, Robert D.; and McDowell, Curtis S., 3,725,258.
Spector, Marshall L.; Jones, Robert D.; and McDowell, Curtis S., 3,733,264.

Jones, Robert D., to Dow Chemical Company, The. Container feed mechanism for refuse incinerator. 3,709,386, 1-9-73, Cl. 214-23.000.

Jones, Robert D., to Air Products and Chemicals, Inc. Method of operating a variable flame oxy-fuel burner. 3,725,040, 4-3-73, Cl. 75-60.000.

Jones, Robert E. Method for handling and stacking articles. 3,738,514, 6-12-73, Cl. 214-152.000.

Jones, Robert E.; and Niedzwiecki, Richard W., to United States of America, National Aeronautics and Space Administration. Swirl can primary combustor. 3,748,853, 7-31-73, Cl. 60-39.650.

Jones, Robert Henry. Switching control systems. 3,710,200, 1-9-73, Cl. 317-134.000.

Jones, Robert Idris. Mobile grandstand. 3,752,531, 8-14-73, Cl. 296-64.000.

Jones, Robert J.: *See—*
Burns, Eugene A.; and Jones, Robert J., 3,748,307.
Burns, Eugene A.; and Jones, Robert J., 3,748,310.
Burns, Eugene A.; and Jones, Robert J., 3,748,311.
Burns, Eugene A.; and Jones, Robert J., 3,748,312.
Burns, Eugene A.; and Jones, Robert J., 3,781,247.

Jones, Robert J.; and Armani, Robert C., to United States of America, Army. Mounting technique for glass-package diodes. 3,757,259, 9-4-73, Cl. 333-84.00m.

Jones, Robert J., to TRW Inc. Nitroso perfluoro addition polymers. 3,761,453, 9-25-73, Cl. 260-78.50r.

Jones, Robert J.; and Burns, Eugene A., to TRW Inc. Thermosetting alicyclic endo end capped resins. 3,763,101, 10-2-73, Cl. 260-47.0cp.

Jones, Robert J.; and Burns, Eugene A., to TRW Inc. Endo alicyclic end capped polyimide resins. 3,772,254, 11-13-73, Cl. 260-78.0tf.

Jones, Robert J.; and Armani, Robert C., to United States of America, Army. Metal inclosed resistor used as a stripline terminator. 3,775,706, 11-27-73, Cl. 333-22.00r.

Jones, Robert Keith, to Kenway Engineering, Incorporated. Article transfer device. 3,780,884, 12-25-73, Cl. 214-8.50d.

Jones, Robert L.; and Jones, Harold H. Adjustable engine lift. 3,751,097, 8-7-73, Cl. 294-78.00a.

Jones, Robert M.; and Mourse, Howard G., to McDonnell Douglas Corporation. Method of forming sheet material. 3,726,953, 4-10-73, Cl. 264-89.000.

Jones, Robert M.; and Rowan, William I., to General Electric Company. Signal divider for speed control of direct reversing gas turbine. 3,749,048, 7-31-73, Cl. 115-34.00r.

Jones, Robert M., to General Electric Company. Dual fuel control system for a gas turbine. 3,766,734, 10-23-73, Cl. 60-39.28r.

Jones, Robert N.: *See—*
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Jones, Robert T., to United States of America, National Aeronautics and Space Administration. Dual-fuselage aircraft having yawable wing and horizontal stabilizer. 3,737,121, 6-5-73, Cl. 244-13.000.

Jones, Robert W.: *See—*
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Jones, Roger D.; and Burnham, Peter B., to Abex Corporation. Hydraulic brakes. 3,746,403, 7-17-73, Cl. 303-89.000.





Jones, Ronald B. L.: *See—*
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Jones, Ronald B. L.: *See—*
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Jones, Ronald B. L., to Anaconda American Brass Company. Production of synthetic patina. 3,725,138, 4-3-73, Cl. 148-6.140.
Jones, Ronald E.: *See—*
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Jones, Rosetta M.: *See—*
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Jones, Roy Lee: *See—*
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Jones, Roy W., to Stromberg-Carlson Corporation. Filter-control circuit. 3,748,534, 7-24-73, Cl. 317-12.00b.
Jones, Rufus Sidney, to Celanese Corporation. Process for preparing aromatic polyamides by condensation of an aromatic ester of an aromatic aminoacid. 3,753,957, 8-21-73, Cl. 260-78.00a.
Jones, Russell. Cymbal spinner. 3,710,669, 1-16-73, Cl. 84-402.000.
Jones, Sam P., to J & S Carburetor Company. Gas carburetor. 3,741,737, 6-26-73, Cl. 48-180.00c.
Jones, Samuel Paul, to General Electric Company. Heat exchanger having resiliently mounted tubular members. 3,739,840, 6-19-73, Cl. 165-69.000.
Jones, Shirley M.: *See—*
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Jones, Smiley H.: *See—*
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Jones, Stanley Adair. Rotary mower blades. 3,769,784, 11-6-73, Cl. 56-295.000.
Jones, Stanley C., to Marathon Oil Company. Use of water-external micellar dispersion in oil recovery. 3,734,185, 5-22-73, Cl. 166-273.000.
Jones, Stanley C.; Roszell, Wayne O.; and Svaldi, Marvin A., to Marathon Oil Company. High water content oil-external micellar dispersions. 3,740,343, 6-19-73, Cl. 252-308.000.
Jones, Stanley W.: *See—*
Nye, William M.; and Jones, Stanley W., 3,708,633.
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Jones, Thomas C.; and Cantarutti, Armindo, to NRM Corporation. Tire building machine. 3,740,293, 6-19-73, Cl. 156-415.000.
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Jones, Thomas J. Accessory for carburetor choke adjustment. 3,726,511, 4-10-73, Cl. 261-39.00b.
Jones, Thurman Ralston, Jr., to Du Pont de Nemours, E. I., and Company. Pump wear plate viscometer. 3,718,414, 2-27-73, Cl. 425-146.000.
Jones, Trevor O., to General Motors Corporation. Occupant restraint system. 3,718,332, 2-27-73, Cl. 280-150.0ab.
Jones, Trevor O., to General Motors Corporation. Apparatus for determining when the size of an obstacle in the path of a vehicle is greater than a predetermined minimum. 3,749,918, 7-31-73, Cl. 250-208.000.
Jones, Trevor O., to General Motors Corporation. Pressure vessel sealing arrangement. 3,767,079, 10-23-73, Cl. 220-89.00a.
Jones, Vincent. Trailing arm suspension system. 3,781,032, 12-25-73, Cl. 280-124.00a.
Jones, Virgil J.: *See—*
Lilley, Eugene A.; and Jones, Virgil J., 3,773,476.
Jones, Viron V., to Keuffel & Esser Company. Photoimaging method comprising crosslinking alkoxy methyl polyamides. 3,754,911, 8-28-73, Cl. 96-35.100.
Jones, Wallace Thomas: *See—*
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Jones, Wickliffe: *See—*
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Jones, William C.; and Jones, Harry R., said Jones, Harry R., assor. to said Jones, William C. System for measuring timed forced expiratory volume. 3,771,512, 11-13-73, Cl. 128-2.080.
Jones, William D.: *See—*
Davenport, William R.; and Jones, William D., 3,742,978.
Jones, William D., to American Metal Climax, Inc. Anti-pollution burner system. 3,719,471, 3-6-73, Cl. 75-65.000.
Jones, William E.: *See—*
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Jones, William E.; Halpin, Donald A.; and Biese, Joseph J., to Ingersoll-Rand Company. LTR condenser. 3,747,673, 7-24-73, Cl. 165-67.000.
Jones, William Earl, to Miles Laboratories, Inc. Holder for flat rectangular objects. 3,746,161, 7-17-73, Cl. 206-72.000.
Jones, William Felix, Jr., to Borg-Warner Corporation. Camlock threaded stud actuator. 3,718,058, 2-27-73, Cl. 81-532.000.
Jones, William George Tilston: *See—*
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Jones, William H.; and Chemerda, John M., to Merck & Co., Inc. Selective catalytic hydrogenation of 2-(4-nitrophenyl)-4 (5)-nitroimidazole. 3,717,656, 2-20-73, Cl. 260-309.000.
Jones, William H., to Eaton Corporation. Alarm set point control system. 3,740,741, 6-19-73, Cl. 340-272.000.
Jones, William J., to Westinghouse Electric Corporation. Gas monitoring apparatus. 3,716,337, 2-13-73, Cl. 23-254.00e.
Jones, William M. Fluid flow control system. 3,747,631, 7-24-73, Cl. 137-318.000.
Jones, William R.: *See—*
Kreider, Benjamin A.; Jones, William R.; Metalsky, William J.; and Gibb, Thomson B., 3,737,553.
Jones, William S.: *See—*
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Jones, William Stanley, to Texas Instruments, Incorporated. Acoustic surface-wave velocity transformation. 3,743,973, 7-3-73, Cl. 333-30.00r.
Jones, William V.: *See—*
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Jones, William W.; and McCaulley, Frank D. Camper boat apparatus. 3,760,764, 9-25-73, Cl. 115-1.00r.
Jones, Woodford F. Air supported structures for fenced areas. 3,710,519, 1-16-73, Cl. 52-2.000.
Jones-Hinton, James; and Gray, Thomas E. H., to Dunlop Limited. Method for forming table-tennis balls. 3,767,740, 10-23-73, Cl. 264-27.000.
Jones-Zylon, Inc.: *See—*
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Jongetjes, Hendrik, to Koninklijke Papierfabrieken van Gelder Lonen N.V. Process for making paper containing latex with carboxyl group. 3,776,812, 12-4-73, Cl. 162-168.000.
Jonke, Albert A.: *See—*
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Jonnes, Nelson, to Minnesota Mining and Manufacturing Company. Elastomeric composition of neoprene, polyether polyprimar-polyamine and a basic curing agent. 3,714,115, 1-30-73, Cl. 260-41.50a.
Jonnet, Albert G.: *See—*
Kinzler, Raymond C.; and Jonnet, Albert G., 3,709,387.
Jonsson, Bjorn; Ingelstedt, Sven; and Olsson, Sven Gunnar. Lung ventilator. 3,741,208, 6-26-73, Cl. 128-145.600.
Jonsson, Carldavid, to Svenska Alucrom AB. System facilitating operations to be carried out on a ship's hull. 3,724,594, 4-3-73, Cl. 182-36.000.
Jonsson, Dan Olof; deceased (by Jonsson, Kajsa Greta; administratrix). Tape calculator. 3,716,187, 2-13-73, Cl. 235-71.00a.
Jonsson, Gregor. Shrimp processing machine and method. 3,751,766, 8-14-73, Cl. 17-71.000.
Jonsson, Kajsa Greta: *See—*
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Jonsson, Karl-Erik; and Erisk, Olof Edvin, to Mo Och Domsjo Aktiebolag. Method and an apparatus for conveying elongated objects one-by-one. 3,771,641, 11-13-73, Cl. 198-34.000.
Jonsson, Kurt Alfred; and Svanstrom, Elis Kjell Ake. Method for separation of tungsten chloride from a mixture of metal chlorides. 3,711,592, 1-16-73, Cl. 423-60.000.
Jonsson, Nils G., to American Modular Systems Designs, Inc. Construction panel. 3,719,768, 3-6-73, Cl. 174-49.000.
Jonsson, Per Hjalmar, to Rederiaktiebolaget Nordstjernan. Measuring vessel for photometric analysts of a liquid, in which gas bubbles are developed. 3,709,616, 1-9-73, Cl. 356-246.000.
Jonsson, Rune, to Saab-Scania Aktiebolag. Automatic contrast sign selector for video tracking. 3,745,244, 7-10-73, Cl. 178-6.800.
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Joo, Louis A.; McKee, John A.; and Shea, Frederick L., to Great Lakes Carbon Corporation. Process for the production of carbon filaments from coal tar pitch. 3,718,493, 2-27-73, Cl. 106-273.00r.
Joos, Alfred, to Merck Patent Gesellschaft mit beschrankter Haftung. Pesticidal 1-amino-1-mercapto-2-cyano-ethane derivatives. 3,723,498, 3-27-73, Cl. 260-465.400.
Joos, Bernhard. Hair and nail hardening process. 3,725,525, 4-3-73, Cl. 424-61.000.
Joos, Erhard. Manhole cover construction. 3,722,730, 3-27-73, Cl. 220-46.00r.
Joosse, Cornelis G., to Shell Oil Company. Method and apparatus for drilling offshore wells. 3,732,143, 5-8-73, Cl. 175-6.000.
Joosten, James K. Material handling vehicle and method of storing same. 3,710,965, 1-16-73, Cl. 214-515.000.
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Jope, Bruce T.; and Witkowski, Leonard J., to Monsanto Company. Sheet advance apparatus. 3,726,148, 4-10-73, Cl. 74-121.000.
Jorda, Jose Mas; Farre, Jacinto Fort; and Espinosa, Francisco Gutierrez, to Netlon (P.T.A.) Limited. Extruded plastics netting. 3,744,529, 7-10-73, Cl. 138-125.000.
Jordan, Andrew Stephen: *See—*
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Jordan, Anthony, to WISCO. Device for controlling tension of wire dispensed from a real. 3,758,046, 9-11-73, Cl. 242-147.00r.
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Jordan, Charles E., to Lilly, Eli, and Company. Method of promoting growth and improving feed efficiency in poultry and swine via oral administration of cephalosporin C. 3,719,758, 3-6-73, Cl. 424-246.000.
Jordan, Constance. Stretchable pet suit with boots. 3,742,679, 7-3-73, Cl. 54-79.000.
Jordan, David Paul; and Collini, George John, to International Nickel Company, Inc., The. Soldering fluxes. 3,740,831, 6-26-73, Cl. 29-495.000.
Jordan, Donald Alfred; and Hartnett, Laurence John. Carrying device for medical and veterinary use. 3,740,778, 6-26-73, Cl. 5-82.000.
Jordan, Donald J. Manually operated pump utilizing backpressure for easement of pump stroke. 3,749,524, 7-31-73, Cl. 417-323.000.
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Jordan, Paul. Multiple layer outside wall of a building or the like. 3,715,848, 2-13-73, Cl. 52-235.000.
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Jordan, Robert D.: *See—*
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Jordan, Robert K., to General Motors Corporation. Air-filter and carbon-bed element for an air cleaner assembly. 3,747,303, 7-24-73, Cl. 55-318.000.
Jordan, Robert L.; Wilson, Norman E.; and Goldman, Thomas M., to Stauffer Chemical Company. Process of regenerating carbon beds. 3,714,040, 1-30-73, Cl. 252-415.000.
Jordan, Russell T.: *See—*
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Jordan, Russell T. Cement having improved color. 3,720,528, 3-13-73, Cl. 106-90.000.
Jordan, Russell T. Cements. 3,720,529, 3-13-73, Cl. 106-90.000.
Jordan, Terence B.; and McDonald, Joseph W., to Texaco Inc. Method of reducing the lead content of a used hydrocarbon lubricating oil by adding methylethyl ketone to separate the resulting mixture into a coagulated insoluble phase. 3,763,036, 10-2-73, Cl. 08-180.000.
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Jordan, Wesley A., to General Mills Chemicals, Inc. Thickening compositions containing xanthomonas gum and hydroxyalkyl ether of guar gum. 3,748,201, 7-24-73, Cl. 149-109.000.
Jordan, William E.: *See—*
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Jordan, William E., to Xerox Corporation. Vacuum holddown device for moving belts. 3,730,623, 5-1-73, Cl. 355-16.000.
Jordan, William E., to Xerox Corporation. Method and apparatus for fuser assembly cooling in an electrostatographic machine. 3,770,346, 11-6-73, Cl. 355-3.000.
Jordan, William F., Jr., to Honeywell Inc. Memory selection apparatus. 3,751,681, 8-7-73, Cl. 307-215.000.
Jordan, William I., to Performance Equipment Inc. Wheel aligning apparatus. 3,758,958, 9-18-73, Cl. 33-336.000.
Jordan, Wilmer C. Electric heating means for fuel vaporization in internal combustion engines. 3,760,780, 9-25-73, Cl. 123-122.00f.
Jordon, Wesley A.; and Carter, Walter H., to General Mills Chemicals, Inc. Blends of xanthomonas and guar gum. 3,765,918, 10-16-73, Cl. 106-205.000.
Jordy, Peter, to U.S. Philips Corporation. Electronic musical instrument provided with variable coupling of the keyboards. 3,717,715, 2-20-73, Cl. 84-11.170.
Jore, Bruce T.; and Phillips, Alan R., to Monsanto Company. Trim in place differential pressure thermoforming process. 3,755,522, 8-28-73, Cl. 264-89.000.
Jorentkuff, Jerold. Protractometer. 3,774,308, 11-27-73, Cl. 33-75.00r.
Jores, Willi; Hoffacker, Franz; Kreit, Bernhardt; Lehmann, Helmut; and Hardenbicker, Herbert, to Agfa-Gevaert Aktiengesellschaft. Automatic band-winding machine. 3,777,998, 12-11-73, Cl. 242-56.200.
Jorgensen, Blanche I. Disposable and collapsible plastic cooler. 3,743,130, 7-3-73, Cl. 220-9.00r.
Jorgensen, E. Chris: *See—*
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Jorgensen, Ernest Charles. Profile copying machine. 3,751,856, 8-14-73, Cl. 51-100.00r.
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Jorgensen, Leif G. Splicing device. 3,717,535, 2-20-73, Cl. 156-443.000.
Jorgensen, Leif G. Film editing device. 3,737,219, 6-5-73, Cl. 352-129.000.
Jorgensen, Mogens Holger, to Haldor Frederik Axel Topsoe. Process for preparing a chromium-promoted iron oxide catalyst. 3,711,426, 1-16-73, Cl. 252-440.000.
Jorgensen, Paul J., to General Electric Company. Method of forming ceramic-metal seal. 3,737,977, 6-12-73, Cl. 29-472.900.
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Jorgensen, Svend M. Closure assembly for pressure vessels. 3,764,039, 10-9-73, Cl. 220-55.00a.
Jorgenso, Torben, to Kastrup og Holmegaards Glasvaerker A/S. Roller for roller conveyors. 3,779,356, 12-18-73, Cl. 193-3.00f.
Jorges Carpet Mills, Inc.: *See—*
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Jorn, Raoul. Composite spring element for use as a motor mount. 3,730,509, 5-1-73, Cl. 267-152.000.
Jorn, Raoul; and Reichardt, Peter. Composite flexible coupling for interconnecting two shafts. 3,759,064, 9-18-73, Cl. 64-13.000.
Jorn, Raoul; and Reichardt, Peter, to Jorn, Raoul. Bearing. 3,781,073, 12-25-73, Cl. 308-238.000.
Jornhagen, Lennart B., to Chicago Rawhide Manufacturing Company. Fluid seal. 3,762,726, 10-2-73, Cl. 277-39.000.
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Josefsson, Erik Anders Ake, to Stora Kopparbergs Bergslags Aktiebolag. Method of manufacturing chromium alloyed steel. 3,711,278, 1-16-73, Cl. 75-130.500.
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Joseph, Horace M., to United States of America, Navy. Vibration compensation for range direction finder. 3,778,830, 12-11-73, Cl. 343-17.700.
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Joseph, Robert T.; and Work, Josiah, to FMC Corporation. Method of producing carbon and iron-containing briquettes. 3,725,034, 4-3-73, Cl. 75-4.000.
Joseph, Sebastian J., to Specialized Electronics Inc. Transducer mounting apparatus. 3,740,706, 6-19-73, Cl. 340-8.500.
Joseph, Thomas A.; Leiter, Earl P.; and Lhota, Harold P., to Republic Steel Corporation. Unitary locker door latch. 3,744,831, 7-10-73, Cl. 292-81.000.
Josephian, William. Bias-groove piston and ring therefor. 3,769,882, 11-6-73, Cl. 92-172.000.
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Josephson, Vernal, to United States of America, Air Force. Pulsed neutron source. 3,715,595, 2-6-73, Cl. 250-84.500.
Josey, Alden D.; and Kirchner, Jack R., to Du Pont de Nemours, E. I., and Company. 1-Alkenyl-9,10-anthraquinones. 3,778,452, 12-11-73, Cl. 260-369.000.
Joshi, Kailash C.; and Lee, Franklin F. M., to International Business Machines Corporation. Method of making sintered metal ultrasonic bonding tips. 3,711,341, 1-16-73, Cl. 148-126.000.
Joshi, Madhukar Laxman; Masters, Burton Joseph; Viva, Osvaldo Raul; and Yeh, Tsu-Hsing, to International Business Machines Corporation. Semiconductor structure having reduced carrier lifetime. 3,728,592, 4-17-73, Cl. 317-235.00r.
Josias, Conrad S.; Bowman, Lloyd D.; and Lovelock, James E., said Lovelock assor. to Analog Technology Corporation. Gas detector and analyzer. 3,714,421, 1-30-73, Cl. 259-43.5mr.
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Joslyn, Wallace G.; and Keil, Joseph W., to Dow Corning Corporation. Process for making PVC foams. 3,708,441, 1-2-73, Cl. 260-2.50p.
Joss, Kurt; and Ruedi, Ernst, to Burlington Industries, Inc. Durable press treatment of cellulosic textiles employing a poly-hydroxy monocarboxylic acid catalyst. 3,752,650, 8-14-73, Cl. 8-116.200.
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Joubert, Philippe; and Castel, Yvon, to Institut Francais du Petrole des Carburants et Lubrifiants. Device for maintaining a flexible line under a substantially constant tensile stress. 3,749,367, 7-31-73, Cl. 254-189.000.
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Joug, Roland; and Ragout, Bernard, to Pneumatiques, Caoutchouc Manufacture et Plastiques Kleber-Colombes. Linear induction motor armatures. 3,739,203, 6-12-73, Cl. 310-13.000.
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Jousson, Pierre J.; and Moret, Michel, to Institut de Recherche WOOG. Hydraulic actuators. 3,720,486, 3-13-73, Cl. 417-440.000.
Jousson, Pierre J., to Institut de Recherche Woog. Multi-jet spray nozzle with a movable shutter member. 3,739,983, 6-19-73, Cl. 239-101.000.
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Jowitt, Ronald; and Thorne, Stuart Nigel, to National Research Development Corporation. Heat processing of canned foodstuffs. 3,754,467, 8-28-73, Cl. 99-361.000.
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Joy, John R., to Union Carbide Corporation. Silyl acyl peroxide and acyl peroxy polysiloxane binders. 3,746,611, 7-17-73, Cl. 161-206.000.
Joy, John Richard, to Union Carbide Corporation. Hydrolyzable functional sylyl alkyl alkyl peroxides. 3,719,650, 3-6-73, Cl. 260-89.50a.
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Joyce, Arthur B., to Tyrone Hydraulics, Inc. Dump truck pump. 3,765,807, 10-16-73, Cl. 418-191.000.
Joyce, Asa W.; and Leavitt, Julian J., to American Cyanamid Company. Azo dyes from chlorocarbonyl aryl dichlorotriazines. 3,770,717, 11-6-73, Cl. 260-153.000.
Joyce, Benjamin Norman, Sr. Variable volume rotary vane pump having an integral opposed reciprocating piston internal combustion engine. 3,776,203, 12-4-73, Cl. 123-56.00c.
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Joyce, John E., to Damon Corporation. Continuous flow zonal rotor. 3,747,843, 7-24-73, Cl. 233-32.000.
Joyce, Ronald Stone; and Stoneburner, George Robert, to Calgon Corporation. Adsorbing evaporative emission during fueling of automotive vehicles. 3,748,829, 7-31-73, Cl. 55-74.000.
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Juba, John T. Sound generating device for signaling and responding to nuisance telephone calls. 3,749,838, 7-31-73, Cl. 179-2.000.
Jubb, Albert, to Rolls-Royce Limited. Gas turbine engine. 3,730,644, 5-1-73, Cl. 416-95.000.
Jubb, James R. Sunburn warning device comprising detecting the ultra-violet component of solar radiation. 3,710,115, 1-9-73, Cl. 250-83.3uv.
Jubenville, Arthur R. Trailer anti-fishtail control system. 3,715,003, 2-6-73, Cl. 180-103.000.
Juby, Peter Frederick; Goodwin, William Reuther; and Hudyma, Thomas William, to Bristol-Myers Company. Process for the preparation of 1-indancarboxylic acids and intermediate therefor. 3,717,661, 2-20-73, Cl. 260-327.00m.
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Jucker, Ernst; Lindenmann, Adolf; and Gadient, Fulvio, to Sandoz Ltd. Certain substituted 2-anilino-nicotinic acid derivatives. 3,726,879, 4-10-73, Cl. 260-295.50r.
Jucker, Ernst; Ebnother, Anton; and Bastian, Jean-Michel, to Sandoz Ltd.; a/k/a Sandoz AG. Compositions and methods utilizing 2,5,-dimethyl-1,3,4,9b-tetrahydro-2H indeno [1,2-c] pyridine. 3,737,544, 6-5-73, Cl. 424-263.000.
Jud, Hans; Nussbaum, Manfred; and Fuchs, Karl-Dieter, to Feldmuhle Anlagen- und Produktionsgesellschaft mit beschrankter Haftung. Suction box arrangement for a paper machine. 3,741,866, 6-26-73, Cl. 162-374.000.
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Joyslen, Jack F., to Stiefrater, Gerhard W. Power stabilizer and method. 3,711,114, 1-16-73, Cl. 280-124.00f.
Jozlin, Joseph A., to Sevald, William T. Ignition apparatus. 3,710,764, 1-16-73, Cl. 123-32.0sp.
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Juba, John T. Sound generating device for signaling and responding to nuisance telephone calls. 3,749,838, 7-31-73, Cl. 179-2.000.
Jubb, Albert, to Rolls-Royce Limited. Gas turbine engine. 3,730,644, 5-1-73, Cl. 416-95.000.
Jubb, James R. Sunburn warning device comprising detecting the ultra-violet component of solar radiation. 3,710,115, 1-9-73, Cl. 250-83.3uv.
Jubenville, Arthur R. Trailer anti-fishtail control system. 3,715,003, 2-6-73, Cl. 180-103.000.
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Juchheim, Moritz K.: *See—*
Juchheim, Peter; and Konig, Joachim, 3,745,501.
Juchheim, Peter; and Konig, Joachim, to Juchheim, Moritz K. Seating for the screw spindle and guide means for the sliding contact wire in a glass tube thermometer of round, non-circular or polygonal cross section and containing adjustable electrical contct means for temperature. 3,745,501, 7-10-73, Cl. 337-122.000.
Jucker, Ernst; Lindenmann, Adolf; and Gadient, Fulvio, to Sandoz Ltd. Certain substituted 2-anilino-nicotinic acid derivatives. 3,726,879, 4-10-73, Cl. 260-295.50r.
Jucker, Ernst; Ebnother, Anton; and Bastian, Jean-Michel, to Sandoz Ltd.; a/k/a Sandoz AG. Compositions and methods utilizing 2,5,-dimethyl-1,3,4,9b-tetrahydro-2H indeno [1,2-c] pyridine. 3,737,544, 6-5-73, Cl. 424-263.000.
Jud, Hans; Nussbaum, Manfred; and Fuchs, Karl-Dieter, to Feldmuhle Anlagen- und Produktionsgesellschaft mit beschrankter Haftung. Suction box arrangement for a paper machine. 3,741,866, 6-26-73, Cl. 162-374.000.
Judd, Claude I.: *See—*
Skorcz, Joseph A.; Suh, John T.; and Judd, Claude I., 3,725,426.
Judd, Claude I., to Colgate-Palmolive Company. Esters of bicyclic aminoalcohols. 3,714,225, 1-30-73, Cl. 260-473.00a.
Judd, Claude I.; and Hoya, Wallace K., to Colgate-Palmolive Company. Quinuclidylalkyl esters. 3,725,419, 4-3-73, Cl. 260-293.530.
Judd, Gordon W.; and Stout, Charles R., to Hughes Aircraft Company. Acoustic surface wave device eliminating spurious end reflections. 3,781,721, 12-25-73, Cl. 333-30.00r.
Judd, John F.: *See—*
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Judd, O'Dean P., to Hughes Aircraft Company. Gas laser with discharge conditioning using ultraviolet photons generated in high current density preliminary discharge. 3,781,712, 12-25-73, Cl. 331-94.500.
Juddy, William A., to Goodyear Tire & Rubber Company, The. Catalyst systems for polymerizing alicyclic olefins. 3,746,696, 7-17-73, Cl. 260-93.100.
Jude, Ioan: *See—*
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Judelshon Industries, Inc.: *See—*
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Judelson, David N., to Judelson, Oscar I., Inc. Cutting mechanism for rotary knife cutting machines. 3,752,024, 8-14-73, Cl. 82-86.000.
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Judge, Raymond Frank Aspinall; Martin, Frederick Royal; and Mozley, Russell George, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for the Environment in Her Britannic Majesty's Government of the. Preformed surfacing for pavemets. 3,732,020, 5-8-73, Cl. 94-33.000.
Judge, Robert L.; and Pearson, Eugene S., to International Business Machines Corporation. Apparatus for assembling a module element to a substrate element. 3,728,769, 4-24-73, Cl. 29-203.00b.
Judge, Robert Louis; and Pearson, Eugene Steven, to International Business Machines Corporation. Integrated circuit package. 3,757,271, 9-4-73, Cl. 339-17.0cf.
Judge, Ronald Anthony, to Timken Company, The. Roller bearings. 3,741,614, 6-26-73, Cl. 308-180.000.
Judin, Gennady Georgievich: *See—*
Tikhonov, Sergei Alexeevich; Judin, Gennady Georgievich; and Babushkina, Ninel Alexandrovna, 3,757,948.

Judkins, Thomas E.; and Roles, David Jack, to Eastern Products Corporation. Demountable wall construction. 3,759,001, 9-18-73, Cl. 52-241.000.

Judlowe, Stephen B. Signal translating circuit for passing very low frequency information. 3,711,775, 1-16-73, Cl. 324-123.00r.

Judson, George T.: *See—*
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Judson, Roger D.; and Sherwood, John W. C., to Chevron Research Company. Static corrections for seismic traces by cross-correlation method. 3,731,269, 5-1-73, Cl. 340-15.5cc.

Juechter, Raymond F.: *See—*
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Juechter, Raymond F., to Interlake, Inc. Metal runners for pallet. 3,768,416, 10-30-73, Cl. 104-135.000.

Juelke, Charles V., to Celanese Corporation. Aromatic sulfonates and process for making same. 3,712,919, 1-23-73, Cl. 260-512.00r.

Juelke, Charles V.; and Trapasso, Louis E., to Celanese Corporation. Flame retardant polyester products prepared from halo-substituted-aryloxy-alkanols. 3,776,887, 12-4-73, Cl. 260-47.00c.

Jugle, Don B., to Xerox Corporation. Electrophotographic multicolor process employing liquid developer. 3,730,708, 5-1-73, Cl. 96-1.200.

Jugle, Leonard L.: *See—*
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Juguin, Bernard; and Le Page, Jean Francois, to Institut Francais du Petrole des Carburants et Lubrifiants. Polymerization of olefins using a silica-phosphoric acid catalyst. 3,758,627, 9-11-73, Cl. 260-683.15c.

Juguin, Bernard; Le Page, Jean Francois; Malmaison, Rueil; and Miquel, Jean, to Institut Francais du Petrole des Carburants et Lubrifiants. Dehydrogenating catalysts of rhenium metal and tungsten metal or molybdenum metal on alumina support. 3,769,239, 10-0-73, Cl. 252-465.000.

Juhas, Benjamin P., to General Tire & Rubber Company, The. Flame retardant integral skin polyurethane foam. 3,775,350, 11-27-73, Cl. 260-2.50a.

Juhasz, John E.: *See—*
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Juhasz, Lajos, to Konzerv-Es Paprikaipari Kutatointezet. Positive displacement pump. 3,765,805, 10-16-73, Cl. 418-68.000.

Juhlin, Sven-Erik, to Aktiebolaget Gustavsbergs Fabriker. Stand for supporting phonograph records. 3,759,395, 9-18-73, Cl. 211-40.000.

Juhnke, Lawrence H., to Display Engineers Inc. Tube connecting means. 3,736,009, 5-29-73, Cl. 287-54.00c.

Juhos, Eva Th., to Beckman Instruments, Inc. Method for high resolution zone electrophoresis. 3,720,593, 3-13-73, Cl. 204-180.00g.

Juhran, Wolfgang: *See—*
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Juillet, Francois; Teichner, Stanislas; and Formenti, Marc, to Agence Nationale de Valorisation de la Recherche (Anvar). Process for the photocatalytic oxidation of hydrocarbons into aldehydes and ketones. 3,781,194, 12-25-73, Cl. 204-162.00r.

Jujo Paper Co., Ltd.: *See—*
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Jukes, Norman Alfred, to Lucas, Joseph, (Industries) Limited. Ignition distributor cap with isolated capacitor and resistor. 3,751,609, 8-7-73, Cl. 200-19.0dc.

Jules, Andre, to Compagnie Generale d'Electricite. Electric control device for an alternator. 3,753,080, 8-14-73, Cl. 322-28.000.

Jules, Roger; and Bassereau, Justin. Method for preparing and checking a photographic cut which is to be transferred to a sensitized printing cylinder, and means for applying this process. 3,771,868, 11-13-73, Cl. 355-77.000.

Julia, Joseph R.: *See—*
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Julia, Marc, to Rhone-Poulenc S.A. Intermediates useful in the synthesis of vitamin A. 3,748,347, 7-24-73, Cl. 260-402.000.

Julia, Marc, to Rhone-Poulenc S.A. Cyano-carboxy-cyclopropane derivatives useful as intermediates in the preparation of chrysanthemic acid. 3,761,505, 9-25-73, Cl. 260-464.000.

Julia, Marc, to Rhone-Poulenc S.A. Sulfone intermediates for the synthesis of vitamin A. 3,781,313, 12-25-73, Cl. 260-402.000.

Julian, Clarence L., to General Motors Corporation. Vacuum-operated spark advance device. 3,780,713, 12-25-73, Cl. 123-117.00a.

Julian, Donald V.: *See—*
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Julian, Elmo C.: *See—*
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Julian, Elmo C.; Crescenzo, Frank G.; and Meyers, Robert C.; deceased (by Meyers, Bette C.; executrix). Igniter composition. 3,753,811, 8-21-73, Cl. 149-19.000.

Julian Engineering Company: *See—*
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Julian, John A., to Julian Engineering Company. Atmosphere circulation system. 3,776,122, 12-4-73, Cl. 98-33.000.

Julian, Percy L. Composition of matter with low cholesterol content and containing wool grease alcohols as major component and method. 3,711,611, 1-16-73, Cl. 424-358.000.

Julian, Percy L.; Hirsch, Arnold; and Iseli, Ernst, to Ciba-Geigy Corporation. Process for introducing a delta 5,6-double bond into a steroid. 3,759,899, 9-18-73, Cl. 260-239.550.

Julian, Percy Lavon; and Hirsch, Arnold Lippert, to Ciba-Geigy AG. Process for the manufacture of steroid chlorohydrins. 3,761,469, 9-25-73, Cl. 260-239.55a.

Julian, Randall K.; and Gach, Peter R., to Sunbeam Plastics Corporation. Safety closure for a medicine bottle or the like. 3,716,161, 2-13-73, Cl. 215-9.000.

Juliano, Peter C.: *See—*
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Juliano, Richard F., to Reliable Automatic Sprinkler Company Inc., The. Center strut fire protection sprinkler head. 3,770,063, 11-6-73, Cl. 169-39.000.

Julie, Joel: *See—*
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Julie, Loebe, to Julie Research Laboratories, Inc. Circuit using dynamic high impedance load. 3,723,892, 3-27-73, Cl. 330-35.000.

Julie Research Laboratories, Inc.: *See—*
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Julier, Rene P. G.; and Schneider, Marc J. T. Error measuring device for a monopulse tracking radar system. 3,727,221, 4-10-73, Cl. 343-7.300.

Julius Goldman's Egg City: *See—*
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Jullien, Jean, to Crouzet. Plant support with watering tube spiralling therearound. 3,738,060, 6-12-73, Cl. 47-38.100.

Jullien-Davin, Jean, to Crouzet. Modular system for pneumatic control. 3,707,989, 1-2-73, Cl. 137-608.000.

Jullien-Davin, Jean, to Crouzet. Non-return, direction of rotation selecting device for synchronous motor. 3,710,155, 1-9-73, Cl. 310-4.000.

Jullien-Davin, Jean, to Crouzet. Means for supporting and printing on ticket strip material. 3,759,173, 9-18-73, Cl. 101-66.000.

Jullien-Davin, Jean, to Crouzet. Programmer for household electric machines with improved cam operating mechanism. 3,760,129, 9-18-73, Cl. 200-38.00r.

Jullien-Davin, Jean, to Crouzet. Variable speed stepwise power feed device. 3,760,644, 9-25-73, Cl. 74-112.000.

Jullien-Davin, Jean, to Crouzet. Mold for forming parts of complex shape of injectable or thermosetting plastic material. 3,779,688, 12-18-73, Cl. 425-441.000.

Julow, Thomas M., to Bendix Corporation, The. Rear seal for servomotor. 3,724,211, 4-3-73, Cl. 60-54.60p.

Jumelle, Louis Francois: *See—*
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Jumentier, Claude; and Bonnet, Alain, to Compagnie de Saint-Gobain. Heat insulating fibrous mass. 3,745,060, 7-10-73, Cl. 161-170.000.

Jumer, John F. Electrochemical processing of inner surfaces of large vessels. 3,772,163, 11-13-73, Cl. 204-26.000.

Junak, Edward M.: *See—*
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Junas, Thomas B.; and La Torre, Augustin, to General Latex and Chemical Corporation. Polymeric thickeners and method of preparing and using the same. 3,708,445, 1-2-73, Cl. 260-4.00r.

Juncker, Arnold A. Chain saw sharpener. 3,744,349, 7-10-73, Cl. 76-25.00a.

Jund, Christian, to Sescosem-Societe Europeenne de Semiconducteurs et de Microelectronique. Semi-conductor strain gauge device with field effect transistor symmetrical pairs. 3,761,784, 9-25-73, Cl. 317-235.00r.

June, Robert, II: *See—*
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June, Ronald K., to Shell Oil Company. Sulfur slurry preparation in pipelines. 3,745,122, 7-10-73, Cl. 252-309.000.

Junemann, Hubert, to Kochs Adler AG. Template follower mechanism. 3,757,711, 9-11-73, Cl. 112-121.120.

Junemann, Hubert, to Kochs Adler AG. Device for top stitching cuffs or the like workpiece parts. 3,762,348, 10-20-73, Cl. 112-121.120.

Junes, Norman E.; and Stanyer, William R. Skyline logging carriage. 3,776,390, 12-4-73, Cl. 212-122.000.

Junex Electrix Limited: *See—*
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Jung, David H. Roller skate carrier. 3,777,956, 12-11-73, Cl. 224-45.00s.

Jung, Dieter: *See—*
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Jung, Herbert A., to Esso Research and Engineering Company. Preparation of unsaturated esters. 3,775,469, 11-27-73, Cl. 260-497.00a.

Jung, James E.: *See—*
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Jung, Otto Josef. Convector hood. 3,717,082, 2-20-73, Cl. 98-114.000.

Jung, Richard; and Markus, Eugen, to Steinmuller, L. & C., G.m.b.H. Pivot valve and sealing sleeve construction. 3,753,548, 8-21-73, Cl. 251-305.000.

Jung, Robert: *See—*
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Jung, Rolf, to Reichert, Krauss u. Spezialmaschinenfabrik. Slicing machine for expanded plastics and similar materials. 3,736,820, 6-5-73, Cl. 83-4.000.

Jung, Shee Lup; and Beste, Lawrence Forwood, to Du Pont de Nemours, E. I., and Company. Process for the preparation of stretch resistant polypivalolactane fibers. 3,776,997, 12-4-73, Cl. 264-290.000.

Junga, Yan Petrovich: *See—*
Abramov, Viktor Petrovich; Junga, Yan Petrovich; Berzin, Gunard Valdemarovich; Skrupsky, Voldemar Petrovich; Frolov, Petr Nikolaevich; Lugovskoi, Andrei Lukyanovich; Shilgorin, Felix Alexandrovich; Dalbinsh, Yan Yanovich; Rotsen, Karl Arturovich; Ziemelis,Andris Eduardovich; Elksnis, Artur Yanovich; and Priede, Bruno Andreevich, 3,709,270.

Jungblut, Camille. Thermostable and thermoplastic linear polythioethers. 3,730,949, 5-1-73, Cl. 260-47.00r.

Jungbluth, Ernest J.; Kavanaugh, Paul K.; and Gardner, Frederick H., to Stromberg-Carlson Corporation. Automatic transfer arrangement for telephone system. 3,715,503, 2-6-73, Cl. 179-15.0bf.

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Junger, Hans; Kotzsch, Hans-Joachim; Vahlensieck, Hans-Joachim; and Weissenfels, Franz, to Dynamit Nobel Aktiengesellschaft. Use of modified resins as binding agents for mineral substances. 3,720,642, 3-13-73, Cl. 260-37.00r.

Junger, Hans; and Weissenfels, Franz, to Dynamit Nobel Aktiengesellschaft. Process for the preparation of copolycondensates comprising reacting phenol, a furfural, a urea and an aliphatic aldehyde. 3,778,413, 12-11-73, Cl. 260-51.500.

Jungerman, Eric; and Casely, Robert E., to Armour-Dial, Inc. Synergistic antiseptic compositions containing certain hydroxycarbanilides. 3,770,642, 11-6-73, Cl. 252-107.000.

Jungermann, Eric; and Reich, Henry E., to Armour and Company. Germicidal compound and soap compositions incorporating the same. 3,719,605, 3-6-73, Cl. 252-107.000.

Jungermann, Eric; and Reich, Henry E., to Armour-Dial, Inc. Bisphenol phosphorus esters. 3,729,532, 4-24-73, Cl. 260-936.000.

Jungesjo, Harald N.: *See—*
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Junghahnel, Rudolf; and Pastura, Albino, to Dynamit Nobel Aktiengesellschaft. Pentachlorophenol preservative. 3,756,960, 9-4-73, Cl. 252-404.000.

Junghans, Klaus; and Ropke, Horst, to Schering A.G. Partial electrochemical reduction or 19-nor-delta 1,3,5(10)-steroids. 3,720,694, 3-13-73, Cl. 260-397.500.

Junginger, Klaus, to Original Hanau Quarzlampen GmbH. Floodlighting system and spotlights therefor. 3,766,377, 10-16-73, Cl. 240-41.150.

Junginger, Klaus M., to Original Hanau Quarzlampen GmbH. Operating lamp provided with a light pipe. 3,772,506, 11-13-73, Cl. 240-1.400.

Jungjohann, Vernon H.: *See—*
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Jungle, Nils Ake Curt, to Aktiebolaget Gotaverken. Welding machine for connecting tubes to a wall. 3,776,449, 12-4-73, Cl. 228-29.000.

Jungreis, Sidney W. Method of isotonic exercise. 3,731,922, 5-8-73, Cl. 272-81.000.

Junike, Wilhelm August Karl; and Hauck, Theodor Franz, to Werkzeugmaschinenfabrik Gildemeister & Comp., Aktiengesellschaft, mesne. Method for determining, without physical contact, the swivel position of a body clamped into a rotary support. 3,737,753, 6-573, Cl. 318-602.000.

Junk, Thomas A.; and Bunk, Carl P., to Component Equipment Manufacturing, Inc. Self-feeding double-cut saw. 3,745,866, 7-17-73, Cl. 83-423.000.

Junker, Arnold E., to Avco Corporation. High speed shaft centrifuge fluid seal. 3,765,688, 10-16-73, Cl. 277-14.000.

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Junker, Bernhard T.; Breeding, Terry G.; Hoyt, Michael T.; and Hedrick, Ross M., to Monsanto Company. Method for polymer casting from inlet reservoir. 3,708,566, 1-2-73, Cl. 264-171.000.

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Junkers & Co., G.m.b.H.: *See—*
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Jurasek, Jaromir; Mikac, Mojimar; and Podzimek, Karel, to Svit, narodni podnik. Method of manufacture waterproof shoes. 3,708,815, 1-9-73, Cl. 12-142.00e.

Jurasek, Walter R., to Avoset Food Corporation. Blanking machine vacuum system. 3,735,654, 5-29-73, Cl. 83-100.000.

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Jurcak, Frank C. Lobster tail cutting device. 3,735,445, 5-29-73, Cl. 17-71.000.

Jurd, Leonard; and King, Alfred Douglas, Jr., to United States of America, Agriculture. Preservation process using 2-(4-hydroxyphenyl)-benzofuran. 3,745,218, 7-10-73, Cl. 424-285.000.

Jurd, Leonard; King, Alfred Douglas, Jr.; and Stanley, William L., to United States of America, Agriculture. Cinnamyl phenols useful as antimicrobial agents. 3,745,222, 7-10-73, Cl. 424-346.000.

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Jurecic, Anton, to Pennwalt Corporation. Cement comprised of zinc oxide and acrylic acid copolymer. 3,741,926, 6-26-73, Cl. 260-29.60m.

Jureit, John Calvin, to Automated Building Components, Inc. Connector plate. 3,731,583, 5-8-73, Cl. 85-13.000.

Jureit, John Calvin, to Automated Building Components, Inc. Fluid-actuated press. 3,750,562, 8-7-73, Cl. 100-100.000.

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Jurgeleit, Wolfgang; and Winter, Hermann, to Chemische Werke Huls Aktiengesellschaft. Process of making an open-celled vinyl chloride polymer plastisol. 3,770,665, 11-6-73, Cl. 260-2.50p.

Jurgens, Erwin, to Union Special Maschinenfabrik G.m.b.H. Blind-stitch sewing machine. 3,747,546, 7-24-73, Cl. 112-178.000.

Jurgens, Erwin, to Union Special Maschinenfabrik G.m.b.H. Thread-chain cutting device for sewing machines with means for adjusting length of thread remaining on work. 3,749,040, 7-31-73, Cl. 112-252.000.

Jurgens, Francis T., to Peters, Anthony, mesne. Battery charging system. 3,753,072, 8-14-73, Cl. 320-39.000.

Jurgensen, Peter D., to Moore, Gerling, Inc., mesne. Access tunnel and attenuator for microwave ovens. 3,754,111, 8-21-73, Cl. 219-10.550.

Jurging, Klaus: *See—*
Sieckmann, Werner; Jurging, Klaus; and Zwach, Jan, 3,773,629.

Juri, Isao; Koguchi, Kazuo; Kuroiwa, Toshimi; and Koken, Tomoyuki, to Tokyo Shibaura Electric Co., Ltd. Semiconductor rectifier device. 3,718,850, 2-27-73, Cl. 321-8.00c.

Juricek, Edward L., to Sulzer Brothers Limited. Resonance control for a muffle burner. 3,723,049, 3-27-73, Cl. 431-183.000.

Jurid Werke GmbH: *See—*
Popp, Franz; and Augustin, Wilfried, 3,725,334.
Wilhelmi, Heiner, 3,755,774.

Jurien de la Graviere, Marcel: *See—*
Gallay, Jean-Jacques; Helary, Jean-Louis; and Jurien de la Graviere, Marcel, 3,721,549.

Jurina, Nicolo, to I.C.O.S. Impresa Costruzioni Opere Specializzate S.p.A. Building of underground partition walls. 3,760,594, 9-25-73, Cl. 61-39.000.

Jurisch, Wilhelm: *See—*
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Jurischka, Hans-Dieter: *See—*
Heinroth, Karl-August; Neumann, Herbert; Dauscher, Rudi; Jurischka, Hans-Dieter; and Bach, Hans, 3,756,006.

Jurjans, Ojars, to Jetronic Industries, Inc. Programable timer for controlling the injection of additives to a dry cleaning solvent charge. 3,721,908, 3-20-73, Cl. 328-131.000.

Jurjans, Ojars, to Jetronic Industries, Inc. Programmable control of the injection of additives in a laundering operation. 3,771,333, 11-13-73, Cl. 68-12.00r.

Jurkoic, Joseph R. Apparatus facilitating the loading of horses into trailers. 3,762,631, 10-2-73, Cl. 231-2.00r.

Jurmo, Michael W.: *See—*
Withers, James G., Jr.; Habdas, Edward P.; and Jurmo, Michael W., 3,779,312.

Jurny, Josef: *See—*
Stepanek, Karel; and Jurny, Josef, 3,709,048.

Juroff, Lyle Bruce, to RCA Corporation. Remote control system for a television receiver. 3,769,588, 10-30-73, Cl. 325-392.000.

Jurow, Victor A.: *See—*
Phillips, Michael; and Jurow, Victor A., 3,779,410.

Jurrens, Lawrence D., to Phillips Petroleum Company. Amorphous polypropylene stabilized hot melt adhesive. 3,717,601, 2-20-73, Cl. 260-27.0ev.

Jury & Spiers Proprietary Limited: *See—*
Jury, Harold Rex, 3,737,964.
Jury, Harold Rex, 3,768,130.
Jury, Harold Rex, 3,768,288.
Jury, Harold Rex, 3,774,274.
Ryan, Trevor B., 3,740,812.

Jury, Harold Rex, to Jury & Spiers Proprietary Limited. Expanded structural members. 3,737,964, 6-12-73, Cl. 29-155.00r.

Jury, Harold Rex, to Jury & Spiers Proprietary Limited. Light weight tubular columns. 3,768,130, 10-30-73, Cl. 29-155.00c.

Jury, Harold Rex, to Jury & Spiers Proprietary Limited. Process for the production of tube from ductile metal. 3,768,288, 10-30-73, Cl. 72-61.000.

Jury, Harold Rex, to Jury & Spiers Proprietary Limited. Means and method for producing expanded metal. 3,774,274, 11-27-73, Cl. 29-6.100.

Jury, Webster W.: *See—*
Esser, George William; and Jury, Webster W., 3,731,790.

Jusim, Lev Veniaminovich: *See—*
Ageev, Georgy Sergeevich; Kuptsov, Ivan Pavlovich; and Jusim, Lev Veniaminovich, 3,731,492.

Juskey, John S.: *See—*
Strem, Joseph G.; Juskey, John S.; and Moschovis, Elias P., 3,764,323.

Jusseau, Noel: *See—*
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Just, Bernard L.: *See—*
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Just, Christian: *See—*
Alt, Hans Rudolf; Just, Christian; and Wildbolz, Rudolf, 3,736,624.

Just Design, Inc.: *See—*
Newsteder, Robert, 3,777,951.

Just, Franklin H.: *See—*
Brunson, Glenn S.; Curran, Robert N.; and Just, Franklin H., 3,725,688.
Brunson, Glenn S.; Curran, Robert N.; and Just, Franklin H., 3,732,422.

Just, George E.: *See—*
Just, George E.; and Simonovitch, Chaim (said Simonovitch assor. to said), 3,776,940.
Just, George E.; and Simonovitch, Chaim (said Simonovitch assor. to said), 3,776,941.

Just, George E.; and Simonovitch, Chaim, said Simonovitch assor. to said Just, George E. Intermediates for producing prostaglandins. 3,776,940, 12-4-73, Cl. 260-468.00g.

Just, George E.; and Simonovitch, Chaim, said Simonovitch assor. to said Just, George E. Intermediates for producing prostaglandins. 3,776,941, 12-4-73, Cl. 260-468.00g.

Justason, Alastair, to Goodrich, B. F., Company, The. Belt measuring apparatus. 3,711,952, 1-23-73, Cl. 33-125.00r.

Juster, Robert W., to Affiliated Hospital Products, Inc. Packaged catheter arrangement. 3,750,875, 8-7-73, Cl. 206-63.20r.

Justheim, Clarence I., to Justheim Petroleum Company. Method for the in-situ treatment of hydrocarbonaceous materials. 3,766,982, 10-23-73, Cl. 166-261.000.

Justheim Petroleum Company: *See—*
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Justi, Eduard: *See—*
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Justice, Gregory; and Loebner, Egon E., to Hewlett-Packard Company. Nondispersive infarared gas analyzer employing solid state emitters and photodetectors. 3,734,631, 5-22-73, Cl. 356-205.000.

Justice, Jack: *See—*
Justice, Marjorie T.; and Justice, Jack, 3,707,742.

Justice, James Robert, to Headway Company, The. Highway sign system. 3,732,558, 5-8-73, Cl. 340-330.000.

Justice, James W. H., to Westinghouse Electric Corporation. Color television system. 3,710,014, 1-9-73, Cl. 178-5.4st.

Justice, James W. H., to Westinghouse Electric Corporation. Multiplex video transmission system. 3,725,571, 4-3-73, Cl. 178-5.20r.

Justice, James W. H., to Westinghouse Electric Corporation. Multiplex TV system for transmitting and receiving a plurality of pictures on a line sharing basis. 3,745,242, 7-10-73, Cl. 178-6.000.

Justice, Marjorie T.; and Justice, Jack. Device for holding objects in a handbag or the like. 3,707,742, 1-2-73, Cl. 24-86.00b.

Justman, Dan B., to Murphy, G. W., Industries, Inc. Rotary cutter for earth boring bits. 3,747,999, 7-24-73, Cl. 308-15.000.

Juston, Claude: *See—*
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Justrite Manufacturing Company: *See—*
Flider, Frank S., 3,727,807.
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Justus, Ben: *See—*
Long, Jasper J.; and Justus, Ben, 3,719,990.

Justus, Edgar J., to Beloit Corporation. Paper machine foil support having controlled deflection. 3,762,991, 10-2-73, Cl. 162-352.000.

Justus, Edgar J.; and Skinner, Eugene S., to Beloit Corporation. Device and method for finishing the contour of paper making rolls. 3,775,241, 11-27-73, Cl. 162-199.000.

Jute Industries Limited: *See—*
White, Wilfred A. S.; and West, Edgar R., 3,778,988.





Juten, Milford A.: *See—*
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Jutte, Gottfried W.: *See—*
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Jutz, Christian; and Mueller, Werner, to Byk-Gulden Lomberg Chemische Fabrik GmbH. Nitrile compounds. 3,759,976, 9-18-73, Cl. 260-465.000.

Jutzi, Wilhelm, to International Business Machines Corporation. Integrated semiconductor circuit for data storage. 3,751,687, 8-7-73, Cl. 307-279.000.

Juvenilia: *See—*
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Juvonen, Heino: *See—*
Niemi, Ossi; and Juvonen, Heino, 3,744,184.
Niemi, Ossi; and Juvonen, Heino, 3,771,769.

Juy, Lucien Charles H. Speed-change mechanism for a bicycle. 3,730,012, 5-1-73, Cl. 74-242.000.

Jvirblis, Gail D.: *See—*
Mammino, Joseph; and Jvirblis, Gail D., 3,770,430.

JWI Ltd.: *See—*
Beacom, Oliver J.; and MacBean, Donald G., 3,732,142.
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K. & M. Rubber Co.: *See—*
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K&M Enterprises, Incorporated: *See—*
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K-B Engineering Company: *See—*
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K-D Lamp Company: *See—*
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K-D Manufacturing Company: *See—*
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K-G Industries, Inc.: *See—*
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K-Line Industries, Inc.: *See—*
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K-P Manufacturing Co., Inc.: *See—*
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Kaarsemaker, Sjoerd: *See—*
Rang, Hendrik J.; and Kaarsemaker, Sjoerd, 3,759,887.

Kaartinen, Niilo H., to Packard Instrument Company, Inc. Method and apparatus for providing fractional interaction between gases and liquids. 3,761,228, 9-25-73, Cl. 23-232.00r.

Kaashoek, Johannes, to U.S. Philips Corporation. Colour television display device. 3,714,500, 1-30-73, Cl. 315-24.000.

Kaatz, Herbert W.; Small, Charles B.; and Branch, Arthur, to Airborne Mfg. Co. Method of and apparatus for controlling a deicer boot system. 3,720,388, 3-13-73, Cl. 244-134.00a.

Kabak, Daniel M.: *See—*
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Kabas, Guglielmo: *See—*
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Kabaya, Yoshihiko; and Ikeda, Heishichi, to Kabushiki Kaisha Kyodo Denshi Gijutsu Kenkyusho. Production of semiconductor integrated-circuit devices. 3,770,520, 11-6-73, Cl. 148-175.000.

Kabayama, Sukeaki; Kume, Masahiro; Katou, Akira; Yamada, Susumu; and Isei, Masayuki, to Sumitomo Electric Industry Company Ltd. and Nissin Electric Company, Ltd. Vacuum-type current interrupter. 3,720,798, 3-13-73, Cl. 200-144.00b.

Kabbe, Hans-Joachim: *See—*
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Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft: *See—*
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Kabel-und Metallwerke Gutehoffnungshutte Aktiengesellschaft, mesne: *See—*
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Kabele, Stanislav: *See—*
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Kabelitz, Hans, to Gebruder Sucker Machingladbach. Method for controlling the filling or weighting absorption of a fibrous material. 3,737,338, 6-5-73, Cl. 117-102.00l.

Kabell, Louis J.: *See—*
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Kabelschlopp Gesellschaft mit beschrankter Haftung: *See—*
Kietz, Lothar, 3,751,120.

Kabik, Irving; and Rosenthal, Louis A., to United States of America, Navy. Apparatus for controlling the fabrication of electroexplosive devices. 3,742,811, 7-3-73, Cl. 86-20.00r.

Kabil, Adel J., to Aktiengesellschaft Jungbunzlauer Spiritus- und Chemische Fabrik. Process for the production of citric acid by submerged fermentation. 3,741,869, 6-26-73, Cl. 195-36.00r.

Kabisch, Gerhard: *See—*
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Kabisch, Gerhard, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of hydrogen peroxide. 3,714,342, 1-30-73, Cl. 423-588.000.

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Kabisch, Gerhard; and Kunkel, Wolfgang, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of organic hydrogen peroxide solution. 3,743,706, 7-3-73, Cl. 423-588.000.

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Kablaoui, Mahmoud S. Aromatization of cyclohexene derivatives. 3,758,589, 9-11-73, Cl. 260-590.000.

Kablauoui, Mahmoud S.; and Kolaian, Jack H., to Texaco Inc. Drilling fluid. 3,752,763, 8-14-73, Cl. 252-8.50c.

Kabler, Donald J.; Gang, Robert E.; and Reeser, William O., Jr., to Varian Associates. Magnetic field shim coil structure utilizing laminated printed circuit sheets. 3,735,306, 5-22-73, Cl. 336-192.000.

Kabushiki Kaisha Aiden: *See—*
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Kabushiki Kaisha Audio-Technica: *See—*
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Kabushiki Kaisha Chiyoda: *See—*
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Kabushiki Kaisha Chukyo Gijutsu Center: *See—*
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Kabushiki Kaisha Chuogoraku Kenkyusha: *See—*
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Kabushiki Kaisha Circle Tekkojo: *See—*
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Kabushiki Kaisha Daikin Seisakusho: *See—*
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Kabushikikaisha Tokyo Keiki (Tokyo Keiki Co., Ltd.): *See—*
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Kabushikikaisha Yokogawa Denki Seisakusho: *See—*
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Kabushikikaisha Yokogawa Denki Seisakusho (Yokogawa Electric Works, Ltd.): *See—*
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Kabusiki-Kaisha Nakatani: *See—*
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Kacarb Products Corporation, mesne: *See—*
Orkin, Stanley S.; and Hartwick, Richard W., 3,709,573.
Orkin, Stanley S.; and Whitfield, Alan A., 3,711,171.

Kachel, Irwin, to Zenith Radio Corporation. Method of screening a color picture tube. 3,734,728, 5-22-73, Cl. 96-36.100.

Kachel, Volker, to Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V. Method of and measuring chamber for measuring properties of particles suspended in liquid. 3,764,901, 10-9-73, Cl. 324-71.0cp.

Kachelhoffer, Jean, to Institut National de la Sante et de la Recherche Medicale. Device for producing a pulsating flow of a fluid. 3,758,237, 9-11-73, Cl. 417-394.000.

Kachergis, Henry J. Water inlet control means for toilet tanks. 3,709,246, 1-9-73, Cl. 137-216.000.

Kachi, Atsuyuki: *See—*
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Kachler, Robert S. Wheel cover assembly. 3,724,905, 4-3-73, Cl. 301-37.00p.

Kachur, Nicholas W.: *See—*
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Kachur, Victor; and Toeniskoetter, Richard E., to Ashland Oil Inc. Foundry processes and products. 3,745,139, 7-10-73, Cl. 260-38.000.

Kack, James W.; and Mowbray, Terry E., to Holubar Mountaineering Ltd. Method of manufacture of down insulated goods. 3,771,203, 11-13-73, Cl. 28-77.000.

Kacsmarek, Bela: *See—*
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Kaczerginski, Alexandre, to Societe Europeenne d'Isolateurs en Verre Sediver. Apparatus for producing solid electrical insulators. 3,736,210, 5-29-73, Cl. 156-431.000.

Kaczeus, Steven L., to Printer Technology Inc. Printer with helically arranged type divided into axially offset group. 3,724,631, 4-3-73, Cl. 197-49.000.

Kaczkowski, Bernard C.: *See—*
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Kaczmarek, Leonard J., to Bunker-Ramo Corporation, The. Crimping apparatus. 3,733,883, 5-22-73, Cl. 72-402.000.

Kaczmarek, Thomas D., to United States of America, Army, mesne. Inert plastic film for support and packaging of chemical spot test systems. 3,726,645, 4-10-73, Cl. 23-253.0tp.

Kaczmarek, Thomas S. Foldable golf cart. 3,709,514, 1-9-73, Cl. 280-41.00c.

Kaczmarzyk, Leonard M.: *See—*
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Kadale Equipment Company: *See—*
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Kadar, Nicholas M., to Singer Company, The. Slideback peak circuits with constant tone indications. 3,710,249, 1-9-73, Cl. 324-103.00p.

Kadatz, Rudolf: *See—*
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Kadawaki, Takashi: *See—*
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Kader, Reiner: *See—*
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Kadi, Frank G. Pneumatic wafer spinner and control for same. 3,730,134, 5-1-73, Cl. 118-6.000.

Kadin, Saul B., to Pfizer Inc. 1,3(2H, 4H)-dioxoisoquinoline-4-carboxylate esters and process therefor. 3,726,875, 4-10-73, Cl. 260-281.000.

Kadison, Leon A.; and Maguire, Eileen, to Crown City Plating Company. Chromic acid conditioner for treatment of polymeric resin surfaces for electroless plating. 3,708,430, 1-2-73, Cl. 252-188.000.

Kadison, Leon A.; and Maguire, Eileen, to Crown City Plating Company. Electroless plating process employing solutions stabilized with sulfamic acid and salts thereof. 3,748,166, 7-24-73, Cl. 117-47.00a.

Kadison, Leon A.; and Maguire, Eileen, to Crown City Plating Company. Electroless plating solutions containing sulfamic acid and salts thereof. 3,754,940, 8-28-73, Cl. 106-1.000.

Kadlez, Karl; and Marek, Adolf, to Simmering-Graz-Pauker Aktiengesellschaft fur Maschinen-Kassel-und Waggonbau. Apparatus for welding tubes into tube plates. 3,739,133, 6-12-73, Cl. 219-60.00a.

Kadner, Martin: *See—*
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Kado, Masaru: *See—*
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Kado, Taiichi, to Taiyo Iron Works Ltd. Cylinder covers for fluid pressure cylinders. 3,738,232, 6-12-73, Cl. 92-161.000.

Kadokura, Hidekimi: *See—*
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Kadond, Takeji: *See—*
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Kadota, Tokuzo, to Matsushita Electric Industrial Co., Ltd. Toroidal deflection yoke. 3,758,888, 9-11-73, Cl. 335-210.000.

Kadow, Hermann, to Siemens Aktiengesellschaft. Control device for a selective matrix of a data memory with selective access. 3,728,552, 4-17-73, Cl. 307-208.000.

Kadow, Hermann, to Siemens Aktiengesellschaft. Selection matrix protected against overcharging and designed for a data memory having random access. 3,737,859, 6-5-73, Cl. 340-166.00r.

Kadowaki, Koju; and Koshikawa, Takeo. Production of acrylic acid. 3,773,828, 11-20-73, Cl. 260-530.00n.

Kadowaki, Tatsusuki; and Kurasawa, Makoto, to Kabushiki Kaisha Ricoh. Clutch engaging and disengaging device. 3,715,018, 2-6-73, Cl. 192-24.000.

Kadowaki, Yoshio: *See—*
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Kadoya, Teruichi; Kobayashi, Kunio; Kobayashi, Tetuo; and Koga, Yasuyuki, to Takarazuka Control Cable Co., Inc. Winterized control cable. 3,764,779, 10-9-73, Cl. 219-201.000.

Kadoya, Yoshiki, to Kyowa Electronic Instruments Co., Ltd. Device for measuring mechanical deviation at remote location. 3,733,134, 5-15-73, Cl. 356-152.000.

Kadrmas, Kenneth A. Self-calibrating multiple field of view telescope for remote atmospheric electromagnetic probing and data acquisition. 3,781,552, 12-25-73, Cl. 250-206.000.

Kadron, Don G.; Hoff, Wallace J.; and Parks, Robert L., to Westinghouse Electric Corporation. Non-linear function generator. 3,736,515, 5-29-73, Cl. 328-143.000.

Kadron, Stanley F., to Bendix Corporation, The. Automatic beat frequency oscillator switch for an airborne automatic direction finder. 3,714,582, 1-30-73, Cl. 325-341.000.

Kae-Tee Development Corporation: *See—*
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Kaeding, Warren W.; and Butter, Stephen A., to Mobil Oil Corporation. Preparation of aromatics over zeolite catalysts. 3,775,501, 11-27-73, Cl. 260-673.000.

Kaegebein, Daniel P. Notch filter network having resonant and antiresonant means. 3,717,827, 2-20-73, Cl. 333-73.00c.

Kaelin, George R.: *See—*
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Kaelin, George R.; and Piatt, David M., to Litton Systems, Inc. Touch entry switch array. 3,732,389, 5-8-73, Cl. 200-167.00a.

Kaelin, George R.; and Pellegrino, James A., to Litton Systems, Inc. Driving circuits for light emitting diodes. 3,740,570, 6-19-73, Cl. 307-40.000.

Kaelin, Werner, to Sulzer Brothers Limited. Method of making a heat transfer device. 3,742,567, 7-3-73, Cl. 29-157.30b.

Kaelon, Kenneth C., to Lockheed Aircraft Corporation. Device for turning an element. 3,719,112, 3-6-73, Cl. 81-57.390.

Kaemmer, Herbert H., to Automatic Switch Co. Fluidic pressure amplifier. 3,741,247, 6-26-73, Cl. 137-625.660.

Kaempfen, Henry Xavier, to American Cyanamid Company. Bispyrid oxazole-stilbene derivatives for optical brightening. 3,712,888, 1-23-73, Cl. 260-240.0ca.

Kaempfen, Henry Xavier, to American Cyanamid Company. Bis oxazoles as brighteners for fibers and plastics. 3,767,663, 10-23-73, Cl. 260-307.00d.

Kaeppeli, Viktor: *See—*
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Kaercher, William C., Jr., to Jacobson Manufacturing Company. Wire and tape laying machine employing oscillatory trenching blade and oscillatory feed device. 3,757,529, 9-11-73, Cl. 61-72.600.

Kaercher, William C., Jr., to Jacobsen Manufacturing Company. Gripping device for use in laying pipes and tubes. 3,758,146, 9-11-73, Cl. 294-94.000.

Kaes, Karl: *See—*
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Kaesemeyer, Carl W.; and Garman, Dean H., to Cincinnati Milacron Inc. Coolant discharge system for grinding machine. 3,712,001, 1-23-73, Cl. 51-356.000.

Kaesemeyer, Carl W., to Cincinnati Milacron Inc. Rotary work driver for machine tools. 3,720,124, 3-13-73, Cl. 82-40.000.

Kaesemeyer, Carl W., to Cincinnati Milacron Inc. Hydraulic actuator with arcuate expansible chambers. 3,724,335, 4-3-73, Cl. 92-66.000.

Kaesemeyer, Carl W., to Cincinnati Milacron Inc. Multi-plunge turning apparatus. 3,728,917, 4-24-73, Cl. 82-25.000.

Kaeser, Ernst K.: *See—*
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Kaess, Franz; Leinhard, Klaus; and Michaud, Horst, to Suddeutsche Kalkstickstoff-Werke AG. Process for preparing vinylidene fluoride. 3,723,549, 3-27-73, Cl. 260-653.300.

Kaessen, Donald A.: *See—*
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Conery, William J.; and Kaessen, Donald A., 3,732,889.

Kaesser, Glenda F.; and Zavertnik, Marshall G., to Killark Electric Manufacturing Company. Flame proof thermostat box. 3,739,128, 6-12-73, Cl. 200-168.00g.

Kaesser, Glenda F.; and Zavertnik, Marshall G., to Killark Electric Manufacturing Company. Removable flame-proof potted fitting. 3,761,601, 9-25-73, Cl. 174-52.00r.

Kaesser, Glenda F.; and Zavertnik, Marshall G., to Killark Electric Manufacturing Company. Flame-proof fitting. 3,779,078, 12-18-73, Cl. 73-343.00r.

Kaestner, Paul T. Optical apparatus for focusing an image. 3,757,124, 9-4-73, Cl. 250-201.000.

Kafafian, Haig. Tactually interpretable cell and slate for forming the same. 3,718,991, 3-6-73, Cl. 35-38.000.

Kafafian, Haig. Method of communication and/or testing of the handicapped. 3,781,802, 12-25-73, Cl. 340-147.00r.

Kafejiev, Iliya Chudomirov; Guenchev, Lubomir Nikolov; and Klyamov, Kostadin Spirov, to DSO "Bulgarplod". Method of peeling fruits and vegetables. 3,769,439, 10-30-73, Cl. 426-482.000.

Kafes, Nicholas C.: *See—*
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Kafka, Wilhelm, to Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V. Electrical conductor for superconductive windings or switching paths. 3,764,725, 10-9-73, Cl. 174-15.00c.

Kafkis, Nicholas H., to Rico Corporation. Device for swabbing the bore of a musical instrument. 3,739,420, 6-19-73, Cl. 15-211.000.

Kaftan, John A. Magnetic window cleaning apparatus with improved cleaning material and locator. 3,751,750, 8-14-73, Cl. 15-220.00a.

Kagakii, Akio: *See—*
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Kagami, Isao, to Canon Kabushiki Kaisha and Kabushiki Kaisha Meguro Seiki Seisakusho. Commutator for rotary machine. 3,775,629, 11-27-73, Cl. 310-235.000.

Kagami, Kamoto: *See—*
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Kagami, Takayoshi, to Daiwa Can Co. Ltd. Container and a method for producing same. 3,738,528, 6-12-73, Cl. 220-72.000.

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Kagan, Claude Ancelme Roichel, to Western Electric Company, Incorporated. Inductive data coupler. 3,736,379, 5-29-73, Cl. 179-2.00c.

Kagan, David. Lay-in cable ducting assemblies. 3,727,644, 4-17-73, Cl. 138-155.000.

Kagan, Fred: *See—*
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Kagans, Marc: *See—*
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Kagata, Tooru, to Aisin Seiki Kabushiki Kaisha. Free wheel hub mechanism. 3,765,521, 10-16-73, Cl. 192-35.000.

Kagechika, Takashi: *See—*
Numata, Saburo; and Kagechika, Takashi, 3,743,392.

Kagei, Kengo: *See—*
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Kagele, Frank L.; Meyers, Lavern H.; and Trent, Edward J., to Intercontinental Services, Inc. Keno ticket printer. 3,749,007, 7-31-73, Cl. 101-93.00c.

Kageyama, Yoichi: *See—*
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Kah, Carl L. C., Jr. Irrigation sprinkler system control employing pilot operated, pressure actuated and sequenced valve assemblies. 3,747,620, 7-24-73, Cl. 137-119.000.

Kahabka, Richard D.: *See—*
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Kahabka, William P.: *See—*
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Kahale, Abed G.; Yatsushiro, Kenji; and Wielgus, Thaddeus S., to Controls Company of America. Warning signal relay and system. 3,720,936, 3-13-73, Cl. 340-261.000.

Kahan, Edward. Portable collector apparatus. 3,738,697, 6-12-73, Cl. 294-19.00r.

Kahanic, Francis P., to Teletype Corporation. Fluorescent lamp igniting circuit. 3,720,861, 3-13-73, Cl. 315-101.000.

Kahelin, Edward W. Spring type ball throwing booster. 3,760,787, 9-25-73, Cl. 124-16.000.

Kahen, Hooshang, to International Business Machines Corporation. Speed controlled timing light. 3,727,124, 4-10-73, Cl. 324-16.00r.

Kahl, Eberhard, to Bosch, Robert, G.m.b.H. Automatically steered self-propelled vehicle. 3,750,833, 8-7-73, Cl. 180-79.100.

Kahl, Joseph. Cable-guided messenger. 3,756,160, 9-4-73, Cl. 104-113.000.

Kahl, Joseph. Submersible sampler. 3,769,842, 11-6-73, Cl. 73-425.600.

Kahl, Joseph. Hinged impact messenger for marine equipment. 3,769,928, 11-6-73, Cl. 114-221.00r.

Kahl, William G., Jr.; and Davenport, Andrew J., to Arrowhead Enterprises, Inc. Photoelectric intrusion detector. 3,752,978, 8-14-73, Cl. 250-340.000.

Kahle Aktiengesellschaft: *See—*
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Kahle, Rolf D.; Studey, David K.; and Bryson, James D., to Bessemer Securities Corporation. Microfiche recorder and processor. 3,746,444, 7-17-73, Cl. 355-28.000.

Kahlen, Horst: *See—*
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Kahler, Ronald D. Apparatus for testing alternators and voltage regulators. 3,745,456, 7-10-73, Cl. 324-73.00r.

Kahler, Tom: *See—*
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Kahlin, Erik B.: *See—*
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Kahmann, Manfred. Grip pulley. 3,763,714, 10-9-73, Cl. 74-230.300.

Kahn, Alexander; Kahn, Charles; and Johannesen, Warren, to U.S. Dynamics Corporation. Liquid level sensing and control system. 3,757,317, 9-4-73, Cl. 340-244.00r.

Kahn, Ben, Furs Corporation: *See—*
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Kahn, Burton M. Reinforced concrete plate construction. 3,774,359, 11-27-73, Cl. 52-125.000.

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Kahn, Frederic Jay, to Bell Telephone Laboratories, Incorporated. Electronically variable iris or stop mechanisms. 3,741,629, 6-26-73, Cl. 350-160.01c.

Kahn, Lawrence F., to United States of America, Navy. Underwater in situ placement of concrete. 3,745,775, 7-17-73, Cl. 61-46.000.

Kahn, Louis Lazare. Marine missiles for destruction of submarine targets. 3,779,194, 12-18-73, Cl. 114-20.00r.

Kahn, Manfred, to Sprague Electric Company. Electrical device having ohmic or low loss contacts. 3,716,407, 2-13-73, Cl. 117-224.000.

Kahn, Manfred, to Sprague Electric Company. Overlay for ohmic contact electrodes. 3,717,798, 2-20-73, Cl. 317-234.00r.

Kahn, Michael Edwin; Krajewski, William Frank; and Johnson, Terry Gordon, to Memorex Corporation. Thermal protection device. 3,735,219, 5-22-73, Cl. 318-135.000.

Kahn, Myron; and Werderman, William R., to Polorized Corporation of America. Machine for continuously producing large area light polarizing panels. 3,772,128, 11-13-73, Cl. 156-555.000.

Kahn, Paul: *See—*
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Kahn, Paul; and Brown, Ronald C., to Cutter Laboratories, Inc. Artificial heart assembly and heart assist device. 3,766,567, 10-23-73, Cl. 3-1.000.

Kahn, Robert D., to Fedtro, Inc. Burglar and personal protection alarm system for vehicles. 3,728,674, 4-17-73, Cl. 340-63.000.

Kahn, William M.: *See—*
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Kahovcova, Kitka: *See—*
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Kahr, Kurt: *See—*
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Kahre, George H. Rotary internal combustion engine. 3,769,945, 11-6-73, Cl. 123-8.230.

Kahrs, James W.; and Osborn, Paul E., to Mor-Fish-Ent, Inc. Fish self-feeder. 3,730,142, 5-1-73, Cl. 119-54.000.

Kahwati, Ghassan N.; Gade, John N.; Mac Kay, James D.; and Druzynski, Conrad J., to Eastman Kodak Company. Controls for spooling apparatus. 3,780,961, 12-25-73, Cl. 242-67.30r.

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Kaiaoka, Toshimitsu: *See—*
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Kaidzu, Hiromu: *See—*
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Kalister, Gary B., 1/2 to Napoleon Spring Works, Inc. and Kilcon, Inc. Cone apparatus. 3,779,537, 12-18-73, Cl. 267-179.000.

Kalitinsky, Andrew; and Crooks, James W., Jr., to General Dynamics Corporation. Photo detector system with dual mode capability. 3,735,139, 5-22-73, Cl. 250-213.0vt.

Kalium Chemicals Limited: *See—*
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Kalkhof, Gustav: *See—*
Pfeuffer, Alfred; Kalkhof, Gustav; Weber, Helmut; and Ludtke, Arnold, 3,730,780.

Kalkwaf, Lester. Pickup attachment for corn harvesters. 3,742,687, 7-3-73, Cl. 56-119.000.

Kallander, Charles A. Radial rhythmic chair. 3,743,352, 7-3-73, Cl. 297-285.000.

Kallander, John E. Head load balancer. 3,722,764, 3-27-73, Cl. 224-5.00r.

Kalle Aktiengesellschaft: *See—*
Bauer, Sigrid; Klupfel, Kurt-Walter; and Faust, Raimund Josef, 3,751,259.
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Porrmann, Herbert; Klenk, Ludwig; and Loffler, Manfred, 3,747,174.
Rassbach, Felix; and Buttner, Rolf, 3,724,030.
Reichel, Maximilian Karl, 3,772,017.
Ruckert, Hans; Kramer, Heinz; and Agustein, Gustav, 3,751,285.
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Seibel, Markus; and Thoese, Klaus, 3,720,539.
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Kallenbach, Ralph M. Motorcycle towing apparatus. 3,778,087, 12-11-73, Cl. 280-292.000.

Kallenbach, Stanely E.: *See—*
Pande, Kailash C.; and Kallenbach, Stanely E., 3,776,889.

Kallenbach, Stanley E.: *See—*
Augarten, Sidney; Pande, Kailash C.; and Kallenbach, Stanley E., 3,738,973.

Kallenberg, Karl J., to Apeco Corporation. Dryer for photographic prints and the like. 3,739,486, 6-19-73, Cl. 34-70.000.

Kallert, Wilhelm: *See—*
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Kallet, Eli A., to Farrand Optical Co., Inc. Mixing and measuring apparatus. 3,719,410, 3-6-73, Cl. 356-36.000.

Kallet, Eli A., to Farrand Optical Co., Inc. Microspectrophotometer with two fields of view. 3,740,147, 6-19-73, Cl. 356-96.000.

Kallfelz, Albert J.; and Schmeling, Carl J., to Carrier Corporation. Multiple tube finning apparatus. 3,745,801, 7-17-73, Cl. 72-78.000.

Kallianides, Milton; and Klein, Gerhart P. Slot applicator method. 3,733,660, 5-22-73, Cl. 29-25.410.

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Kallianos, Andrew G.: *See—*
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Kallio, Kauko: *See—*
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Kallmes, Otto J.; and Saddler, Richard L., to Nicolet Paper Company. Diffuser for paper machine headbox. 3,770,580, 11-6-73, Cl. 162-341.000.

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Kallstrand, Gosta, to AB Svenska Maskinverken Kallhall. Kalopissis, Gregoire; Roussopoulos, Paul; and Zviak, Charles, to

Kallstrand, Gosta, to AB Svenska Maskinverken Kallhall. Economizer with flues connected in series. 3,768,447, 10-30-73, Cl. 122-421.000.

Kalman, Gabor U. Distance compensated reflectance sensor. 3,718,399, 2-27-73, Cl. 356-210.000.

Kalmar Verkstadsaktiebolag: *See—*
Holmberg, Bengt Roland; and Petersson, Ralf Krister Ebbe, 3,751,060.
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Kalmar Verstaids AB: *See—*
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Kalmus, Henry P. Acoustic doppler wave recognition. 3,733,581, 5-15-73, Cl. 340-1.00r.

Kalnin, Ilmar L., to Celanese Corporation. Surface modification of carbon fibers. 3,723,607, 3-27-73, Cl. 423-447.000.

Kalning, Frederick E.: *See—*
Redman, Howard E.; and Kalning, Frederick E., 3,710,955.

Kalninsh, Arvid Yanovich: *See—*
Kashkina, Nadezhda Alexandrovna; Pormale, Milda Yanovna; Kalninsh, Arvid Yanovich; Surna, Yan Alexandrovich; Baltkajs, Yanis Yanovich; and Shuster, Yan, 3,723,401.

Kalopissis, Gregoire: *See—*
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Charle, Roger; Aviak, Charles; and Kalopissis, Gregoire, 3,729,569.
Charle, Roger; Kalopissis, Gregoire; Viout, Andrio; Aretos, Constantin; and Gascon, Jean, 3,762,863.
Ghilardi, Giuliana; Kalopissis, Gregoire; De Beaulieu, Henri Philippe; and Abegg, Jean-Louis, 3,726,638.
Ghilardi, Guiliana; Kalopissis, Gregoire; de Beaulieu, Henri Philippe; and Abegg, Jean-Louis, 3,736,944.

Kalopissis, Gregoire; and Vanlerberghe, Guy, to Societe Anonyme dite: l'Oreal. Non-ionic surface-active agents derived from fatty chain diols and method of preparing same. 3,708,364, 1-2-73, Cl. 252-156.000.

Kalopissis, Gregoire; Gascon, Jean; Gallien, Jacqueline; Bugaut, Andree; and Gaston-Breton, Hubert, to Societe Anonyme dite: L'Oreal. Dyeing human hair and composition for including an oxidation dye and heterocyclic coupler thereof. 3,712,158, 1-23-73, Cl.8-11.000.

Kalopissis, Gregoire; Bugaut, Andree; and Gaston-Breton, Hubert, to Societe Anonyme dite: L'Oreal. 2,6-Dimethyl phenol couplers and oxidation dyes for dying human hair. 3,712,790, 1-23-73, Cl. 8-10.200.

Kalopissis, Gregoire, to Societe Anonyme dite: L'Oreal. Colored interpolymers of an epoxy compound, vinylpyrrolidone and vinyl acetate. 3,720,653, 3-13-73, Cl. 260-80.720.

Kalopissis, Gregoire; and Bugaut, Andree, to L'Oreal. Process for dyeing human hair with nitroparaphenylenediamine dyestuff and compositions therefor. 3,726,635, 4-10-73, Cl. 8-10.000.

Kalopissis, Gregoire; Bugaut, Andree; and Estradier, Francoise, to L'Oreal. Dyeing keratinous fibers with a quinoneimine and a coupler. 3,730,677, 5-1-73, Cl. 8-10.200.

Kalopissis, Gregoire; and Manoussos, Georges, to Societe Anonyme dite: L'Oreal. Amniotic liquid for conditioning the hair. 3,733,402, 5-15-73, Cl. 424-70.000.

Kalopissis, Gregoire; and Bugaut, Andree, to L'Oreal. Dyeing human hair with 2-aminophenols. 3,738,799, 6-12-73, Cl. 8-10.200.

Kalopissis, Gregoire, to L'Oreal. Treating keratinic fibers with polysulfhydeylated polymers. 3,741,723, 6-26-73, Cl. 8-127.510.

Kalopissis, Gregoire; Andres, Bugaut; and Vahn, Zorayan, to L'Oreal. Keratin fiber dye compounds. 3,742,048, 6-26-73, Cl. 260-562.00a.

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Kalopissis, Gregoire; and Bugaut, Andree, to Societe Anonyme dite: L'Oreal. Artificially coloring the skin with tetrazolium salts. 3,749,768, 7-31-73, Cl. 424-59.000.

Kalopissis, Gregoire; Abegg, Jean-Louis; Ghilardi, Guiliana; and De Beaulieu, Henri Philippe, to Societe Anonyme dite: L'Oreal. Product for treating hair. 3,757,804, 9-11-73, Cl. 132-7.000.

Kalopissis, Gregoire; Bugaut, Andree; and Estradier, Francoise, to Societe Anonyme dite: L'Oreal. Dyeing keratinous fibers and setting hair with indamines, salts thereof and cosmetic resin and compositions therefor. 3,758,268, 9-11-73, Cl. 8-11.000.

Kalopissis, Gregoire; and Bugaut, Andree, to Societe Anonyme dite: L'Oreal. N-(Haloalkyl)-benzene and para-toluene. 3,758,573, 9-11-73, Cl. 260-556.0ar.

Kalopissis, Gregoire; and Viout, Andre, to Societe Anonyme dite: L'Oreal. Colored organic polyanhydride polymers. 3,763,086, 10-2-73, Cl. 260-41.00c.

Kalopissis, Gregoire; Roussopoulos, Paul; and Zviak, Charles, to Societe Anonyme dite: L'Oreal. Permanently waving and permanently setting of hair. 3,768,490, 10-30-73, Cl. 132-7.000.

Kalopissis, Gregoire; Abegg, Jean Louis; de Beaulie, Henry; and Ghilardi, Guiliana, to Societe Anonyme dite: L'Oreal. Compositions and methods of improving the quality of human hair with stagle methylol compounds. 3,773,056, 11-20-73, Cl. 132-7.000.

Kalser, Ernst K.; Geiersbach, Allois F.; and Neumann, Manfred E., to Allis-Chalmers Corporation. Filter for replacing notches in electric waves. 3,777,250, 12-4-73, Cl. 321-9.00r.

Kalski, Bernd: *See—*
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Kalt, Bryson R. Protective pad for furniture articles. 3,725,188, 4-3-73, Cl. 161-116.000.

Kalt, Melvyn B.: *See—*
Seyb, Edgar J.; Kalt, Melvyn B.; and Chessin, Hyman, 3,755,094.

Kalt, Ulrich; and Kung, Rolf, to Aktiengesellschaft Brown, Boveri & Cie. Temperature responsive control switch with bi-metallic disk means. 3,749,865, 7-31-73, Cl. 200-83.00r.

Kaltenbach & Voigt: *See—*
Bareth, Erich, 3,758,948.

Kaltenbach, Dieter. Feed control apparatus for a rotary tool. 3,715,946, 2-13-73, Cl. 83-72.000.

Kaltenbach, Pierre. Light detection monitoring device. 3,750,157, 7-31-73, Cl. 340-227.00r.

Kaltenegger, Benno. Vibrating roller earth compactor. 3,722,380, 3-27-73, Cl. 94-50.00v.

Kaltenegger, Benno. Steering transmission mechanism and vehicles with rigidly mounted axles incorporating said mechanism. 3,763,944, 10-9-73, Cl. 180-6.200.

Kaltenthaler, Wolfgang; and Mylius, Horst, to Westinghouse Bremsen- und Apparatebau G.m.b.H. Brake cylinder for vehicles. 3,717,072, 2-20-73, Cl. 92-152.000.

Kalthoff, Carl-Heinz; Freis, Wilhelm; and Wilczynski, Peter, to Aktiengesellschaft des Altenbergs fur Bergbau und Zinkhuttenbetrieb. Method and machine for flotation of minerals or the like. 3,747,757, 7-24-73, Cl. 209-164.000.

Kalthoff, Robert J.; and O'Brien, Richard C., to OK Partnership, mesne. Document retrieval apparatus and method. 3,726,400, 4-10-73, Cl. 209-80.500.

Kaltin, Berndt, to Aktiebolaget Svenska Flaktfabriken. Method of drying goods suspended in a gas stream. 3,707,775, 1-2-73, Cl. 34-10.000.

Kaltmann, Hans-Joachim, to Rheinmetall GmbH. Muzzle-brake with a flash hider for automatic weapons and guns. 3,710,683, 1-16-73, Cl. 89-14.00b.

Kaltschmidt, Hans-Jurgen: *See—*
Strauss, Edmar; Foth, Seigfried; and Kaltschmidt, Hans-Jurgen, 3,758,706.

Kaltschmidt, Horst; Scholler, Peter; and Flachmann, Burkhard, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Method and transmission system for transmitting commands to a radio guided missile. 3,761,817, 9-25-73, Cl. 325-37.000.

Kalua, John, Jr. Safety hook. 3,722,943, 3-27-73, Cl. 294-82.00r.

Kalus, Serge, to Cegedur GP. Device for fixing panels and assembly. 3,712,013, 1-23-73, Cl. 52-584.000.

Kaluzhskoi, Obninsk: *See—*
Fedorovsky, Anatoly Evgenievich; Ivanjushkin, Evgeny Mikhailovich; and Kaluzhskoi, Obninsk, 3,757,196.

Kalven, Alex E., to GAF Corporation. Vacuum belt conveyor. 3,708,058, 1-2-73, Cl. 198-184.000.

Kalverboer, Cornelis, to Aktiengesellschaft Brown, Boveri & Cie. Method of and apparatus for testing monitoring organs in a turbine installation. 3,744,311, 7-10-73, Cl. 73-168.000.

Kalviiis, Robert: *See—*
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Kalvitz, Paul V.: *See—*
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Kalvoda, Jaroslav: *See—*
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Anner, Georg; and Kalvoda, Jaroslav, 3,716,638.
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Kalwaites, Frank, to Johnson & Johnson. Method for producing a rearranged fabric having improved cross-strength. 3,747,161, 7-24-73, Cl. 19-161.00p.

Kalwaites, Frank, to Johnson & Johnson. Method and apparatus (discontinuous imperforate portions on backing means of open sandwich). 3,750,236, 8-7-73, Cl. 19-161.00p.

Kalwaites, Frank, to Johnson & Johnson. Method for producing non-woven fabrics having a plurality of patterns. 3,750,237, 8-7-73, Cl. 19-161.00p.

Kalyaeva, Allanikolievna: *See—*
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Kalyanov, Dmitry Maximovich: *See—*
Kaushansky, David Aronovich; Gurevich, Yakov Adolfovich; Zhukov, Boris Grigorievich; Srapeniants, Rigo Artemievich; and Kalyanov, Dmitry Maximovich, 3,740,557.





Kalz, Dietmar; Wolf, Karlheinz; Wolfrum, Gerhard; and Hornle, Reinhold, to Bayer Aktiengesellschaft. Process for the conversion of perylene-3,4,9,10-tetracarboxylic acid diimide into a form suitable as pigment dyestuff. 3,752,686, 8-14-73, Cl. 106-288.00q.

Kamachi, Shin-Ichi: *See—*
Totsuka, Yasushi; and Kamachi, Shin-Ichi, 3,716,839.

Kamachi, Shin-Ichi, to Olympus Optical Co., Ltd. Division logic circuit. 3,749,890, 7-31-73, Cl. 235-92.0cp.

Kamada, Masaki; and Okauchi, Tetsuo, to Takeda Chemical Industries, Ltd. Method of inducing simultaneous mounting of silkworms. 3,709,990, 1-9-73, Cl. 424-243.000.

Kamal, Marwan R., to General Mills, Inc. Novel derivatives of polyisocyanates prepared from polymeric fat acids and certain oximes. 3,726,921, 4-10-73, Cl. 260-566.0ac.

Kaman Aerospace Corporation: *See—*
Bossler, Robert B., Jr., 3,744,071.
Hollrock, Richard H., 3,773,433.
Richmond, Nelson R., 3,721,325.

Kaman, Andrew J.: *See—*
Chang, Wen-Hsuan; and Kaman, Andrew J., 3,764,457.

Kaman, Frank A.; and McConnaughay, Harold, to Skil Corporation. Circular saw with improved movable guard construction. 3,730,239, 5-1-73, Cl. 30-391.000.

Kaman, Frank A.; Robertson, Conrad D.; and Supel, Ignacy, to Skil Corporation. Reversing switch for a power tool with separate selectively horizontal contact carriers. 3,755,640, 8-28-73, Cl. 200-157.000.

Kaman Sciences Corporation, mesne: *See—*
Church, Peter K.; and Knutson, Oliver J., 3,734,767.

Kamanaka, Akira: *See—*
Kitano, Naohiko; Kamanaka, Akira; Katsuragi, Mamoru; Kobayashi, Tatsuo; and Iida, Tadashi, 3,716,293.

Kamangar, Parviz. Artificial rumen stimulator and method of administering same. 3,736,905, 6-5-73, Cl. 119-51.000.

Kamano, Hideo; Kato, Hirotetu; Kobayashi, Teruo; and Inoue, Kazuo, to Fuji Photo Film Co., Ltd. Fogged direct positive silver halide emulsion containing a sulfonated triphenylmethane dye. 3,738,846, 6-12-73, Cl. 96-139.000.

Kamar Products, Inc.: *See—*
Martinez, Eugene, 3,757,479.

Kamarauskas, Walter M. Golf stance device. 3,708,174, 1-2-73, Cl. 273-187.00r.

Kamardin, Vladimir Alexandrovich: *See—*
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Kamas Koarnmaskiner AB: *See—*
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Kamasuka, Teruo: *See—*
Komatsu, Nobuhiko; Kikumoto, Syoichi; Kimura, Keitaro; Sakai, Sumio; Kamasuka, Teruo; Momoki, Yoshio; Takada, Shoichi; Yamamoto, Toshiyuki; and Sugayama, Sunichi, 3,759,896.

Kamata, Eitaro, to Shoei Kakoh Co., Ltd. Substantially double-shell helmet. 3,723,992, 4-3-73, Cl. 2-3.00r.

Kamata, Katsuo: *See—*
Kato, Umaki; Endo, Masanori; and Kamata, Katsuo, 3,750,064.

Kamata, Masamoto: *See—*
Fujii, Seiji; Uwamoto, Hiroshi; Ishida, Masayuki; and Kamata, Masamoto, 3,722,244.
Fujii, Seiji; Kuwamoto, Hiroshi; Ishida, Masayuki; and Kamata, Masamoto, 3,750,437.
Fujii, Seiji; Kuwamoto, Hiroshi; Kamata, Masamoto; and Ishida, Masayuki, 3,760,621.
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Kawawa, Takaho; Kamata, Masamoto; and Hirasawa, Takeshi, 3,757,556.

Kamata, Takashi: *See—*
Yamagishi, Hidehisa; Kamata, Takashi; Ujiki, Yoshio; Yokoi, Fumitoshi; and Takahashi, Tadao, 3,769,068.

Kamata, Takeshi, to Ricoh Co., Ltd. Meter particularly measured quantity read-out device therefor. 3,723,711, 3-27-73, Cl. 235-92.0ea.

Kamata, Yoshihiro, to Furukawa Electric Company Limited, The. Process for continuously producing nickel or nickel-gold coated wires. 3,708,405, 1-2-73, Cl. 204-37.00r.

Kamatani, Yoshio: *See—*
Naito, Kenji; Ogino, Katsuhiko; Okudo, Hiroshi; Tanaka, Michio; Kamatani, Yoshio; Mukai, Hiroshi; and Takeuchi, Tatsuro, 3,743,665.

Kamath, G. Sanjiv, to Norton Company, mesne. Silicon carbide junction diode. 3,767,980, 10-23-73, Cl. 317-235.00r.

Kamath, G. Sanjiv, to Norton Company. Silicon Carbide junction diode. 3,773,553, 11-20-73, Cl. 117-201.000.

Kamb, Ludwig. Accident warning and traffic guide system. 3,778,764, 12-11-73, Cl. 340-81.00r.

Kamberg, Eduard F., to Chicago Dryer Company. Feeder apparatus. 3,736,678, 6-5-73, Cl. 38-143.000.

Kamborian, Jacob S.: *See—*
Boucher, Raymond, 3,719,964.
Brastow, Carl H., 3,759,219.
Kamborian, Jacob S.; and Caris, Costa, 3,758,904.

Kamborian, Jacob S.; deceased (by Godley, Lisbeth N.; Backa, Michael M.; and Kamborian, Jacob S., Jr.; executors); and Caris, Costa, to Kamborian, Jacob S. Method and mechanism for applying cement in the corner between an upper margin and an insole. 3,758,04, 9-18-73, Cl. 12-142.00r.

Kamborian, Jacob S.; deceased (by Godley, Lisbeth N.; Becka, Michael M.; and Kamborian, Jacob S., Jr.; executors); and Caris, Costa, said Caris assor. to said Kamborian, Jacob S.; deceased. Method and machine for lasting. 3,775,797, 12-4-73, Cl. 12-145.000

Kamborian, Jacob S.; deceased: *See—*
Kamborian, Jacob S.; and Caris, Costa (said Caris assor. to said) , 3,775,797.

Kamborian, Jacob S., Jr.: *See—*
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Kamborian, Jacob S.; and Caris, Costa, 3,775,797.

Kameda, Kazuhiko: *See—*
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Kameda, Nobuyuki: *See—*
Akiba, Keiichiro; Satomi, Takeo; Fujinami, Akira; Asano, Yasuhisa; Kameda, Nobuyuki; Mine, Akihiko; Hino, Naganori; and Tateishi, Kohshi, 3,780,090.
Fujinami, Akira; Ozaki, Toshiaki; Akiba, Keiichiro; Yamamoto, Sigeo; Nodera, Katsuji; Tanaka, Katsutoshi; Kameda, Nobuyuki; and Ooishi, Tadashi, 3,716,552.
Fujinami, Akira; Ozaki, Toshiaki; Akiba, Keiichiro; Yamamoto, Sigeo; Ooba, Shigehiro; Tanaka, Katsutoshi; Nodera, Katsuji; Ooishi, Tadashi; and Kameda, Nobuyuki, 3,743,651.
Fujinami, Akira; Ozaki, Toshiaki; Ooba, Shigehiro; Yamamoto, Shigeo; Nodera, Katsuji; Tanaka, Katsutoshi; Akiba, Keiichiro; Ooishi, Tadashi; and Kameda, Nobuyuki, 3,745,170.

Kamei, Auto-Komfort Wolfsburg K. Meier KG: *See—*
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Kamei, Hisashi; Koezuka, Junji; and Imooka, Masanori, to Tokyo Shibaura Electric Co., Ltd. Apparatus and method for determining the alcoholic content of breath. 3,746,512, 7-17-73, Cl. 23-232.00e.

Kamen, Ira: *See—*
Vogel, Joseph H.; Baltin, Will; and Kamen, Ira, 3,736,368.
Vogelman, Joseph H.; and Kamen, Ira, 3,736,369.

Kamena, Karl W., to Dow Chemical Company, The. Method for modifying plastic surfaces. 3,737,499, 6-5-73, Cl. 264-134.000.

Kamenev, Viktor Sergeevich: *See—*
Kolesnikov, Anatoly Vladimirovich; Nikolaev, Mikhail Mikhailovich; Sheka, Valdimir Pavlovich; Muzhzhavlev, Konstantin Dmitrievich; Strelets, Khaim Lipovich; Kamenev, Viktor Sergeevich; Kuzmin, Valery Vyacheslavovich; Kolesnikov, Valery Afanasievich; Bashkaov, Vylacheslav Vasilievich; Baibekov, Murat Kazmukhametovich; and Kolomiitsev, Arnold Vasilievich, 3,749,660.

Kamenick, Rudolph J., to Goodrich, B. F., Company, The. Power transmission pulley and means for changing the diameter of same. 3,707,883, 1-2-73, Cl. 74-230.160.

Kamens, Ernest Rudolph: *See—*
Bafford, Richard Anthony; Kamens, Ernest Rudolph; and Mageli, Orville Leonard, 3,746,735.
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Kameo, Nobumitsu: *See—*
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Kameoka, Akio; Nakamura, Shinichi; and Kuriyagawa, Mamoru, to Tokyo Shibaura Electric Co., Ltd. Musical tone signal generator. 3,711,620, 1-16-73, Cl. 84-1.240.

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Kandatsu, Makoto; and Yamaguchi, Michio, to Tokyo Daigaku. Process for the manufacture of granular or powdery purified whole egg protein. 3,778,425, 12-11-73, Cl. 260-112.00r.
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Kane, Edward Michael, to General Cable Corporation. Continuous anneal of wire on pulp insulating process. 3,759,755, 9-18-73, Cl. 148-11.50r.
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Kane, John R.; and Morse, Harry G., to Itek Corporation. Rapid development process. 3,715,214, 2-6-73, Cl. 96-66.0hd.
Kane, Leslie, to Kane and Sullivan Inc. Ellipse compass. 3,724,080, 4-3-73, Cl. 33-30.00d.
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Kane, Neil G.; deceased (by Kane, Virginia L.; administratrix). Manually-operated liquid dispenser. 3,759,426, 9-18-73, Cl. 222-385.000.
Kane, Robert J. Adjustable hydrotherapy jet producing device. 3,745,994, 7-17-73, Cl. 128-66.000.
Kane, Virginia L.: *See—*
Kane, Neil G., 3,759,426.
Kane, William L.: *See—*
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Kane, William S.; and Cardwell, Paul H., to Deepsea Ventures, Inc. Processing of manganese nodules from the ocean floor for metal values. 3,773,635, 11-20-73, Cl. 204-105.00m.
Kane, Wills; and Cardwell, Paul H., to Deepsea Ventures, Inc. Recovery of metal values from ocean floor nodules. 3,752,745, 8-14-73, Cl. 204-105.00m.
Kanebako, Hiroumu; and Wada, Kazutoshi, to Kuroda Seiko Company, Ltd. Straight chuck. 3,734,513, 5-22-73, Cl. 279-48.000.
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Kaneda, Isao, to New Nippon Electric Company Ltd. Starting circuit for discharge lamps. 3,758,818, 9-11-73, Cl. 315-207.000.
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Kaneko, Haruo; and Shigaki, Seiichiro, to Nippon Electric Company, Limited. Phase tracking system for an automatic equalization. 3,755,736, 8-28-73, Cl. 325-42.000.
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Kaneko, Hisashi, to Bell Telephone Laboratories, Incorporated. Bipolar analog-to-digital converter with double detection of the sign bit. 3,735,392, 5-22-73, Cl. 340-347.0ad.
Kaneko, Keiji; and Yoshida, Toshio, to Fuji Photo Film Co., Ltd. Cinematographic camera. 3,781,101, 12-25-73, Cl. 352-221.000.
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Kaneko, Tamaki; and Mizuno, Katsumi, to Ricoh Co., Ltd. Copy sheet discharge device with removable rollers. 3,712,214, 1-23-73, Cl. 101-232.000.
Kaneko, Tamaki; and Mizuno, Katsumi, to Ricoh Co., Ltd. Etching solution application device for offset printing machines. 3,731,624, 5-8-73, Cl. 101-142.000.
Kaneko, Tamaki; and Iwanaga, Yoshiharu, to Kabushiki Kaisha Ricoh. Automatic offset printing press. 3,771,446, 11-13-73, Cl. 101-144.000.
Kaneko, Tatsuhiko: *See—*
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Kaneko, Thomas M., to BASF Wyandotte Corporation. Biodegradable detergent for automatic car wash systems. 3,738,943, 6-12-73, Cl. 252-540.000.
Kaneko, Thomas M., to BASF Wyandotte Corporation. Low foaming detergent. 3,741,912, 6-26-73, Cl. 252-529.000.
Kaneko, Thomas M., to BASF Wyandotte Corporation. Detergent intermediate and process therefor. 3,764,541, 10-9-73, Cl. 252-89.000.
Kaneko, Tokuzo: *See—*
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Kaneko, Toyohisa; Sezaki, Nobuhiko; and Katagiri, Hiroshi, to Matsushita Electric Industrial Co., Ltd. Pattern scanning system. 3,711,831, 1-16-73, Cl. 340-146.30f.
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Kaneko, Yasuyuki; Ohya, Takaichi; Amano, Genichi; and Oiwa, Hitoshi, to Amano Seiyaku Kabushiki Kaisha. Production of hyaluronidase from a strain of streptomyces. 3,728,223, 4-17-73, Cl. 195-62.000.
Kaneko, Yoichi,; Fujiwara, Yukinari; Kimura, Katuhiro; and Kamimura, Masao, to Hitachi, Ltd. and Hitachi Electronics Co., Ltd. Solid state oscillator having semiconductor elements mounted in a cavity resonator. 3,711,792, 1-16-73, Cl. 331-96.000.
Kaneko, Yoshitada, to Kabushiki Kaisha Suwa Seikosha. High speed automatic lathe. 3,752,019, 8-14-73, Cl. 82-28.000.
Kanemaru, Toyonosuke; Yamazoe, Hiroshi; and Ichikawa, Hiroshi, to Nippon Carbon Co., Ltd. Carbon-metal composite slide members and method of making same. 3,756,911, 9-4-73, Cl. 161-168.000.
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Kanengieter, Glenn G., to Owatonna Manufacturing Company, Inc. Means for mounting auxiliary apparatus on a portable feed mill. 3,741,487, 6-26-73, Cl. 241-223.000.
Kanengieter, Glenn G.; and Barry, Gerald P., to Oivatonna Manufacturing Co., Inc. Automatic hydraulic system for a hay wagon. 3,748,840, 7-31-73, Cl. 56-341.000.
Kanetaka, Junichi; Shimodaira, Takashi; and Mori, Shoichiro, to Mitsubishi Petrochemical Company Limited. Hydrogenation catalyst. 3,758,512, 9-11-73, Cl. 260-343.600.
Kanetake, Norio; Maruyama, Ikuo; and Morita, Katsuyuki, to Kabushiki Kaisha Kito. Process of manufacturing fine powders of metal halide. 3,769,098, 10-30-73, Cl. 148-6.240.
Kanetake, Norio; and Shirai, Hiroshi, to Kabushiki Kaisha Kito. Process of metallic cementation. 3,778,298, 12-11-73, Cl. 117-107.20r.
Kanetsuki, Koji; Yamaga, Minoru; and Ogawa, Hiromichi, to Matsushita Electric Industrial Co., Ltd. Method of making a nickel positive electrode for an alkaline battery. 3,779,810, 12-18-73, Cl. 136-29.000.
Kang, Chia-Chen; and Schreiber, Robert A., to Pullman Incorporated. Treatment of halogen-containing gas mixture. 3,772,425, 11-13-73, Cl. 423-239.000.
Kang, George S., to Bunker-Ramo Corporation, The. Apparatus and methods for deriving in essentially real time continuous electrical representations of the fourier and inverse fourier transform. 3,714,566, 1-30-73, Cl. 324-77.00e.
Kangas, Larry G.; and Kline, Robert J., to Minnesota Mining and Manufacturing Company. Magnetic powder applicator. 3,739,749, 6-19-73, Cl. 118-637.000.
Kania, Albert T.; and Jerominek, Joseph, to Gentex Corporation. Lens cutting and bevel edging machine. 3,769,755, 11-6-73, Cl. 51-101.01g.
Kanie, Shiomi; Shoji, Takeo; Nogi, Isao; and Mitani, Taizo, to Canon Kabushiki Kaisha. Fitting device for the accessories of a camera. 3,758,198, 9-11-73, Cl. 350-257.000.
Kaniuka, Walter W., to United States of America, Navy. Fluidically augmented variable gain artificial feel system. 3,765,624, 10-16-73, Cl. 244-83.00r.
Kankaanpaa, Arvo M., 20% to Lee, Raymond, Organization, Inc., The. Power saw guide attachment. 3,739,678, 6-19-73, Cl. 83-745.000.
Kannegiesser, Herbert; and Juraschek, Richard, to Kannegiesser Maschinenfabrik Gesellschaft mit beschrankter Haftung. Glueing press for glueing flat shaped textile articles. 3,709,348, 1-9-73, Cl. 198-19.000.
Kannegiesser, Herbert; and Juraschek, Richard. Method and apparatus for gluing flat shaped textile articles. 3,720,563, 3-13-73, Cl. 156-306.000.
Kannegiesser, Herbert; Juraschek, Richard; and Mussiger, Klaus, to Kannegiesser Maschinenfabrik Kommanditgesellschaft. Apparatus for printing on textile strips and pieces. 3,768,280, 10-30-73, Cl. 68-5.00d.
Kannegiesser, Hermann, to Wanger, F. K., Ltd. Juice extractor with automatic pulp discharge. 3,741,104, 6-26-73, Cl. 99-495.000.
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Kannenberg, Arnold H., to Lemco Plastics, Inc. Reflector for marking driveways and the like. 3,716,288, 2-13-73, Cl. 350-97.000.
Kannenberg, Wesley G.; and Pruden, William E., to International Business Machines Corporation. Method for boride coating steel electrolytically. 3,746,628, 7-17-73, Cl. 204-39.000.
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Kanno, Hiroaki. Metal binding for a heel of ski boots. 3,768,822, 10-30-73, Cl. 280-11.35t.
Kanno, Hiroshi; and Okamoto, Kazuo, to Kanegafuchi Boseki Kabushiki Kaisha. Process for producing acrylic composite filaments and said composite filaments. 3,769,149, 10-30-73, Cl. 161-172.000.
Kanno, Iwau; Yoshioka, Junichi; and Fuzio, Sumito, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for treating an aqueous solution of crude sodium chloride. 3,751,559, 8-7-73, Cl. 423-158.000.
Kanno, Kyusei, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera shutter system. 3,776,115, 12-4-73, Cl. 95-53.0eb.
Kanno, Morio: *See—*
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Kanno, Tadaaki; and Iwamoto, Minoru, to Ricoh Co., Ltd. Electrophotographic copying apparatus provided with an automatic elevational original keep-plate. 3,724,949, 4-3-73, Cl. 355-75.000.
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Kanno, Takeshi: *See—*
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Kano, Gota; and Kato, Hideomi, to Matsushita Electronics Corporation. Pressure sensitive transistor having a Schottky barrier junction formed in the emitter. 3,757,176, 9-4-73, Cl. 317-235.00r.
Kano, Kenichi: *See—*
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Kano, Kimio; Nakamura, Keiichi; and Niitaka, Shojiro, to Toyoda Koki Kabushiki Kaisha. Control devices for the radial displacement of shafts. 3,742,653, 7-3-73, Cl. 51-165.900.
Kano, Kunio: *See—*
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Kano, Masafumi: *See—*
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Kano, Seizo; Tanaka, Shinsaku; Mizoi, Yoshiaki; and Ojima, Kenji, to Japan Storage Battery Co., Ltd. Method for joining cover and casing of a battery. 3,778,314, 12-11-73, Cl. 136-176.000.
Kano, Tsuyoshi: *See—*
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Kanor, Steven, to Lorton Laboratories, Ltd. Disposable shoe covering. 3,737,723, 6-5-73, Cl. 317-213.000.
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Kansen, Norbert Ernst Fritz; and Littmann, Walter Fritz Konrad, to U.S. Philips Corporation. Ion source for slow-ion sputtering. 3,719,582, 3-6-73, Cl. 204-298.000.
Kansky, Evgen, to Institut za Elektroniko In Vakuumsko Tehniko. Electronic devices. 3,735,213, 5-22-73, Cl. 317-234.00r.
Kantarian, Edward T.; Bearde, John N.; and Staub, Donald F., said Bearde assor. to Edon Industrial Products Co. Sheet collating machine. 3,708,160, 1-2-73, Cl. 270-53.000.
Kantebet, Kishore V.: *See—*
West, Robert E.; and Kantebet, Kishore V., 3,765,534.
Kantelhardt, Werner: *See—*
Heer, Heribert; Kantelhardt, Werner; and Kritzler, Gerhard, 3,774,372.
Kanter Jerome J. Process for protecting ferrous base metals against corrosion, and articles produced thereby. 3,718,499, 2-27-73, Cl. 117-127.000.
Kanter, Jerome J. Austenitic alloy containing boron, and processes for manufacturing the same. 3,754,899, 8-28-73, Cl. 75-129.000.
Kanter, Jerome J. Magnetic thermocouple device. 3,776,780, 12-4-73, Cl. 136-228.000.
Kanter, Michael Edward, to International Computers Limited. Universal check digit verifier/generater systems. 3,778,765, 12-11-73, Cl. 340-146.1aj.
Kantner, Donald J.: *See—*
Fedorko, Francis A.; Kantner, Donald J.; Metzler, Franklin A.; and Smith, James M., 3,757,224.
Kanto Denka Kogyo Co., Ltd.: *See—*
Yamamura, Toshio; Omote, Yuichi; Sato, Shiro; and Kanai, Hiyama, 3,725,527.
Kanto Ishiseiyaku Co., Ltd.: *See—*
Kondo, Seigo; Tabata, Toshikazu; and Horiuchi, Jiro, 3,714,166.
Kanton, Fred S.: *See—*
Astle, Thomas W., 3,713,985.
Kantor, Ilia Solomonovich: *See—*
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Alexandrov, Adolf Moritsovich; Suladze, Ippolit Davidovich; Kantor, Ilia Solomonovich; Aglitsky, Vladimir Efimovich; Akhniashvili, Avtandil Semenovich; Tsimbler, Jury Abramovich; Lachinov, Alexandr Alexandrovich; Topolyansky, Jury Arnoldovich; Ivanov, Genndy Nikitich; and Feldman, Mark Abramovich, 3,762,665.
Kantor, Ilya Solomonovich: *See—*
Alexandrov, Adolf Moritsovich; Suladze, Ippolit Davidovich; Aglitsky, Vladimir Efimovich; Kakhniashvili, Avtandil Semenovich; Kantor, Ilya Solomonovich; Tsimbler, Jury Abramovich; Rozenfeld, Matvei Iosifovich; and Chidzhavadze, Grigory Yasonovich, 3,722,42.
Alexandrov, Adolf Moritsovich; Isimbler, Yury Abramovich; Lachinov, Alexandr Alexandrovich; Aglitsky, Vladimir Efimovich; Kantor, Ilya Solomonovich; and Topolyansky, Yury Arnoldovich, 3,734,428.
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Kantor International S.A.: *See—*
Mazza, Lamberto, 3,719,505.



Kantor, Simon W.; and Juliano, Peter C., to General Electric Company. High temperature membrane materials. 3,781,378, 12-25-73, Cl. 260-824.00r.
Kantorovich, Leonid Vitalievich; Tolstiev, Valery Petrovich; and Fet, Yakov Iliich. Digital serial arithmetic unit. 3,758,767, 9-11-73, Cl. 235-159.000.
Kantorowicz, Gerard, to Thomson-CSF. Cathode ray tube including variable delay means. 3,753,029, 8-14-73, Cl. 315-3.000.
Kantorski, Joseph W.; La Barre, David A.; and Smith, Donald A., to American Optical Corporation. Pockels cell. 3,771,852, 11-13-73, Cl. 350-150.000.
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Kantrud, Gary M.: *See—*
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Kantz, Don B., to Ford Motor Company. Lubricating oil flow control for a rotary compressor. 3,736,079, 5-29-73, Cl. 418-77.000.
Kanunov, Mikhail Alexeevich: *See—*
Avilov, Ernest Alexeevich; Vasilievich, Nikolai; Galtsov, Vladimir Vasilievich; Zykov, Anatoly Petrovich; Kanunov, Mikhail Alexeevich; Kiselev, Jury Vladimirovich; Mityaev, Mikhail Vladimirovich; Nikitin, Vyacheslav Vladimirovich; Razin, Anatoly Alexandrovch; Stankevich, Jury Leonidovich; Tsukerman, Veniamin Aronovich; and Eig, Lev Samuilovich, 3,758,804.
Belkin, Nikolai Vasilievich; Alexandrovich, Eduard-Gely Vitalievich; Razin, Anatoly Alexandrovich; Kanunov, Mikhail Alexeevich; Tsukerman, Veniamin Aronovich; Slocva, Galina Nikolaevna; Tsvetkov, Leonard Vasilievich; and Dron, Ninel Alexeevna, 3,716,737.
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Kanzaki Paper Mfg. Co., Ltd.: *See—*
Akiyama, Toyomi; Kondo, Mitsuru; and Dotani, Satoshi, 3,713,881.
Kanzaki, Toshihiko; Nakatsui, Isamu; Sugiyama, Yoshio; Nishio, Masaaki; and Ishikawa, Michio, to Takeda Chemical Industries, Ltd. Producing L-glutamic acid. 3,709,787, 1-9-73, Cl. 195-30.000.
Kao, Chih-Yu, to Bell Telephone Laboratories, Incorporated. Adjustable equalizer control apparatus. 3,733,564, 5-15-73, Cl. 333-18.000.
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Kao, Chih-Yu, to Bell Telephone Laboratories, Incorporated. Apparatus for suppressing limit cycles due to quantization in digital filters. 3,749,895, 7-31-73, Cl. 235-152.000.
Kao, James T. F.: *See—*
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Kao, Paul W.: *See—*
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Kao Soap Co., Ltd.: *See—*
Arai, Haruhiko; Narashino, Chiba; Horin, Shoji; Ichikawa, Chiba; and Maruta, Iwao, 3,743,618.
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Doi, Tadashi; Ohtsuka, Shunzo; and Arai, Sumio, 3,738,852.
Hattori, Kenichi; Ueda, Yuichi; and Tanino, Yukio, 3,719,631.
Inamoto, Yoshiaki; Nakayama, Hirokazu; Takenaka, Hidetsugu; and Kimura, Yoshitomo, 3,751,452.
Inamoto, Yoshiaki; Nakayama, Horokazu; and Takenaka, Hidetsugu, 3,751,455.
Inamoto, Yoshiaki; Nakayama, Hirokazu; and Kadono, Takeji, 3,751,528.
Inamoto, Yoshiaki; and Kadond, Takeji, 3,773,863.
Izumi, Kaichi; and Watanabe, Takao, 3,720,615.
Katsumi, Mamoru; Sato, Toshio; Yanagawa, Yasuo; and Hara, Tadao, 3,770,471.
Katsumi, Mamoru; Sato, Toshio; and Hara, Tadao, 3,781,204.
Komeda, Yoshiaki; and Nakagawa, Yunosuke, 3,728,266.
Maruta, Iwao; Arai, Haruhkio; and Horin, Shoji, 3,762,987.
Matsuda, Kazuo; Tanaka, Yoshiaki; Sakai, Takeyo; and Iwasa, Ichiro, 3,712,930.
Matsuda, Kazuo; Tanaka, Yoshiaki; Sakai, Takeyo; and Iwasa, Ichiro, 3,714,266.
Matsuda, Kazuo; Tanaka, Yoshiaki; and Sakai, Takeyo, 3,720,719.
Matsuda, Kazuo; Tanaka, Yoshiaki; and Sakai, Takeyo, 3,778,480.
Mori, Akira; Nagata, Yozi; and Nakagawa, Hiromi, 3,737,378.
Morimoto, Mamoru; Saito, Masahiro; and Goukon, Atsushi, 3,773,806.
Nakagawa, Yunosuke; Iwasa, Ichiro; and Kinoshita, Ikuya, 3,758,409.
Tsukawaki, Masahiro; and Inamoto, Yoshiaki, 3,755,531.
Kapalko, Erwin J.; and English, William H., to PPG Industries, Inc. Electrodeposition of a composition containing an ester resin and a methylophenol ether. 3,730,865, 5-1-73, Cl. 204-181.000.
Kapalko, Erwin J.; and English, William H., to PPG Industries, Inc. Electrodepositable polyester compositions containing a methylol phenol ether. 3,772,227, 11-13-73, Cl. 260-18.00r.
Kapas, Otto: *See—*
Illyes, Sandor; and Kapas, Otto, 3,760,632.
Kapel, Joseph George; Nichols, Wayne Eugene; and Zebe, Charles William, to Bell Telephone Laboratories, Incorporated. Main distributing frame manual switching network arrangement. 3,763,325, 10-2-73, Cl. 179-98.000.
Kapell, Henry K., to Minnesota Mining and Manufacturing Company. Connector. 3,778,749, 12-11-73, Cl. 339-97.00r.
Kapers, William John, Jr., to Bell Telephone Laboratories, Incorporated. Digital deflection system for cathode ray tubes. 3,758,825, 9-11-73, Cl. 315-276.00d.
Kapiloff, Anita L. Unitary hinged plastic protector for opened shelf-storage type boxes. 3,733,022, 5-15-73, Cl. 229-7.00r.
Kapilow, Marvin. Disposable mechanical pencil assembly. 3,771,882, 11-13-73, Cl. 401-80.000.
Kapinos, Lawrence E., to United States of America, Navy. Control system for flexible seal movable nozzle. 3,747,342, 7-24-73, Cl. 60-232.000.
Kapitza, Petr Leonidovich. Method and device for producing thermonuclear plasma. 3,749,639, 7-31-73, Cl. 176-3.000.
Kaplan, Benjamin B., to Albi Manufacturing Corporation. Insulating composition. 3,745,031, 7-10-73, Cl. 106-15.0fp.
Kaplan, Burton. Method and apparatus for the instruction of finger spacing in playing stringed instruments. 3,726,174, 4-10-73, Cl. 84-470.000.
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Kaplan, Burton. Apparatus for the instruction of hand angulation in planing stringed instruments. 3,726,176, 4-10-73, Cl. 84-470.000.
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Kaplan, David. Binder. 3,752,163, 8-14-73, Cl. 128-541.000.
Kaplan, Edward B.: *See—*
North, Howard C.; Sherman, Harry W.; and Kaplan, Edward B., 3,717,425.
Kaplan, Gerald Stanley; and Shefer, Joshua, to RCA Corporation. Electronic fence vehicle locator transmitter and system using same. 3,735,335, 5-22-73, Cl. 340-23.000.
Kaplan, Irving Leonard, to Skijor Manufacturing Company. Ski especially adapted for use by skiers towed by a snowmobile or the like. 3,724,866, 4-3-73, Cl. 280-11.13w.
Kaplan, Irving Leonard, to Krasny, Carl, & Associates, Inc. Bar unscrambler. 3,757,964, 9-11-73, Cl. 214-1.0pb.
Kaplan, Joel R.: *See—*
Clinton, William P.; Kaplan, Joel R.; and Capasso, Philip J., 3,753,726.
Kaplan, Lloyd A.: *See—*
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Kaplan, Louis: *See—*
Sinnott, David J.; Alecci, Donald E.; and Kaplan, Louis, 3,710,698.
Kaplan, Louis. Frame clamping device. 3,749,349, 7-31-73, Cl. 248-488.000.
Kaplan, Martin Louis; and Kelleher, Paul Goggin, to Bell Telephone Laboratories, Incorporated. Technique for bonding antioxidants to polymer films. 3,723,405, 3-27-73, Cl. 260-94.9gb.
Kaplan, Michael A.: *See—*
Ezra, Arthur A.; Howell, William G.; Glick, Herbert S.; and Kaplan, Michael A., 3,751,954.
Kaplan, Milton. Image reconstitution system. 3,713,730, 1-30-73, Cl. 350-320.000.
Kaplan, Milton, to Sentinel Bag and Paper Co., Inc. Shoe polishing kit. 3,777,328, 12-11-73, Cl. 15-14.940.
Kaplan, Mitchell M. Therapeutic traction apparatus. 3,716,049, 2-13-73, Cl. 128-75.000.
Kaplan, Murray A.; and Granatek, Alphones Peter, to Bristol-Myers Company. Purification of 6-[D-(3-guanyl-1-ureido) phenylacetamido] penicillanic acid. 3,711,471, 1-16-73, Cl. 260-239.100.
Kaplan, Ralph Benjamin, to Du Pont de Nemours, E. I., and Company. Process for preparing 2-(O-hydroxyphenyl) quinazolines. 3,772,274, 11-13-73, Cl. 260-251.00q.
Kaplan, Robert A.: *See—*
Daly, Richard T.; Kaplan, Robert A.; and Cohen, Martin G., 3,749,476.
Kaplan, Ronald M., to H & G Industries, Inc. Paint brush construction. 3,733,638, 5-22-73, Cl. 15-193.000.
Kaplan, Sam H.: *See—*
Adler, Robert; and Kaplan, Sam H., 3,728,483.
Kaplan, Sam H., to Zenith Radio Corporation. Face panel assembly for color cathode-ray tube. 3,735,179, 5-22-73, Cl. 313-92.00b.



Kaplan, Sam H., to Zenith Radio Corporation. Color cathode-ray tube. 3,735,180, 5-22-73, Cl. 313-92.00b.
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Kaplan, Sam H., to Zenith Radio Corporation. Color cathode-ray tube. 3,735,182, 5-22-73, Cl. 313-92.00b.
Kaplan, Sam H., to Zenith Radio Corporation. Color cathode-ray tube. 3,735,183, 5-22-73, Cl. 313-92.00b.
Kaplan, Sam H., to Zenith Radio Corporation. Color cathode-ray tube. 3,735,184, 5-22-73, Cl. 313-92.00b.
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Kaplan, Sam H., to Zenith Radio Corporation. Color cathode-ray tube. 3,735,268, 5-22-73, Cl. 313-92.00b.
Kaplan, Sam H., to Zenith Radio Corporation. Color cathode-ray tube. 3,735,269, 5-22-73, Cl. 313-92.00b.
Kaplan, Sam H., to Zenith Radio Corporation. Color cathode-ray tube. 3,735,270, 5-22-73, Cl. 313-92.00b.
Kaplan, Sam H., to Zenith Radio Corporation. Color cathode-ray tube. 3,735,271, 5-22-73, Cl. 313-92.00b.
Kaplan, Sam H., to Zenith Radio Corporation. Color cathode-ray tube. 3,735,272, 5-22-73, Cl. 313-92.00b.
Kaplan, Sam H., to Zenith Radio Corporation. Color cathode-ray tube. 3,735,273, 5-22-73, Cl. 313-92.00b.
Kaplan, Sam H., to Zenith Radio Corporation. Color cathode-ray tube. 3,735,274, 5-22-73, Cl. 313-92.00b.
Kaplan, Sam H., to Zenith Radio Corporation. Color cathode-ray tube. 3,735,275, 5-22-73, Cl. 313-92.00b.
Kaplan, Sam H., to Zenith Radio Corporation. Color cathode-ray tube. 3,735,276, 5-22-73, Cl. 313-92.00b.
Kaplan, Sam H., to Zenith Radio Corporation. Color cathode-ray tube. 3,735,277, 5-22-73, Cl. 313-92.00b.
Kaplan, Sam H., to Zenith Radio Corporation. Color cathode-ray tube. 3,735,278, 5-22-73, Cl. 313-92

Kaplan, Sam H., to Zenith Radio Corporation. Aperture mask for, and method of screening, a color cathode-ray tube. 3,736,137, 5-29-73, Cl. 96-36.100.
Kaplan, Sam H., to Zenith Radio Corporation. Color television picture tube with subtractive color filters. 3,748,515, 7-24-73, Cl. 313-92.00b.
Kaplan, Sam H., to Zenith Radio Corporation. Method of screening a color image reproducer. 3,767,396, 10-23-73, Cl. 96-36.100.
Kaplan, Saul; Prodo, Kenneth W.; and Shay, Edward G., to Millmaster Onyx Corporation. Soya amidopropyldimethylamine oxide. 3,740,351, 6-19-73, Cl. 252-547.000.
Kapland, Mitchell Arthur: *See—*
Jasperson, Robert E.; and Kapland, Mitchell Arthur, 3,724,079.
Kaplansky, Arkady Fridmanovich; Korenblit, Izya Yakovlevich; Frenkel, Andrei Filippovich; and Zakhariev, Alexandr Ivanovich, to Nevsky Mashinostroitelny Zavod imeni V.I. Vane-type centrifugal machine, mainly, high-pressure compressor. 3,733,145, 5-15-73, C. 415-112.000.
Kaplow, Milton; and Halik, Joseph J., to General Foods Corporation. Immersion cooking in a stabilizing solution comprising polyhydric alcohol. 3,745,027, 7-10-73, Cl. 99-199.000.
Kaplow, Milton; and Klose, Robert E., to General Foods Corporation. Shelf stable pancake and waffle products. 3,753,734, 8-21-73, Cl. 99-92.000.
Kaplow, Milton; and Halik, Joseph J., to General Foods Corporation. Microbial stabilization of a combined meat, vegetable and gravy food product. 3,769,042, 10-30-73, Cl. 426-326.000.
Kapnek, Bertram H. Shelf assembly. 3,752,088, 8-14-73, Cl. 108-152.000.
Kapnias, Demetrios E., to Fairchild Camera and Instrument Corporation. Semiconductor package containing a dual epoxy and metal seal between a cover and a substrate, and method for forming said seal. 3,735,211, 5-22-73, Cl. 317-234.00r.
Kapolyi, Laszlo; Lazar, Ferenc; Vamos, Gyorgy; and Galauner, Bela, to Tatabanyai Szenbanyak. Process for preparing self-disintegrating products containing dicalcium silicate. 3,770,469, 11-6-73, Cl. 106-120.000.
Kapolyi, Laszlo; Lazar, Ferenc; Galauner, Bela; Dzsida, Laszlo; Vamos, Gyorgy; Wagner, Laszlo; and Pogany, Alfred, to Tatabanyai Szenbanyak. Method for processing of red mud. 3,776,717, 12-4-73, Cl. 75-38.000.
Kapp & Co., Werkzeugmaschinenfabrik: *See—*
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Kapp, Ernst: *See—*
Rudolph, Paul; and Kapp, Ernst, 3,731,485.
Rudolph, Paul; and Kapp, Ernst, 3,738,103.
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Kapp, Ernst; and Becker, Paul, to Metallgesellschaft Aktiengesellschaft. Process for preparing hydrogen or nitrogen and hydrogen under pressure. 3,720,625, 3-13-73, Cl. 252-377.000.
Kapp, Stewart: *See—*
Lowell, Seymour; and Kapp, Stewart, 3,771,367.
Kappa, Gunther; and Schmidt, Helmut, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Method and apparatus for stabilizing the trajectory of a reaction-propelled missile. 3,753,537, 8-21-73, Cl. 244-3.120.
Kappeler, Heinrich; and Wild, Jost, to Givaudan Corporation. Beta, beta-dimethyl acrylates. 3,781,333, 12-25-73, Cl. 210-486.00r.
Kappeler, Otto; and Messner, Rudolf, to Ef Ka-Werke Fritz Kiehn GmbH. Manually operable cigarette making device. 3,746,011, 7-17-73, Cl. 131-70.000.
Kapperman, Dorothy M.: *See—*
Kipple, Harry P.; Cozzarin, Virgil J.; and Kapperman, Francis C., 3,732,066.
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Kipple, Harry P.; Kapperman, Francis C.; and Cozzarin, Virgil J., 3,769,756.
Kapperman, Francis C.: *See—*
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Kipple, Harry P.; Cozzarin, Virgil J.; and Kapperman, Francis C., 3,752,116.
Kipple, Harry P.; Kapperman, Francis C.; and Cozzarin, Virgil J., 3,769,756.
Kappes, Karl A.; and Bateson, Sydney. High shear, rolled alumina ceramic substrate. 3,740,243, 6-19-73, Cl. 106-65.000.
Kappius, Friedrich: *See—*
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Kappler, Donald L. Device for removing a fan from a shaft. 3,735,471, 5-29-73, Cl. 29-261.000.
Kappler, Frank R.; and Cramer, John J., to BASF Wyandotte Corporation. Laundry size for polyester-cotton blends of fabric. 3,708,466, 1-2-73, Cl. 260-17.45t.
Kappler, Hermann; and Wellons, Robert A., Jr., to Niemand Industries, Inc. Package. 3,741,379, 6-26-73, Cl. 206-46.0ap.
Kappus, Helmut: *See—*
Rodermund, Gerd; and Kappus, Helmut, 3,780,514.
Kapral, John J.; and Coggin, Thomas E., to Xerox Corporation. Auxiliary sheet feeder. 3,753,560, 8-21-73, Cl. 271-9.000.
Kaprelian, Edward K.; and Carroll, Howard I., to United States of America, Army. Electrical initiation of percussive-primed cartridges. 3,736,837, 6-5-73, Cl. 89-28.00r.
Kapron, Felix P.: *See—*
Borrelli, Nicholas F.; Kapron, Felix P.; and Keck, Donald B., 3,756,690.
Hudson, Marshall C.; and Kapron, Felix P., 3,756,688.
Kapron, Felix P.; and Keck, Donald B. Optical waveguide mode discriminator. 3,761,716, 9-25-73, Cl. 250-199.000.
Kapron, Felix P.; and Keck, Donald B., to Corning Glass Works. Optical waveguide light source coupler. 3,779,628, 12-18-73, Cl. 250-96.0wg.
Kapron, Felix P.; and Keck, Donald B., to Corning Glass Works. Light source coupler for optical waveguide. 3,780,295, 12-18-73, Cl. 250-199.000.
Kapsambelis, Christos B.; and Collins, David J., to Computer Identics Corporation. Label reading system. 3,743,819, 7-3-73, Cl. 235-61.11f.
Kapsambelis, Christos Basil; and Ugalde, Clyde Francis, to Computer Identics Corporation. Automatic vehicle identification. 3,758,752, 9-11-73, Cl. 236-61.11e.
Kaptur, Robert E.: *See—*
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Kar Products, Inc., mesne: *See—*
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Kar-Denser, Inc.: *See—*
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Berlin, Alfred Anisimovich; Kefeli, Tamara Yakovlevna; Marshavina, Natalia Lvovna; Strongin, Grigory Mikhailovich; Kara-Giaur, Nikolai Vladimirovich; Kolomazov, Boris Ivanovich; Efimov, Alexei Vasilievich; Bodrova, Aglaida Nikolaevna; and Altshuler, Judif arkovna, 3,716,571.
Kara-Kount Incorporated, mesne: *See—*
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Karabedian, James A.: *See—*
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Karabinos, Joseph V.; Leopold, Karl M.; and Doherty, William P., to Owens-Illinois, Inc. Process for lubricating vinyl polymers with sitosterol compounds and stabilized product thereof. 3,709,867, 1-9-73, Cl. 260-28.50a.
Karachentseva, Julia Mikhailovna: *See—*
Nikolsky, Boris Petrovich; Shults, Mikhail Mikhailovich; Pisarevsky, Alexandr Moiseevich; Beljustin, Anatoly Alexandrovich; Bolkhontseva, Sofia Konstantinovna; Dolidze, Vladimir Alexandrovich; Tarasova, Valentina Mikhailovna; Karachentseva, Julia Mikhailova; and Dolmazova, Liana Iosifovna, 3,773,642.
Karady, Sandor: *See—*
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Sletzinger, Meyer; Karady, Sandor; Ly, Manuel G.; and Pines, Seemon H., 3,732,301.
Karady, Sandor; Pines, Seemon H.; Ly, Manuel G.; and Sletzinger, Meyer, to Merck & Co., Inc. N-acyl-α-hydrazino-β-(phenyl) hydrazino-propionitriles. 3,715,382, 2-6-73, Cl. 260-465.00d.
Karady, Sandor; Pines, Seemon H.; Ly, Manuel G.; and Sletzinger, Meyer, to Merck & Co., Inc. Diastereomers of α-hydrazino-β-(phenyl) propionitriles. 3,718,674, 2-27-73, Cl. 260-397.100.
Karady, Sandor; Pines, Seemon H.; Ly, Manuel G.; and Sletzinger, Meyer, to Merck & Co., Inc. Derivatives of α-halo-α-benzyl propionic acid. 3,734,937, 5-22-73, Cl. 260-395.000.
Karady, Sandor; Pines, Seemon H.; Ly, Manuel G.; and Sletzinger, Meyer, to Merck & Co., Inc. Process of preparing a stereoisomer of α-hydrazino-β-(phenyl)alkanoic acids. 3,742,042, 6-26-73, Cl. 260-516.000.
Karady, Sandor; Pines, Seemon H.; Ly, Manuel G.; and Sletzinger, Meyer, to Merck & Co., Inc. α-Hydrazino-β-phenyl alkanoic acids and their derivatives. 3,746,753, 7-17-73, Cl. 260-519.000.
Karady, Sandor; Pines, Seemon H.; Ly, Manuel G.; and Sletzinger, Meyer, to Merck & Co., Inc. N-Acyl-α-hydrazino-hydrocinnamic acid and derivatives. 3,758,560, 9-11-73, Cl. 260-519.000.
Karady, Sandor; Pines, Seemon H.; Ly, Manuel G.; and Sletzinger, Meyer, to Merck & Co., Inc. Product, process and composition. 3,781,415, 12-25-73, Cl. 424-308.000.
Karaganis, James J., to Gureckis, Peter V. Radio communication/control system for restricted range signaling near the earth's surface. 3,735,265, 5-22-73, Cl. 325-28.000.
Karagozian, Jack; and Rudnicki, William E., to Ford Motor Company. High pressure liquid pump. 3,752,601, 8-14-73, Cl. 417-300.000.
Karakawa, Kouichi: *See—*
Tanigawa, Shogo; Yokoyama, Takesi; and Karakawa, Kouichi, 3,779,524.
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Tanigawa, Shogo; Yokoyama, Takesi; and Karakawa, Kouichi, 3,779,528.
Karamian, Narbik A. Separatory funnel. 3,713,778, 1-30-73, Cl. 23-259.000.
Karamzina, Natalia Nikolaenva: *See—*
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Karandy, Fred: *See—*
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Karapinka, George L.: *See—*
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Karapinka, George L., to Union Carbide Corporation. Polymerization of ethylene using supported bis-(cyclopentadienyl) chromium (II) catalysts. 3,709,853, 1-9-73, Cl. 260-88.20d.
Karapinka, George Leop, to Union Carbide Corporation. Polymerization of olefins using supported pi-arenechromium tricarbonyl catalysts. 3,756,998, 9-4-73, Cl. 260-88.20r.
Karas, Edwin L.; Lee, Davis S.; and Vanslette, Robert A., to Foxboro Company, The. Sample valve for chromatographic apparatus. 3,748,833, 7-31-73, Cl. 55-197.000.
Karas, Nicholas V.: *See—*
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Karass, Hans-Joachim; and Kroger, Heinz, to Holstein & Kappert Maschinenfabrik Phonix GmbH. Conveying device. 3,750,801, 8-7-73, Cl. 198-43.000.
Karastu, Tetsuo; Sasaki, Hiroshi; and Fukuda, Hideo, to Japanese Geon Company, Ltd., The. Process for the vulcanization of epihalohydrin. 3,708,461, 1-2-73, Cl. 260-79.000.
Karasz, Margaret K. Pet training tray. 3,745,974, 7-17-73, Cl. 119-1.000.
Karathanos, Demetrius: *See—*
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Karato, Yoshiteru, to Shiba Electric Co., Ltd. Color television camera equipment. 3,715,466, 2-6-73, Cl. 178-5.4st.
Karato, Yoshiteru, to Shiba Electric Co., Ltd. Color television camera equipment. 3,745,236, 7-10-73, Cl. 178-5.4st.
Karato, Yoshiteru, to Shiba Electric Co., Ltd. Color television camera equipment having a reference filter and a color filter assembly interposed between the camera and subject. 3,745,237, 7-10-73, Cl. 178-5.4st.
Karatsu, Tetsuo, to Nippon Zeon Co., Ltd. Vulcanizable epihalohydrin polymer composition. 3,755,207, 8-28-73, Cl. 260-2.00a.
Karau, Claus-Dieter: *See—*
Oberste-Berghaus, Gerhard; and Karau, Claus-Dieter, 3,716,625.
Karawin, Kenneth J., to Franklin Mint Corporation. Tarnish resistant plating for silver articles. 3,748,712, 7-31-73, Cl. 29-199.000.
Karbo, Richard S., to Brunswick Corporation, mesne. Take-down archery bow. 3,738,348, 6-12-73, Cl. 124-24.000.
Karbo, Richard S., to Brunswick Corporation, mesne. Arrowhead with removable blades. 3,741,542, 6-26-73, Cl. 273-106.50b.
Karch, Ludwig, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Apparatus for electromagnetic suspension and guidance of tracked cars. 3,724,388, 4-3-73, Cl. 104-148.0ms.
Karchak, Andre W., Jr.; and Allen, James R. Collapsible wheel chair. 3,749,192, 7-31-73, Cl. 180-6.500.
Karcher, Ralph E., Jr.: *See—*
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Karcher, Walter, to Bosch, Robert, G.m.b.H. Vehicle power supply arrangement with discrete rectifier unit. 3,748,509, 7-24-73, Cl. 310-68.00d.
Karchmar, Tsetsiliya Aronovna: *See—*
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Karchmer, Jean H.; and Pennington, Robert E., to Esso Research and Engineering Company. Purging and washing coal naphtha to remove $H_2S$ and basic nitrogen. 3,719,587, 3-6-73, Cl. 208-208.00r.
Kardas, Michael J., Jr.: *See—*
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Kardashian, Vahram S., to Honeywell Inc. Anisotropic thin film plated wire line sensor. 3,723,988, 3-27-73, Cl. 340-258.00r.
Kardashian, Vahram S., to Honeywell Inc. Single source several sensor security system. 3,745,553, 7-10-73, Cl. 340-276.000.
Kardashian, Vahram S.; Fryer, Richard B.; and Holmen, James O., to Honeywell Inc. Antisotropic thin film plated wire magnetostrictive transducer. 3,774,134, 11-20-73, Cl. 336-20.000.
Kardos, John Louis, to Monsanto Company, mesne. Polycondensate reinforcement process using an interfacial-forming technique. 3,708,456, 1-2-73, Cl. 260-37.00n.
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Kariagin, Nikolai; Laibson, Jerry; Hooper, Eric Ralph; Keogh, Jim Cowden, Jr.; and Pagan, Augustine Joseph, to Whittaker Corporation. Telescoping gravity davit. 3,778,855, 12-18-73, Cl. 9-41.000.
Karig, Horace E., to United States of America, Navy. Lox heat sink system for underwater thermal propulsion system. 3,775,976, 12-4-73, Cl. 60-39.330.
Karig, Horace Edmund; and De Vries, Gerrit, to United States of America, Navy. Underwater molten salt heat storage boiler. 3,722,445, 3-27-73, Cl. 114-16.00g.
Karig, Horace L., to United States of America, Navy. Supercritical thermal power system using combustion gases for working fluid. 3,736,745, 6-5-73, Cl. 60-39.020.
Kariher, Donald H., to Snyder Manufacturing Company, Inc. Apparatus and method for suprapublic drainage of the urinary bladder. 3,752,158, 8-14-73, Cl. 128-278.000.
Karikawa, Tohru, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera photoflash device. 3,740,695, 6-19-73, Cl. 339-45.00t.
Karikomi, Masahiro: *See—*
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Karikomi, Masahiro; and Kataoka, Yoshio, to Nippon Telegraph and Telephone Public Corporation. Dual reflector antenna capable of steering radiated beams. 3,745,582, 7-10-73, Cl. 343-758.000.
Karin Limited: *See—*
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Karius, Siegfried, to Licentia Patent-Verwaltungs-G.m.b.H. Solar cell generator for flight missions in the vicinity of the sun. 3,778,312, 12-11-73, Cl. 136-89.000.
Kariya, Kotaro: *See—*
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Karkow, Waldemar B., Jr.: *See—*
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Karlen, Harvey R.: *See—*
Herbsthofer, Franz L.; Karlen, Harvey R.; and Wagner, Herbert E., 3,739,709.
Karlen, Harvey R., to Cory Corporation. Coffee dispenser. 3,754,686, 8-28-73, Cl. 222-238.000.
Karlen, Harvey R., to Cory Corporation. Hot water supply apparatus. 3,771,432, 11-13-73, Cl. 99-304.000.
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Karll, Robert E.; and Lee, Richard J., to Standard Oil Company (Indiana). Sulfonamides of high molecular weight alkyl-substituted benzene sulfonic acids and their preparation. 3,711,408, 1-16-73, Cl. 252-47.500.
Karll, Robert E.; and Piasek, Edmund J., to Standard Oil Company (Indiana). Bis-methylol compounds. 3,737,465, 6-5-73, Cl. 260-619.00a.
Karlovics, Steven, to Zenith Radio Corporation. Blue droop correction circuit with a single supplemental correction coil. 3,735,189, 5-22-73, Cl. 315-13.0cg.
Karlovsky, Jerry, Jr., to National Mine Service Company. Continuous mining machine. 3,730,593, 5-1-73, Cl. 299-76.000.
Karlowitz, Bela. Method for emission control for spark ignition engines. 3,776,212, 12-4-73, Cl. 123-191.0sp.
Karls, Robert F.; and Enright, James H., to Emerson Electric Co. Compactor. 3,772,984, 11-20-73, Cl. 100-215.000.
Karlsen, Asbjorn: *See—*
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Karlson, Eskil L.: *See—*
Shapiro, Jonathan S.; Verses, Christ J.; and Karlson, Eskil L., 3,719,017.
Karlson, Eskil L., to Pollution Control Industries, Inc. Sterilizing with liquid spray containing ozone. 3,751,225, 8-7-73, Cl. 21-91.000.
Karlson, Harald; Goldsworthy, William B.; and Hegyi, Tim T., to Goldsworthy Engineering, Inc. Multiple ratio selector system. 3,734,421, 5-22-73, Cl. 242-7.210.
Karlson, Harald E.; and Hardesty, Ethridge E., to Goldsworthy Engineering, Inc. Composite-tape placement head. 3,775,219, 11-27-73, Cl. 156-363.000.
Karlsons, Dainis: *See—*
Bartolini, Robert Alfred; and Karlsons, Dainis, 3,763,311.
Karlsson, Ake Gustav-Adolf: *See—*
Edmansson, Kurt Axel Henry; and Karlsson, Ake Gustav-Adolf, 3,717,386.
Karlsson, Ake Gustav-Adolph; and Svenning, Bengt Furchtegott Staffan, to Saab-Scania Aktiebolag. Joystick type control device with displacement feel. 3,744,335, 7-10-73, Cl. 74-471.440.
Karlsson, Bengt-Ake: *See—*
Andersson, John-Erik; Gustafsson, Jan Kenneth; Haggstrom, Rolf Paul; and Karlsson, Bengt-Ake, 3,741,328.
Karlsson, Ingemar: *See—*
Lindstrom, Bengt; Citron, Bengt; Nelenius, Erik; Karlsson, Ingemar; and Rosby, Sven-Olof, 3,759,434.
Karlsson, Karl Gosta, to Allmanna Svenska Elektriska Aktiebolaget. Device for continuous casting of metal. 3,735,799, 5-29-73, Cl. 164-147.000.
Karlsson, Karl Harry: *See—*
Jonason, Karl Gunnar; Karlsson, Karl Harry; and Remning, Ake Gustaf Vilhelm, 3,745,631.
Jonason, Karl Gunnar; Karlsson, Karl Harry; and Remning, Ake Gustaf Vilhelm, 3,762,031.
Karlsson, Sven: *See—*
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Karlsson, Tord Herlog Ingemar, to Aktiebolaget Svenska Flaktfabriken. Air humidifying unit. 3,773,307, 11-20-73, Cl. 261-97.000.
Karlstrom, Karl R. M., to American Chain & Cable Company, Inc. Conveyor chain structure. 3,774,545, 11-27-73, Cl. 104-172.00c.
Karlyn, Albert A.; and Fedak, Daniel W., to Gentex Corporation. Method of making a map holder or the like. 3,767,752, 10-23-73, Cl. 264-134.000.
Karma; division of Brandt, Inc.: *See—*
Uttech, Raymond E., 3,762,610.
Karman, Harvey; Robins, Milton; and Wolf, Leo, to Medical Concepts, Inc. Syringe. 3,747,812, 7-24-73, Cl. 222-387.000.
Karman, Harvey, to Medical Concepts, Inc. Medical instruments. 3,769,980, 11-6-73, Cl. 128-304.000.
Karman, Harvey, to Medical Concepts, Inc. Forceps. 3,779,248, 12-18-73, Cl. 128-321.000.
Karmas, George, to Ortho Pharmaceutical Corporation. Alkenyl esters of 2(lower alkyl)-3-(lower alkyl)-4-aryl 3- or-4 cyclohexencarbinols. 3,719,693, 3-6-73, Cl. 260-410.500.
Karmas, George, to Ortho Pharmaceutical Corporation. Aryl substituted-hydroxy substituted cyclohexenecarboxylic acids and esters. 3,742,028, 6-26-73, Cl. 260-479.00r.
Karmas, George, to Ortho Pharmaceutical Corporation. Derivatives of the 2-(lower alkyl)-3-(lower alkyl)-4-aryl-3- or 4-cyclohexenecarbinola. 3,758,552, 9-11-73, Cl. 260-482.00r.
Karmas, George, to Ortho Pharmaceutical Corporation. Aryl substituted-hydroxy substituted cyclohexenecarboxylic acids and esters. 3,764,613, 10-9-73, Cl. 260-340.500.
Karn, William Snyder. Chemical equipment structures. 3,763,029, 10-2-73, Cl. 204-279.000.
Karna, Carl G., to Lavin, R., & Sons, Inc. Method of making a cast anode with hook. 3,708,417, 1-2-73, Cl. 204-286.000.
Karnaugh, Maurice, to International Business Machines Corporation. High speed line equalizer. 3,764,914, 10-9-73, Cl. 325-42.000.
Karnavas, James A.: *See—*
Pelczarski, Eugene A.; Larosa, Paul J.; and Karnavas, James A., 3,744,780.
Pelczerski, Eugene A.; and Karnavas, James A., 3,717,703.
Karnemaat, John N. Process for producing garbage based fertilizer. 3,713,800, 1-30-73, Cl. 71-14.000.
Karner System AG: *See—*
Wilhelm, Friedrich; Karrer, Johann; and Pedretti, Alberto, 3,771,954.
Karnes, Donovan; and Centliver, Marion F., to Hobart Brothers Company. Apparatus for moving wire. 3,738,555, 6-12-73, Cl. 226-168.000.
Karnes, Donovan; and Centliver, Marion F., to Hobart Brothers Company. Apparatus for moving wire. 3,744,694, 7-10-73, Cl. 226-168.000.
Karol, Frederick J.; and Karapinka, George L., to Union Carbide Corporation. Preparation of liquid polymers of olefins. 3,709,954, 1-9-73, Cl. 260-683.15d.
Karol, Joseph A., to Avco Corporation. Actuating device for a gas turbine engine fuel control. 3,733,815, 5-22-73, Cl. 60-39.16r.
Karol, Joseph A., to Avco Corporation. Simplified follower servomechanism. 3,757,640, 9-11-73, Cl. 91-49.000.
Karoll, Elizabeth A.: *See—*
Mookherjee, Braja D.; Giacini, Christopher; Karoll, Elizabeth A.; and Vock, Manfred H., 3,711,482.
Mookherjee, Braja D.; Giacino, Christopher; Karoll, Elizabeth A.; and Vock, Manfred H., 3,767,428.
Karoly, Bela: *See—*
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Karolyi, Oskar: *See—*
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Karp, Arthur, to Stanford Research Institute. Directional filter using meander lines. 3,742,393, 6-26-73, Cl. 333-10.000.
Karp, Joel A.; and Regitz, William M., to Intel Corporation. Memory system incorporating a memory cell and timing means on a single semiconductor substrate. 3,778,784, 12-11-73, Cl. 340-173.00r.
Karp, Johann: *See—*
Salz, Richard; and Karp, Johann, 3,773,456.
Karp, Joseph G., Jr.; and McCurdy, Robert F., to American Standard, Inc. Movable wall panel systems. 3,708,916, 1-9-73, Cl. 49-409.000.
Karp, Raymond E., to United States of America, Navy. High speed fail safe weapon retarding system. 3,713,387, 1-30-73, Cl. 102-4.000.
Karpal, David L., to Teledyne, Inc. Nonspill battery vent plug. 3,752,173, 8-14-73, Cl. 137-43.000.



Karpenko, Anatole N., to Anchor Equipment Company; d/b/a Anchor Valve Company. Chemical cleaning line connector. 3,765,456, 10-16-73, Cl. 138-89.000.
Karpenko, Irene M.: *See—*
Rylander, Paul N.; Karpenko, Irene M.; and Pond, George R., 3,715,397.
Karper, Albert. Rotary card file. 3,734,587, 5-22-73, Cl. 312-186.000.
Karper, Paul W.: *See—*
Porter, John P.; and Karper, Paul W., 3,769,830.
Karpf, Josef, to Steffens, G. W. Cutting head for comminuting machines. 3,730,363, 5-1-73, Cl. 241-282.100.
Karpinski, Janusz M.: *See—*
Reed, George G., Jr.; Karpinski, Janusz M.; and Fox, Sidney V., 3,748,116.
Karplus, Robert; Montgomery, Marshall A.; and Berger, Carl F., to University of California, The Regents of the. Circuit base model. 3,748,755, 7-31-73, Cl. 35-19.00a.
Karpman, David Bentsionovich: *See—*
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Karpov, Vladimir Lvovich: *See—*
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Karr, Earl C., to Motorola, Inc. Speaker housing. 3,716,671, 2-13-73, Cl. 179-1.00e.
Karr, Fred A., to Shasta Beverages; division of Consolidated Food Corporation. Wastewater treatment system. 3,734,850, 5-22-73, Cl. 210-3.000.
Karr, Fred A., to Shasta Beverages; division of Consolidated Food Corporation. Method for warming carbonated, beverages in sealed containers. 3,767,829, 10-23-73, Cl. 99-214.000.
Karr, Gerald W.; Page, Robert E.; and Safford, Robert D., to Beloit Corporation. Method and apparatus for reeling web material. 3,743,199, 7-3-73, Cl. 242-65.000.
Karr, Jerry W.: *See—*
Stevens, Harry S.; Karr, Jerry W.; Miller, Dennis D.; and Ballinger, Forrest H., 3,748,580.
Karr, Michael A., Jr.: *See—*
Grove, Marvin H.; and Karr, Michael A., Jr., 3,752,178.
Karrenbauer, Kurt: *See—*
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Karrer, Johann: *See—*
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Karrip, Alexander A.: *See—*
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Karsai, Frank: *See—*
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Karsberg, Lars Anders Birger: *See—*
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Karsch, Arthur F.: *See—*
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Karski, Leo W.: *See—*
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Karstedt, Bruce D., to General Electric Company. Platinum-vinylsiloxanes. 3,715,334, 2-6-73, Cl. 260-46.5ua.
Karstedt, Bruce D., to General Electric Company. Platinum complexes of unsaturated siloxanes and platinum containing organopolysiloxanes. 3,775,452, 11-27-73, Cl. 260-429.00r.
Karsten, Kenneth S.; and Beadley, Charles Edward, Jr., to Vanderbilt, R. T., Company, Inc. Wettable and dispersible powders. 3,737,551, 6-5-73, Cl. 424-286.000.
Karsten, Werner: *See—*
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Karstendiek, Claude A.: *See—*
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Karstensen, Karl W.; Koch, James M.; and Hoftiezer, Wallace A., to Caterpillar Tractor Company. Turbine blade seal arrangement. 3,709,631, 1-9-73, Cl. 416-95.000.
Kartarik, Henry, to Ideal Security Hardware Corporation. Cross bolt beadlock. 3,746,380, 7-17-73, Cl. 292-117.000.
Kartasuk, Raymond H.; and Smierciak, Walter, to Wilton Corporation. Vise assembly. 3,768,797, 10-30-73, Cl. 269-283.000.
Kartchner, Earl M.; Van Horn, Gary R.; and Wallace, Richard A., to Sperry Rand Corporation. Two-way communication system employing two-clock frequency pseudo-noise signal modulation. 3,728,529, 4-17-73, Cl. 235-152.000.
Karter, Jesse; and Cullen, Patrick. Dental amalgam carrier. 3,735,492, 5-29-73, Cl. 32-60.000.
Kartiganer, Norman, to Kartiganer, Norman, Inc. Combination carrying case and wig stand. 3,750,869, 8-7-73, Cl. 206-8.000.
Kartiganer, Norman, Inc.: *See—*
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Kartlapp, Gerhard: *See—*
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Kartridg Pak Co., The: *See—*
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Kartzmark, Roy M.; and Skoog, John D., to United States of America, Navy. Auxiliary rocket apparatus for installation on a missile to impart a roll moment thereto. 3,754,725, 8-28-73, Cl. 244-3.230.
Karuhn, Richard F.; Davies, Reg.; and Clinch, John Michael, to IIT Research Institute. Method and apparatus for detecting and sizing microscopic particles. 3,739,258, 6-12-73, Cl. 324-71.0cp.
Karuhn, Richard F.; Davies, Reg; and Kaye, Brian Howard, to IIT Research Institute. Particle sensing apparatus, method and flow direction collar therefor. 3,739,268, 6-12-73, Cl. 324-71.0cp.
Karul, Frederick J., to Union Carbide Corporation. Catalytic polymerization of olefins using cyclopeniadiene modified supported diarene chromium compounds. 3,757,002, 9-4-73, Cl. 260-94.9da.
Karustis, George A., Jr., to GAF Corporation. Method of preparing hexahydro-1,3,5-triacyl-s-triazines. 3,736,320, 5-29-73, Cl. 260-248.0ns.
Karwinski, Gerhard E., to CTR Inc. Grinding machine. 3,731,434, 5-8-73, Cl. 51-95.0lh.
Karzmar, Martin. Stadium seat and bottle carrier. 3,763,972, 10-9-73, Cl. 190-8.000.
Kasabov, Yordan Dimitrov, to Tzentralen Institut zi Elementi. Method of producing diffused high-resistivity microresistors. 3,726,726, 4-10-73, Cl. 148-187.000.
Kasahara, Akira: *See—*
Ueno, Katsuhiro; Ohmura, Yoshiaki; Moroi, Reimci; Akashi, Akira; Arimoto, Masahiro; and Kasahara, Akira, 3,723,433.
Kasahara, Akishige: *See—*
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Kasahara, Ichiro; and Yamaguchi, Hideki, to Nihon Denshi Kabushiki Kaisha. Method for measuring plate thickness. 3,720,471, 3-13-73, Cl. 356-108.000.
Kasahara, Keisuke; and Kabushiki Kaisha Maekawa Seisakusho. Method of compressing chlorine gas. 3,759,348, 9-18-73, Cl. 184-6.230.
Kasahara, Riichiro, to Shin Cosmos Denki Kabushiki Kaisha. Gas lighter testing device. 3,772,908, 11-20-73, Cl. 73-27.00r.
Kasahara, Takeshi: *See—*
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Kasahara, Yasuo, 50% to Kabusiki-Kaisha Nakatani. Automatically resetting relay. 3,728,658, 4-17-73, Cl. 337-90.000.
Kasahara, Yasuo, 50% to Kabushiki Kaisha Nakatani. Circuit protector. 3,743,982, 7-3-73, Cl. 335-208.000.
Kasai, Akinari: *See—*
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Kasak, August: *See—*
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Kasama, Ryoji: *See—*
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Kasamatsu, Tomomichi; and Sakurai, Hiroshi, to Japan Atomic Energy Research Institute. Method for radiation gas phase reactions. 3,711,387, 1-16-73, Cl. 204-157.10h.
Kasanami, Toru; and Kano, Osamu, to Murata Manufacturing Co., Ltd. Electro-conductive material containing PBO and $RuO_2$. 3,778,389, 12-11-73, Cl. 252-520.000.
Kasano, Hiroyuki: *See—*
Aoki, Masaharu; Kasano, Hiroyuki; Kurata, Kazuhiro; and Ogirima, Masahiko, 3,746,943.
Ono, Yoichi; Ogirima, Masahiko; Kasano, Hiroyuki; and Kurata, Kazuhiro, 3,769,104.
Kasano, Hiroyuki, to Hitachi, Ltd. Optical semiconductor device and method of manufacturing the same. 3,745,423, 7-10-73, Cl. 317-234.00r.
Kasberg, Alvin H., to Atlantic Richfield Company. Spent nuclear fuel shipping casks. 3,781,189, 12-25-73, Cl. 176-28.000.



Kasberger, Ludwig, to Maschinenfabrik Fahr Aktiengesellschaft. Tractor-carried mower and hinge arrangement therefor. 3,750,381, 8-7-73, Cl. 56-15.500.
Kasik, Robert L.; and Ludsas, Anthony J., to Beatrice Foods Co.



Kaspers, Helmut: *See—*

Kasberger, Ludwig, to Maschinenfabrik Fahr Aktiengesellschaft. Tractor-carried mower and hinge arrangement therefore. 3,735,572, 5-29-73, Cl. 56-16.200.
Kase, Hiroaki: *See*—
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Kasel, John A.: *See*—
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Kasemeier, Rolf; and Mehr, Karl Gunter, to Minox GmbH. Optische und Feinmechanische Werke. Still camera with an electronically controlled shutter and a receiver for a photo-flash device. 3,750,550, 8-7-73, Cl. 95-11.001.
Kaser, Arthur, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Inner shell and supporting structure for use in a nuclear reactor having a reactor core and a reactor tank spaced around said core. 3,720,581, 3-13-73, Cl. 176-87.000.
Kashara, Tadashi: *See*—
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Kashima, Yoshitake, to Hitachi, Ltd. Stationary induction apparatus. 3,774,135, 11-20-73, Cl. 336-84.000.
Kashimura, Katsuichi: *See*—
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Kashimura, Tetsuo: *See*—
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Kashimura, Toshibumi; and Kato, Noriaki, to Kabushiki Kaisha Daini Seikosha. Balance wheel and starting lever assembly of time piece. 3,733,805, 5-22-73, Cl. 58-79.000.
Kashio, Toshio, to Casio Computer Co., Ltd. Number input device using a multi-zero input key. 3,764,791, 10-9-73, Cl. 235-156.000.
Kashio, Toshio, to Casio Computer Co., Ltd. Memory device having main shift register and supplementary shift register. 3,771,133, 11-6-73, Cl. 340-172.500.
Kashio, Toshio, to Casio Computer Co., Ltd. Nozzle device for ink jet printing equipments. 3,776,461, 12-4-73, Cl. 239-125.000.
Kashiwa, Norio: *See*—
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Tokuzumi, Tadaichi; Fujimura, Hiroshi; and Kashiwa, Norio, 3,759,884.
Kashiwa, Norio, to Mitsui Petrochemical Industries, Ltd. Process for the polymerization or copolymerization of ethylene and catalyst compositions therefor. 3,745,154, 7-10-73, Cl. 260-88.20r.
Kashiwagi, Shigeru, to Victor Company of Japan, Limited. High voltage producing circuit for television receivers. 3,745,246, 7-10-73, Cl. 178-7.50r.
Kashiwagi, Teruya: *See*—
Murakami, Masuo; Isaka, Ichiro; Kawahara, Norio; Kashiwagi, Teruya; Shibanuma, Tadao; and Shiozaki, Tetsuya, 3,708,514.
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Kashkooli, Faraj Y.: *See*—
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Kasik, Robert L., to Beatrice Foods Co. Cheese flavor. 3,729,326, 4-24-73, Cl. 99-140.00r.
Kasik, Robert L.; and Ludsas, Anthony J., to Beatrice Foods Co. Cheese product. 3,765,905, 10-16-73, Cl. 426-43.000.
Kasin, Hans; and Thvedt, Krane, to Christiania Spigerverk. Suspension for pivotal track frames on terrain motor vehicles. 3,724,587, 4-3-73, Cl. 180-9.540.
Kasin, Hans; and Thvedt, Odd Krane, to Spigerverk, Christiania, Division JoBU. Loading and conveying device to be mounted on a tractor or the like. 3,741,526, 6-26-73, Cl. 254-139.100.
Kasinoff, Harvey A., to United States of America, Army, mesne. Mine-actuating system using one-shot MV timing circuit and timed MV feedback inhibitor. 3,763,780, 10-9-73, Cl. 102-19.200.
Kaske, Alan D.: *See*—
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Kason Hardware Corporation: *See*—
Berkowitz, Irving L., 3,748,688.
Kaspar, Elisabeth Barbara: *See*—
Kaspar, Emanual; and Philippson, Rainer, 3,729,495.
Kaspar, Emanual; deceased (by Kaspar, Elisabeth Barbara; main heir); and Philippson, Rainer, to Schering A.G. Process for the preparation of 9 alph-chloro-11 beta-hydroxy steroids. 3,729,495, 4-24-73, Cl. 260-397.450.
Kaspar, Emanuel: *See*—
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Kaspar, Klaus. Garage. 3,712,485, 1-23-73, Cl. 214-16.1ed.
Kaspar, Peter D., to International Playtex Corporation. Deposition apparatus. 3,722,467, 3-27-73, Cl. 118-301.000.
Kaspar, Peter D., to International Playtex Corporation. Method for the continuous formation of foraminous elastomeric sheet material from a coagulable liquid. 3,758,651, 9-11-73, Cl. 264-39.000.
Kasparek, Vladimir. Flow cuvette. 3,740,157, 6-19-73, Cl. 356-246.000.
Kaspaul, Alfred F., to Hughes Aircraft Company. Image exposure and development method. 3,721,496, 3-20-73, Cl. 355-77.000.
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Kato, Saburo, to Ricoh Co., Ltd. Magnetic recording and reproducing apparatus of the spiral track type. 3,727,921, 4-17-73, Cl. 274-4.00j.
Kato, Saburo; and Hokari, Saburo, to Kabushiki Kaisha Ricoh. Audio-visual apparatus. 3,752,574, 8-14-73, Cl. 353-19.000.
Kato, Saburo, to Ricoh Co., Ltd. Spiral track magnetic recording and reproducing apparatus. 3,758,120, 9-11-73, Cl. 274-4.00j.
Kato, Saburo; and Sawada, Hideo, to Ricoh Co., Ltd. Original mount or holder for optical projection system. 3,762,809, 10-2-73, Cl. 353-66.000.
Kato, Saburo, to Kabushiki Kaisha Ricoh. Spiral track type magnetic recording and reproducing device. 3,773,335, 11-20-73, Cl. 274-4.00j.
Kato, Sadatake; and Kurata, Kunio, to Dainabo Radioisotope Laboratories, Ltd. Radioactive isotope generator of short-lived nuclides. 3,740,558, 6-19-73, Cl. 250-100.00t.
Kato, Sadatake; and Kurata, Kunio, to Damabot Radioisotope Laboratories, Ltd. Preparation of radioactive mono and di iodo sulfobromophthalein. 3,743,713, 7-3-73, Cl. 424-1.000.
Kato, Shigeki; and Yamamoto, Takeshi, to Asahi Glass Company, Ltd. Neutral gray glass. 3,723,142, 3-27-73, Cl. 106-52.000.
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Kato, Tetsuo, to Nippondenso Co., Ltd. Relay for voltage regulator. 3,753,178, 8-14-73, Cl. 335-135.000.
Kato, Tetsuya; Hidaka, Toshiaki; and Okagawa, Chikatsu, to Toray Industries, Inc. Method for producing polyamide fiber having improved silky feel and lustre. 3,734,986, 5-22-73, Cl. 264-49.000.
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Kato, Umaki; Endo, Masanori; and Kamata, Katsuo, to Tohoku Metal Industries, Limited. Temperature-operated switch. 3,750,064, 7-31-73, Cl. 335-208.000.
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Kato, Yoshimi, to Toyoda Koki Kabushiki Kaisha. Load transducer. 3,742,760, 7-3-73, Cl. 73-141.00a.
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Katoh, Yoshiki; Kuninaka, Akira; and Yoshino, Hiroshi, to Yamasa Shoyu Kabushiki Kaisha. Production of polynucleotides. 3,779,867, 12-18-73, Cl. 195-28.000.
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Katsumata, Takuma; and Takahashi, Hisao, to Mitsubishi Jukogyo Kabushiki Kaisha. Dry and wet heater for combined use. 3,720,079, 3-13-73, Cl. 68-6.000.
Katsumata, Takuma; Uchiyama, Hideo; and Marita, Yoshiharu, to Mitsubishi Jukogyo Kabushiki Kaisha. Method and apparatus for inspecting a bottle. 3,739,184, 6-12-73, Cl. 250-223.00b.
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Katz, Bernard R., to Lummus Company, The. Stored energy stabilization system. 3,737,754, 6-5-73, Cl. 320-1.000.
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Katz, Ira; Evers, William J.; and Sanderson, Anne, to International Flavors & Fragrances Inc. Flavoring compositions and processes utilizing alpha-ketothiols. 3,773,524, 11-20-73, Cl. 426-65.000.
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Katz, Joseph Lawrence, to Alphabet Unlimited. Method of sewing knitted fabrics. 3,725,958, 4-10-73, Cl. 2-243.00b.
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Katz, Morris H.; Sams, Powell F.; and Riley, Duane M., to Pillsbury Company, The. Method for heat processing food products packaged in flexible containers. 3,769,028, 10-30-73, Cl. 426-345.000.
Katz, Murray; and Stedman, James K., to United Aircraft Corporation. Electrochemical cell. 3,769,090, 10-30-73, Cl. 136-86.00r.
Katz, Norman H., to United States of America, Atomic Energy Commission, mesne. Process for massively hydriding zirconium-uranium fuel elements. 3,776,508, 12-4-73, Cl. 252-301.10r.
Katz, Robert E. Envelope-containing multiple page pamphlet. 3,713,673, 1-30-73, Cl. 281-3.00r.
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Katz, Silas; and Hastie, Edgar G., to United States of America, Army. Fluidic angular rate sensor. 3,741,018, 6-26-73, Cl. 73-506.000.
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Katzirkatchalsky, Aharon; Lahav, Eitan; and Sode-Morgensen, Mogens Torben, to Israel, State of, Ministry of Agriculture, The. Polypeptidic anti-biotic substances derived from casein. 3,764,670, 10-9-73, Cl. 424-118.000.
Katzke, Ernest F. Apparatus for polishing wafers. 3,747,282, 7-24-73, Cl. 51-235.000.
Katzman, Frederick. Swimming pool cover. 3,711,873, 1-23-73, Cl. 4-172.120.
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Katzman, Lawrence; and Briggin, Edward, to Kaz Manufacturing Co., Inc. Vaporizer with thermally isolated heating chamber. 3,714,391, 1-30-73, Cl. 219-271.000.
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Kaufeldt, Roland T. A. Robot system. 3,709,379, 1-9-73, Cl. 214-1.0bb.
Kaufeldt, Roland T. A. Positively cushioned stop device for robot system. 3,717,231, 2-20-73, Cl. 192-139.000.
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Kauffman, Harry D., to Cincinnati Milacron, Inc. Regulator for an EDM power supply. 3,749,876, 7-31-73, Cl. 219-69.00c.
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Kauffman, Robert J., to Narad, Inc. Honeycomb pallet. 3,709,161, 1-9-73, Cl. 108-51.000.
Kaufhold, Norbert; Konig, Klaus; Keller, Heinrich; De Graaf, Jan G.; Blankenzee, Johan; Bakker, Hans; and Plettenburg, Carolus, to Vereinigte Flugtechnische Werke-Fokker GmbH. Aircraft power-unit suspension system. 3,727,862, 4-17-73, Cl. 244-54.000.
Kaufman, Aaron M., to Reliable Machine Works, Inc. Shearing apparatus with means to detect clearance between cutting blades. 3,769,666, 11-6-73, Cl. 26-15.00r.
Kaufman, Alvin B. Optimum electrode configuration ceramic memories with ceramic motor element and mechanical damping. 3,733,590, 5-15-73, Cl. 340-173.200.
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Kaufman, David L., to Gordon Engineering Company. Programmable multi-mode phase sensitive voltmeter. 3,757,214, 9-4-73, Cl. 324-83.00q.
Kaufman, Edward L. Disposable half-mask respirator. 3,757,777, 9-11-73, Cl. 128-146.200.
Kaufman, Harold B., Jr.; Stein, Ernest W.; and Schiffmann, Robert F., to DCA Food Industries, Inc. Control system. 3,754,464, 8-28-73, Cl. 99-334.000.
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Kawado, Kenji: *See—*
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Kawai, Isamu; Nishikawa, Atsuro; Takagi, Osamu; Iwata, Akira; and Sugiyama, Kohei. Process for preparation of ethylenic resin foam. 3,766,099, 10-16-73, Cl. 260-2.50e.

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Kaye, David Arnold. Counter flow Genka head. 3,737,260, 6-5-73, Cl. 425-113.000.

Kaye, Gordon E., to Mallory, P. R., & Co., Inc. Hearing aid battery dispenser. 3,712,695, 1-23-73, Cl. 312-31.000.

Kaye, Gordon E., to Mallory, P. R., & Co., Inc. Reserve cell with modular construction. 3,712,835, 1-23-73, Cl. 136-114.000.

Kaye, Gordon E., to Mallory, P. R., & Co., Inc. Flashlight with reserve cell. 3,716,708, 2-13-73, Cl. 240-10.60r.

Kaye, Gordon E., to Mallory, P. R., & Co., Inc. Battery of reserve cells. 3,736,188, 5-29-73, Cl. 136-90.000.

Kaye, Gordon E.; and Mallory, Henry Rogers, to Mallory, P. R., & Co., Inc. Disposable flashlight. 3,737,650, 6-5-73, Cl. 240-10.660.

Kaye, Gordon E., to Mallory, P. R., & Co., Inc. Power handle. 3,739,769, 6-19-73, Cl. 127-106.000.

Kaye, Gordon E., to Mallory, P. R., & Co., Inc. Electrically commutating battery cases. 3,745,049, 7-10-73, Cl. 136-173.000.

Kaye, Gordon E.; and Sussingham, George, to Mallory, P. R., & Co., Inc. Intrusion detecting alarm system. 3,768,087, 10-23-73, Cl. 340-274.000.

Kaye, Linda: *See—*
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Kaye, Melvin S., to Maas & Waldstein Co. Method of depositing metallic flakes. 3,713,870, 1-30-73, Cl. 117-71.00r.

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Kayle, Jerry P., to Pacific Game Company. Creative magnet apparatus. 3,714,612, 1-30-73, Cl. 335-285.000.

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Kayser, Allan J. Theft prevention device for trailers. 3,757,550, 9-11-73, Cl. 70-232.000.

Kayser, James H.; and Younker, Gregory A., to Minnesota Mining and Manufacturing Company. Safety closure. 3,777,924, 12-11-73, Cl. 215-9.000.

Kayser, Lutz Tilo. Valve. 3,768,770, 10-30-73, Cl. 251-25.000.

Kayser-Roth Corporation: *See—*
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Kaystone Consolidated Industries, Inc.: *See—*
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Kaytor, James, to Olin Corporation. Engine-starting system. 3,722,209, 3-27-73, Cl. 60-6.000.

Kaywood Products Corporation: *See—*
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Kaywood, Roy H.; Kaywood, Roy G.; and Clayton, Keith P., to Kaywood Products Corporation. Mobile home anchor. 3,724,151, 4-3-73, Cl. 52-295.000.

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Katzman, Lawrence; and Briggin, Edward, 3,714,392.

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Kazama, Toshio; and Seki, Kazunori; to Tamagawa Kikai Kinzoku Kabushiki Kaisha. Spring biased ball valve with rotating device. 3,742,975, 7-3-73, Cl. 137-331.000.

Kazama, Toshio; and Seki, Kazunori, to Tamagawa Kikai Kinzoku Kabushiki Kaisha. Oil-diaphragm slurry pump. 3,743,444, 7-3-73, Cl. 417-92.000.

Kazama, Toshio; and Sek, Kazunori, to Tamagawa Kikai Kinzoku Kabushiki Kaisha. Prevention of infiltration of gas bubbles into slurry pump. 3,749,522, 7-31-73, Cl. 417-54.000.

Kazan, Benjamin, to International Business Machines Corporation. Self-scanning plasma display device with phosphor screen. 3,725,731, 4-3-73, Cl. 315-169.00r.

Kazan, Benjamin, to International Business Machines Corporation. Dark trace storage tube system. 3,736,461, 5-29-73, Cl. 315-12.000.

Kazan, Benjamin, to International Business Machines Corporation. Interactive-display storage cathode ray tube. 3,774,066, 11-20-73, Cl. 315-10.000.

Kazan, Benjamin, to International Business Machines Corporation. Field-effect storage tube with EAS-discharge output. 3,780,337, 12-18-73, Cl. 315-12.000.

Kazan, John, to American Cyanamid Company. Production of D, D-2, 2-(ethylenediimino) di-1-butanol hydrochloride. 3,769,347, 10-30-73, Cl. 260-584.00r.

Kazan, John, Jr., to American Cyanamid Company. Heterocyclic quaternary ammonium compounds. 3,763,151, 10-2-73, Cl. 260-240.00g.

Kazansky, Vasily Leonidovich: *See—*
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Kazaoka, Kenichi; and Torii, Nozomu, to Aisin Seiki Kabushiki Kaisha. Door locking device. 3,709,537, 1-9-73, Cl. 292-216.000.

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Kazmarek, Edward: *See—*
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Keady, Frederick D.; and Silagy, Richard J., to Weatherhead Company, The. Brake warning switch. 3,712,683, 1-23-73, Cl. 303-6.00c.

Keady, Frederick D., to Weatherhead Company, The. Emergency bypass for brake pressure control. 3,727,989, 4-17-73, Cl. 303-6.00c.

Keafer, Lloyd S., Jr.; Burcher, Ernest E.; and Kopia, Leonard P., to United States of America, National Aeronautics and Space Administration. Transmitting and reflecting diffuser. 3,779,788, 12-18-73, Cl. 117-33.300.

Keagle, Charles; Waggoner, Alan; and Phillips, Peter. Electronic sound synthesizer. 3,708,603, 1-2-73, Cl. 84-1.110.

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Kear, Bernard H.; and Sink, Larry W., to United Aircraft Corporation. Method of making double-oriented single crystal castings. 3,738,416, 6-12-73, Cl. 164-60.000.

Kearen, Cornelis H. J.; Krak, Hans; and Jeanno, Francis, to Shell Oil Company. Epoxy-imidazole adducts as curing agents for epoxy resins. 3,756,984, 9-4-73, Cl. 260-47.0ec.

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Kearney, Stuart D., II; and Richardson, Walter, to United States of America, Navy. Rod television-guided drone to perform reconnaissance and ordnance delivery. 3,778,007, 12-11-73, Cl. 244-3.140.

Kearney, Thomas J.; and Bieber, George F., to Detrex Chemical Industries, Inc. Method for drying metal parts. 3,733,710, 5-22-73, Cl. 34-9.000.

Kearns, Robert W. Structure for and method of surface condition sensing and indicating and motor speed control. 3,721,115, 3-20-73, Cl. 73-9.000.

Kearns, Robert W. Windshield wiper control. 3,728,603, 4-17-73, Cl. 318-443.000.

Kearns, Robert W., to Tann Co. Motor speed control. 3,737,750, 6-5-73, Cl. 318-443.000.

Kearns, Robert W. Intermittent windshield wiper system with electrodynamic braking. 3,774,091, 11-20-73, Cl. 318-dig.200.

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Keating, Esmond J.; Haydel, Chester H.; and Knoepfler, Nestor B., to United States of America, Agriculture. Vapor-phase reaction apparatus for treating cellulosic textile materials and garments. 3,709,005, 1-9-73, Cl. 68-6.000.

Keating, Esmond J., to United States of America, Agriculture. Process for refining glyceride oils and fats. 3,746,731, 7-17-73, Cl. 260-426.000.

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Keces, Mervyn L., to Tarrson Company. Ice cream cone sand toy. 3,736,697, 6-5-73, Cl. 46-17.000.

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Keck, Donald B.; and Maurer, Robert D., to Corning Glass Works. Method of forming optical waveguide fibers. 3,775,075, 11-27-73, Cl. 65-3.000.

Keck, Jerry L.; and Rowley, James Robert, to Ludlow Corporation. Fracturable adhesive backing. 3,719,548, 3-6-73, Cl. 161-117.000.

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Kee, David Montgomery, to Micromatic Systems Limited. Microwave heating apparatus. 3,780,251, 12-18-73, Cl. 219-10.550.

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Keefe, Jack D., to Monarch Marking Systems, Inc. Ultra-high molecular weight polyolefin optical reader tip. 3,781,555, 12-25-73, Cl. 250-227.00r.

Keefe, John N. Jamb dead bolt plate. 3,767,245, 10-23-73, Cl. 292-340.000.

Keefer, George E.; and Pei, Yu K., to Owens-Illinois, Inc. Glass tube forming apparatus and method. 3,754,883, 8-28-73, Cl. 65-88.000.

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Keeler, Frederick D.; Ellis, Carleton, Jr.; and Miller, John C., to KLM Company, The. Thermoformed closures which are sealed to containers by the use of sonic energy and the method of sealing the same. 3,773,205, 11-20-73, Cl. 215-42.000.

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Keeleric, George Friis. Method of making metal bonded abrasives by electroless deposition. 3,762,895, 10-2-73, Cl. 51-309.000.

Keeley, Gordon, to Lucas, Joseph, (Industries) Limited. Distributor housing and plate assembly with rotatable clamping means. 3,715,531, 2-6-73, Cl. 200-19.00r.

Keely, Richard Thomas, to Burroughs, J. P., & Son, Inc. Apparatus and method for hydrokinetally cooking legumes. 3,719,502, 3-6-73, Cl. 99-98.000.

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Keen, Rodway W. Pet watering apparatus. 3,759,228, 9-18-73, Cl. 119-79.000.

Keenan, Charles E.; and Power, William A., to Ametek Inc. Torque to electrical current transducer. 3,745,821, 7-17-73, Cl. 73-141.00r.

Keenan, James J., to General Electric Company. High power vacuum fuse apparatus. 3,727,092, 4-10-73, Cl. 313-233.000.

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Keenan, William A.; Poponiak, Michael R.; and Yeh, Tsu-Hsing, to International Business Machines Corporation. Apparatus and method for detection of internal semiconductor inclusions. 3,767,304, 10-23-73, Cl. 356-51.000.

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Keene, William A., to Phillips Petroleum Company. Sampling apparatus. 3,750,478, 8-7-73, Cl. 73-423.00r.

Keener, Everett L.: *See—*
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Keener, Richard N., to American Seating Company. Segmental multi-unit study table. 3,741,852, 6-26-73, Cl. 161-37.000.

Keener, Ronald L.; and Raterink, Harry R., to Rohm & Haas Company. Preparation of 3,3'-polythiodipropionic acids and their derivatives. 3,769,315, 10-30-73, Cl. 260-465.800.

Keeney, Bill R.; and Johnson, Joe W., Jr., to Halliburton Company. Inhibited treating acid. 3,773,465, 11-20-73, Cl. 21-2.70r.

Keeney, Billy R., to Halliburton Company. Method for detecting corrosion inhibitor in aqueous acid solutions. 3,711,249, 1-16-73, Cl. 23-230.00r.

Keeney, Cecil M., to Equitable Equipment Company, Inc. Multicargo barge. 3,759,208, 9-18-73, Cl. 114-73.000.

Keeney, Marvin F., Jr., to General Electric Company. Cosinusoidal pulse generator with integrator stage. 3,757,230, 9-4-73, Cl. 328-28.000.

Keenon, Timothy R., to Ford Motor Company. Control means for carburetor automatic choke. 3,730,498, 5-1-73, Cl. 261-39.00b.

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Kefalas, John H., to Honeywell Information Systems, Inc. Magnetic device for domain wall propagation. 3,711,838, 1-16-73, Cl. 340-174.0tf.

Kefalas, John H.; and Loycano, Joseph A., to Honeywell Inc. Plated super-coat and electrolyte. 3,715,793, 2-13-73, Cl. 29-194.000.

Kefalas, John H.; and Lukianov, Roman E., to Honeywell Inc. Memory element and configuration. 3,725,882, 4-3-73, Cl. 340-174.00m.

Kefeli, Tamara Yakovlevna: *See—*
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Kegler, Cyril L., to Bishop Buffets, Inc. Conveyor system for trays. 3,720,302, 3-13-73, Cl. 198-127.000.

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Kehl, Lawrence Joseph; Triner, Irvin Richard; and Janis, Robert Gerald, to Bunker-Ramo Corporation, The. Detachable electrical heating griddle. 3,760,156, 9-18-73, Cl. 219-447.000.

Kehl, William L.; and Rennard, Raymond J., Jr., to Gulf Research & Development Company. Hydrolysis of aryl halides with a rare earth metal phosphate. 3,752,878, 8-14-73, Cl. 423-263.000.

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Kehoe, Edward C.; deceased (by Kehoe, Jean West; executrix), to Johns-Manville Products Corporation. Internal pressure precoat filter. 3,739,915, 6-19-73, Cl. 210-394.000.

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Kehoe, James M. Incinerator. 3,714,912, 2-6-73, Cl. 110-8.00a.

Kehoe, Jean West: *See—*
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Kehoe, Lawrence J.; and Schell, Raymond A., to Ethyl Corporation. Preparation of carboxylic acids. 3,718,676, 2-27-73, Cl. 260-413.000.

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Kehr, Clifton L.; and Wszolek, Walter R., to Grace, W. R., & Co. Chemically curable liquid polyene-polythiol polymer composition. 3,714,290, 1-30-73, Cl. 260-858.000.

Kehr, Clifton L.; and Wszolek, Walter R., to Grace, W. R., & Co. High energy curable liquid polyene-polythiol polymer composition. 3,725,228, 4-3-73, Cl. 204-159.140.

Kehr, Clifton L.; and Wszolek, Walter R., to Grace, W. R., & Co. High energy curable liquid polyene-polythiol polymer composition. 3,725,229, 4-3-73, Cl. 204-159.140.

Kehr, Clifton L.; and Wszolek, Walter R., to Grace, W. R. & Co. High energy curable liquid polyene-polythiol polymer composition. 3,729,403, 4-24-73, Cl. 204-159.140.

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Keich, John D.; and Laliberte, George A., to United States of America, Navy. Releasable coupling. 3,781,055, 12-25-73, Cl. 294-83.00a.

Keienburg, Heinz; and Jansen, Wilhelm, to Klockner-Humboldt-Deutz Aktiengesellschaft. Change gear transmission for motor vehicles. 3,744,345, 7-10-73, Cl. 74-745.000.

Keifer, John N., to Indiana Metal Treating, Inc. Process for repairing worn and deformed railway frogs. 3,708,856, 1-9-73, Cl. 29-401.000.

Keig, George A.; Smith, James C.; and Watts, John M. J., to Union Carbide Corporation. Asteriated synthetic corundum gem stones. 3,725,092, 4-3-73, Cl. 106-42.000.

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Keilmann, Philipp; and Gaertner, Helmut, to Brown Boveri & Company Limited. Weather-protected electric machine with axially circulating ventilation. 3,739,207, 6-12-73, Cl. 310-59.000.

Keim, Gerald I., to Hercules Incorporated. Reaction products of epihalohydrin and polymers of diallylamine and their use in paper. 3,772,076, 11-13-73, Cl. 117-155.00r.

Keim, Siegfried; and Schmid, Eckart, to Siemens Aktiengesellschaft. Arrangement for wide band coupling of a coaxial line to a hollow conductor. 3,764,942, 10-9-73, Cl. 333-33.000.

Keim, Walter, to Grosse Webereimaschinen GmbH, Firma. Reversible jacquard loom and reversing mechanism therefor. 3,732,895, 5-15-73, Cl. 139-1.00e.

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Keinath, Hans; Kroger, Klaus; and Lauerbach-Lehmeier, Robert, to Zimmer Aktiengesellschaft. Apparatus for disagglomerating material. 3,735,959, 5-29-73, Cl. 259-7.000.

Keiner, Heinz; Kessler, Arthur; and Schafer, William, to Leitz, Ernst, G.m.b.H. Automatic lap dissolve for motion picture cameras. 3,712,721, 1-23-73, Cl. 352-91.000.

Keiner, Heinz; Richter, Helmut; Schafer, Wilhelm; and Goldberg, Willi, to Leitz, Ernst, G.m.b.H. Film cartridge. 3,756,534, 9-40-73, Cl. 242-194.000.

Keiot, Jules. Spinning wheel. 3,776,055, 12-4-73, Cl. 74-242.150.

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Keir, Robin S., to United States of America, Navy. Water sampling device. 3,714,830, 2-6-73, Cl. 73-425.40r.

Keis, Heinz; and Veeh, Karl, to Glaswerk Schuller GmbH. Method and apparatus for inserting vitreous fibrous material into liquid bath in web forming system. 3,758,375, 9-11-73, Cl. 162-156.000.

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Keister, Douglas W.; and Leibfreid, Russel B. Emergency warning system. 3,760,349, 9-18-73, Cl. 340-33.000.

Keister, Frank Z.; and Rust, John B., to United States of America, Navy. Pyrotechnic eradication of microcircuits. 3,725,671, 4-3-73, Cl. 307-202.000.
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Keiter, Marlin Edward, Jr., to Showell Poultry, Inc. Apparatus and method for separating hearts and livers from a mixture thereof. 3,757,945, 9-11-73, Cl. 209-114.000.
Keith, Carl D.; Kaley, Alfred J., Jr.; and Kero, Robert M., to Engelhard Minerals & Chemicals Corporation. Electrolytic anode. 3,755,107, 8-28-73, Cl. 204-98.000.
Keith, Charles David. Flying device. 3,742,643, 7-3-73, Cl. 46-74.00d.
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Keith, Earl G.; and Keith, Clarence E. Interleaving paper feeders. 3,739,671, 6-19-73, Cl. 83-230.000.
Keith, Ernest A.; and Keith, David E., to Corp. (Ltd.). Vehicle anti-theft tilt alarm system. 3,772,646, 11-13-73, Cl. 340-65.000.
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Kelbaugh, Burton N.; Picciolo, Grace L.; Chappelle, Emmett W.; and Colburn, Maurice E., to United States of America, National Aeronautics and Space Administration. Automatic instrument for chemical processing to detect micro-organisms in biological samplesby measuring light reactions. 3,756,920, 9-4-73, Cl. 195-127.000.
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Kelby, Edward, Jr.; and Wallskog, Alan G., to Teletype Corporation. Rotary and linear magnetomotive positioning mechanism. 3,745,433, 7-10-73, Cl. 318-115.000.
Kelch, David J.; Kraus, Walter R.; and Clark, Jack D., to Mead Corporation, The. Process controller. 3,770,608, 11-6-73, Cl. 204-195.00m.
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Kelch, Heinz; Krickl, Josef; Schuh, Eduard; and Spauszus, Siegfried, to Kienzle Apparate GmbH. Instrument for automatically making evaluations from recording charts. 3,716,700, 2-13-73, Cl. 235-61.60a.
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Keldmann, Erik; and Johansen, Geni G., to Bristol-Myers Company. Hairsetting apparatus having applicator means for moistening the surface of the hair roller. 3,739,787, 6-19-73, Cl. 132-9.000.
Keldmann, Erik, to Bristol-Myers Company. Hair curlers. 3,739,788, 6-19-73, Cl. 132-33.00r.
Keledy, Francis C.; and Notvest, Kenneth R., to Trodyne Corporation. Acoustic emission crack monitor. 3,713,127, 1-23-73, Cl. 340-261.000.
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Kell, Nathaniel B., to General Motors Corporation. Directional shift inhibitor. 3,757,822, 9-11-73, Cl. 137-625.610.
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Kell, Ray D., to RCA Corporation. Luminescent screen comprising phosphor cores luminescent in first color and phosphor coatings luminescent in second color. 3,714,490, 1-30-73, Cl. 313-92.00r.
Kell, Robert Christopher, to General Electric Company, Limited, The. Microwave devices. 3,713,051, 1-23-73, Cl. 333-73.00r.
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Keller, Anthony T. Anti-jackknifing assembly. 3,733,090, 5-15-73, Cl. 280-432.000.
Keller, Anthony T. Fixture for holding two bellows members together for the welding thereof. 3,764,127, 10-9-73, Cl. 269-287.000.
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Keller, Darryl E.; and Monson, Donald R., to Donaldson Company, Inc. Centrifugal air cleaner with static charge dissipating structure. 3,713,280, 1-30-73, Cl. 55-360.000.
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Keller, Hans; and Sauer, Wolfgang, to ITT Industries, Inc. Cross-coupled complementary transistor circuit for single coil electro-mechanical oscillator. 3,742,385, 6-26-73, Cl. 331-116.00m.
Keller, Hans; and Knop, Hans-Georg. Method for obtaining electronic color correction signals. 3,758,707, 9-11-73, Cl. 178-5.20a.
Keller, Hans; and Kreitz, Walter, to ITT Industries, Inc. Electronic circuit for a crystal watch. 3,775,697, 11-27-73, Cl. 331-74.000.
Keller, Hans W., to Honeywell Inc. Method for batch fabricating semiconductor devices. 3,757,414, 9-11-73, Cl. 29-580.000.
Keller, Heinrich: *See—*
Kaufhold, Norbert; Konig, Klaus; Keller, Heinrich; De Graaf, Jan G.; Blankenzee, Johan; Bakker, Hans; and Plettenburg, Carolus, 3,727,862.
Keller, Helmut; and Gschwendiner, Horst, to Bosch, Robert, G.m.b.H. Switching arrangement responsive to electrical charge. 3,727,074, 4-10-73, Cl. 307-125.000.
Keller, J, and A, Machine Co., Inc.: *See—*
Holler, James A.; and Waeldchen, Eric F., 3,774,834.
Keller, Jack: *See—*
Tibbals, Edward Camp, Jr.; and Keller, Jack, 3,767,119.
Keller, Jake B.: *See—*
Harper, William H.; Peace, Charles R.; and Keller, Jake B., 3,730,396.
Keller, James P.; Prentice, James S.; and Harding, John W., to Esso Research and Engineering Company. Process for producing melt blown nonwoven synthetic polymer mat having high tear resistance. 3,755,527, 8-28-73, Cl. 264-210.00f.
Keller, John E.; Hochman, Jack M.; and Foster, James Q., to Esso Research and Engineering Company. Coal liquefaction using high and low boiling solvents. 3,726,785, 4-10-73, Cl. 208-8.000.
Keller, John M. Control apparatus for selectively illuminating a group of lamps. 3,778,676, 12-11-73, Cl. 315-217.000.
Keller, Joseph D., to Martin Marietta Corporation. Component side printed circuit soldering. 3,726,007, 4-10-73, Cl. 29-626.000.
Keller, Joseph R.: *See—*
Wachter, Vincent C.; Keller, Joseph R.; and Fellman, Frederick J., 3,746,408.
Keller, Joseph R., to MPB Corporation. Self-aligning bearing assembly. 3,754,802, 8-28-73, Cl. 308-72.000.
Keller, Juergen H. H.; and Sprague, Robert H., to Itek Corporation. Free radical direct positive photocopy process. 3,764,319, 10-9-73, Cl. 96-3.000.
Keller, Kalus. Method of treating workpieces in a glow discharge. 3,730,863, 5-1-73, Cl. 204-164.000.
Keller, Karl H.: *See—*
Petrisko, Edwin M.; and Keller, Karl H., 3,777,555.
Keller, Karlheinz: *See—*
Wegmuller, Hans; and Keller, Karlheinz, 3,713,768.
Keller, Klaus. Method of hardening the surface of workpieces made of iron and steel. 3,761,370, 9-25-73, Cl. 204-164.000.
Keller, Leo. Method of and apparatus for controlling lithographic printing. 3,741,115, 6-26-73, Cl. 101-148.000.
Keller, Leonard J.: *See—*
Minto, Wallace L.; and Keller, Leonard J., 3,750,393.
Keller, Leonard J., to Keller Corporation, The. Rotary vane device. 3,748,068, 7-24-73, Cl. 418-137.000.
Keller, Melvin R.: *See—*
Von Ohain, Hans J. P.; and Keller, Melvin R., 3,711,370.
Von Ohain, Hans J. P.; and Keller, Melvin R., 3,713,970.
Keller Ofenbau GmbH: *See—*
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Keller, Otto: *See—*
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Keller, Paul: *See—*
Meloni, Mario; and Keller, Paul, 3,731,799.
Keller, Penny C.: *See—*
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Keller, Peter H.; and Foskett, Roger D., to Syntex Corporation. Colorimeter probe. 3,740,155, 6-19-73, Cl. 356-188.000.
Keller, Philip Joseph: *See—*
Hammer, Clarence Frederick; and Keller, Philip Joseph, 3,711,435.
Keller, Rene, to Emhart Corporation S.A. Apparatus for electronically squaring and summing projections of a vector for inspecting articles on a conveyor. 3,754,123, 8-21-73, Cl. 235-151.300.
Keller, Richard C.: *See—*
Doyle, Michael A.; Cree, Roger W.; and Keller, Richard C., 3,757,530.
Keller, Richard E.: *See—*
Augenblick, Harry A.; Eastman, Lester F.; and Keller, Richard E., 3,733,551.
Keller, Robert A.: *See—*
Mitchner, Joseph L.; Keller, Robert A.; and Graham, Clyde B., 3,774,899.
Keller, Robert Franklin: *See—*
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Keller, Robert H., to Owens-Illinois, Inc. Funnel air mounted mold lubrication apparatus. 3,721,542, 3-20-73, Cl. 65-169.000.
Keller, Sherman R.: *See—*
Blair, George R.; and Keller, Sherman R., 3,751,352.
Keller, Siegfried, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Automatic load dependent compressed air brake system. 3,727,994, 4-17-73, Cl. 303-23.000.
Keller, Thomas A.: *See—*
Lloyd, Raymond A.; Arle, Emil D.; Keller, Thomas A.; and Martinez, Robert, 3,733,587.
Keller, Toni, to Spectrospin AG. Finely stabilizing the magnetic field of a magnetic nuclear resonance device. 3,714,553, 1-30-73, Cl. 324-.50r.
Keller, Toni, to Spectrospin A.G. Method and apparatus for reducing interference in a spin resonance spectrometer by subtracting interferograms having 180° phase separation. 3,781,650, 12-25-73, Cl. 324-.50r.
Keller, Toni W.; Laukien, Gunther R.; and Tschopp, Werner H., to Spectrospin AG. Method for fourier analysis of interference signals. 3,720,816, 3-13-73, Cl. 235-151.300.
Keller, Toni W.; and Tschopp, Werner H., to Spectrospin AG. Apparatus for varying the strength of a stabilized magnetic field. 3,769,554, 10-30-73, Cl. 317-123.000.
Keller, Walter: *See—*
Loepfe, Erich; Keller, Walter; and Zweifel, Karl, 3,723,933.



Kellerman, Robert Lee, to Kellerman Company, The. Method of and apparatus for making a fabric. 3,722,560, 3-27-73, Cl. 139-11.000.
Kellerman Company, The: *See—*
Kellerman, Robert Lee, 3,722,560.
Kellermann, Bernhard; and Kellermann, Hans, to Kellermann KG. Device for the automatic control of the flow of liquid in a pipe. 3,722,538, 3-27-73, Cl. 137-624.180.
Kellermann, Hans: *See—*
Kellermann, Bernhard; and Kellermann, Hans, 3,722,538.
Kellermann KG: *See—*
Kellermann, Bernhard; and Kellermann, Hans, 3,722,538.
Kellerman, Robert Lee, to Kellerman Company, The. Method of and apparatus for making a fabric. 3,722,560, 3-27-73, Cl. 139-11.000.
Kellett, Alan Thomas, to Kellett Autogyro Corporation. Rotary wing aircraft. 3,734,433, 5-22-73, Cl. 244-17.190.
Kellett Autogyro Corporation: *See—*
Kellett, Alan Thomas, 3,734,433.
Kelley, Arthur Lee, to Kelley Company, Inc., The. Method of and apparatus for making a fabric. 3,722,560, 3-27-73, Cl. 139-11.000.
Kelley, Bernard J., Jr.: *See—*
Kelley, Bernard J., Jr.; and Kelley, Bernard J., Sr., 3,722,560.
Kelley, Bernard J., Sr.: *See—*
Kelley, Bernard J., Jr.; and Kelley, Bernard J., Sr., 3,722,560.
Kelley, Bernard J., Sr.; and Kelley, Bernard J., Jr., to Kelley Company, Inc., The. Method of and apparatus for making a fabric. 3,722,560, 3-27-73, Cl. 139-11.000

Keller, Wilbur Stanley, to Dresser Industries, Inc. Pressure equalizing system for rock bits. 3,735,825, 5-29-73, Cl. 175-228.000.
Keller, Wolfgang: *See—*
Reuschel, Konrad; Kersting, Arno; and Keller, Wolfgang, 3,751,539.
Stut, Hans; and Keller, Wolfgang, 3,769,484.
Keller, Wolfgang, to Siemens Aktiengesellschaft. Method and apparatus for the production of hollow members of any length of semiconductor material. 3,748,169, 7-24-73, Cl. 117-106.00a.
Keller, Wolfgang; Kersting, Arno; and Reuschel, Konrad, to Siemens Aktiengesellschaft. Apparatus for precipitating a layer of semiconductor material from a gaseous compound of the semiconductor material. 3,781,152, 12-25-73, Cl. 425-174.80r.
Keller-Dee Research and Development Corporation: *See—*
Keller, Daniel Franklin, 3,757,527.
Keller-Volper, Ernest. Cylinder lock. 3,735,614, 5-29-73, Cl. 70-377.000.
Kellermann, Konrad-Johann, to Siemens Aktiengesellschaft. Regulating circuit arrangement for controlling the amplification of an amplifier. 3,729,686, 4-24-73, Cl. 330-29.000.
Kellermann, Walter Maria Eduard: *See—*
Cooke, William Ernest; Cote, Jacques Francois; Innes, Robert Arthur; Spooner, Roy Cowieson; and Kellermann, Walter Maria Eduard, 3,718,547.
Kellermeyer, Christian. Circuit arrangement with door lock switch. 3,740,573, 6-19-73, Cl. 307-116.000.
Kellert, Paul H. Cement spray gun. 3,708,124, 1-2-73, Cl. 239-426.000.
Kellett, Eric, to C.A.V. Limited. Hot gas generator employing rotary turbine. 3,740,948, 6-26-73, Cl. 60-261.000.
Kelley, Archibald P.; Norman, Leslie W.; and Thompson, Walter H., Jr., to Garrett Corporation, The. Hypersonic aircraft engine and fuel injection system therefor. 3,727,409, 4-17-73, Cl. 60-270.000.
Kelley, Archie P., to McPherson, David L. Engine over-temperature warning system. 3,775,745, 11-27-73, Cl. 340-57.000.
Kelley, Arnold E.; Reeg, Cloyd P.; Wood, Frederick C.; and Cheadle, George D., to Union Oil Company of California. Gasoline manufacture by hydrofining, hydrocracking and catalytic cracking of heavy feedstock. 3,728,251, 4-17-73, Cl. 208-89.000.
Kelley, Calvin E.: *See—*
Cramer, Fred C.; and Kelley, Calvin E., 3,765,579.
Kelley, Carl S.; and Thorn, Frank H., to Phillips Petroleum Company. Separation of gases. 3,729,944, 5-1-73, Cl. 62-39.000.
Kelley, Charles F., to Budwine, W. J. Apparatus for removing pollutants from gaseous effluent. 3,763,012, 10-2-73, Cl. 202-93.000.
Kelley, Donald W.; White, James F., Jr.; Winslow, Ronald B.; and Coppock, Charles L., to Thuron Industries, Inc. Method of producing extruded thermoset polyurethanes. 3,776,877, 12-4-73, Cl. 260-31.80m.
Kelley, Douglas M., to Euclid, Inc. Rear dumping vehicle. 3,720,446, 3-13-73, Cl. 298-22.00r.
Kelley, Edward Thomas. Support for leg during knee surgery. 3,753,557, 8-21-73, Cl. 269-328.000.
Kelley, Elmer G. Free fulcrumed lever action for the cutting wheel pipe cutter. 3,715,804, 2-13-73, Cl. 30-102.000.
Kelley, Fred W., Jr.; Mishkovsky, Victor; and Singletary, William R., to General Electric Company. Bi-polarity potential transformer for measuring D-C voltage. 3,714,544, 1-30-73, Cl. 323-6.000.
Kelley, Fred W., Jr., to General Electric Company. Electric power apparatus comprising converter, LC filter, and voltage regulator arranged for highly accurate and stable response. 3,728,609, 4-17-73, Cl. 321-10.000.
Kelley, George P. Nut harvester. 3,733,797, 5-22-73, Cl. 56-328.00r.
Kelley, James C.: *See—*
Parish, William R.; Kelley, James C.; Giovanetti, Albert; and Lutz, William A., 3,758,674.
Kelley, James K.: *See—*
Mashikian, Matthew S.; Kelley, James K.; and McMurray, William C., 3,770,877.
Kelley, James O.: *See—*
Propst, Robert L.; and Kelley, James O., 3,712,698.
Propst, Robert L.; and Kelley, James O., 3,716,282.
Propst, Robert L.; and Kelley, James O., 3,734,526.
Propst, Robert L.; and Kelley, James O., 3,752,547.
Kelley, James O.; and Propst, Robert L., to Miller, Herman, Inc. Locker. 3,712,697, 1-23-73, Cl. 312-297.000.
Kelley, Jerry O., to Arvin Industries, Inc. Finger between flexible disc and backing plate. 3,731,292, 5-1-73, Cl. 340-174.10e.
Kelley, Jerry O., to Arvin Industries, Inc. Flexible disc with air intake in turntable. 3,737,880, 6-5-73, Cl. 340-174.10e.
Kelley, Karen A. Decision making board game apparatus. 3,737,167, 6-5-73, Cl. 273-134.00c.
Kelley, Leon O. Ripper plow assembly for converting parallel lift to radial lift. 3,738,432, 6-12-73, Cl. 172-248.000.
Kelley, Leon O. Variable ripper plow shank assembly. 3,752,239, 8-14-73, Cl. 172-699.000.
Kelley, Leon O. Plow having a reciprocating blade attachment. 3,777,500, 12-11-73, Cl. 61-72.600.
Kelley, Louis E., to Rohm & Haas Company. Bonded non-woven fabric. 3,776,810, 12-4-73, Cl. 161-170.000.
Kelley Manufacturing Company: *See—*
Whitesides, Jack C., 3,766,988.
Whitfield, Carroll J., 3,734,194.
Kelley, Nancy J.: *See—*
Davis, James W.; Umina, Anthony P.; and Kelley, Nancy J., 3,718,483.
Kelley, Oliver K., to General Motors Corporation. Compound planetary gearing. 3,721,135, 3-20-73, Cl. 74-761.000.
Kelley, Oliver K., to General Motors Corporation. Method of making compound pinion gear. 3,777,615, 12-11-73, Cl. 90-10.000.
Kelley, Paul L.; Fisher, Robert Alan; and Gustafson, T. Kenneth, to Massachusetts Institute of Technology. Method and apparatus for compression of optical laser pulses. 3,720,884, 3-13-73, Cl. 331-94.500.
Kelley, Philip C., to Goodrich, B. F., Company, The. Rubber-resin network blends and method of making same. 3,760,035, 9-18-73, Cl. 260-876.00r.
Kelley, Philip C., to Goodrich, B. F., Company, The. High impact vinyl chloride resin formulations of improved clarity method of making same. 3,763,279, 10-2-73, Cl. 260-884.000.
Kelley, Richard B.: *See—*
Rose, Clark B.; Kelley, Richard B.; and Ravitts, Richard B., 3,771,724.
Kelley, Robert: *See—*
Bayer, Carl, Jr.; and Kelley, Robert, 3,733,467.
Kelley, Thomas F.: *See—*
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Rosse, Thomas A.; Blackmer, David E.; Zindler, Jerrold; and Kelley, Thomas F., 3,775,595.
Kelley, Wilfred H., Jr., to White Farm Equipment Company. Lift truck mast. 3,768,595, 10-30-73, Cl. 187-9.000.
Kelli, John W. Fish-on-line signaling device. 3,744,172, 7-10-73, Cl. 43-17.000.
Kelling, Geoffrey Philip: *See—*
Hill, Joseph Henry; Kelling, Geoffrey Philip; and Spikes, Roger Hugh, 3,713,714.
Kelling, Leroy U. C., to General Electric Company. Numerical conversion apparatus for interferometer position transducer. 3,708,657, 1-2-73, Cl. 235-156.000.
Kelling, Leroy U. C., to General Electric Company. Division with pulse width modulation. 3,711,783, 1-16-73, Cl. 330-86.000.
Kelling, Leroy U. C., to General Electric Company. Method for the selective multiplication and division of a pulse train and a multiply/divide circuit therefor. 3,729,623, 4-24-73, Cl. 235-151.110.
Kellis, Warren D.; and Wilson, Elmer B., to Alsco Anaconda, Inc., mesne. Gutter with protective coating. 3,726,051, 4-10-73, Cl. 52-11.000.
Kellmann, Erik; and Krohn, Rasmus, to Bristol-Myers Company. Hairsetting apparatus having means for moistening the surface of the hair rollers. 3,749,106, 7-31-73, Cl. 132-33.000.
Kellner, Hans-Jurgen: *See—*
Hennig, Fridolin; Kellner, Hans-Jurgen; Potz, Klaus; and Gotze, Christian, 3,715,261.
Kellogg Company: *See—*
Basso, Jude A.; Fulger, Charles V.; and Thompson, Joseph J., 3,736,150.
Basso, Jude A.; Lemaire, Normand A.; and Fulger, Charles V., 3,737,326.
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Kellogg, Frank: *See—*
Czarnecki, Stephen J.; Evers, Harry G.; Kellogg, Frank; Newcum, William W.; Vogel, Richard F.; and Woodward, John W., 3,760,117.
Kellogg, Frank, to GTE Automatic Electric Laboratories, Incorporated. Crosspoint switch allotter release detection circuit. 3,760,119, 9-18-73, Cl. 179-18.0ge.
Kellogg, James R., to Tektronix, Inc. Jitter-free trigger control circuit. 3,725,792, 4-3-73, Cl. 328-60.000.
Kellogg, Robert M.: *See—*
Jones, Alan L.; Judson, George T.; Kellogg, Robert M.; and Kruger, Victor R., 3,737,096.
Kellogg-America, Inc.: *See—*
Bloxham, Alden T.; and Fischer, Harry C., 3,734,174.
Kellwood Company: *See—*
Conner, William R., Jr., 3,771,477.
Evans, Homer; and Cole, William R., Jr., 3,716,933.
Stringer, Myron Scott; Smith, Daniel W.; Mac Ivergan, Robert G.; and Eldenbaum, Robert W., 3,750,916.
Kelly, Austin T., to Weston Instruments, Inc. Dual-slope analog-to-digital converter wherein two analog input signals are selectively integrated with respect to time. 3,710,374, 1-9-73, Cl. 340-347.0nt.
Kelly, Austin T., to Weston Instruments, Inc. Digital ohmmeter circuit. 3,711,850, 1-16-73, Cl. 340-347.0nt.
Kelly, Calvin E.: *See—*
Hall, Marchand B.; Handler, Irving; and Kelly, Calvin E., 3,714,856.
Kelly, Calvin E., to United States Steel Corporation. Apparatus for printing and dispensing labels. 3,715,262, 2-6-73, Cl. 156-541.000.



Kelly, Charles A.; and Pacifici, James G., to Eastman Kodak Company. 4,4-Bis(alkoxycarbonyl)benzoin ethers. 3,728,377, 4-17-73, Cl. 260-473.00r.
Kelly, Charles R.: *See—*
Opal, Kenneth E.; Kelly, Charles R.; and Newcamp, Charles W., 3,723,840.
Opal, Kenneth E.; and Kelly, Charles R., 3,753,155.
Kelly, Charles Whippel: *See—*
Meysenburg, Raymond Richard; Recker, Robert James; Wetrich, Peter Donald; Kelly, Charles Whippel; Hertzog, William Frederick; and Conner, James Mervyn, 3,774,475.
Kelly, Dale E.; and Gerdes, Charles W., Jr., to Phillips Petroleum Company. Vulcanizable blend of a polyacrylate with a butadiene polymer. 3,737,482, 6-5-73, Cl. 260-876.00b.
Kelly, Donald A. Closed cycle rotary engine system. 3,744,245, 7-10-73, Cl. 60-95.000.
Kelly, Donald A. Variable speed vapor turbine. 3,761,197, 9-25-73, Cl. 415-159.000.
Kelly, Earl L.: *See—*
Walter, Robert L.; and Kelly, Earl L., 3,734,073.
Kelly, Edward. Control apparatus for fuel pumps. 3,723,826, 3-27-73, Cl. 317-135.00r.
Kelly, Fred H.: *See—*
Sawyer, Elbert M.; and Kelly, Fred H., 3,714,450.
Kelly, Gerald C. Wheel toy. 3,738,052, 6-12-73, Cl. 46-51.000.
Kelly, Gilbert H.; and Coburn, Herbert D., to Texas Instruments, Incorporated. Gas cushion control for seismic gas explorer. 3,715,007, 2-6-73, Cl. 181-.5nc.
Kelly, Glenn P.: *See—*
Hoover, Donald R.; and Kelly, Glenn P., 3,717,192.
Kelly, James J. Dental cleaning apparatus. 3,731,675, 5-8-73, Cl. 128-62.00a.
Kelly, James Michael, to Bell Telephone Laboratories, Incorporated. Adaptive predictive speech signal coding system. 3,715,512, 2-6-73, Cl. 179-1.0sa.
Kelly, James O.: *See—*
Propst, Robert L.; and Kelly, James O., 3,768,116.
Kelly, Jerome, to North American Manufacturing, Inc. Electrical connector using plastic clamp. 3,757,283, 9-4-73, Cl. 339-250.000.
Kelly, John G., to United States of America, Atomic Energy Commission. Electron beam generator. 3,760,286, 9-18-73, Cl. 328-228.000.
Kelly, John H.: *See—*
Puckett, William R.; Kelly, John H.; Overall, Robert E.; and De Haye, John J., 3,760,589.
Kelly, John, Jr., to Mobil Oil Corporation. Method of controlling lost circulation. 3,724,565, 4-3-73, Cl. 175-72.000.
Kelly, John L.: *See—*
Hekimian, Norris C.; and Kelly, John L., 3,711,773.
Kelly, Joseph. Film projection with cleaning attachment. 3,778,139, 12-11-73, Cl. 352-130.000.
Kelly, Joseph B., to PPG Industries, Inc. Method of drilling glass. 3,710,516, 1-16-73, Cl. 51-283.000.
Kelly, Joseph D.: *See—*
Stilley, George W.; Wagner, William E.; and Kelly, Joseph D., 3,713,798.
Kelly, Kenneth K.; and Matthews, Joseph S., to Gulf Research & Development Company. Reaction of ketoximes with carboxylic acid amide-sulfur trioxide complexes. 3,776,901, 12-4-73, Cl. 260-239.30a.
Kelly, Larry A. Sheet metal bracket. 3,730,464, 5-1-73, Cl. 248-57.000.
Kelly, Lonnie M. Tripod type jack assembly. 3,741,509, 6-26-73, Cl. 248-171.000.
Kelly, Maria H.: *See—*
Waitman, Reuben H.; Kelly, Maria H.; and Hollis, Frank, Jr., 3,754,931.
Kelly, Marvin F.; and Lambert, John B., to Fansteel Inc. Vanadium-modified tantalum foil. 3,710,474, 1-16-73, Cl. 29-183.000.
Kelly, Michael A.: *See—*
Chaney, Robert; and Kelly, Michael A., 3,740,151.
Chaney, Robert L.; and Kelly, Michael A., 3,738,755.
Kelly, Paul R. Waste disposal. 3,771,468, 11-13-73, Cl. 110-8.00c.
Kelly, Peter Bernard; and Oliver, Jay Thomas, to Formica Corporation. Polyvinyl fluoride surfaced laminates. 3,734,807, 5-22-73, Cl. 161-5.000.
Kelly, Ralph; and Ritter, Edmond Jean. Mildness additive. 3,769,242, 10-30-73, Cl. 252-542.000.
Kelly, Raymond A.: *See—*
Brodsky, Stuart A.; and Kelly, Raymond A., 3,716,056.
Kelly, Robert C., to Upjohn Company, The. Tricyclic lactone alkene or alkenynes. 3,711,515, 1-16-73, Cl. 260-343.300.
Kelly, Robert C., to Upjohn Company, The. 2-Hydroxy-3-(1-hydroxyethyl)-5-carboxy-3,4-dihydro-2H-pyran-4-acetic acid 4,5-dimethyl ester, 3-methanesulfonate. 3,770,777, 11-6-73, Cl. 260-345.800.
Kelly, Robert C., to Upjohn Company, The. Bicyclic lactone diformate. 3,781,306, 12-25-73, Cl. 260-343.300.
Kelly, Robert F.; and Speetjens, Joseph T., to Torrington Company, The. Straddle latch needle. 3,728,874, 4-24-73, Cl. 66-121.000.
Kelly, Robert J.: *See—*
Quaal, George J.; Groenhof, Eugene D.; and Kelly, Robert J., 3,756,052.
Kelly, Robert R.; and Ward, Donald H., to Borg-Warner Corporation. Limit switch assembly including rotatable cam with longitudinally guided indexing nut and cam longitudinal displacement means. 3,721,780, 3-20-73, Cl. 200-47.000.
Kelly, Samuel T., to Robertshaw Controls Company. Pressure regulator. 3,779,274, 12-18-73, Cl. 137-505.000.
Kelly, Thomas J.: *See—*
Aungst, David C.; and Steckel, Raymond H., 3,745,083.
Kelly, Timothy A. Two-way hingeless ventilator. 3,760,707, 9-25-73, Cl. 98-2.180.
Kelly, Vincent M.; and Scudder, John R. Erectable building structure. 3,710,806, 1-16-73, Cl. 135-4.00r.
Kelly, Ward L.; and McAlvain, William L., said Kelly assor. to Ballistic Research Industries. Sabot bullet. 3,726,231, 4-10-73, Cl. 102-93.000.
Kelly, Wilfred J. Parking brake alarm. 3,723,968, 3-27-73, Cl. 340-69.000.
Kelly, William D. Metal sheathed electrical wire cable. 3,745,230, 7-10-73, Cl. 170-103.000.
Kelly, William F. Chuck assembly. 3,778,868, 12-18-73, Cl. 24-115.00r.
Kelly, William J.: *See—*
Finster, Leslie P.; Kelly, William J.; Naegele, Erich Otto; Petrovsek, Richard J.; Reader, Trevor D.; Reynolds, Warren A.; Sekse, Torkjell; Sevilla, Ernesto G.; and Sours, William A., 3,761,906.
Titus, Robert J.; and Kelly, William J., 3,761,742.
Kelly, William J.; and Reynolds, Warren A., to Cogar Corporation. Crossover detector. 3,718,864, 2-27-73, Cl. 328-115.000.
Kelly, William J., to Cogar Corporation. DC command smoothing circuit. 3,729,666, 4-24-73, Cl. 318-458.000.
Kelly, William J.; and Titus, Robert J., to Cogar Corporation. Dual control loop switching regulator. 3,772,588, 11-13-73, Cl. 323-17.000.
Kelly, William N., to United States of America, Army. Angular deception jammer providing adjustable width pulses after adjustable time. 3,745,381, 7-10-73, Cl. 307-265.000.
Kelp, Fritz; and Pohl, Hans-Heinrich, to Kraftwerk Union Aktiengesellschaft. Air condensation plant. 3,716,097, 2-13-73, Cl. 165-39.000.
Kelrick, Joseph. Adjustable ring having bridge element and firmly secured notched latch bar. 3,736,770, 6-5-73, Cl. 63-15.700.
Kelsall, Denis Fletcher; and Restarick, Clifford John, to Commonwealth Scientific and Industrial Research Organization. Determination of particle size distribution. 3,719,089, 3-6-73, Cl. 73-432.0ps.
Kelsey, David H.; Putzier, Charles W.; and McColgan, John M., to Sloane, R & G, Manufacturing Company, Inc. Color bond surveillance system. 3,740,290, 6-19-73, Cl. 156-310.000.
Kelsey, David H., to Sloane, R & G, Manufacturing Company, Inc. Color bond surveillance system. 3,770,547, 11-6-73, Cl. 156-314.000.
Kelsey, Paul S., to Susquehanna Corporation, The. Apparatus for casting slab-faced panels. 3,751,201, 8-7-73, Cl. 425-123.000.
Kelsey, Paul S., to Susquehanna Corporation, The. Slicing a column into slabs and reuniting the slabs in a tapered portion of the extrusion die. 3,773,880, 11-20-73, Cl. 264-56.000.
Kelsey-Hayes Company: *See—*
Ayers, David T., Jr., 3,717,382.
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Bogdan, Louis J.; and Culp, Jere S., 3,713,617.
Brown, Donald D., 3,740,691.
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Good, William E.; Di Grasso, Leonard; and Hoffman, James D., 3,761,101.
Hall, Richard W.; Kerr, Richard H.; and Padrutt, Paul W., 3,773,438.
Hendrickson, Paul G., 3,743,060.
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Hollnagel, Harold S., 3,708,040.
Jewell, Lisle Allen, Jr., 3,746,132.
Johnson, Howard R., 3,766,130.
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Podlewski, Robert S.; and Birge, William T., 3,778,118.
Riordan, Hugh E.; Every, Peter; and Hill, Frank E., 3,708,214.
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Rozmus, Walter J.; and Rozmus, Matt T., 3,768,718.
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Stelzer, William, 3,734,570.
Tribe, Leonard T.; and Every, Peter, 3,752,538.
Kelso, Francis; and Gustin, Arnold J., to Integrated Air Systems, Inc. Clean work station. 3,715,972, 2-13-73, Cl. 98-115.0lh.
Kelso, Jery M.: *See—*
Biondi, Phyllis R.; and Kelso, Jery M., 3,710,736.
Kelso Marine, Inc.: *See—*
Thatcher, Russell S., 3,748,890.
Kelson, Malcolm J., Sr. Rotary engine. 3,714,930, 2-6-73, Cl. 123-8.270.



Keltie, Dale A.: *See—*

Keltie, Dale A.: *See—*
Oxendine, Joseph W., Jr.; Happs, Gary J.; and Keltie, Dale A., 3,710,105.
Kelton, Robert L. Animated mechanical steer having spring biased head. 3,776,553, 12-4-73, Cl. 273-105.200.
Kelver, William L.: *See—*
Rozema, Arthur L.; Budd, Wilbert H.; and Kelver, William L., 3,735,327.
Kelvinator, Inc.: *See—*
Kauranen, Herbert A., 3,751,632.
KemaNord AB: *See—*
Larsson, Karl-Georg, 3,759,815.
Norback, Hakan, 3,720,700.
Von Euler-Chelpin, Hans S., 3,753,939.
Kemble, Mern S., to Cenco Medical Industries, Inc., mesne. Suture packaging. 3,726,057, 4-10-73, Cl. 53-21.0fc.
Kemenczky, Miklos, to Guilden, Paul. Sharing apparatus and system. 3,718,783, 2-27-73, Cl. 200-1.00r.
Kemenes, Franz: *See—*
Husch, Albert; Kemenes, Franz; and Pregel, Ludwig, 3,715,536.
Kemeny, George A.: *See—*
Fey, Maurice G.; Wolf, Charles B.; Azinger, Frederick A., Jr.; and Kemeny, George A., 3,746,830.
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Kemeny, George A., to Westinghouse Electric Corporation. Method of utilizing heat and pressure to cure flaws in metal pieces. 3,748,196, 7-24-73, Cl. 148-131.000.
Kemerer, Douglas W.: *See—*
Donofrio, Nicholas M.; Kemerer, Douglas W.; and Raymond, John, Jr., 3,764,823.
Kemerer, Douglas Wayne, to International Business Machines Corporation. Half good chip with low power dissipation. 3,750,116, 7-31-73, Cl. 340-173.0bb.
Kemezys, Vincent A., to Barnes Engineering Company. Locking ball joint. 3,776,649, 12-4-73, Cl. 403-90.000.
Kemi Corporation Limited: *See—*
McKernan, Francis Peter, 3,712,643.
Kemlage, Bernard M.: *See—*
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Kemlite Corporation: *See—*
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Kemmerer, Wayne: *See—*
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Kemmethmueller, Roland, to American Waagner-Biro Company, Inc. Indirectly heat exchanging plural gas streams for dry quenching hot coke and drying coal. 3,728,230, 4-17-73, Cl. 201-39.000.
Kemmler, Wilhelm, to Stoll, H., and Company. Mechanical switching and ratchet arrangement mutually-exclusive functions. 3,774,413, 11-27-73, Cl. 66-69.000.
Kemner, Mark H.: *See—*
Kemner, Mark H., 3,746,364.
Kemner, Mark H., to Allis-Chalmers Corporation. Swivel control handle for lift truck. 3,738,441, 6-12-73, Cl. 180-19.00h.
Kemner, Mark H., to Kemner, Mark H. Multiposition stabilizer with a plurality of wear surfaces. 3,746,364, 7-17-73, Cl. 280-150.00c.
Kemp Industries, Inc.: *See—*
Hague, Robert Z.; and Hantman, Edwin F., 3,773,083.
Kemp, Jacob D.: *See—*
Wall, Robert G.; and Kemp, Jacob D., 3,766,292.
Kemp, Jacob D.; and Sieg, Robert P., to Chevron Research Company. Hexane conversion. 3,718,705, 2-27-73, Cl. 260-676.00r.
Kemp, John Curtis, to International Business Machines Corporation. Distributed microprogram control in an information handling system. 3,760,369, 9-18-73, Cl. 340-172.500.
Kemp, Kenneth Albert Walters. Liquid fuel pumping apparatus. 3,726,263, 4-10-73, Cl. 123-139.0bd.
Kemp, Kenneth Albert Walters; and Sosnowski, Stanislaw Jan Antoni, to C.A.V. Limited. Liquid fuel injection pumping apparatus. 3,758,240, 9-11-73, Cl. 417-462.000.
Kemp, Kenneth Albert Walters; and Mowbray, Dorian Farrar, to C.A.V. Limited. Liquid fuel injection pumping apparatus. 3,768,929, 10-30-73, Cl. 417-270.000.
Kemp, Norman H. Sealing apparatus. 3,765,560, 10-16-73, Cl. 220-46.00r.
Kemp Products Limited: *See—*
Bazett, Patrick Seymour, 3,716,606.
Kemp, Ray F.; Blanchard, Robert R.; and Chamberlin, Roger S., to Dow Chemical Company, The. Casing pipe and method of casing a borehole. 3,719,230, 3-6-73, Cl. 166-315.000.
Kemp, Ronald Sidney Thomas: *See—*
Ratcliff, Graham; and Kemp, Ronald Sidney Thomas, 3,772,632.
Kemp, Thomas, to Produits Chimiques Pechiney-Saint-Gobain. Preparation with seeding of polymers insoluble in their monomeric compositions. 3,725,367, 4-3-73, Cl. 260-80.810.
Kemp, Walters: *See—*
Albert, Kenneth; and Kemp, Walters, 3,742,926.
Kemp, Willard E.: *See—*
Fowler, James M.; Kemp, Willard E.; and Tomlin, Jerry B., 3,776,506.
Kemp, Willard E.; and Tomlin, Jerry B., to ACF Industries, Incorporated. Sealing means for valve structure. 3,760,833, 9-25-73, Cl. 137-246.220.
Kemp, Willard E., to ACF Industries, Incorporated. Control ports for gate valve structure. 3,780,982, 12-25-73, Cl. 251-210.000.
Kemp, William A. Visual paper measuring device. 3,771,231, 11-13-73, Cl. 33-189.000.
Kemp, Woodrow E., to Koppers Company, Inc. Wood treated with a preservative composition. 3,764,377, 10-9-73, Cl. 117-147.000.
Kemp, Woodrow E., to Koppers Company, Inc. Wood treated with a preservative composition. 3,764,378, 10-9-73, Cl. 117-147.000.
Kemper, Clyde F.: *See—*
Cover, Paul F.; and Kemper, Clyde F., 3,776,527.
Kemper, Eugene L., to Upton Industries, Inc. Method and apparatus for removing coatings from metals. 3,770,501, 11-6-73, Cl. 134-19.000.
Kemper, Gustav-Wilhelm, to Dynamit Nobel Aktiengesellschaft. Device for the absorption of impact energy especially for automotive vehicles. 3,761,111, 9-25-73, Cl. 280-150.0ab.
Kemper, James M., to Monogram Industries, Inc. Filter and pump for a recirculating sanitary system. 3,708,806, 1-9-73, Cl. 4-10.000.
Kemper, James M., to Monogram Industries, Inc. Combined pump and cutting apparatus. 3,722,803, 3-27-73, Cl. 241-46.020.
Kemper, James M., to Monogram Industries, Inc. Snap action valve. 3,722,850, 3-27-73, Cl. 251-52.000.
Kemper, Johannes A. Method of manufacturing an expansion element. 3,733,683, 5-22-73, Cl. 29-471.100.
Kemper, John A., Jr.: *See—*
Childress, Richard; and Kemper, John A., Jr., 3,770,546.
Kemper, Jurgen; and Schenk, Erwin, to Siemens Aktiengesellschaft. Process and circuit arrangement for the measuring of the frequency of bit errors and block errors with optional block length in the transmission of binary coded data characters. 3,725,860, 43-73, Cl. 340-146.1ax.
Kemper, Kate. Kneading device. 3,744,769, 7-10-73, Cl. 259-185.000.
Kemper, Kate. Apparatus for preparing doughs or similar material. 3,749,373, 7-31-73, Cl. 259-185.000.
Kemper, Wilhelm, KG: *See—*
Kreienbaum, Hubert, 3,722,802.
Kempermann, Theo: *See—*
Roos, Ernst; Abele, Manfred; Nast, Roland; Kempermann, Theo; and Schubart, Rudiger, 3,737,438.
Schubart, Rudiger; Eholzer, Ulrich; Kempermann, Theo; and Roos, Ernst, 3,778,419.
Kempf, Dennis D., to FMC Corporation. Vortex pumps. 3,759,628, 9-18-73, Cl. 415-213.00a.
Kempf, Paul S. Clamshell type optical mounting. 3,749,479, 7-31-73, Cl. 350-252.000.
Kempf, Reiner; and Riese, Hans-Walter, to Fichtel & Sachs AG. Vehicle clutch with gear synchronozing brake. 3,722,643, 3-27-73, Cl. 192-13.00r.
Kempin, Willy: *See—*
Ruffer, Holm; Kempin, Willy; and Kraus, August, 3,762,190.
Kempke, William G.: *See—*
Carlson, John A.; Kempke, William G.; Schweihs, Jess J.; Syverson, Marschelle M. G.; and Zolnosky, Larry D., 3,749,008.
Kempken, Dietrich, to Deutsche Babcock & Wilcox Aktiengesellschaft. Pipe bending machine. 3,762,196, 10-2-73, Cl. 72-12.000.
Kemple, John J., to Taylor Garage Doors, Inc. Threshold and sill assembly. 3,762,100, 10-2-73, Cl. 49-468.000.
Kempler, Ernest. Small article display rack. 3,750,893, 8-7-73, Cl. 211-162.000.
Kempster, Edward, to National Research Development Corporation. Process for dispersing fiber in an aqueous mix. 3,716,386, 2-13-73, Cl. 106-90.000.
Kemptener Maschinenfabrik GmbH: *See—*
Wittki, Harry; and Weinmuller, Ludwig, 3,731,642.
Kempthorne, Richard L. Hopper dust hood. 3,722,397, 3-27-73, Cl. 98-115.00r.
Kempton, William G. Expansion compensating dispensing valve. 3,764,104, 10-9-73, Cl. 251-357.000.
Kemter, Heinz, to VEB Wirkmaschinenbau Karl-Marx-Stadt. Flat warp knitting machines. 3,756,043, 9-4-73, Cl. 66-84.00r.
Kenaga, Paul E. Panel construction. 3,740,916, 6-26-73, Cl. 52-629.000.
Kenco Corporation: *See—*
Russell, Robert J.; and Pierce, Edwin F. (said Russell assor. to), 3,764,049.
Kenco Engineering, Incorporated: *See—*
Lutz, David L., 3,773,436.
Kendale Industries, Inc.: *See—*
Setele, William O., 3,710,906.
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Kendall, Claud A. Bifocal corneal contact lens and method of making same. 3,726,587, 4-10-73, Cl. 351-161.000.





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Binard, William J.; and Dye, John F., 3,730,209.
Binard, William J.; and Dye, John F., 3,741,206.
Binard, William J.; and Dye, John F., 3,777,743.
Cheng, Shu-Sing, 3,738,811.
Chesky, Sheldon R., 3,730,338.
Ciarico, Anthony J., 3,741,217.
Collins, Robert F., 3,750,664.
Collins, Robert F., 3,777,749.
Dye, John F.; and Binard, William J., 3,726,283.
Hammond, Fred H., Jr., 3,709,808.
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Kasper, Andrew A.; and Lifland, Leonard, 3,708,261.
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Marshall, Preston F., 3,727,270.
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McWhorter, Daniel M.; and Taylor, Glenn N., 3,744,063.
Newman, Nicholas S., 3,723,236.
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Patience, Donald; and Collins, Robert F., 3,707,964.
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Samour, Carlos M.; and Richards, Mildred C., 3,714,256.
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Schaar, Charles H., 3,731,689.
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Such, John J.; and Olson, Arthur R., 3,737,368.
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Collins, Robert F., 3,750,663.
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Felczak, Theodore F., 3,765,420.
Hartigan, Edward G.; and Zoephel, Richard L., 3,754,284.
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Samour, Carlos M.; and Richards, Mildred C., 3,751,451.
Kendall, Don Leslie. Individual device tuning using localized solid-state reactions. 3,725,148, 4-3-73, Cl. 148-186.000.
Kendall, Earl W., to Rohr Industries, Inc. Composition for electrolytic descaling of titanium and its alloys. 3,725,224, 4-3-73, Cl. 204-141.500.
Kendall, Ernest G.: *See—*
Pepper, Roger T.; and Kendall, Ernest G., 3,770,488.
Kendall, Frank T.; Pierce, Donald L.; and Weikel, Walter J., to International Business Machines Corporation. Step motor and controls for non-oscillating punch/read positioning of 80-column record cards. 3,735,093, 5-22-73, Cl. 235-61.100.
Kendall, Giles A., to Menasco Manufacturing Company. Energy absorption apparatus. 3,711,080, 1-16-73, Cl. 267-116.000.
Kendall, Giles A., to Menasco Manufacturing Company. Damping apparatus. 3,713,641, 1-30-73, Cl. 267-139.000.
Kendall, Giles A., to Menasco Manufacturing Company. Automatic vacuum restraint apparatus. 3,732,944, 5-15-73, Cl. 180-103.000.
Kendall, Giles A.; and Wallace, William D., to Miner Enterprises, Inc. Shock absorber. 3,751,020, 8-7-73, Cl. 267-33.000.
Kendall, Harland R. Pressure responsive device for indicating the magnitude of pressure changes. 3,756,190, 9-4-73, Cl. 116-34.00r.
Kendall, Jerry A., to Elab Corporation. Apparatus for manufacturing connector terminals. 3,769,679, 11-6-73, Cl. 29-203.00b.
Kendall, Jim W.: *See—*
Culpepper, George O., Jr.; and Wyss, Clement R., 3,734,774.
Kendall, Louis F., Jr.: *See—*
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Kendall, Patrick D. Automotive anti-theft and safety device. 3,760,898, 9-25-73, Cl. 180-114.000.
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Kendall, Thomas L.; and Lincoln, Thomas C., to Becton, Dickinson Electronics Company. Thumbwheel switch assembly with improved gang housing interlocking means. 3,719,785, 3-6-73, Cl. 200-11.0tw.
Kendall, Trevor William, to Dictaphone Corporation. Pre-recorded magnetic tape editing device. 3,722,810, 3-27-73, Cl. 242-56.00r.
Kendall, Virgil D.; and Skriletz, Rudolph A., to Wallace-Murray Corporation. Porous resin bonded product. 3,755,213, 8-28-73, Cl. 260-2.5ep.
Kenderi, Tibor, to Hajtomu es Felvonogyar. Method and apparatus for spraying powdered thermoplastic substances. 3,715,076, 2-6-73, Cl. 239-8.000.
Kendig, Benjamin F.: *See—*
Davies, Jeffrey B.; and Kendig, Benjamin F., 3,712,394.
Kendig, Willard Z., to Pollution Control Industries, Inc. Fuel metering device for internal combustion engine. 3,752,451, 8-14-73, Cl. 261-39.00b.
Kendrick, William D.; Frazier, Bruce J.; Freeman, Norman L.; and Ferguson, Lyndel G., to Halliburton Company. Apparatus for injecting one or more articles individually into a tubular flow path. 3,715,055, 2-6-73, Cl. 221-75.000.
Kendy, Leonard, to Hughes Aircraft Company. Weapon firing computer. 3,739,153, 6-12-73, Cl. 235-61.50r.
Keneally, John: *See—*
Burney, Charles F., 3,735,768.
Keneman, Scott Allen; and Taylor, George William, to RCA Corporation. Electro-optical storage device. 3,747,075, 7-17-73, Cl. 340-173.0lt.
Kenfoot, Oliver C.: *See—*
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Kenics Corporation: *See—*
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Keniti, Iwami: *See—*
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Kenkare, Divaker B.; and Shumway, Durland K., to Colgate-Palmolive Company. Self-heating cosmetic. 3,722,752, 3-27-73, Cl. 222-145.000.
Kenkel, Robert W.: *See—*
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Kennedy, Alexander W.; and Malkin, Irving, to Diamond Shamrock Corporation. Coated metal and method. 3,708,350, 1-2-73, Cl. 148-6.200.
Kennedy, Andrew Thomas; and Lemon, Maurice Charles, to Kennedy, David, (Engineers) Limited and Universal Towel Company Limited. Washing machines. 3,762,869, 10-2-73, Cl. 8-151.000.
Kennedy, Bobby W., to United States of America, National Aeronautics and Space Administration. Integrated circuit package with lead structure and method of preparing the same. 3,778,685, 12-11-73, Cl. 317-234.00r.
Kennedy, Brian R.: *See—*
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Kennedy, Brian R.; and De Vries, Louis, to Chevron Research Company. Lubricating oil additives and compositions containing such additives. 3,778,370, 12-11-73, Cl. 252-42.00f.
Kennedy, C. Trowbridge; Stout, David J.; and Dodds, Harold E., Jr., to Thiokol Chemical Corporation. Coated woven textile product and process therefor. 3,779,799, 12-18-73, Cl. 117-161.0uz.
Kennedy, Carl D.: *See—*
McGuire, Stephen E.; and Kennedy, Carl D., 3,732,324.
Kennedy, Carl D.; and Lundeen, Allan J., to Continental Oil Company. Process for recovering organic sulfonyl halides. 3,736,352, 5-29-73, Cl. 260-543.00r.
Kennedy, Carl D.; and Weaver, Wallace R., to Continental Oil Company. Separation of organic sulfonyl chlorides. 3,746,759, 7-17-73, Cl. 260-593.00r.
Kennedy, Carl D., to Continental Oil Company. Method of preparing alkanesulfonamides from alkanesulfonyl chlorides. 3,755,439, 8-28-73, Cl. 260-556.00a.
Kennedy, Charles B.: *See—*
Pasieka, John F.; and Kennedy, Charles B., 3,775,594.
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Kennedy, Damon M. Plural occupant propelled velocipede. 3,717,360, 2-20-73, Cl. 280-231.000.
Kennedy, David, (Engineers) Limited: *See—*
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Kennedy, Eugene R., to American Hospital Supply Corporation. Centrifuge and self-positioning tube holder therefor. 3,722,789, 3-27-73, Cl. 223-26.000.
Kennedy, George W. Multiple stapling system. 3,717,924, 2-27-73, Cl. 29-432.000.
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Kennedy, James A., to Honeywell Information Systems, Inc. Universal data-communication interface. 3,773,973, 11-20-73, Cl. 178-58.00r.
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Kennedy, John C., to Norco, Inc. Variable efficiency mechanical transmission. 3,766,800, 10-23-73, Cl. 74-424.80r.
Kennedy, John H., to Bissett-Berman Corporation, The. Solid electrolyte electrolytic cell. 3,723,589, 3-27-73, Cl. 264-101.000.
Kennedy, John J.; and Wheeler, Leon A. Cycle burglar alarm. 3,755,778, 8-28-73, Cl. 340-65.000.
Kennedy, John P. Acoustic coupler. 3,719,783, 3-6-73, Cl. 179-1.00c.
Kennedy, Kurt D.; and Turner, Maurice E., to Airco Inc. Process for manufacturing foil. 3,729,046, 4-24-73, Cl. 164-46.000.
Kennedy, Leo J., to Owens-Illinois, Inc. Plastic container. 3,767,076, 10-23-73, Cl. 215-40.000.
Kennedy, Leroy P. Safety device requiring periodic attention of vehicle operators. 3,778,116, 12-11-73, Cl. 303-19.000.
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Kennedy, Mervyn R., to Relton Corporation. Audible time measuring with discriminating sound for beats within a group. 3,760,681, 9-25-73, Cl. 84-484.000.
Kennedy, Neil James. Cartridge reloading dies. 3,745,875, 7-17-73, Cl. 86-23.000.
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Kennedy, Robert D.: *See—*
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Kennedy, Robert D., to Ford Motor Company. Electrical terminal. 3,713,080, 1-23-73, Cl. 339-258.00r.
Kennedy, Robert F., to United States of America, Navy. Differential pressure relief valve. 3,742,968, 7-3-73, Cl. 137-68.000.
Kennedy, Roland R.: *See—*
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Kennedy, Thomas Nolan, to International Business Machines Corporation. Method for reactive sputter deposition of phosphosilicate glass. 3,743,587, 7-3-73, Cl. 204-192.000.
Kennedy, Thomas W.: *See—*
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Kennedy, William D., Jr.; and Gunn, Lawrence G. Cooking utensil. 3,745,911, 7-17-73, Cl. 99-426.000.
Kennedy, William J. L.; Miczek, Charles B.; and Garabedian, George, to Stone & Webster Engineering Corporation. Composite pressure suppression containment structure for nuclear power reactors. 3,713,968, 1-30-73, Cl. 176-37.000.
Kennedy, William S.: *See—*
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Kennedy, William S., to Acurex Corporation. Channelizer apparatus. 3,749,225, 7-31-73, Cl. 198-31.0aa.
Kennel, George Wm.; and Ornstein, Flushing Gerald, to Dorr-Oliver Incorporated. Centrifugal pump with open type impeller. 3,711,218, 1-16-73, Cl. 415-131.000.
Kennel, Michael; and Drapeau, Yves, to Compagnie Francaise de Raffinage. Method of decreasing the wear of flexible bodies rubbing on a rigid surface. 3,767,460, 10-23-73, Cl. 117-123.00e.
Kenneryd, Karl Gosta Lennart; and Magnusson, Olov Tage, to Aktiebolaget Electrolux. Refrigerator operated by a fluid fuel burner for a movable structure. 3,771,320, 11-13-73, Cl. 62-239.000.
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Shepard, Leonard F., granted to United States Atomic Energy Commission under the provisions of 42 U.S.C. 2182; Durney, George P.; Case, Melvin C.; Kenneway, A. J., III; Wise, Robert C.; Rinehart, Dixie; Bessette, Ronald J.; and Pulling, Richard C., 3,751,77.
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Kenney, Edward S.; and Jacobs, Alan M., to Research Corporation. Dynamic radiography. 3,769,507, 10-30-73, Cl. 250-395.000.
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Kenney, John Thomas; and Litt, Frederic Alan, to Western Electric Company, Incorporated. Method of forming and dispersing a plurality of discrete, non-coalescing liquid metal particles in an aqueous medium. 3,758,414, 9-11-73, Cl. 252-313.00r.
Kenney, John Thomas, to Western Electric Company, Incorporated. Method of producing nondetergent, aqueous wetting solutions. 3,767,590, 10-23-73, Cl. 252-313.00r.
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Kennicutt, Robert B., to Caterpillar Tractor Company. Limited slip differential with clutch control means. 3,724,289, 4-3-73, Cl. 74-711.000.



Kennicutt, Robert B.; Sitton, Ellis A.; and Yancey, John W., to Caterpillar Tractor Company. Mounting device for rotatable members. 3,779,615, 12-18-73, Cl. 305-10.000.
Kenning, Joseph N., 1/2 interest to Voigt, Donald B. Bunk feeder. 3,769,937, 11-6-73, Cl. 119-52.00b.
Kenny, Philip Charles, to Varian Associates. Method and apparatus for electrostatically recording with a closed loop web drive. 3,769,628, 10-30-73, Cl. 346-74.0es.
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Kent, Cecil, to Creators Limited. Decorative plastics strips and motifs. 3,711,360, 1-16-73, Cl. 161-44.000.
Kent, Cecil, to Creators Limited. Glazing window or windscreen openings, particularly in vehicle bodies. 3,759,004, 9-18-73, Cl. 52-400.000.
Kent, Cecil, to Creators Limited. Glazing window or windscreen openings, particularly in vehicle bodies. 3,774,363, 11-27-73, Cl. 52-400.000.
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Kent, James T., to Magnaflux Corporation. System for determining sonic velocity in solid materials. 3,774,444, 11-27-73, Cl. 73-67.600.
Kent, Jan Herbert, to Kentredder Limited. Buffing machine. 3,721,284, 3-20-73, Cl. 157-13.000.
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Kent, Marc T., Jr. Information display system. 3,769,727, 11-6-73, Cl. 40-62.000.
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Kent, Paula Jane; and McCollough, Arthur R., to Redken Laboratories, Inc. Hair color level indicating method. 3,736,064, 5-29-73, Cl. 356-195.000.
Kent, Peter Michael, to Brico Engineering Limited. Electromagnetic full injectors. 3,773,265, 11-20-73, Cl. 239-585.000.
Kent, Robert D., to Texaco Inc. Inert gas stripping of contaminated water. 3,754,376, 8-28-73, Cl. 55-51.000.
Kent, Robert L., to Damon Corporation. Signal processor. 3,730,627, 5-1-73, Cl. 356-205.000.
Kent, Robert W.; and Kent, Robert W., Jr. Maximum security lock assemblies. 3,768,284, 10-30-73, Cl. 70-104.000.
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Kent, William C., to Western Electric Company, Incorporated. Methods of forming wire springs and welding contacts to the springs. 3,765,084, 10-16-73, Cl. 29-630.00r.
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Kenton, Joseph R., to Phillips Petroleum Company. Method of improving the bond of polythiol sealant to building materials. 3,764,372, 10-9-73, Cl. 117-72.000.
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Kenworthy, John Grahame, to Imperial Chemical Industries Limited. Variable light transmission device. 3,712,709, 1-23-73, Cl. 350-160.00r.
Kenyon, Andre J., to Schaefer Corporation. Refrigerated display cabinet. 3,759,059, 9-18-73, Cl. 62-246.000.
Kenyon, Fred V., to Robertshaw Controls Company. Thermocouple. 3,709,740, 1-9-73, Cl. 136-217.000.
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Kenyon, Nazar P., to Parke, Davis & Company. Vapor guard viscometer. 3,727,452, 4-17-73, Cl. 73-59.000.
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Keown, Philip E.; Meyers, Clyde C.; and Wetherold, Robert G., to Mobil Oil Corporation. Vapor-phase alkylation in presence of crystalline a luminosilicate catalyst with separate transalkylation. 3,751,504, 8-7-73, Cl. 260-672.00t.
Keown, Robert W., to Du Pont de Nemours, E. I., and Company. Manufacture of solutions and dispersions of polymers in organic liquids from a polymer latex. 3,733,294, 5-15-73, Cl. 260-33.60a.
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Kern, Loyd R.; and Martin, Ferman G., to Atlantic Richfield Company. Multilayer propping of fractures. 3,757,862, 9-11-73, Cl. 166-280.000.
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Kerr, Ronald Morris. Dewatering of distillery spent wash in the production of by-product dreg meal. 3,747,758, 7-24-73, Cl. 210-66.000.
Kerr, Walter E. Coin packager. 3,748,824, 7-31-73, Cl. 53-213.000.
Kerr, Wayne L., to Schlumberger Technology Corporation. Electrical connector. 3,719,918, 3-6-73, Cl. 339-90.00r.
Kerr, Wayne L.; Duggan, Thomas W.; and Davis, Billy W., to Schlumberger Technology Corporation. Hydrophone assembly. 3,739,326, 6-12-73, Cl. 340-7.00r.
Kerr, William C.: *See—*
Gibbons, Carl B.; Kerr, William C.; and Maddocks, Roger H., 3,757,163.
Kerr, William C., to Eastman Kodak Company. Method and apparatus for treating a web. 3,729,648, 4-24-73, Cl. 317-2.00r.
Kerr, William C., to Eastman Kodak Company. Method for treating a web. 3,730,753, 5-1-73, Cl. 117-34.000.
Kerr, William J.: *See—*





Lundquist, Richard E.; and Kerr, William J., 3,745,430.
Kerr, William J., to Chicago Lock Co. Axial pin tumbler lock assembly and combination reset key therefor. 3,756,049, 9-4-73, Cl. 70-363.000.
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Kerrigan, James E.; and Klygis, Mindaugas J., to Illinois Tool Works, Inc. Container package. 3,734,278, 5-22-73, Cl. 206-65.00s.
Kersch Company: *See—*
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Kerschbaum, Ewald: *See—*
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Kerschner, Paul M.: *See—*
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Kerschner, Paul M.; and Marcellis, Alphonso W., to Cities Service Oil Company. Petroleum hydrocarbon compositions. 3,761,434, 9-25-73, Cl. 260-22.00r.
Kerschner, Paul M.; Badin, Elmer J.; and Cresti, Aldo, to Cities Service Oil Company. Nitrogen-containing carbohydrate derivatives and hydrocarbon fuel compositions containing same. 3,779,724, 12-18-73, Cl. 44-63.000.
Kerschner, Paul M., to Cities Service Company. Polybromocycloaliphatic ethers as flame retardant plasticizers. 3,779,978, 12-18-73, Cl. 260-33.20r.
Kersey, John P.: *See—*
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Kershaw, Bernard John, to Du Pont of Canada Limited. Purification of adiponitrile. 3,775,258, 11-27-73, Cl. 203-29.000.
Kershaw, Joseph E., to United States of America, Navy. Method and apparatus for coupling multiple power sources to single radiating antenna. 3,714,661, 1-30-73, Cl. 343-858.000.
Kershaw, Robert William; and Polgar, Livia, to Dulux Australia Ltd. Liquid compositions comprising gelled urethane polymer. 3,748,294, 7-24-73, Cl. 260-22.0tn.
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Kershaw, Sydney L., to Parker-Hannifin Corporation. Quick disconnect coupling. 3,758,137, 9-11-73, Cl. 285-70.000.
Kershner, Osborn A., to Lambert Brake Corporation, mesne. Self-adjusting disc brake assembly. 3,722,637, 3-27-73, Cl. 188-196.00p.
Kershner, Stephen W.; and Owen, Kenneth, to Delta Electronics, Inc. Balanced line switch system with U-shaped crossed conductive channels arranged back to back. 3,717,736, 2-20-73, Cl. 200-153.00s.
Kerst, Al F., to Monsanto Company. Methods of scale inhibition. 3,733,270, 5-15-73, Cl. 210-58.000.
Kerst, Al F.; and Douros, John D., Jr., to Gates Rubber Company, The. 4,5 Diaminouracil sulfate as algicide. 3,753,362, 8-21-73, Cl. 71-67.000.
Kerst, Al F.; and Douros, John D., Jr., to Gates Rubber Company, The. Diethyl cyanomethyl phosphonate as an antimicrobial agent. 3,764,676, 10-9-73, Cl. 424-210.000.
Kerst, Al F.; and Douros, John D., Jr., to Gates Rubber Company, The. Diethyl beta aminoethylphosphonate as an antimicrobial agent. 3,764,677, 10-9-73, Cl. 424-211.000.
Kerst, Al F.; Douros, John D., Jr.; and Brokl, Milan, to Gates Rubber Company, The. Controlling algae with 5-(5 barbituridene)-rhodanine. 3,765,864, 10-16-73, Cl. 71-67.000.
Kerst, Al Fred: *See—*
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Douros, John D., Jr.; and Kerst, Al Fred, 3,728,453.
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Douros, John D., Jr.; and Kerst, Al Fred, 3,728,461.
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Kersten, Hilde; Heinrichs, Gunter; Meyer, Gerhard; and Laudien, Dieter. Process for preparing 1,3-disubstituted symmetrical thioureas. 3,708,496, 1-2-73, Cl. 260-309.700.
Kersten, Hilde; Meyer, Gerhard; and Neuhaus, Clemens, to Akzona Incorporated. Production of thiourea. 3,723,522, 3-27-73, Cl. 260-552.00r.
Kerstetter, Donald R.: *See—*
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Decker, John J.; and Kerstetter, Donald R., 3,737,342.
Kerstetter, Donald R.; and Losey, Harold D., to Sylvania Electric Products, Inc. Vacuum tube readout device having ruggedized internal electrode structure and method of making same. 3,716,899, 2-20-73, Cl. 29-25.140.
Kerstetter, Donald R., to GTE Sylvania Incorporated. Electron discharge device grid having enhanced thermal conductivity and reduced secondary emission characteristics. 3,772,561, 11-13-73, Cl. 313-350.000.
Kerstetter, Harold Alfred: *See—*
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Kersting, Raymond J., to Wagner Electric Corporation. Control valve. 3,712,686, 1-23-73, Cl. 303-71.000.
Kersting, Raymond J., to Wagner Electric Corporation. Control valve. 3,778,119, 12-11-73, Cl. 303-68.000.
Kersting, Raymond J., to Wagner Electric Corporation. Control valve. 3,781,065, 12-25-73, Cl. 303-71.000.
Kerswill, Edson G.: *See—*
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Kertell, Frank W., to Walker, Brooks. Quad jet. 3,758,082, 9-11-73, Cl. 261-23.00a.
Kerttula, Into Isak; and Jaatinen, Per Arno. Device in belt conveyors. 3,729,089, 4-24-73, Cl. 198-203.000.
Kerttula, Into Isak; and Jaatinen, Per Arno. Continuous action sheet press. 3,779,686, 12-18-73, Cl. 425-371.000.
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Kerwin, Robert Eugene: *See—*
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Kerwood, Joseph Edward, to Monsanto Company. N-azolylsulfenamides. 3,770,758, 11-6-73, Cl. 260-305.000.
Kerzman, Jack A. Wad assembly for shotgun shell. 3,707,915, 1-2-73, Cl. 102-42.00c.
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Keserin, Ivan, to Metallgesellschaft Aktiengesellschaft. Corona-discharge electrode mounting. 3,775,827, 12-4-73, Cl. 29-275.000.
Kesinger, Donald A.; and Inscho, Leland S., Jr., to Gates Rubber Company, The. Transplant handling means. 3,722,137, 3-27-73, Cl. 47-34.130.
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Kesler, Richard B., to Institute of Paper Chemistry, The. Method and apparatus for analysis of fluid suspensions. 3,718,030, 2-27-73, Cl. 73-61.00r.
Kesler, Sidney B., Jr., to Reynolds Metals Company. Apparatus for removing treating liquids from treated metal strip products. 3,778,862, 12-18-73, Cl. 15-306.400.
Kesling, Keith K., to General Motors Corporation. Ice flaking machine for domestic refrigerators. 3,727,425, 4-17-73, Cl. 62-346.000.

Kesling, Keith K., to General Motors Corporation. Ice making device. 3,727,426, 4-17-73, Cl. 62-346.000.
Kesling, Peter C. Universal tooth positioning and retaining appliance. 3,724,075, 4-3-73, Cl. 32-14.00b.
Kesling, Peter C. Lock ring for edgewise bracket. 3,729,826, 5-1-73, Cl. 32-14.00a.
Kesling, Peter C. Elastomeric orthodontic device. 3,758,947, 9-18-73, Cl. 32-14.00a.
Kesner, Donald R.: *See—*
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Kessel, William M.: *See—*
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Kessell, Archie; and Phelan, Charles Stephens, to Rohe' Scientific Corporation. Zero displacement diaphragm valve. 3,740,019, 6-19-73, Cl. 251-129.000.
Kesselring, Fritz, to Siemens Aktiengesellschaft. Current-limiting switch employing low temperature resistor. 3,736,439, 5-29-73, Cl. 307-135.000.
Kesselring, Lutz; and Nagel, Hans-Joachim, to MAPA GmbH. Feeding bottle teats. 3,777,753, 12-11-73, Cl. 128-252.000.
Kessinger, Orville E., Jr.: *See—*
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Kessler, Arthur: *See—*
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Kessler, Arthur, to Leitz, Ernst, G.m.b.H. Electromagnetic shutter release for continuous operation and single-frame operation in motion picture cameras. 3,721,492, 3-20-73, Cl. 352-137.000.
Kessler, Cecil, to Chet Industries (Proprietary) Limited. Apparatus for producing wax match shafts. 3,758,246, 9-11-73, Cl. 425-93.000.
Kessler, Clarence William: *See—*
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Kessler, Claus; and Kohler, Werner, to Siemens Aktiengesellschaft. Cable terminal for high voltage cables. 3,710,247, 1-9-73, Cl. 324-96.000.
Kessler, Claus, to Siemens Aktiengesellschaft. Metal-clad high-voltage switching system. 3,777,218, 12-4-73, Cl. 317-59.000.
Kessler, Dayton F.: *See—*
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Kessler, Ernst Jakob: *See—*
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Kessler, Frank L.; and Kendall, Stephen F., to Corson, Ben. Swimming pool construction. 3,736,599, 6-5-73, Cl. 4-172.190.
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Kessler, John W. Method for fixing a fastener in two pieces of wood. 3,723,215, 3-27-73, Cl. 156-92.000.
Kessler, Joseph A. Clamping apparatus. 3,742,560, 7-3-73, Cl. 24-81.0aa.
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Kessler, Lawrence W., to Zenith Radio Corporation. Ultrasonic visualization by pulsed Bragg diffraction. 3,737,573, 6-5-73, Cl. 178-7.50d.
Kessler, Milton. Insulated runner system for plastic cap molds. 3,776,676, 12-4-73, Cl. 425-250.000.
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Kessler, Richard B.; and Nobel, Fred I., to Lea-Ronal, Inc. Electrodeposition of copper from acidic baths. 3,725,220, 4-3-73, Cl. 204-52.00r.
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Kessler, Samuel J. Prefabricated concrete structure. 3,722,159, 3-27-73, Cl. 52-252.000.
Kessler, Sebastian William, Jr., to RCA Corporation. Transcalent semiconductor device. 3,739,235, 6-12-73, Cl. 317-234.00r.
Kessler, Sebastian William, Jr.; and Keller, Robert Franklin, to RCA Corporation. Method of making an electrically-insulating seal between a metal body and a semiconductor device. 3,769,688, 11-6-73, Cl. 29-473.100.
Kest, Donald O. Elastomer-based, pressure sensitive adhesive composition. 3,743,616, 7-3-73, Cl. 260-27.0bb.
Kest, Donald O. Urethane base pressure sensitive adhesive. 3,743,617, 7-3-73, Cl. 260-27.0bb.
Kesten, Martin, to Preston Engravers, Inc. Air eject die-cutting assembly. 3,766,814, 10-23-73, Cl. 83-99.000.
Kester, Charles E.; and Hughes, Thomas E., to Crosman Arms Company, Inc. Gas operated gun with removable clip loader. 3,741,189, 6-26-73, Cl. 124-11.00r.
Kesti, Richard R., to International Basic Economy Corporation. Valve unit. 3,735,781, 5-29-73, Cl. 137-625.480.
Kestler, Ralph, to General Control Corporation. Marking instrument for dental castings. 3,755,904, 9-4-73, Cl. 33-18.00r.
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Ketchpel, Paul A., Jr.; Stoutenberg, Carl C.; and Johnson, Edward J., to Stanley Works, The. Power driven grass shear. 3,774,302, 11-27-73, Cl. 30-210.000.
Ketchum, Lynn D., to Kansas University Endowment Association, The. Electrically driven hand exerciser. 3,756,222, 9-4-73, Cl. 128-26.000.
Ketchum, Marshall D.; and Bloomer, Milton D., to General Electric Company. Non-contacting temperature measurement of inductively heated utensil and other objects. 3,781,506, 12-25-73, Cl. 219-10.490.
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Ketelaar, Peter, to U.S. Philips Corporation. Circuit arrangement for correcting a line deflection current flowing in a picture display apparatus. 3,774,067, 11-20-73, Cl. 315-27.0td.
Ketley, Arthur Donald; Kehr, Clifton Leroy; and Touchette, Jennie Lee, to Grace, W. R., & Co. Process for forming a continuous tone negative and positive image. 3,726,676, 4-10-73, Cl. 96-27.000.
Ketley, Arthur Donald; Kehr, Clifton Leroy; and Touchette, Jennie Lee, to Grace, W. R., & Co. Process for forming silverless continuous tone photographic image with polythiol polymers. 3,730,715, 5-1-73, Cl. 96-35.100.
Keto, August I.; and Manes, Robert J., to Westinghouse Electric Corporation. Rotary electrical switching contact assembly with hollow insulating arc barrier. 3,715,543, 2-6-73, Cl. 200-151.000.
Keto, Autust I.; and Astleford, John J., Jr., to Westinghouse Electric Corporation. Protective fuse. 3,732,517, 5-8-73, Cl. 337-278.000.
Keto, Kalevi, to Spinner Osakeyhtio. False-twist spindle in a filament false-twist crimping machine. 3,745,755, 7-17-73, Cl. 57-77.400.
Kett, Terence K.; and Reitz, Richard A. Process for the preparation of high octane gasoline fractions. 3,763,034, 10-2-73, Cl. 208-78.000.
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Ketterer, Edmund, to Kroewerath, S. L., & Co., Firma. Oscillator with electrodynamic drive and electromagnetic detection, especially for use in an electronic clock. 3,713,047, 1-23-73, Cl. 331-116.00m.
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Kettler, Clarence J., to General Electric Company. Electrical apparatus having inverse parallel connected pairs of thyristors. 3,732,485, 5-8-73, Cl. 323-43.50s.
Kettner, Robert E., to Michigan Wheel Corporation. Foldable propeller. 3,715,171, 2-6-73, Cl. 416-142.000.
Keuchel, Herbert W.; and Polestak, Walter J., to Celanese Corporation. Conjugate spinning process. 3,780,149, 12-18-73, Cl. 264-168.000.
Keues, Henry P. C., to Luxair Inc. Air purifier and humidifier. 3,757,494, 9-11-73, Cl. 55-234.000.
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Keur, Robert I.; and Dahl, Henry A., to Dick, A. B., Company. Ink drop writing system with nozzle drive frequency control. 3,736,593, 5-29-73, Cl. 346-75.000.
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Key, Edward H., to Thomas & Betts Corporation. Jumper for interconnecting dual-in-line sockets. 3,731,254, 5-1-73, Cl. 339-17.0cf.
Key, Joe Wayne; and Russell, Larry Rayner, to Fluor Ocean Services, Inc. Method and system for laying a pipeline from a reel barge. 3,712,100, 1-23-73, Cl. 72-161.000.
Key, John W. Apparatus for use in silk screen printing or the like. 3,762,066, 10-2-73, Cl. 34-150.000.
Key, Lawrence M. Modular, unitary sectional, portable fence. 3,770,246, 11-6-73, Cl. 256-25.000.
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Keyes, Karl A.; Doing, Park A.; and Watkins, Edwin P., to Dayton Progress Corporation. Die assemblies. 3,710,666, 1-16-73, Cl. 83-99.000.
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Keyes, Richard Martin; and Herramann, William Christian, to Beatrice Foods Co. In-place cleaning system. 3,729,177, 4-24-73, Cl. 259-10.000.
Keyes, Robert A. Removable vehicle window cover. 3,751,100, 8-7-73, Cl. 296-95.00c.
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Kieferle, Friedrich: *See—*
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a wear-and abrasion-resistant surface. 3,717,496, 2-20-73, Cl. 117-49.000.
Kieffer, Richard, to Ugine-Carbone. Sintered hard alloy and method of making. 3,741,733, 6-26-73, Cl. 29-182.500.
Kieffer, Vernon E.; and Korski, Frank S., to Emerson Electric Co. Coil transfer and storage tool and machine for winding same. 3,714,973, 2-6-73, Cl. 140-92.100.
Kieffer, Vernon E., to Emerson Electric Co. Coil insertion device. 3,748,714, 7-31-73, Cl. 29-205.000.
Kieffer, William L.: *See—*
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Kiehl, Jean-Pierre; and Jost, Victor, to Societe Generale des Produits Refractaires. Insulating refractory and a method for manufacturing same. 3,752,684, 8-14-73, Cl. 106-58.000.
Kiehn, Axel: *See—*
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Kiehn, Jurgen; Wahle, Gunter; and Lahmann, Rank-Dieter, to Hauni-Werke Korber & Co., KG. Method and apparatus for evaluating the operation of machines for the production and/or processing of smokers products. 3,742,232, 6-26-73, Cl. 235-151.300.
Kiehs, Karl; and Fischer, Adolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. S-(N-Isobutynyl-N-phenylcarbamoylmethyl) dithiophosphates. 3,752,869, 8-14-73, Cl. 260-943.000.
Kiehs, Karl; Koenig, Karl-Heinz; and Fischer, Adolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Substituted dinitroanilines. 3,770,779, 11-6-73, Cl. 260-349.000.
Kiekhaefer Aeromarine Motors, Inc.: *See—*
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Kiekhaefer, Elmer Carl. Wheel kit for snowmobiles. 3,774,706, 11-27-73, Cl. 180-5.00r.
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Kiel, Othar M., to Esso Production Research Company. Method of fracturing subterranean formations using oil-in-water emulsions. 3,710,865, 1-16-73, Cl. 166-308.000.
Kiel, Othar M., to Esso Production Research Company. Hydraulic fracturing method. 3,722,595, 3-27-73, Cl. 166-308.000.
Kiel, Othar M., to Esso Production Research Company. Treatment of wells with fluids containing complexes. 3,760,881, 9-25-73, Cl. 166-308.000.
Kiel, Othar M., to Esso Production Research Company. Method of treating a well using a volatile hydrocarbon liquid. 3,766,986, 10-23-73, Cl. 166-308.000.
Kiel, Robert H.; deceased (by Kiel, Jessie H.; administratrix); and Grinonneau, William C., to Owens-Illinois, Inc. Hydroxy functional acrylic ink. 3,729,339, 4-24-73, Cl. 117-124.00e.
Kielczewski, John J. Pipe pusher. 3,711,064, 1-16-73, Cl. 254-29.00r.
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Kielma, Ervin J.; and Schabowski, Albin J., to Kearney & Trecker Corporation. Spindle change mechanism for a multiple spindle head machine. 3,760,472, 9-25-73, Cl. 29-40.000.
Kielman, Fred S., Jr., to Sperry Sun Well Surveying Company. Circulating sleeve. 3,765,494, 10-16-73, Cl. 175-320.000.
Kielsmeier, lester O.; and Leprino, James G., to Leprino Cheese Mfg. Co. Apparatus for mixing cheese curd. 3,713,220, 1-30-73, Cl. 99-459.000.
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Kiemle, Horst; and Wolff, Ulrich, to Siemens Aktiengesellschaft. Liquid crystal matrix with contrast enhancement. 3,744,878, 7-10-73, Cl. 350-160.0lc.
Kiemle, Horst, to Siemens Aktiengesellschaft. One dimensional holographic recording of electrical signals. 3,770,886, 11-6-73, Cl. 178-6.70r.
Kienast, Gerhard: *See—*
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Kienast, Gerhard; Stutgens, Heribert; and Zander, Hans-Gunter, to Farbenfabriken Bayer Aktiengesellschaft. Production of titanyl sulfate solutions. 3,728,431, 4-17-73, Cl. 423-69.000.
Kienast, Gerhard; Stutgens, Heribert; and Zander, Hans-Gunter, to Bayer Aktiengesellschaft. Separation of magnetizable particles. 3,754,713, 8-28-73, Cl. 241-24.000.
Kienel, Joseph Edward. Decorative furniture and method of fabricating same. 3,742,871, 7-3-73, Cl. 108-150.000.
Kiener, Max. Topographical display device. 3,768,181, 10-30-73, Cl. 35-41.000.
Kiener, Michael A.; and Richman, Edward B., to Addressograph-Multigraph Corporation. Disposable blanket for printing presses. 3,773,551, 11-20-73, Cl. 117-138.50a.
Kienholz, Charles M.: *See—*
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Kieninger & Oberfell, Firma: *See—*
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Kienle, Raymond P.; Bass, Gerald R.; Deegan, James J.; and Kiwiets, Johannes, to Inland Steel Company. Rotational and translational motion controlling methods and apparatus for cylindrical articles and the like. 3,722,657, 3-27-73, Cl. 198-33.0ab.
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Kienzl, Arnold F.; and Thorp, Benjamin Adelbert, to Huyck Corporation. Papermaking machine dewatering devices having diverging trailing surfaces which include wear-bearing insert materials. 3,738,911, 6-12-73, Cl. 162-374.000.
Kienzle Apparate GmbH: *See—*
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Kienzle, Herbert; Dellheim, Walter; and Kelch, Heinz, to Kienzle Apparate G.m.b.H. Taxi meter with automatic rate adjustment. 3,736,408, 5-29-73, Cl. 235-30.000.
Kienzle, Jean Andre Paul; Huille, Michel Ernest Antoine; and Cabut, Louis Antoine. Phthalocyanines. 3,754,955, 8-28-73, Cl. 106-288.00q.
Kienzle, Jean Andre Paul; Hoille, Michel Ernest Antoine; and Cabut, Louis Antoine, to Ugine Kuhlmann. Phthalocyanines. 3,764,361, 10-9-73, Cl. 106-288.00q.
Kienzle, Jean Andre Paul; Huille, Michel Ernest Antoine; and Cabut, Louis Antoine, to Ugine Kuhlmann. Phthalocyanines. 3,767,442, 10-23-73, Cl. 106-288.00q.
Kienzle Uhrenfabriken G.m.b.H.: *See—*
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Kienzler, Wolfgang; and Burgdorf, Marten, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Forming hollow blanks. 3,740,992, 6-26-73, Cl. 72-361.000.
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Kierce, Thomas A. Method and apparatus for heating viscous sugar solutions. 3,711,330, 1-16-73, Cl. 127-9.000.
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Kierstead, Richard Wightman: *See—*
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Kierstead, Richard Wightman; and Lemahieu, Ronald Andrew, to Hoffmann-La Roche Inc. 2-Substituted-3-methylcyclopentadienes. 3,775,492, 11-27-73, Cl. 260-666.00a.



Kiesel, Robert J.; Randall, David I.; Field, Nathan D.; and Rudoff, Stanley, to GAF Corporation. Reaction products of poly n-vinylpyrrolidone or poly n-vinyl pyrrolidones with alkyl side chains and organic secondary or tertiary amines. 3,728,319, 4-17-73, I. 260-88.10r.
Kieser, Robert J.; Bass, John R.; and Donovan, John E., to United States of America, Navy. High-power underwater electroacoustic transducer for the infrasonic and low audio-frequency range. 3,760,346, 9-18-73, Cl. 340-8.00r.
Kieser, Robert J.; and Tims, Allan C., to United States of America, Navy. $H_{32}$ standard reference hydrophone. 3,760,348, 9-18-73, Cl. 340-10.000.
Kieserling, Th., & Albrecht: *See—*
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Kiess, Albert; Gunsser, Peter; and Kuhn, Edgar, to Bosch, Robert, G.m.b.H. Safety arrangement for starting motor in internal combustion engines. 3,712,283, 1-23-73, Cl. 123-179.00a.
Kiess, Helmut Gustav, to RCA Corporation. Pyroelectric photoconductive elements and method of charging same. 3,713,822, 1-30-73, Cl. 96-1.500.
Kiessling, Hans-Albrecht: *See—*
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Kiessling, Rudolf H., to Square D Company. Electric switch assembly for control stations having rectilinearly or rotatably movable switch operators located at different centers. 3,733,451; 5-15-73, Cl. 200-168.00r.
Kiessling, Rudolf H.; and Rothweiler, Richard C., to Square D Company. Miniature oil-tight push button and selector switch assembly and improved contact unit therefor. 3,740,501, 6-19-73, Cl. 200-16.00r.
Kietz, Lothar, to Kabelschlopp Gesellschaft mit beschrankter Haftung. Device for protecting the guiding path of a machine tool. 3,751,120, 8-7-73, Cl. 308-3.00a.
Kietzman, Richard C.: *See—*
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Kieves, Garry. Self-actuating record jacket holder. 3,712,477, 1-23-73, Cl. 211-40.000.
Kieves, Garry, to K-Tel International, Inc. Cigarette container and dispenser. 3,722,746, 3-27-73, Cl. 221-205.000.
Kieves, Garry, to K-Tel International, Inc. Shaft connection mechanism. 3,734,548, 5-22-73, Cl. 287-53.00r.
Kieves, Raymond, to K-Tel International Inc. Clamp arrangement. 3,747,170, 7-24-73, Cl. 24-263.00b.
Kievit, James M.; and Howe, James L., to Dick, A. B., Company. Address responsive controller for computer handling of peripheral equipment. 3,715,725, 2-6-73, Cl. 340-147.000.
Kiffmeyer, William W.: *See—*
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Kiffmeyer, William W.; and Radtke, Joseph D., to Allen-Bradley Company. Method and means for updating the position dimension of a numerically controlled machine tool. 3,752,969, 8-14-73, Cl. 235-151.110.
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Kigasawa, Kazuo; Hiiragi, Mineharu; and Wagatsuma, Nagatoshi, to Takeda Chemical Industries, Ltd., mesne. Azamorphinan compounds. 3,728,347, 4-17-73, Cl. 260-250.00a.
Kiger, Norman L.: *See—*
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Kightlinger, Adrian P.; Crosby, Edward K.; and Speakman, Edwin L., to Standard Brands Incorporated. Gelatinizable crosslinked cationic starch and method for its manufacture. 3,778,431, 12-11-73, Cl. 260-233.30r.
Kihara, Hidetoshi; Urifu, Tohoru; Yuasa, Osamu; and Ejiri, Satoki, to Daiwa Boseki Kabushiki Kaisha and Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Method and apparatus for cleaning spinning chamber in ringless spinning machine. 3,760,577, 9-25-73, Cl. 7-56.000.
Kihara, Hidetoshi; and Tsuzuki, Kanemitsu, to Daiwa Boseki Kabushiki Kaisha and Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Rotary spinning chamber for an open-end spinning machine. 3,775,957, 12-4-73, Cl. 57-58.890.
Kihara, Nobutoshi, to Sony Corporation. Magnetic recording and/or reproducing apparatus with automatic tape loading and unloading device. 3,740,495, 6-19-73, Cl. 179-100.20t.
Kihara, Nobutoshi. Mechanism for engaging a magnetic recording tape in a cassette and for withdrawing the tape from the cassette and placing the tape in engagement with the guide drum of a magnetic recording and/or reproducing apparatus. 3,770,904, 11-6-73 Cl. 179-100.2za.
Kihara, Nobutoshi; and Odagiri, Yoichi, to Sony Corporation. Rotary head magnetic recording and reproducing apparatus with pliant record disk in still reproduction of video signals. 3,778,559, 12-11-73, Cl. 178-6.6fs.
Kihlstedt, Per Gudmar, to AB Cold Bound Pellets. Method for agglomerating ore concentrate and resultant product. 3,725,032, 4-3-73, Cl. 75-3.000.
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Kiikka, Lauri W.; and Hartman, Ronald L., to Eastman Kodak Corporation. Apparatus for improving adhesion of gelatinols and other coatings to oriented and unoriented polymeric film. 3,755,683, 8-28-73, Cl. 250-542.000.
Kiisk, Allan. Range change method of determining positions. 3,710,331, 1-9-73, Cl. 343-112.00r.
Kiizumi, Rikihachiro, to Cosmo Toys Manufactory Limited. Car track. 3,736,700, 6-5-73, Cl. 46-206.000.
Kijima, Hiromitsu, to Tokyo Kogaku Kikai K.K. Suspension type levelling device. 3,772,798, 11-20-73, Cl. 33-348.000.
Kijima, Shizumasa; and Minami, Norio, to Eisai Co. Ltd. Basic amino-acid salts of tocopherylsuccinate. 3,719,690, 3-6-73, Cl. 260-345.500.
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Kikuchi, Hideyuki, to Kikuchi Natural and Applied Science Research Laboratory. Method of detecting subsurface objects. 3,745,575, 7-10-73, Cl. 343-12.00r.
Kikuchi, Junjiro, to Sankyo Kozaku Kogyo Kabushiki Kaisha. Automatic continuous record/playback means for tape cassette loading tape recorder. 3,781,019, 12-25-73, Cl. 274-4.00e.
Kikuchi, Katsutoshi: *See—*
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Kikuchi, Makoto, to Toyoda Koki Kabushiki Kaisha. Grinding machine with loader and work supporting shoes. 3,745,723, 7-17-73, Cl. 51-103.0wh.

Kikuchi, Makoto, to Toyoda Koki Kabushiki Kaisha. Spindle head device with spindle axial adjusting means. 3,746,411, 7-17-73, Cl. 308-168.000.

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Kikuchi, Michio: *See—*
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Kikuchi, Michitsugu; Kasahara, Akishige; and Fukuda, Takuji, to Bridgestone Tire Company Limited. Stranded metallic cord for reinforcing rubber articles. 3,762,145, 10-2-73, Cl. 57-145.000.

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Kikuchi, Takahiko; Nishio, Motohiro; Ito, Teiichiro; and Sekizawa, Yasuharu, to Meiji Seika Kaisha, Ltd. Method of anesthetizing aquatic animals using certain thiozole derivatives. 3,729,561, 4-24-73, Cl. 424-270.000.

Kikuchi, Tomio, to Kabushiki Kaisha Koparu. Time-keeping apparatus. 3,748,846, 7-31-73, Cl. 58-26.000.

Kikugawa, Kiyomi: *See—*
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Kikumoto, Syoichi: *See—*
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Kilbane, James A., Jr., to Lund, Norman W. Traction cleat and drive belt with such attached. 3,765,731, 10-16-73, Cl. 305-35.0eb.

Kilbane, John R.; and Wendt, Peter G., to Worthington-Cei Incorporated. Inlet, filter and noise suppressor enclosure for compressing apparatus. 3,736,074, 5-29-73, Cl. 417-279.000.

Kilbourn, Barry Tarbatt: *See—*
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Kilby, Jack S. System for disabling incoming telephone calls. 3,777,067, 12-4-73, Cl. 179-81.00r.

Kilby, Jack S. Binary encoding switch. 3,781,866, 12-25-73, Cl. 340-347.00p.

Kilcon, Inc.: *See—*
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Kilcullen, Robert. Occupant propelled coaster. 3,709,515, 1-9-73, Cl. 280-87.02w.

Kildishev, Vasily Semenovich: *See—*
Polulyakh, Valentin Stepanovich; Khodkevich, Viktor Nilolaevich; Yakovenko, Viktor Grigorievich; and Kildishev, Vasily Semenovich, 3,733,518.

Kildishev, Vasily Semenovich; Kovalkov, Gely Alexeevich; Maznikin, Nikolai Sergeevich; and Misjulin, Alexandr Vasilievich. Induction transducer of the excitation current of a synchronous generator. 3,733,505, 5-15-73, Cl. 310-112.000.

Kildishev, Vasily Semenovich; Kovalkov, Gely Alexeevich; Maznikin, Nikolai Sergeevich; Misjulin, Alexandr Vasilievich; and Lebeder, Alexandr Vladimirovich. Apparatus for measuring the insulation resistance of the rotor of a brushless synchronous machine. 3746,979, 7-17-73, Cl. 324-51.000.

Kilduff, Herbert, to Leesona Corporation. Severing apparatus for severing ballooning yarn during spinning or twisting. 3,747,314, 7-24-73, Cl. 57-34.00r.

Kilduff, Timothy J., to United States of America, Army. Reserve battery electrodes using bonded active materials. 3,751,301, 8-7-73, Cl. 136-26.000.

Kiley, John S.; and Jason, Robert C., to General Motors Corporation. Rolled adhesives tape having transverse edge slits. 3,747,748, 7-24-73, Cl. 206-58.000.

Kiley, Leo R., to Teledyne Industries, Inc. Internal combustion engine having a variable volume precombustion chamber. 3,777,724, 12-11-73, Cl. 123-78.00b.

Kilger, Hans-Joachim: *See—*
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Kilgore Corporation: *See—*
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Kilgore, Lee A.; Strait, Bernard S., Jr.; and Whitney, Eugene C., to Westinghouse Electric Corporation. Twin motor drive system. 3,735,217, 5-22-73, Cl. 318-100.000.

Kilgore, Marion D., to Camco, Incorporated. Downhole power dissipator. 3,709,294, 1-9-73, Cl. 166-243.000.

Kilgour, John; Payne, Peter Charles John; Reid, Stewart; and Everett, Erice George, to Rotary Hoes Limited and National College of Agricultural, The Governors of the. Agricultural machine. 3,739,907, 6-19-73, Cl. 209-26.000.

Kilgren, Karl H.: *See—*
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Kilian, Franz Peter: *See—*
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Kilian, Rodolfo G. Particle separation system. 3,738,090, 6-12-73, Cl. 55-349.000.

Killaly, John S., Sr. Punch press. 3,738,569, 6-12-73, Cl. 234-43.000.

Killark Electric Manufacturing Company: *See—*
Kaesser, Glenda F.; and Zavertnik, Marshall G., 3,739,128.
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Killen, Donald E., to Identification Systems, Inc. Fingerprint identification system and method. 3,781,855, 12-25-73, Cl. 340-146.30e.

Killen, Gene W., to Pyott-Boone, Inc. Multi-station safety monitor having shunt switch. 3,778,797, 12-11-73, Cl. 340-227.00r.

Killerby, Walter E.: *See—*
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Killian, William H.: *See—*
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Killian, William H., to Park-Ohio Industries, Inc. Method and circuit for interconnecting a plurality of inductors at the output transformer secondary. 3,737,611, 6-5-73, Cl. 219-10.750.

Killick, Donald Edward: *See—*
Bateman, Douglas Alfred; Burrell, Geoffrey John; and Killick, Donald Edward, 3,758,211.

Killilea, Daniel Edward, to Armstrong Cork Company. Universal trimming facility. 3,774,491, 11-27-73, Cl. 83-433.000.

Killingbeck, Graydon Wayne: *See—*
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Killinger, Gordon B.; and Beckham, Clarence F., to Institute of Food and Agriculture Sciences, The. Beverage from plants of the genus hemorthria. 3,709,694, 1-9-73, Cl. 99-28.000.

Killinger, William J. Table top clamp. 3,767,152, 10-23-73, Cl. 248-226.00e.

Killion, Derling G.; and Shacklock, Floyd B., to Ryan Aeronautical Company. Electromagnetic horn with moveable vane for generating monopulse radiation patterns. 3,733,610, 5-15-73, Cl. 343-786.000.

Killion, John: *See—*
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Killmann, Irolt G.; and Matto, Lawrence R., to Avco Corporation. Split housing piloting device. 3,741,680, 6-26-73, Cl. 415-219.00r.

Killmer, Donald H.; and Zvonek, Paul P. Portable coffer dam and method of making. 3,710,579, 1-16-73, Cl. 61-46.000.

Killmer, Roberta, to Meridian Decorator Accessories and Imports, Inc. Simulative keystone. 3,773,602, 11-20-73, Cl. 161-19.000.

Killmeyer, William S., 5% to Mears, Elsie Marie, 5% to Welsh, Thomas G. and 5% to Kardas, Michael J., Jr. Combined mechanical and photoelectric lock. 3,733,862, 5-22-73, Cl. 70-277.000.





Killmeyer, William S. Anti-theft arrangement for automobiles. 3,773,138, 11-20-73, Cl. 180-114.000.

Killoren, John J.; and Rubinate, Frank J., to United States of America, Army. Blocking microleaks in flexible food packages. 3,765,907, 10-16-73, Cl. 426-410.000.

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Kilmer, Charlie C.; and Orchard, Robert J., to International Business Machines Corporation. Acoustic coupler. 3,725,584, 4-3-73, Cl. 179-1.00c.

Kilmer, Dan L.: *See—*
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Kilmer, Lauren G., said Kilmer, Lauren G., assor. to Atlantic Richfield Company. Gas exploder apparatus with suction release. 3,746,120, 7-17-73, Cl. 181-.5nc.

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Kilpatrick, David G.: *See—*
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Kilpert, Richard: *See—*
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Kilroy, Eugene J., Jr., to Mattel, Inc. Construction set including headed fastener with shoulder thereon. 3,713,246, 1-30-73, Cl. 46-17.000.

Kilroy, Oliver B. Interlocked pallet and container system. 3,754,645, 8-28-73, Cl. 206-65.00b.

Kilroy, Oliver B. Interlocked pallet and container system. 3,756,396, 9-4-73, Cl. 206-65.000.

Kilsdonk, Harley, to Akzona Incorporated. Melt spinning apparatus. 3,762,854, 10-2-73, Cl. 425-382.200.

Kilsdonk, Jan Albert: *See—*
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Kilsheimer, John R.: *See—*
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Kiltz, Gerald H.: *See—*
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Kim, Byoung Woon, to Electronic Sensing Products, Inc. Animated display amusement device. 3,770,271, 11-6-73, Cl. 273-86.00r.

Kim, Chang Soo; and Palmer, Gerald G. Composite integrated circuits with coplanar connections to semiconductor chips mounted on a single substrate. 3,757,175, 9-4-73, Cl. 317-234.00r.

Kim, Charles W.: *See—*
Feild, George B.; and Kim, Charles W., 3,726,079.

Kim, Charles W., to Hercules Incorporated. Nonwoven fabric and process for preparing. 3,713,942, 1-30-73, Cl. 156-252.000.

Kim, Charles W., to Hercules Incorporated. Process for making chenille-type yarn. 3,715,878, 2-13-73, Cl. 57-156.000.

Kim, Charles W., to Hercules Incorporated. Method for preparing spun yarns. 3,724,198, 4-3-73, Cl. 57-140.00r.

Kim, Choong-Ki; and Snow, Edward H., to Fairchild Camera and Instrument Corporation. Charge coupled devices with continuous resistor electrode. 3,728,590, 4-17-73, Cl. 317-235.00r.

Kim, Chung K., to Raytheon Company. Back-to-back semiconductor high frequency device. 3,755,752, 8-28-73, Cl. 330-34.00r.

Kim, Dae K.: *See—*
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Kim, Dong H.: *See—*
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Santilli, Arthur A.; and Kim, Dong H., 3,726,869.
Santilli, Arthur A.; and Kim, Dong H., 3,732,226.
Santilli, Arthur A.; and Kim, Dong H., 3,748,352.

Kim, Dong H.; and Santilli, Arthur A., to American Home Products Corporation. 4-[(Cyanomethyl)alkylamino]-2-phenyl-5-pyrimidinocarboxylic acids, alkyl esters. 3,732,227, 5-8-73, Cl. 260-256.40n.

Kim, Dong H.; and Santilli, Arthur A., to American Home Products Corporation. Preparation of pyrimido(5,4-C) (1,5) benzoxazepin-5(11H)-ones and intermediates. 3,759,922, 9-18-73, Cl. 260-256.0yf.

Kim, Dong H.; and Santilli, Arthur A., to American Home Products Corporation. Substituted 2-phenyl-5H-pyrrolo[2,3-d] pyrimidine-5,6-(7H)-diones useful as CNS depressants. 3,775,412, 11-27-73, Cl. 260-256.40f.

Kim, Gwan: *See—*
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Kim, Jong An. Disposable tobacco cartridge with tamper. 3,765,423, 10-16-73, Cl. 131-3.000.

Kim, Jong-Seung. Article for producing a beverage. 3,767,420, 10-23-73, Cl. 426-77.000.

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Kim, Raymond W. H.: *See—*
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Kim, Sang-Chul, to General Electric Company. Photo-flash firing circuit employing parallel resistor-diode combinations. 3,748,084, 7-24-73, Cl. 431-95.000.

Kim, Sang-Chul, to General Electric Company. Lamp fixture having dichoric filter arrangement for selectively directing heat and light. 3,769,503, 10-30-73, Cl. 240-41.35r.

Kim, Sin Ho: *See—*
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Kim, Tae Hak. Process for production of tobacco composition and composition made hereby. 3,747,607, 7-24-73, Cl. 131-140.00b.

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Kim, Tai K.; Paganozzi, L. Rita; MacInnis, Martin B.; and Laferty, John M., to GTE Sylvania Incorporated. Recovery of molybdenum. 3,770,869, 11-6-73, Cl. 423-54.000.

Kim, Young D.: *See—*
Formaini, Robert L.; and Kim, Young D., 3,759,853.

Kim, Young Ho; Pattison, John N.; and Johnson, Kenneth W., to AMBAC Industries, Incorporated. Gas analyzer. 3,771,960, 11-13-73, Cl. 23-232.00e.

Kim, Young Kwon: *See—*
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Kimball, Pleasent P.; Hagey, Robert H.; and Macaulay, Malcolm J. Emergency warning systems. 3,710,313, 1-9-73, Cl. 340-33.000.

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Westeren, Herbert W.; Kimball, William H.; Scotto, Vincent; and Vanderford, Wallace S., Jr., 3,718,324.

Kimbel, Karl-Heimz: *See—*
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Kimberlin, Charles N., Jr.; and Hamner, Glen P., to Esso Research and Engineering Company. Hydrogen production from an integrated coker gasifier system. 3,726,791, 4-10-73, Cl. 208-127.000.
Kimberlin, Charles Newton, Jr.; and Voorhies, Alexis, Jr., to Esso Research and Engineering Company. Hydrocarbon conversion system. 3,764,520, 10-9-73, Cl. 208-111.000.
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Kimbro, Exall L., Jr.; and Kimbro, Clara D. Bedpan apparatus. 3,728,744, 4-24-73, Cl. 4-113.000.
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Kime, Robert Clarence; and Miller, Warren Frederick, to Keithley Instruments, Inc. Synchronous demodulator having an improved driving circuit. 3,714,593, 1-30-73, Cl. 329-50.000.
Kime, Roger A. Filament coating apparatus. 3,780,699, 12-25-73, Cl. 118-420.000.
Kimel, Eugene. Openable ring for curtains. 3,772,734, 11-20-73, Cl. 16-87.200.
Kimm, Herbert J. Electric wire connecting device. 3,766,514, 10-16-73, Cl. 339-99.00r.
Kimmel, Ardean. Small diameter irrigation pump. 3,776,664, 12-4-73, Cl. 417-243.000.
Kimmel, Cleve C.; and Moll, John H., to Parker-Hannifin Corporation. Transit handling system for volatile fluids. 3,717,006, 2-20-73, Cl. 62-48.000.
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Kimura, Ichiro; Takahashi, Yoshiro; and Ito, Hideo, to Kumiai Chemical Industry Co., Ltd. Herbicidal composition of thiocarbamate and 3(3,4-dichlorophenyl)-1-methoxy-1-methylurea. 3,746,532, 7-17-73, Cl. 71-100.000.
Kimura, Isao; Matsui, Masao; Takahashi, Hiroshi; and Takemoto, Shizume, to Kanegafuchi Boseki Kabushiki Kaisha. Polyamide, fibers composed of the polyamide and methods for producing thereof. 3,729,449, 4-24-73, Cl. 260-78.00r.
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Kimuro, Tadao; and Ataniya, Takeshi, to Nippon Kokan Kabushiki Kaisha. Method of improving the surface of galvanized steel material. 3,712,826, 1-23-73, Cl. 117-22.000.
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Kincade, Claude Robert. Variable venturi carburetors. 3,778,041, 12-11-73, Cl. 261-50.00a.
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Kind, Ronald W., to General Motors Corporation. Fiber optic liquid level indicator. 3,713,338, 1-30-73, Cl. 73-293.000.
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Kindermann, Wilfred Julius; and Knab, Emil David, to Bell Telephone Laboratories, Incorporated. Method and apparatus for bending an elongated object. 3,731,513, 5-8-73, Cl. 72-295.000.
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Kindl, Erwin; and Gerigk, Gunter, to Kalle Aktiengesellschaft. Process and apparatus for coating a tube of fiber material with viscose by extrusion. 3,709,720, 1-9-73, Cl. 117-95.000.
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Kindore, Harry L. Locking wire cinch strap. 3,721,412, 3-20-73, Cl. 248-73.000.
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King, Charles Spencer, to Standard-Triumph Motor Company Limited, The. Vehicle suspension. 3,768,584, 10-30-73, Cl. 180-73.00r.
King, Dallas E., to General Motors Corporation. Actuator assembly. 3,767,985, 10-23-73, Cl. 310-83.000.
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King, Graham Garton, to Societe PIV. Automatic chain or belt retensioning device for variable-speed drive. 3,750,487, 8-7-73, Cl. 74-252.800.
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King, Herbert P., to Deering Milliken Research Corporation. Yarn guide. 3,739,564, 6-19-73, Cl. 57-36.000.
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King, Jack B., to General Motors Corporation. Venturi vacuum responsive exhaust gas recirculation control system. 3,774,583, 11-27-73, Cl. 123-119.00a.
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King, James L., to King Instrument Corporation. Splicer head assembly for use in splicing tape to leaders. 3,737,358, 6-5-73, Cl. 156-502.000.
King, James L., to King Instrument Corporation. Apparatus for splicing magnetic tape. 3,753,834, 8-21-73, Cl. 156-506.000.
King, James L., to King Instrument Corporation. Splicing tape dispenser-applicator. 3,753,835, 8-21-73, Cl. 156-506.000.
King, James Ping, to Pennwalt Corporation. Heat and abrasion resistant textiles. 3,709,721, 1-9-73, Cl. 117-104.00r.
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King, John; and Lord, George Harry, to Fisons Pharmaceuticals Limited. Pharmaceutically active bis-carboxychromone compounds. 3,720,690, 3-13-73, Cl. 260-345.200.
King, John Edward, to Master Chemical Corporation. Aqueous cutting fluid which protects ferrous metals against corrosion. 3,719,598, 3-6-73, Cl. 252-33.400.
King, John F. DC to AC inverter. 3,781,643, 12-25-73, Cl. 321-45.00c.
King, John Frederick; and Packer, Robert Kenneth, to Magnesium Elektron Limited. Electric batteries and alloys therefor. 3,719,530, 3-6-73, Cl. 136-100.00m.
King, John L., Jr.; and Koch, Roland G., to Houdaille Industries, Inc. Tool holder with spring operated nut. 3,730,540, 5-1-73, Cl. 279-91.000.
King, John L., Jr. Transducer mounting assembly. 3,753,219, 8-14-73, Cl. 340-5.00r.
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King, Kenneth Gordon, to Westinghouse Brake and Signal Company Limited. Fail-safe lamp filament monitoring circuit. 3,725,728, 4-3-73, Cl. 315-65.000.
King, Kenneth L. Ski binding. 3,754,769, 8-28-73, Cl. 250-11.35t.
King, Kenneth O., to Mead Corporation, The. Liquid drop printing or coating system. 3,739,395, 6-12-73, Cl. 346-75.000.
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King, Lloyd H., Sr. Drainage reservoir. 3,762,437, 10-2-73, Cl. 137-512.000.
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King, Lowell A.: *See—*
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King, Robert David, to Triplex Safety Glass Company Limited. Transparent articles. 3,720,541, 3-13-73, Cl. 117-211.000.
King, Robert E.; and Thompson, David F., to Sylvania Electric Products, Inc. Process for making integrated circuit packages. 3,719,566, 3-6-73, Cl. 204-15.000.
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King, Roger A.; and Burton, Keith O., to Bur Kin Homes Corporation. Floor frame structure. 3,738,678, 6-12-73, Cl. 280-106.00r.
King, Roger P.: *See—*
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King, Roger P., to Libbey-Owens-Ford Company. Heat sink for tubular conveyor rolls. 3,779,735, 12-18-73, Cl. 65-356.000.
King, Samuel F., to Mobil Oil Corporation. Hot oil leak detection. 3,708,245, 1-2-73, Cl. 417-13.000.
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King, Thomas M.; and Vandersall, L., to Monsanto Company. Methods of inhibiting corrosion with ethane diphosphonate compositions. 3,714,066, 1-30-73, Cl. 252-389.00a.
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King, William L., to Datavision, Inc. Mechanical arrangement of the television generator. 3,781,875, 12-25-73, Cl. 340-365.00r.
King, William M., to Maxwell Laboratories, Inc. High voltage energy storage capacitor. 3,711,746, 1-16-73, Cl. 317-258.000.
King, William M., to Aerojet-General Corporation. Apparatus for the production of anhydrous spherical ammonium perchlorate useful in rocket propellants. 3,716,315, 2-13-73, Cl. 18-2.600.
King, William M., to United States of America, Interior, Dynamics reverse osmosis membranes of ultrathin discs. 3,764,526, 10-9-73, Cl. 210-23.000.
King, William R., to Sandoz-Wander, Inc. Switching mechanism for nebulizer-humidifiers. 3,730,225, 5-1-73, Cl. 137-625.480.
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King, William R., to Sandoz-Wander, Inc. Flexible nasal camera. 3,754,552, 8-28-73, Cl. 128-206.000.
King, William Roy. Fluid flow proportioning device. 3,752,176, 8-14-73, Cl. 137-118.000.
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Kingsbury, Charles M.; and Colby, Harold S., to Emhart Corporation. Apparatus for installing insulation on a staple. 3,751,902, 8-14-73, Cl. 59-71.000.
Kingsbury, Richard F., to Litronix, Inc. Solid state alphanumeric indicator and lead frame. 3,781,584, 12-25-73, Cl. 313-109.500.
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Kingston, Alan Cyril, to Granure Corporation Limited, The, mesne. Thermosettable resin-based mouldable facing compounds. 3,714,113, 1-30-73, Cl. 260-40.00r.
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Kingston, George W., to Timber Engineering Company. Sill plate anchor device. 3,750,360, 8-7-73, Cl. 52-714.000.
Kingston, Kenneth D. Shag rug groomer. 3,740,788, 6-26-73, Cl. 15-142.000.
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Kinkel, Christian Frederick; and Phalin, Thomas Lawrence, to American Can Company. Full panel self-opening end closure. 3,715,052, 2-6-73, Cl. 220-54.000.
Kinkel, Christian Frederick, to American Can Company. Full open end having chordal start tear score sections. 3,735,892, 5-29-73, Cl. 220-54.000.
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Kinley, John C. Device for expanding a tubing liner. 3,780,562, 12-25-73, Cl. 72-479.000.
Kinley, Myron M. Fishing tool. 3,758,145, 9-11-73, Cl. 294-86.029.
Kinnaird, Laird D.; Moorhead, Seth B., Jr.; and Casadevall, James L., to United States of America, Army. Rain resistant, high strength, ablative nose cap for hypersonic missiles. 3,745,928, 7-17-73, Cl. 102-105.000.
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Kinney, C. Mills, Jr.; and Daringer, Ronald G., to Plastic Tubes Company; division of Multi-Tech, Incorporated. Method of fabricating electrical component. 3,775,527, 11-27-73, Cl. 264-159.000.
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Kinney, Robert E.; Coty, Vernon F.; and Williams, Albert L., to Mobil Oil Corporation. Sulfur-containing carboxylic acids as corrosion inhibitors. 3,755,176, 8-28-73, Cl. 252-48.600.
Kinney, S. P., Engineers, Inc.: *See—*
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Osborn, Fred; and Kinney, Selwyne P., 3,738,820.
Kinney, Selwyne P.: *See—*
Osborn, Fred; and Kinney, Selwyne P., 3,738,820.
Kinney, Thomas D.; and Pickett, John E. P. Apparatus for slit .g an electron microscopy tissue embedding capsule casing. 3,733,950, 5-22-73, Cl. 83-425.300.
Kinney, Thomas D.; and Pickett, John E. P. Electron microscopy tissue grid staining and storing rack and method. 3,768,914, 10-30-73, Cl. 356-244.000.
Kinney, Thomas D.; and Pickett, John E. P. Automatic tissue processor. 3,771,490, 11-13-73, Cl. 118-7.000.
Kinney, Thomas D.; and Pickett, John E. P. Apparatus for embedding electron microscopy tissue. 3,779,681, 12-18-73, Cl. 425-160.000.
Kinoshita, Haruo, to Yamaha Hatsudoki Kabushiki Kaisha. Reciprocating piston type engines having weight for balancing primary inertial forces. 3,744,342, 7-10-73, Cl. 74-604.000.
Kinoshita, Hidejiro: *See—*
Hayashi, Tsuneto; Kinoshita, Hidejiro; and Iwahashi, Koji, 3,712,317.
Kinoshita, Hisashi, to Kabushiki Kaisha Fuji Tekkosho. Film winding machine. 3,727,853, 4-17-73, Cl. 242-56.00a.
Kinoshita, Ikuya: *See—*
Nakagawa, Yunosuke; Iwasa, Ichiro; and Kinoshita, Ikuya, 3,758,409.
Kinoshita, Joshyo: *See—*
Rosztoczy, Ferenc E.; Casau, Celestin J.; and Kinoshita, Joshyo, 3,770,518.
Kinoshita, Kazuhisa: *See—*
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Mimino, Tohru; Kinoshita, Kazuhisa; Tanaka, Ryohei; and Shinoda, Takayuki, 3,716,353.
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Kinoshita, Koichi: *See—*
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Kinoshita, Koichi; and Kawamura, Takao, to Katsuragawa Denki Kabushiki Kaisha. Photosensitive elements for use in electrophotography and method of manufacturing same. 3,708,291, 1-2-73, Cl. 96-1.500.
Kinoshita, Koichi; and Watanabe, Masanori, to Katsuragawa Denki Kabushiki Kaisha. Method for electrophotography. 3,730,709, 5-1-73, Cl. 96-1.400.
Kinoshita, Koichi; Uehara, Shiro; Nagame, Hiroshi; and Yamada, Kazukiyo, to Katsuragawa Denki Kabushiki Kaisha. Method for removing corona discharge contaminants in electrophotography. 3,770,429, 11-6-73, Cl. 96-1.00r.
Kinoshita, Kunihiko: *See—*
Suzuki, Seiya; Mizuhata, Yasuo; Kinoshita, Kunihiko; and Godo, Takanobu, 3,725,391.
Kinoshita, Mikio: *See—*
Murayama, Yoshinobu; Morimoto, Tadashi; Kinoshita, Mikio; and Yamanishi, Isamu, 3,733,912.
Kinoshita, Saijiro; and Shinmura, Katsunobu, to Teijin Limited. Knives for fiber tow-cutting apparatus. 3,732,771, 5-15-73, Cl. 83-663.000.
Kinoshita, Shigenori: *See—*
Sawa, Kunihiko; Kinoshita, Shigenori; and Kaimoto, Masahiro, 3,748,560.
Kinoshita, Tsukuru: *See—*
Otsuka, Masatomi; Hirose, Yoshio; Kinoshita, Tsukuru; and Misawa, Takesi, 3,752,849.



Kinoshita, Tsuneo: *See—*
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Kinoshita, Yoshiaki, to Mitsui Shipbuilding and Engineering Co., Ltd. Floating structure for unloading liquid cargo. 3,741,264, 6-26-73, Cl. 141-383.000.
Kinoshita, Yoshitsugu: *See—*
Yumiyama, Seisuke; Kinoshita, Yoshitsugu; Kusunoki, Tadashi; Okada, Toshihiko; and Shimizu, Susumu, 3,727,580.
Kinoshita, Yukio: *See—*
Oushige, Takayoshi; Kinoshita, Yukio; Iizuka, Kikuo; and Nishimiya, Yutaka, 3,725,808.
Kinross, John, to Lancer Boss Limited. Lifting apparatus. 3,709,392, 1-9-73, Cl. 214-620.000.
Kinross, Rupert Ivor: *See—*
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Kinsch, Anton H., Jr.; Rogers, William M.; and Lake, Robert A., to Crucible Inc. Furnace and method for heating and compacting powdered metal charges. 3,743,261, 7-3-73, Cl. 266-24.000.
Kinsel, Norma A.; and Leathen, William W., to Gulf Research & Development Company. Process for cultivating acetic acid-containing yeasts. 3,775,252, 11-27-73, Cl. 195-30.000.
Kinsel, Tracy Stewart, to Bell Telephone Laboratories, Incorporated. Stabilized mode-locked laser arrangement. 3,713,042, 1-23-73, Cl. 331-94.500.
Kinsel, Tracy Stewart, to Bell Telephone Laboratories, Incorporated. Optical communication system with PCM encoding with plural discrete unequally spaced intensity levels. 3,714,437, 1-30-73, Cl. 250-199.000.
Kinsel, Tracy Stewart, to Bell Telephone Laboratories, Incorporated. Spacially multiplexed optical beam communication system. 3,755,676, 8-28-73, Cl. 250-199.000.
Kinsel, Tracy Stewart; and Smith, Richard Grand, to Bell Telephone Laboratories, Incorporated. Simultaneously Q-switched and mode-locked laser. 3,763,443, 10-2-73, Cl. 331-94.500.
Kinsella, Howard R.; Love, John J.; Smith, Carl A.; and Visos, Charles D., to Emerson Electric Co. Gas burner control device with low pressure cutoff. 3,711,236, 1-16-73, Cl. 431-53.000.
Kinsella, Richard I.: *See—*
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Kinser, Robert W., to New Products Corporation. Internal combustion engine exhaust catalytic reactor, with electrical charge means. 3,755,120, 8-28-73, Cl. 204-164.000.
Kinsey, Ernest V. Kite assembly. 3,749,338, 7-31-73, Cl. 244-153.00r.
Kinsey, James H. Rotary handgrip assembly for operating both the transmission gear lever of a motor truck and a push-pull speed-ratio control switch on that lever. 3,774,468, 11-27-73, Cl. 74-473.00r.
Kinsey, Lewis R. Prefabricated tapered columns. 3,727,363, 4-17-73, Cl. 52-731.000.
Kinsey, Lewis R. Press fit outlet junction box with means for detachably interlocking with electrical cord. 3,744,004, 7-3-73, Cl. 339-74.00r.
Kinsey, Lewis R. Storage battery with exchangeable elements. 3,781,175, 12-25-73, Cl. 136-7.000.
Kinsey, Richard S.: *See—*
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Kinsinger, William C.; Ippolito, James; and Pisarri, Vincent, to Metagraphic Systems, Inc. Film viewer. 3,762,810, 10-2-73, Cl. 353-68.000.
Kinstler, Robert C., to American Cyanamid Company. Production of 4-nitrosodiphenylamine. 3,748,362, 7-24-73, Cl. 260-576.000.
Kinswood, A. T., and Company Limited: *See—*
Varley, George Wallace, 3,766,564.
Kinsworthy, Donald D.: *See—*
Griffith, Jerry L.; and Kinsworthy, Donald D., 3,776,530.
Kinter, Malcolm L.: *See—*
Antypas, George A.; and Kinter, Malcolm L., 3,769,536.
Kintish, Irving L.; and Marcus, Irwin, to United States of America, Army. Projectile with differential tandem shaped charges. 3,750,582, 8-7-73, Cl. 102-56.000.
Kinugasa, Terukazu: *See—*
Wakabayashi, Takashi; Kinugasa, Terukazu; Hozumi, Shiro; and Sugihara, Kanji, 3,719,933.
Kinyaev, Boris Alexeevich: *See—*
Taburinsky, Grigory Semenovich; Kholodenko, Petr Iosifovich; Lisitsyn, Konstantin Mikhailovich; Kinyaev, Boris Alexeevich; Krichevsky, Lev Abramovich; Novozhilov, Nikolai Fedorovich; Sverdlik, Naum Borisovich; and Poplavsky, Vladislav Iosifovich, 3,747,665
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Kinzel, Richard; and Mladek, Walter, to Bosch, Robert, G.m.b.H. Fuel injection nozzle. 3,777,986, 12-11-73, Cl. 239-533.000.
Kinzel, Walter: *See—*
Wagner, Gerhard; and Kinzel, Walter, 3,754,293.
Kinzer, Kenneth D.: *See—*
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Kinzer, William K.: *See—*
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Kinzler, Fritz: *See—*
Efssel, Dietrich; Hiersign Heinz; Kinzler, Fritz; Russmann, Werner; and Schulz, Helmut, 3,719,060.
Kinzler, Raymond C.; and Jonnet, Albert G. Apparatus for handling lids and charging coal into coke ovens. 3,709,387, 1-9-73, Cl. 214-35.00r.
Kinzler, Raymond C.; Edgar, William D.; and Sustarsic, John D., to Koppers Company, Inc. Coke oven machinery door extractor shroud. 3,709,794, 1-9-73, Cl. 202-248.000.
Kinzler, Raymond C.; and Staats, Robert M., to Koppers Company, Inc. Flexible belt movable hood. 3,729,384, 4-24-73, Cl. 202-263.000.
Kioritz Corporation: *See—*
Kobayashi, Torao; and Miyata, Hiromasa, 3,734,070.
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Bart, Ronald K.; and Kiovsky, Joseph R., 3,736,267.
Kiovsky, Thomas E.; and Wald, Milton M., to Shell Oil Company. Hydrogenation catalyst and process. 3,725,239, 4-3-73, Cl. 208-10.000.
Kiovsky, Thomas E., to Shell Oil Company. Process for hydrocracking heavy hydrocarbons. 3,764,515, 10-9-73, Cl. 208-10.000.
Kiowski, John W., to Mandrel Industries, Inc. Digital sweep generator for generating analog signals. 3,739,374, 6-12-73, Cl. 340-347.0da.
Kipling, Barry John, to Pye Limited. Medical respirators. 3,714,941, 2-6-73, Cl. 128-145.800.
Kipling, Barry John, to Rye Limited. Medical respirator. 3,734,092, 5-22-73, Cl. 128-145.500.
Kipling, Barry John, to Pye Limited. Medical respirators. 3,741,209, 6-26-73, Cl. 128-145.800.
Kipling, Barry John, to Pye Limited. Cyclically operated medical respirators. 3,754,550, 8-28-73, Cl. 128-145.800.
Kipling, Rudyard William, to Ingersoll-Rand Company. First fault annunciator system. 3,729,734, 4-24-73, Cl. 340-415.000.
Kipp, Henry A. W.: *See—*
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Kipp, Karl F.: *See—*
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Kippenhan, B. William, to International Business Machines Corporation. Gas panel display having monogram type characters with matrix addressable strokes. 3,760,403, 9-18-73, Cl. 340-336.000.
Kipple, Harry P.; Price, Charles E.; and Leader, Adam M., to Westinghouse Electric Corporation. Method of preparing insulated coil in slotted core. 3,710,437, 1-16-73, Cl. 29-596.000.
Kipple, Harry P.; Cozzarin, Virgil J.; and Kapperman, Francis C.; deceased (by Kapperman, Dorothy M.; administratrix), to Westinghouse Electric Corporation. Oven for controlling heating and curing of resinous insulating material. 3,732,066, 5-8-73, Cl. 2632.00r.
Kipple, Harry P.; and Sturman, Brian J., Jr., to Westinghouse Electric Corporation. Applicator for powdered resinous material. 3,747,853, 7-24-73, Cl. 239-187.000.
Kipple, Harry P.; Cozzarin, Virgil J.; and Kapperman, Francis C.; deceased (by Kapperman, Dorothy M.; administratrix), to Westinghouse Electric Corporation. Shaker device for compacting powdered resin into slots of magnetic cores. 3,752,116, 8-14-73, Cl. 18-57.000.
Kipple, Harry P.; Kapperman, Francis C.; deceased (by Kapperman, Dorothy M.; administratrix); and Cozzarin, Virgil J., to Westinghouse Electric Corporation. Automatic grinding and machining apparatus. 3,769,756, 11-6-73, Cl. 51-43.000.
Kipsch, Ernst-Guenter, to Herlag Holzwarenfabrik Kommanditgesellschaft. Perambulator. 3,741,579, 6-26-73, Cl. 280-47.380.
Kirby, Charles Raymond: *See—*
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Kirby, David B.; and Kroening, Roger D., to Dow Chemical Company, The. Method of treating clay to improve optical. 3,753,753, 8-21-73, Cl. 106-288.00b.
Kirby, Gary N.: *See—*
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Kirby, Harold W., to United States of America, Atomic Energy Commission. Separation of lead-210 from polonium-210 and bismuth-210. 3,758,663, 9-11-73, Cl. 423-2.000.

Kirby, Harold W., to United States of America, Atomic Energy Commission. Removal of radioisotopes from waste solutions. 3,764,553, 10e9-73, Cl. 252-301.10r.

Kirby, Harry Ashley: *See—*
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Kirby, James D.; Hetzel, Douglas R.; McKay, Richard H.; Snydacker, James U.; and Ziebold, Paul G., to Thornber, Frank, Co. Electronic voting machine. 3,779,453, 12-18-73, Cl. 235-54.00f.

Kirby, Peter: *See—*
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Kirby, Peter; and Hass, Duane K., to Shell Oil Company. Furan and thiophene substituted vinyl phosphates. 3,720,687, 3-13-73, Cl. 260-332.500.

Kirby, Robert A.; and Propst, Billy J., to Esso Production Research Company. Electrical amplifying apparatus for electrical signals of progressively decaying average amplitude. 3,710,259, 1-9-73, Cl. 325-187.000.

Kirby, Robert A.; and Propst, Billy J., to Esso Production Research Company. Seismic radio telemetry system. 3,714,576, 1-30-73, Cl. 325-61.000.

Kirby, Robert A., to Esso Production Research Company. Marine seismic source. 3,744,020, 7-3-73, Cl. 340-12.0sd.

Kirby, Russell B., Jr.; and Wing, Stephen C., to Minnesota Mining and Manufacturing Company. Method of casting in thin-walled molds. 3,760,864, 9-25-73, Cl. 164-126.000.

Kirby, Russell F. Preventing wire cable kinking. 3,768,525, 10-30-73, Cl. 140-147.000.

Kirch, Hans-Joachim: *See—*
Levacher, Friedrich; Dornseifer, Karl; Nolting, Karl-Heinz; Frielingsdorf, Helmut; and Kirch, Hans-Joachim, 3,771,069.

Kirchdorf, Josef, to Ghielmetti AG. Multi-contact data module having a connection matrix and a switching body and actuator plug template. 3,725,621, 4-3-73, Cl. 200-46.000.

Kircher, Charles E., Jr.: *See—*
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Kircher, Dieter: *See—*
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Fink, Werner; Kircher, Dieter; and Rauschenbach, Reinhard, 3,761,751.
Fink, Werner; and Kircher, Dieter, 3,774,977.

Kircher, Paul J., to Westinghouse Electric Corporation. Automatic coffeemaker with audible signal means. 3,781,521, 12-25-73, Cl. 219-442.000.

Kirchgessner, Edwin M.; and Jones, Nelson A., to Caterpillar Tractor Company. Engine mount with thrust limiting and damping means. 3,770,231, 11-6-73, Cl. 248-9.000.

Kirchgessner, Robert W., to Applied Communication Inc. Portable viewing theater. 3,779,634, 12-18-73, Cl. 353-17.000.

Kirchheim, Jean-Jacques, to Saint-Gobain. Method of and apparatus for the production of pads or mats of fibers from thermoplastic materials. 3,746,524, 7-17-73, Cl. 65-6.000.

Kirchhoff, Kurt, to Schneider, Jos., & Co. Optische Werke. Reproduction camera with variable image scale. 3,743,414, 7-3-73, Cl. 355-52.000.

Kirchhoff, Kurt. Variable focal length anamorphotic cinecamera systems. 3,751,136, 8-7-73, Cl. 350-181.000.

Kirchlechner, Hans: *See—*
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Kirchmayr, Rudolf, to Ciba-Geigy Corporation. Process for the production of chlorine-containing V-triazole compounds. 3,708,475, 1-2-73, Cl. 260-240.00c.

Kirchmeyer, Paul A., to Riencell Boats, Inc. Loader for elevating a load onto an automotive vehicle top. 3,777,922, 12-11-73, Cl. 214-450.000.

Kirchner, Frederick K., to Sterling Drug Inc. Anticoccidiosis method and compositions involving indazolylphenylureas and indazolylphenylthioureas. 3,711,610, 1-16-73, Cl. 424-273.000.

Kirchner, Frederick K., to Sterling Drug Inc. Anticoccidiosis method and compositions. 3,764,694, 10-9-73, Cl. 424-285.000.

Kirchner, Harry W., Jr.: *See—*
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Kirchner, Henry P.; and Platts, Dennis R. (said Platts assor. to said), 3,736,171.
Kirchner, Henry P.; and Walker, Ralph E., 3,758,328.

Kirchner, Henry P. Method of strengthening ceramic material by glazing and quenching. 3,712,830, 1-23-73, Cl. 117-125.000.

Kirchner, Henry P.; Walker, Ralph E.; and Gruver, Robert M., to Kirchner, Henry P. Method of strengthening ceramic bodies and strengthened ceramic bodies produced thereby. 3,713,877, 1-30-73, Cl. 117-123.00a.

Kirchner, Henry P.; and Platts, Dennis R., said Platts assor. to said Kirchner, Henry P. Method of strengthening ceramics using ion exchange. 3,736,171, 5-29-73, Cl. 117-62.000.

Kirchner, Henry P.; and Walker, Ralph E., to Kirchner, Henry P. Method of strengthening alumina and spinel bodies. 3,758,328, 9-11-73, Cl. 177-107.20p.

Kirchner, Jack R.: *See—*
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Kirchner, Myron C., to Tubal Industries, Inc., mesne. Reinforced shadow mask for colored TV picture tubes. 3,722,043, 3-27-73, Cl. 29-25.110.

Kirchner, Willi; and Braune, Gerhard, to Kugelfischer Georg Schafer & Co. Fuel feed regulating device. 3,777,727, 12-11-73, Cl. 123-119.00r.

Kirgloves Hitchin Limited: *See—*
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Kiriazides, Demosthenes K.: *See—*
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Kiriki, Yasunori: *See—*
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Kirilishin, Vsevolod Petrovich; and Khitarov, Nikolai Ivanovich. Method of obtaining chemical resistant concrete. 3,754,952, 8-28-73, Cl. 106-84.000.

Kirillov, Vladimir Ivanovich; and Batyrev, Alexei Vasilievich. Device for feeding welding wire or electrodes. 3,746,232, 7-17-73, Cl. 226-187.000.

Kirin Beer Kabushiki Kaisha; a/k/a Kirin Brewery Co., Ltd.: *See—*
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Kirincic, Joseph A.; and Heitner, Raymond J., to Dreis & Krump Manufacturing Company. Press brake ram leveling. 3,763,690, 10-9-73, Cl. 72-447.000.

Kiritani, Masataka: *See—*
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Kiriu, Yoshihito. Nib and writing instrument construction with capillary action. 3,718,401, 2-27-73, Cl. 401-199.000.

Kirk, Bradley S.: *See—*
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Kirk, Charles C.: *See—*
Gregorian, Razmic S.; Kirk, Charles C.; and Cute, James A., 3,736,218.

Kirk, Donald, Jr., to Television Communications Corporation. Electronic communication apparatus for selectively distributing supplementary private programming. 3,730,980, 5-1-73, Cl. 178-5.100.

Kirk, Donald, Jr.; and Coryell, Austin S., to Television Communications Corporation. Electronic communication apparatus employing encripted signal distribution. 3,733,431, 5-15-73, Cl. 178-5.100.

Kirk, Donald, Jr.; and Pallini, Michael J., to Digital Communications, Inc. Multiplexed video and subcarrier microwave communications system. 3,773,979, 11-20-73, Cl. 179-51,0fd.

Kirk, Frank: *See—*
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Kirk, Frank T.: *See—*
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Kirk, Frederick Arthur: *See—*
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Kirk, James A.: *See—*
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Kirk, James Rodney: *See—*
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Kirk, Joseph Pennell, to International Business Machines Corporation. Structure for making phase filters. 3,777,633, 12-11-73, Cl. 95-1.00r.

Kirk, Merritt C., Jr.: *See—*
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Kirk, Ralph W.: *See—*
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Kirk, Robert T., to Eaton Corporation, mesne. Discrete controller. 3,744,028, 7-3-73, Cl. 340-172.500.

Kirk, Robert T., to Eaton Corporation, mesne. Multiplexer. 3,755,785, 8-28-73, Cl. 340-172.500.

Kirk, Russell R.: *See—*
Foster, Jack D.; Kirk, Russell R.; and Moreno, Frederick E., 3,772,610.

Kirkemo, Lillian F. Refrigerator guard. 3,757,958, 9-11-73, Cl. 211-153.000.





Kirkham, Edward E., to Kearney & Trecker Corporation. Input data sampling scheme for computer controlled machine tools. 3,777,128, 12-4-73, Cl. 235-151.110.

Kirkham, Harold: *See—*
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Kirkham, Kathleen E.: *See—*
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Kirkhof Manufacturing Corporation: *See—*
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Kirkhuff, Ellison H.: *See—*
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Kirkland, Joseph J.; and Yates, Paul C., to Du Pont de Nemours, E. I., and Company. Chromatographic packing with chemically bonded organic stationary phases. 3,722,181, 3-27-73, Cl. 55-67.000.

Kirkland, Norman; and Rachlinski, Stanley, to Hill-Rom Company, Inc., mesne. Tilt bed. 3,711,876, 1-23-73, Cl. 5-62.000.

Kirkland, Robert E.: *See—*
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Kirkliauskas, Alexander J. Devices for mounting medical appliance. 3,773,048, 11-20-73, Cl. 128-283.000.

Kirkman, Richard W.: *See—*
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Kirkman, Wayne V. Paraplegic bed. 3,729,751, 5-1-73, Cl. 5-66.000.

Kirkpatrick, Alan D.; and Warll, Ronald T. Cylinder cover fastening devices. 3,765,329, 10-16-73, Cl. 101-415.100.

Kirkpatrick, Burnard M., to Teledyne Industries, Inc. Multiple channel dry-process film recorder. 3,737,913, 6-5-73, Cl. 346-34.000.

Kirkpatrick, George A. Method and apparatus for lifting one end of a roll of carpeting or the like. 3,716,216, 2-13-73, Cl. 254-139.100.

Kirkpatrick, George M.; and Wild, Norman R., to Syracuse University Research Corporation. Phased-array antenna. 3,747,098, 7-17-73, Cl. 343-16.00r.

Kirkpatrick, George M. Means for suppressing ground clutter in airborne radar. 3,781,878, 12-25-73, Cl. 343-5.00w.

Kirkpatrick, James R. Portable work support assembly. 3,738,451, 6-12-73, Cl. 182-155.000.

Kirkpatrick, Kenneth Lawrence: *See—*
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Kirkpatrick, Maurice; and Waggener, Donnell E. Automatic well shut-off apparatus. 3,717,203, 2-20-73, Cl. 166-224.000.

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Kirkpatrick, Milton E., to TRW Inc. Unidirectional thermal transfer means. 3,735,806, 5-29-73, Cl. 165-32.000.

Kirkpatrick, Milton E; Piwonka, Thomas S.; and Marcus, Bruce D., to TRW Inc. Apparatus for unidirectionally solidifying metals. 3,770,047, 11-6-73, Cl. 164-338.000.

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Carmichael, Thomas F.; Maier, Richard J.; and Kirkpatrick, William J., 3,751,710.

Kirkwood, Creal E. Expandable seal gate valve. 3,711,062, 1-16-73, Cl. 251-172.000.

Kirkwood, Creal E. Method of making expansible seal for valves. 3,723,216, 3-27-73, Cl. 156-110.000.

Kirman, Ivor, to Olin Corporation. Aluminum base alloys. 3,762,916, 10-2-73, Cl. 75-141.000.

Kirmis, Peter; Wagner, Heinz; and Kaiserswerth, Hans-Peter, to Siemens Aktiengesellschaft. Radio interference elimination choke for suppressing impulse like interference voltages. 3,781,740, 12-25-73, Cl. 336-96.000.

Kirner, Uwe, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Aqueous bleach bath. 3,756,774, 9-4-73, Cl. 8-111.000.

Kirnos, Yakov Yakovlevich: *See—*
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Kirsch, Albert, to Instant Brick Enterprise, Inc., mesne. Stencil device with means to clean. 3,731,654, 5-8-73, Cl. 118-504.000.

Kirsch, Andrew F., to Westinghouse Electric Corporation. Static elevator supervisory system. 3,741,347, 6-26-73, Cl. 187-29.00r.

Kirsch Company: *See—*
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Kirsch, Hans-Rudolf, to Ciba-Geigy AG. Colour photography. 3,772,015, 11-13-73, Cl. 96-30.000.

Kirsch, Ivan H.: *See—*
Gordon, Bernard M.; Neumann, Leopold; and Kirsch, Ivan H., 3,717,033.

Kirsch, Jerry. Apparatus for vacuum pick-up of porous material. 3,710,953, 1-16-73, Cl. 214-1.0bs.

Kirsch, Robert J. Universally adjustable box tool. 3,760,663, 9-25-73, Cl. 82-35.000.

Kirsch, Robert P.: *See—*
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Kirsch, Warren B., to Ethyl Corporation. Method for making alkylaluminum compounds. 3,766,234, 10-16-73, Cl. 260-448.00a.

Kirschbaum, Charles J. Safety jack wheel for vehicles. 3,746,365, 7-17-73, Cl. 280-150.00a.

Kirschling, Thomas J., to Stearns Electric Corporation. Self-adjusting clutch or brake. 3,762,522, 10-2-73, Cl. 192-111.00a.

Kirschnek, Helmut: *See—*
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Kirschner, Robert F., to Patterson-Kelley Co., Inc., The. Water heating and supply system. 3,766,974, 10-23-73, Cl. 165-39.000.

Kirschner, Wallace: *See—*
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Kirshenbaum, Abraham D.; and Taylor, Francis R., to United States of America, Army. Gaseous illuminant pyrotechnic systems. 3,734,790, 5-22-73, Cl. 149-22.000.

Kirshenbaum, Gerald S.: *See—*
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Kirshsiper, Walter. Hydraulic pressure transformer. 3,720,484, 3-13-73, Cl. 417-401.000.

Kirspel, Robert Franklin, 1/2 to Schubat, Eric. Body shaping tool and accessory. 3,765,220, 10-16-73, Cl. 72-460.000.

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Kirton, Kenneth T., to Upjohn Company, The. Use of prostaglandins to induce medical abortion. 3,778,506, 12-11-73, Cl. 424-318.000.

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Kirtz, Douglas H., to Nicholas Equipment Co. Grinding machine. 3,758,993, 9-18-73, Cl. 51-80.0bs.

Kirwan, George B., to Hennessy Products, Incorporated. Transportation trailer landing gear. 3,711,118, 1-16-73, Cl. 280-150.500.

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Kiscaden, Roy W., to Westinghouse Electric Corporation. Over temperature protection system for a gas turbine. 3,759,037, 9-18-73, Cl. 60-39.140.

Kise, Katsuko. Spectacles being concurrently used as bracelets, necklaces or the like. 3,774,998, 11-27-73, Cl. 351-51.000.

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Kise, Mearl A.; and Ellis, Leonard C., to Virginia Chemicals, Inc.

Kishida, Motoki, to Kabushiki Kaisha Suwa Seikosha. Time-piece of

Kise, Mearl A.; and Ellis, Leonard C., to Virginia Chemicals, Inc. Sodium dithionite solution stabilization. 3,773,679, 11-20-73, Cl. 252-188.000.
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Kisfaludy, Lajos; Patthy, Agnes, nee Lukats; Dancsi, Lajos; Fekete, Gyorgy; and Szabo, Istvan, to Richter Gedeon Vegyeszeti Gyar R. T. Alfa-aminooxy-carboxylic amide derivatives. 3,733,358, 5-15-73, Cl. 260-558.00a.
Kisfaludy, Lajos; Patthy, Agnes, nee Lukats; Dangsi, Lajos; Fekete, Gyorgy; and Szabo, Istvan, to Richter Gedeon Vegyeszeti Gyar R. T. Hydroxamic acid derivatives of alpha-aminooxy-carboxylic acids. 3,766,235, 10-16-73, Cl. 260-453.00r.
Kish, Donald Eugene; and Smith, James Lanson, to Bell Telephone Laboratories, Incorporated. Transfer of magnetic domains in single-wall domain memories. 3,714,639, 1-30-73, Cl. 340-174.0tf.
Kish, Edward E.: *See*—
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Kishi, Hirotoshi; Igarashi, Yousuke; and Tano, Takeo, to Iwatsu Electric Co., Ltd. Automatic control device for the toner concentration within a developer in an electrostatic copy machine. 3,712,203, 1-23-73, Cl. 95-89.00r.
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Kishida, Motoki; and Miwa, Yasuo, to Kabushiki Kaisha Suwa Seikosha. Universal watch. 3,766,730, 10-23-73, Cl. 58-425.000.
Kishida, Tohru; Arikawa, Tadashi; Matsuyama, Shigeru; and Fukushige, Shinobu, to Sumitomo Metal Industries, Ltd. and Aikoh Co., Ltd. Agent for adding to a mould in which molten ferritic stainless steel is cast by a continuous casting process. 3,708,314, 1--73, Cl. 106-38.270.
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Kishino, Shigeo; Yamada, Yasuo; Kurahashi, Yoshio; and Kume, Toyohiko, to Farbenfabriken Bayer Aktiengesellschaft. Cyanophenyl O,S-dialkyl phosphorothiolates. 3,742,094, 6-26-73, Cl. 260-940.000.
Kishino, Shigeo; Yamada, Yasuo; Kudamatsu, Kawasaki; Sumi, Shozo; and Shiokawa, Kozo, to Nihon Tokushu Noyaku Seizo Kabushiki Kaisha. O-phenyl-s-alkyl-N-alkyl-phosphoroamide-thiolates. 3,754,058, 8-21-73, Cl. 260-949.000.
Kishino, Shigeo; Kudamatsu, Akio; and Shiokawa, Kozo, to Bayer Aktiengesellschaft. S,S-di(2-alkoxy-ethyl) phosphoro- or phosphono-TH ionidithiolates. 3,755,508, 8-28-73, Cl. 260-950.000.
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Kislig, Renaldo Ernst. Suction cleaners suitable for use in swimming pools. 3,755,842, 9-4-73, Cl. 15-1.700.
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Kissell, Ronald E., to Owens-Corning Fiberglas Corporation. Jacketed fibrous duct and method and apparatus for applying the jacket to the duct. 3,776,803, 12-4-73, Cl. 156-499.000.
Kisselmann, Willy; Rumpelein, Fritz; and Kopf, Paul, to Agfa-Gevaert Aktiengesellschaft. Indicating instrument with pivotable scales. 3,712,262, 1-23-73, Cl. 116-129.00r.
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Hirt, Thomas J.; Kissinger, Richard D.; and Frantzen, Karl H., 3,710,070.
Kistler Instrument Corporation: *See*—
Hugli, Hans W., 3,743,869.
Kistler, Laurenz. Girdling system for concrete shuttering. 3,711,059, 1-16-73, Cl. 249-219.00r.
Kistner, George E. Adhesive bandage and apparatus for manufacture of same. 3,708,375, 1-2-73, Cl. 156-552.000.
Kistner, Hermann. Sheet feeding and aligning table. 3,709,484, 1-9-73, Cl. 271-49.000.
Kistner, Hermann, to Maschinebau Oppenweiler GmbH. Sheet feeder. 3,716,226, 2-13-73, Cl. 271-31.000.
Kistner, Hermann F., to Maschinenbau Oppenweiler Binder & Co. Sheet feeder. 3,722,878, 3-27-73, Cl. 271-31.000.
Kistner, Hermann F., to Maschinenbau Oppenweiler Binder & Co. Folding machine and method of pressing a fold. 3,752,469, 8-14-73, Cl. 270-61.000.
Kistner, Jerome L.; and Gettle, Robert E., to Mosler Safe Company, The. Fiche-to-fiche copier. 3,726,590, 4-10-73, Cl. 355-100.000.
Kistner, John F., to Minnesota Mining and Manufacturing Company. Amide-terminated polyether prepolymers and cured hydrophilic products thereof. 3,723,393, 3-27-73, Cl. 260-77.50b.
Kisumi, Masahiko: *See*—
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Kita, Hiroshi, to New Nippon Electric Company, Ltd. Circuit for compensating for line drop between power source and load circuit. 3,723,854, 3-27-73, Cl. 323-20.000.
Kita, Hisanao: *See*—
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Kita, Toshio: *See*—
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Kita, yasuo, to Sumitomo Electric Industries, Ltd. Mechanical servo means. 3,772,963, 11-20-73, Cl. 91-369.00b.
Kita, Yasuo, to Shimadzu Seisakusho, Ltd. Axial plunger pump. 3,772,965, 11-20-73, Cl. 91-480.000.
Kita, Yuzo: *See*—
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Kitada, Toyofumi: *See*—
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Kitagawa, Keisuke, to Kalimar, Inc. Electronic flash adapter for percussion-ignitable flash cameras. 3,731,605, 5-8-73, Cl. 95-11.00r.
Kitagawa, Norihisa, to Texas Instruments, Incorporated. IGFET dynamic address decode circuit. 3,778,782, 12-11-73, Cl. 340-173.00r.
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Kitai, Kiyoshi, to Kabushiki Kaisha Hattori Tokeiten. Lens shutter for a single lens reflex camera. 3,709,134, 1-9-73, Cl. 95-60.000.
Kitai, Kiyoshi. Electric shutter operating mechanism. 3,714,880, 2-6-73, Cl. 95-63.000.
Kitai, Kiyoshi, to Kabushiki Kaisha Hattori Tokeiten. Actuating mechanism for an electrically controlled shutter. 3,722,391, 3-27-73, Cl. 95-53.0eb.
Kitai, Kiyoshi, to Kabushiki Kaisha Hattori Tokeiten. Camera shutter with novel operating mechanism. 3,722,392, 3-27-73, Cl. 95-62.000.
Kitai, Kiyoshi, to Kabushiki Kaisha Hattori Tokeiten. Electric shutter exposure-time control circuit having counter light compensation. 3,741,087, 6-26-73, Cl. 95-10.0ct.
Kitai, Kiyoshi; Koyama, Mitsuo; Kato, Shogo; Takazawa, Yuzuru; and Nagaoka, Shinji, to Seiko Koki Kabushiki Kaisha. Time-detecting system for a digital interval timer. 3,762,151, 10-2-73, Cl. 58-22.000.
Kitai, Kiyoshi; Koyama, Mitsuo; Kato, Shugo; Takazawa, Yuzuru; and Nagaoka, Shinji, to Seiko Koki Kabushiki Kaisha. Time-setting and time-correcting device for a digital clock. 3,762,157, 10-2-73, Cl. 58-125.00c.
Kitai, Kiyoshi; Koyama, Mitsuo; Kato, Shogo; Takazawa, Yuzuru; and Nagaoka, Shinji, to Seiko Koki Kabushiki Kaisha. Time-setting device for setting timing wheels in a digital interval timer. 3,762,159, 10-2-73, Cl. 58-22.900.
Kitai, Kiyoshi, to Kabushiki Kaisha Hattori Tokeiten. Camera with exchangeable lens. 3,762,295, 10-2-73, Cl. 95-53.0ea.
Kitai, Kiyoshi, to Seiko Koki Kabushiki Kaisha. Electromagnetic control mechanism for electric shutter. 3,762,297, 10-2-73, Cl. 95-53.0eb.
Kitai, Kiyoshi; Koyama, Mitsuo; Kato, Shogo; Takazawa, Yuzuru; and Nagaoka, Shinji, to Seiko Koki Kabushiki Kaisha. Actuator device for use with an interval timer. 3,774,458, 11-27-73, Cl. 74-2.000.
Kitai, Kiyoshi, to Seiko Koki Kabushiki Kaisha. Setting means for indicating apparatus. 3,780,525, 12-25-73, Cl. 58-125.00c.
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Kitajima, Susumu, to Kurita Machinery Manufacturing Company, Limited. Power control apparatus. 3,707,88º, 1-2-73, Cl. 74-845.000.
Kitajima, Susumu, to Kurita Machinery Manufacturing Company, Limited. Mechanism for automatically transporting filter plates in filter press. 3,712,460, 1-23-73, Cl. 198-221.000.
Kitajima, Susumu; and Shibasaki, Katsutami, to Kurita Machinery Manufacturing Company, Limited. Filter press. 3,737,041, 6-5-73, Cl. 210-228.000.
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Kitamura, Kazuo; Takabayashi, Fumiki; and Yamada, Setsuo, to Teijin Limited. Process for dyeing fibers or fabrics of aromatic polyamides. 3,779,705, 12-18-73, Cl. 8-173.000.
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Kitamura, Yoshio; and Suzuki, Ikuo, to Kabushiki Kaisha Sankyo Seiki Seisakusho. Automatic sound-reproducing apparatus. 3,718,746, 2-27-73, Cl. 84-101.000.
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Kitano, Masao; and Kondo, Yasuo, to Nippondenso Co. Ltd., Toyota Jidosha Kogyo Kabushiki Kaisha and Kabushiki Kaisha Toyota Chuo Kenkyusho. Heat exchanging apparatus. 3,766,972, 10-23-73, Cl. 165-8.000.
Kitano, Naohiko; Kamanaka, Akira; Katsuragi, Mamoru; Kobayashi, Tatsuo; and Iida, Tadashi, to Minolta Camera Kabushiki Kaisha. Film transport device for a projector. 3,716,293, 2-13-73, Cl. 353-103.000.
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Kitch, Paul E., to Scott Paper Company. Extensible roll tree for festooned sheet material. 3,729,258, 4-24-73, Cl. 355-109.000.
Kitch, Paul E., to Scott Paper Company. Film depletion detection system. 3,734,617, 5-22-73, Cl. 355-111.000.
Kitch, Paul E., to Scott Paper Company. Apparatus for producing positive or negative images on a light activatable, thermally developable, diazosulfonate reproduction material. 3,746,448, 7-17-73, Cl. 355-106.000.
Kitch, Paul E., to Plastic Coating Corporation, The. Liquid metering apparatus for photographic developing device. 3,753,394, 8-21-73, Cl. 95-94.00g.
Kitch, Paul E., to Scott Paper Company. Air-cooled light projection unit. 3,762,814, 10-2-73, Cl. 355-30.000.
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Kitchens, Garry C.; Hochstetler, Alan R.; and Kaiser, Kent, to Gevaudan Corporation. Process for the acetylation of chamigrenes. 3,754,037, 8-21-73, Cl. 260-587.000.
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Kitrilakis, Sotiris S., to Thermo Electron Corporation. Gas heating and cooling system. 3,721,509, 3-20-73, Cl. 417-339.000.
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Kittle, Carl Edwin, to Deere & Company. Hydro-mechanical detent mechanism. 3,721,160, 3-20-73, Cl. 91-426.000.
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Kittleman, Edmund T.; and Zuech, Ernest A., to Phillips Petroleum Company. Olefin conversion using complexes of Mn, Tc, and Re with organoaluminum. 3,776,973, 12-4-73, Cl. 260-683.00d.
Kittredge, Edward D. Electro-optical signal translation. 3,714,446, 1-30-73, Cl. 250-219.00d.
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Klein, Gerald; and Vieweg, Gunther, to Siemens Aktiengesellschaft. High speed magnetic shaft bearing. 3,747,998, 7-24-73, Cl. 308-10.000.
Klein, Gerald, to Siemens Aktiengesellschaft. Bearing system for shafts driven by an electric motor. 3,753,016, 8-14-73, Cl. 310-90.000.
Klein, Gerald B. Leader connector. 3,717,907, 2-27-73, Cl. 24-128.000.
Klein, Gerald B. Flex tab for a gated can lid. 3,779,417, 12-18-73, Cl. 220-27.000.
Klein, Gerald L., to Beckman Instruments, Inc. Synchronously programmed sample dilutor apparatus. 3,726,144, 4-10-73, Cl. 73-423.00a.
Klein, Gerhart P.: *See—*
Kallianides, Milton; and Klein, Gerhart P., 3,733,660.
Kallianides, Milton; and Klein, Gerhart P., 3,736,237.
Klein, Gerhart P. Horizontal vertical sintering method. 3,726,674, 4-10-73, Cl. 75-221.000.
Klein, Gerhart P., to Mallory, P. R., & Co., Inc. Method of making porous electrodes comprising freezing wet powder and sintering. 3,732,095, 5-8-73, Cl. 75-211.000.
Klein, Gerhart P., to Mallory, P. R., & Co., Inc. Apparatus for making capacitors. 3,762,014, 10-2-73, Cl. 29-203.000.
Klein, Gernot Harold: *See—*
Platus, David L.; Lee, David A.; and Klein, Gernot Harold, 3,735,952.
Klein, Gerrit; and Elbert, Karel, to U.S. Philips Corporation. Mixer circuit. 3,745,473, 7-10-73, Cl. 328-133.000.
Klein, Hans-Jurgen, to Swiss Aluminium Ltd. Process for the electrolytic production of aluminum. 3,718,550, 2-27-73, Cl. 204-67.000.
Klein, Harold C. Laryngoscope. 3,727,605, 4-17-73, Cl. 128-11.000.
Klein, Harold T.; and West, Harold H., to Robbins Company, The. Drilling equipment with detachable transporter. 3,722,601, 3-27-73, Cl. 173-28.000.
Klein, Harold T.; and Porter, Wilson B., to Robbins Company, The. Boring machine having internal access feature and disassembly method. 3,741,318, 6-26-73, Cl. 173-152.000.
Klein, Harold T., to Robbins Company, The. Drill pipe breakout mechanism. 3,768,579, 10-30-73, Cl. 173-164.000.
Klein, Harvey Gerald: *See—*
Giliham, Helen Currier; Sherr, Allan Ellis; and Klein, Harvey Gerald, 3,736,349.
Klein, Heinrich, to Siemens Aktiengesellschaft. Device for imparting a twist to a flow of raw gas in a tornado flow separator. 3,744,220, 7-10-73, Cl. 55-261.000.
Klein, Heinrich; Pieper, Rudolf; and Hoffmann, Alfred, to Siemens Aktiengesellschaft. Structure for increasing the separation capacity of centrifugal force separators for steam drying. 3,755,996, 9-4-73, Cl. 55-459.000.
Klein, Heinrich; and Pieper, Rudolf, to Siemens Aktiengesellschaft. Tornado flow separator for processing fine-grain or granular material. 3,768,172, 10-30-73, Cl. 34-57.00e.
Klein, Heinrich; Pieper, Rudolf; and Hoffmann, Alfred, to Siemens Aktiengesellschaft. Apparatus for drying steam in nuclear power steam generators. 3,769,781, 11-6-73, Cl. 55-261.000.
Klein, Henry: *See—*
Ehrlich, Stephen J.; Dwyer, John R., Jr.; and Klein, Henry, 3,760,570.
Klein, Herbert H.: *See—*
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Klein, Howard C.: *See—*
Greenbaum, Sheldon B.; Schaaf, Kurt H.; and Klein, Howard C., 3,712,949.
Klein, Hugo, to Gebr. Eickhoff Maschinenfabrik und Eisengiesserei m.b.H. Corrugated paperboard cutting apparatus. 3,730,810, 5-1-73, Cl. 156-353.000.
Klein, Ira, to United States of America, Navy. Phase lock loop with automatic step by step search sweep followed by linear search sweep. 3,777,276, 12-4-73, Cl. 331-4.000.
Klein, Jacob: *See—*
Reed, Jerry A.; Van Delden, Ronald; Maruko, Shuji U.; Garner, George E.; Ryan, Stanley; Waring, Winfred F.; Klein, Jacob; Schmidt, Herman W., Jr.; and Friedrich, Simon, 3,750,529.
Klein, Jean-Pierre, to Rivtac Blindnieten, A.G. Blind rivetting tool with automatic loading means. 3,733,882, 5-22-73, Cl. 72-391.000.
Klein, John, to Warner & Swasey Company, The. Direct numerical control system. 3,720,814, 3-13-73, Cl. 235-151.110.
Klein, John M.: *See—*
Manning, Jim L.; and Manning, Richard D., 3,730,141.
Klein, Jorge: *See—*
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Klein, Joseph F. M.: *See—*
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Klein, Larry, Mechanical knife with holding means. 3,740,845, 6-26-73, Cl. 30-136.000.
Klein, Larry; and Lefkowftz, Elliot J. Sealing apparatus and method for refuse compactor. 3,763,621, 10-9-73, Cl. 53-24.000.
Klein, Lee F., to General Motors Corporation. Snap ring coupling. 3,718,350, 2-27-73, Cl. 285-39.000.
Klein, Louis: *See—*
Schreckenberg, Karl; Klein, Louis; and Read, Lorenzo Antonio, 3,708,771.
Klein, Nicholas L., Jr., to Capelle, Louis C. Device. 3,736,605, 6-5-73, Cl. 5-348.0wb.
Klein, Norbert, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Lock for a removable rood attachment for vehicles. 3,712,665, 1-23-73, Cl. 296-137.00r.
Klein, Norman E., to Deering Milliken Research Corporation. Extrusion apparatus. 3,737,262, 6-5-73, Cl. 425-113.000.
Klein, Norman E., to Deering Milliken Research Corporation. Coating apparatus. 3,750,923, 8-7-73, Cl. 226-112.000.
Klein, Norman E., to Deering Milliken Research Corporation. Adjustable automatic tire belt doffer. 3,761,340, 9-25-73, Cl. 156-397.000.
Klein, Norman Sam, to RCA Corporation. Microwave semiconductor device assembly. 3,731,160, 5-1-73, Cl. 317-234.00r.
Klein, Peter: *See—*
Heberle, Wolfgang; Guntersdorfer, Siegfried; and Klein, Peter, 3,739,090.
Klein, Peter, to Siemens Aktiengesellschaft. Apparatus for a telephone exchange system with conference equipment and having a video capability. 3,725,587, 4-3-73, Cl. 179-2.0tv.
Klein, Peter, to Siemens Aktiengesellschaft. Circuit arrangement for a telephone exchange system with conference equipment. 3,775,563, 11-27-73, Cl. 179-2.0tv.
Klein, Richard: *See—*
Benzing, Peter; Klein, Richard; and Trampisch, Alfred, 3,729,093.
Klein, Roy W.; Tremmel, Robert A.; and Clauss, Richard J., to Oxy Metal Finishing Corporation, mesne. Nickel electroplating composition and process. 3,719,568, 3-6-73, Cl. 204-49.000.
Klein, Rudolf: *See—*
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Dernedde, Robert; and Freese, Heinz, 3,718,335.
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Jekat, Walter K., 3,714,840.
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Picmaus, Ernst, 3,728,567.
Klein, Sheldon. Protective lock casing. 3,751,948, 8-14-73, Cl. 70-55.000.
Klein, Theodor, to Siemag Siegener Maschinenbau G.m.b.H. Conveyor. 3,726,389, 4-10-73, Cl. 198-179.000.
Klein, Theodore J., to United States of America, Army. Coded equalizer. 3,745,463, 7-10-73, Cl. 325-42.000.
Klein, Theodore J., to United States of America, Army. Linear time dispersive channel decoder. 3,750,145, 7-31-73, Cl. 340-347.0dd.
Klein, Thomas: *See—*
Beale, Julian Robert Anthony; Beer, Andrew Francis; Klein, Thomas; and Murphy, Nigel Malcolm St. John, 3,745,425.
Klein, Victor A. Auxiliary shock absorber mounting bracket. 3,768,828, 10-30-73, Cl. 280-124.00r.
Klein, Walter F.: *See—*
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Klein, Wilfred: *See—*
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Klein, Willi: *See—*
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Grapengiesser, Johann-Claus; Klein-Albenhausen, Heinrich; Van Hees, Adrian; and Siefert, Gerhard, 3,774,972.
Kleinbeck, Erwin F.; and Pilgram, Heinz, R., to International Business Machines Corporation. Method of and apparatus for manufacturing of a magnetic storage disk. 3,761,333, 9-25-73, Cl. 156-64.000.
Kleinberg, Israel, to Harco Electronics Ltd. Antimony electrodes and method of manufacturing same. 3,742,594, 7-3-73, Cl. 29-592.000.
Kleinberg, Israel; Golub, Lorne M.; Borden, Samuel M.; and Settler, Morris, to Harco Electronics Ltd. Device and method for the quantitative measurement of fluid on paper strips. 3,753,099, 8-14-73, Cl. 324-61.0qs.
Kleindienst & Co.: *See—*
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Kleine, Richard A.; and Meier, Stanley I. Fishing lure having detachably positioned hooks. 3,735,518, 5-29-73, Cl. 43-42.040.
Kleine-Doepke, Wolfgang: *See—*
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Kleiner, Eduard K., to Ciba-Geigy Corporation. Perfluoroalkylsulfonamido-alkyl esters of fumaric acid and other ethylenically unsaturated polybasic acids and polymers thereof. 3,736,300, 5-29-73, Cl. 260-78.40e.
Kleiner, Eduard K., to Ciba-Geigy Corporation. Thiosuccinic acid hindered phenolic ester polymer stabilizers. 3,743,623, 7-3-73, Cl. 260-45.85s.
Kleiner, Eduard K., to Ciba-Geigy Corporation. Stabilized organic compositions containing hindered phenolic thiosuccinates. 3,745,147, 7-10-73, Cl. 260-45.85s.
Kleiner, Eduard K., to Ciba-Geigy Corporation. Stablized compositions. 3,753,945, 8-21-73, Cl. 260-45.85h.
Kleiner, Eduard Karl: *See—*
Falk, Robert Allan; and Kleiner, Eduard Karl, 3,758,447.
Pacini, Pier Luigi; and Kleiner, Eduard Karl, 3,754,057.
Kleiner, Edward Karl; and Knelldeclare, Martin, to Ciba-Geigy Corporation. Perfluoroalkyl-thioether alcohols, esters and polymers. 3,763,116, 10-2-73, Cl. 260-78.40e.
Kleiner, Fredric; and Fogel, Harvey Philip, to General Foods Corporation. Process for sealing toaster sandwich. 3,769,035, 10-30-73, Cl. 426-244.000.
Kleiner, Gersh Izrailevich: *See—*
Panina, Marina Alexeevna; Kleiner, Gersh Izrailevich; Strukov, Ivan Timofeevich; Zdobnova, Alexandra Fedorovna; Andreeva, Maria Kuzminicha; and Ryabova, Nonna Mikhailovna, 3,728,333.
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Kleiner, Hans-Jerg; and Rossinger, Sigurd, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of tertiary phosphine oxides using high energy radiation. 3,714,009, 1-30-73, Cl. 204-162.0he.
Kleiner, Hans-Jerg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of 2-chlorethanephosphonic acid dichloride. 3,725,227, 4-3-73, Cl. 204-158.0ha.
Kleiner, Hans-Jerg; and Rosinger, Sigurd, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of 2-chlorethane-phosphonic acid dichloride. 3,751,353, 8-7-73, Cl. 204-158.0he.
Kleiner, Walter, to Staubli Ltd. Dobby. 3,724,510, 4-3-73, Cl. 139-66.00r.
Kleiner, Walter, to Staubli Ltd. Device for controlling a wedge coupling, particularly in a dobby. 3,724,511, 4-3-73, Cl. 139-66.00r.
Kleiner, Walter, to Staubli Ltd. Wedge coupling between a driving shaft and an eccentric ring of a dobby mechanism. 3,726,323, 4-10-73, Cl. 139-66.000.
Kleiner, Walter, to Staubli Ltd. Dobby with a device for moving all heald frame into the same position. 3,730,232, 5-1-73, Cl. 139-66.000.
Kleiner, Walter Gustav; and Hoenig, Ernst Josef, to Stauble AG. Adjuster in the connection path between a shed-forming device and a heddle frame. 3,741,257, 6-26-73, Cl. 139-66.00r.
Kleinert, Jurg, to Chocoladefabriken Lindt & Sprungli Aktiengesellschaft. Process for the fabrication of chocolate, especially milk chocolate. 3,769,030, 10-30-73, Cl. 426-45.000.
Kleinert, Jurg, to Chocoladefabriken Lindt & Sprungli Aktiengesellschaft. Process for fabricating liquid-filled chocolate products with an inner crust. 3,769,039, 10-30-73, Cl. 426-282.000.
Kleinert, Paul: *See—*
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Kleinfelter, Clarence R. Transportable incineration system. 3,741,133, 6-26-73, Cl. 110-8.00a.
Kleinhagauer, Otmar: *See—*
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Kleinhaut, Samuel, to Bagprint Ltd. Paper box construction. 3,729,127, 4-24-73, Cl. 229-52.00a.
Kleinhenn, Walter H., to United Filtration Corporation. Oven door hinge. 3,749,080, 7-31-73, Cl. 126-191.000.
Kleinknechi, Hans Peter; and Uberholzer, Alfred Heinrich, to RCA Corporation. Method for depositing an epitaxial semiconductive layer from the liquid phase. 3,755,011, 8-28-73, Cl. 148-171.000.
Kleinmann, Earl E.: *See—*
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Kleinneiur, Jay H.: *See—*
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Kleinpeter, Joseph A., to Continental Oil Company. Adsorption process for recovering condensible components from a gas stream. 3,718,581, 2-27-73, Cl. 208-340.000.
Klein's, S., Department Stores, Inc.: *See—*
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Kleinschmager, Herbert, to Brown, Boveri & Cie Aktiengesellschaft. High temperature fuel cell. 3,754,995, 8-28-73, Cl. 136-86.00r.
Kleinschmidt, Ernst, to Herbol-Werke Herbig-Haarhaus Aktiengesellschaft. Continuous measurement of viscosity. 3,777,550, 12-11-73, Cl. 73-59.000.
Kleinschmidt, Johann O.: *See—*
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Kleinschmit, Einhard; and Konig, Wolfhard, to Daimler-Benz Aktiengesellschaft. Cross guide member, preferably for motor vehicles. 3,762,824, 10-2-73, Cl. 287-90.00r.
Kleisa, Kurt: *See—*
Reerink, Wilhelm; Lehmann, Joachim; and Kleisa, Kurt, 3,728,229.
Schmalfeld, Paul; Hahn, Helmut; Lehmann, Joachim; and Kleisa, Kurt, 3,774,315.
Kleissler, Edwin A., Jr., to Kleissler, G. A., Company. Waste material separator and collector. 3,736,728, 6-5-73, Cl. 55-341.000.
Kleissler, G. A., Company: *See—*
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Kleist, Dale; and Buchanan, Carl S., to Owens-Corning Fiberglas Corporation. Method and apparatus for producing fibers from glass. 3,759,680, 9-18-73, Cl. 65-6.000.
Kleist, Herbert H., to Junkunc Bros. American Lock Company. Key code cutting machine. 3,769,865, 11-6-73, Cl. 83-278.000.
Kleist, Robert A.; and Thorne, Robert L., to Peripheral Business Equipment, Inc. Data detection system. 3,715,738, 2-6-73, Cl. 340-174.10h.
Kleit, Robert H. System for loading trucks and warehouses. 3,735,884, 5-29-73, Cl. 214-515.000.
Klema, Kenneth G., to Johnson, S. C., & Son, Inc. Pressure packages. 3,730,400, 5-1-73, Cl. 222-497.000.
Klema, Kenneth G., to Johnson, S. C., & Son, Inc. Reciprocating valve assembly for pressurized containers. 3,777,947, 12-11-73, Cl. 222-402.230.
Klemann, Lawrence P.: *See—*
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Klemann, Lawrence P.; Whitney, Thomas A.; and Langer, Arthur W., Jr., to Esso Research and Engineering Company. Polyalkylene



polyamine separation and purification. 3,755,447, 8-28-73, Cl. 260-563.000.
Klettke, Walter G., to Upjohn Company, The. Syringe assembling method and machine. 3,708,845, 1-9-73, Cl. 53-22.000.

polyamine separation and purification. 3,755,447, 8-28-73, Cl. 260-563.000.
Klemchuk, Peter: *See—*
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Klemchuk, Peter. Substituted hydroxylamine anti-oxidants. 3,778,464, 12-11-73, Cl. 260-482.00p.
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Klement, Ekkehard, to Siemens Aktiengesellschaft. Carbon dioxide laser. 3,758,876, 9-11-73, Cl. 331-94.500.
Klement, Johann, to Siemens-Electrogerate GmbH. Baking and roasting oven. 3,727,601, 4-17-73, Cl. 126-21.001.
Klementz, Peter; Massat, Heinz; Nitschke, Christoph; and Haubold, Herbert. Thread guide roller. 3,708,969, 1-9-73, Cl. 57-55.500.
Klementz, Peter; Nitschke, Christoph; and Haubold, Herbert, to Akcona Incorporated. Adjustable thread drawoff apparatus. 3,747,863, 7-24-73, Cl. 242-47.080.
Klemke, Rudolf H. E., to Mohawk Industries Inc. Preparation of monomeric 2-cyano-2-butyro-lactones. 3,729,488, 4-24-73, Cl. 260-343.600.
Klemm, Kurt, to BYK Gulden Lomberg Chemische Fabrik GmbH. Acylated anilino-carboxylic acids and their salts. 3,780,095, 12-18-73, Cl. 260-518.00a.
Klemm, Le Roy H.; Johnson, Wayne O.; and White, Danny V., to Research Corporation, mesne. Thieno (3,4-b) pyridine and thieno (3,4-c) pyridine. 3,709,894, 1-9-73, Cl. 260-294.80c.
Klemm, Manfred, to Klein, Schanzlin & Becker Aktiengesellschaft. Pump arrangement for consumer apparatus. 3,768,925, 10-30-73, Cl. 417-8.000.
Klemm, Richard A.: *See—*
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Klemmer, Paul J., to Appleton Machine Company. Hydraulic means for adjusting embossing cylinders in a rotary embosser. 3,731,620, 5-8-73, Cl. 101-23.000.
Klemp, Hans-Joachim: *See—*
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Klemt, Arthur. Method of classifying characters wherein the effects of variations in contrast between a presented character and its backbround and variations in background brightness are reduced, and the apparatus therefor. 3,737,854, 6-5-73, Cl. 340-146.ag.
Klemt, Arthur, to Klemt, Arthur, Kommanditgesellschaft. Torsioned light conducting means for the illumination of an image field with modulated light. 3,752,561, 8-14-73, Cl. 350-96.00r.
Klemt, Arthur, Kommanditgesellschaft: *See—*
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Klenz, Karl A.; and Velarde, Clyde R., to Rheem Manufacturing Company. Clipping apparatus and clips therefor. 3,777,400, 12-11-73, Cl. 206-56.0ab.
Klepitko, Joachim. Panel-shaped catalytic element with fastening means. 3,732,080, 5-8-73, Cl. 23-288.00f.
Klepp, Harry: *See—*
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Klepping, Roland P., to Display Corporation International. Stanchion for beverage tap. 3,752,192, 8-14-73, Cl. 137-802.000.
Klesatschke, Erich. Rotary piston machine. 3,767,331, 10-23-73, Cl. 418-37.000.
Klessmann, Gunther: *See—*
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Kletecka, George; and Smith, Peter D., to Goodrich, B. F., Company, The. Alkylhydroxyphenylcarboalkoxy-substituted nitrogen heterocycles as stabilizers against oxidative, thermal and photochemical degradation of organic materials. 3,763,093, 10-2-73, Cl. 20-45.80n.
Klett, Gene R.; Kokaly, Joseph; Risk, Norman E.; and Smith, Roger M., to Caterpillar Tractor Company. Scraper apron closing mechanism. 3,739,506, 6-19-73, Cl. 37-126.0aa.
Klettke, Walter G., to Upjohn Company, The. Syringe assembling method and machine. 3,708,945, 1-9-73, Cl. 53-22.000.
Kleutsch, George J., to Illinois Mobile Leasing Corporation. Adjustable cargo wall. 3,767,253, 10-23-73, Cl. 296-24.00r.
Kleven, Lowell A.: *See—*
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Kleykamp, Donald L.; Gaster, Ivan; Browning, Vernon D.; and Holden, Homer N., to Dayco Corporation. Continuously manufactured flexible conduit. 3,724,507, 4-3-73, Cl. 138-122.000.
Kleykamp, Donald L.; Gaster, Ivan; Browning, Vernon D.; and Holden, Homer N. Continuously manufactured flexible conduit. 3,725,178, 4-3-73, Cl. 156-393.000.
Kleykamp, Donald L.; Neroni, Peter J.; and Holden, Homer N., to Dayco Corporation. Hose construction. 3,727,949, 4-17-73, Cl. 285-7.000.
Kleykamp, Donald L.; Gaster, Ivan; Browning, Vernon D.; and Holden, Homer N., to Dayco Corporation. Method of continuously manufacturing flexible conduit. 3,779,846, 12-18-73, Cl. 156-144.000.
Kliem, Bernd W. A.: *See—*
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Klien, Gert: *See—*
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Klien, Oswald; Klien, Gert; and Marie, Paul, to Head Sportgerate Ges. m.b.H. Apparatus for the production of guide channels of skis. 3,752,021, 8-14-73, Cl. 83-5.000.
Kliever, Waldo H.; and Mart, Clyde, said Kliever assor. to said Mart, Clyde. Power driven meat trimming and cutting knife. 3,740,847, 6-26-73, Cl. 30-272.00a.
Kliewer, George G.; Kliewer, Steven L.; and Kliewer, Michael G., to Dun-Rite Manufacturing Corporation. Thermal indicator. 3,724,360, 4-3-73, Cl. 99-342.000.
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Klimecki, Vladimir. Method and apparatus for evaluation of the intensity of spots. 3,768,913, 10-30-73, Cl. 356-203.000.
Klimek, Boleslaw, to Berg Manufacturing Company, The. Parking brake control valve. 3,759,584, 9-18-73, Cl. 303-71.000.
Klimkiewicz, Bruno; and Weirich, Walter, to Gewerkschaft Eisenhutte Westfalia. Non-return valve devices. 3,716,070, 2-13-73, Cl. 137-484.200.
Klimkovsky, Islav Mecheslavovich: *See—*
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Klimstra, Paul D.; and Markos, Charles S., to Searle, G. D., & Co. 3,5-Dioxo-a-nor-b-homo steroidal spirolactones. 3,729,491, 4-24-73, Cl. 260-343.600.
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Kline, Donald D., to Commercial Electronics, Incorporated. Television camera geometric distortion correction system. 3,757,161, 9-4-73, Cl. 315-276.00d.
Kline, John C.; and Kronman, Albert F., to Eclipse Sleep Products, Inc. Trapezoidal stabilizers for inner spring units. 3,737,927, 6-12-73, Cl. 5-260.000.
Kline, John H. Automobile tire clamp that provides free hose movement around a car. 3,754,305, 8-28-73, Cl. 24-256.000.
Kline, Larry Harold: *See—*
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Kline, William M.; and Roach, Charles C., to Medical Evaluation Devices & Instruments Corporation. Spring guide with flexible distal tip. 3,749,086, 7-31-73, Cl. 128-2.00m.
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Kling, Nelson G.; deceased (by Kling, Alice Irene; administratrix), to Technicon Instruments Corporation. Peristaltic pump and system therefor. 3,730,650, 5-1-73, Cl. 417-475.000.
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Klingbeil, Werner W.; and Hartman, Eugene H., to Uniroyal, Inc. Tire carcass fabricating method. 3,713,928, 1-30-73, Cl. 156-123.000.
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Klingler, George A. Particle accumulator with particle extractor and stabilizer. 3,771,291, 11-13-73, Cl. 55-261.000.
Klingler, Josef F.; Braverman, Theodore; and Klingler, Charles E., to Thermex Inc. Thermometer with means for selectively closing the capilliary bore. 3,717,035, 2-20-73, Cl. 73-371.000.
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Klink, Jerome P.; Symbroski, Alex P.; and Shape, Norman R., to Owens-Corning Fiberglas Corporation. Method of and apparatus for processing linear elements. 3,771,324, 11-13-73, Cl. 65-11.00w.
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Kloeg, Hermanus Antonius Marie. Devices for cleaning objects. 3,732,877, 5-15-73, Cl. 134-111.000.

Kloehn, Garth A. Syringe. 3,749,284, 7-31-73, Cl. 222-43.000.

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Klohs, Murle W.; Petracek, Francis J.; and Sugisaka, Nobuyuki, to Riker Laboratories, Inc. Substituted isochromans and processes therefor. 3,743,659, 7-3-73, Cl. 260-345.200.

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Klomp, Johannes, to U.S. Philips Corporation. Method of sealing a metal article to a glass article in a vacuum-tight manner. 3,722,074, 3-27-73, Cl. 29-472.900.

Klompas, Nicholas, to General Electric Company. Dual flow cooled turbine arrangement for gas turbine engines. 3,742,706, 7-3-73, Cl. 60-39.660.

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Klopfer, Anton Martin; and Dittmer, Georg, to U.S. Philips Corporation. Field emission cathode. 3,735,186, 5-22-73, Cl. 313-346.00r.

Klopfer, Emil; Stelzle, Martin; and Schneble, Edwin, to Maschinenfabrik Fahr Aktiengesellschaft. Power-takeoff assembly for connecting farm implements to a vehicle. 3,776,327, 12-4-73, Cl. 180-14.00b.

Klopfer, Howard J.: *See—*
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Klopfert, Louis, to Elphiac. Apparatus for continuous induction heating. 3,743,811, 7-3-73, Cl. 219-10.690.

Kloppe, Herbert; and Pfadenhauer, Dieter, to Ford Motor Company. Steering wheel with safety air cushion. 3,768,824, 10-30-73, Cl. 280-87.00r.

Kloppenstein, Glenn A. Retractable step. 3,756,678, 9-4-73, Cl. 312-235.000.

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Klose, Ulrich Konrad Wilhelm, to International Business Machines Corporation. Method and device for two-way transmission by means of two-wire transmission channel. 3,758,719, 9-11-73, Cl. 178-58.00r.

Klose, Walter K. Flame arrestor. 3,748,111, 7-24-73, Cl. 48-192.000.

Klose, Werner, to Knapsack Aktiengesellschaft. Process of making phosphorous and halogen containing polyols. 3,764,640, 10-9-73, Cl. 260-978.000.

Klose, Werner, to Knapsack Aktiengesellschaft. Polyols containing halogen and phosphorus, and process for making them. 3,767,732, 10-23-73, Cl. 260-928.000.

Kloska, Anthony J.: *See—*
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Klosterman, Albert L.; and Klemenhagen, Dale A., to Toro Manufacturing Corporation. Staggered blade mower. 3,726,070, 4-10-73, Cl. 56-294.000.

Kloth, James Albert, to AMP Incorporated. Manufacturing electrical harnesses. 3,769,701, 11-6-73, Cl. 29-624.000.

Klotmann, Georg; and Mueller, Herbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Manufacture of $\beta$-hydroxy carbonyl compounds and/or $\alpha$-unsaturated carbonyl compounds. 3,759,929, 9-18-73, Cl. 260-293.880.

Klotz, Erhard Paul Arthur, to U.S. Philips Corporation. Apparatus for making multiple point holograms. 3,752,555, 8-14-73, Cl. 350-3.500.

Klotzer, Erhard: *See—*
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Klug, Eugene D., to Hercules Incorporated. Gelled fuel compositions. 3,754,877, 8-28-73, Cl. 44-7.00b.

Klug, Henry G. Flow metering system for liquid wastes. 3,729,994, 5-1-73, Cl. 73-194.00e.

Klug, Howard R., to Graphic Arts Center. Book jacketing apparatus. 3,742,542, 7-3-73, Cl. 11-1.00r.

Klug, Joseph R.: *See—*
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Klug, Walther H., to PGC Scientifics Corporation. Method of preparing bodies on the basis of urea-formaldehyde resins. 3,740,355, 6-19-73, Cl. 260-2.5fp.

Kluge, Gerald A., to Ampex Corporation. Magnetic head transducer assembly for redundantly recording data on and reproducing data from dual-tracks of a magnetic recording medium. 3,721,773, 3-20-73, Cl. 179-100.20t.

Kluge, Johannes; Rabe, Peter; Schmidt, Otto; and Schleyer, Meinlof; to Demag Aktiengesellschaft. Suspension switch with gear segment slider and operating force regulating contact operating cams. 3,746,812, 7-17-73, Cl. 200-153.00l.

Kluge, Reinhard: *See—*
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Kluge, Werner Erich, to Bell Canada-Northern Electric Research Limited. Content addressable discrete domain mass memory. 3,761,886, 9-25-73, Cl. 340-172.500.

Kluge, Werner Erich, to Bell Canada-Northern Electric Research Limited. Magnetic bubble domain switching device. 3,770,978, 11-6-73, Cl. 307-88.01c.

Kluge, Willi; and Kluge, Reinhard. Apparatus for separating a row of tierlike superposed flat articles, particularly newspapers. 3,738,644, 6-12-73, Cl. 271-64.000.

Kluger, Alois: *See—*
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Kluger, Jacob N., to Xerox Corporation. Labeling machine. 3,710,667, 1-16-73, Cl. 84-203.000.

Kluger, Jacob N., to Xerox Corporation. Labeling machine. 3,713,948, 1-30-73, Cl. 156-351.000.

Klugman, Warren L., to Ceilcote Company, Inc., The. Modular structural member and method and apparatus for making same. 3,764,034, 10-9-73, Cl. 220-4.00e.





Klugman, Warren L., to Ceilcote Company, Inc., The. Fume washer housing. 3,772,858, 11-20-73, Cl. 55-503.000.

Kluh, Emil, to Gelenkwellenbau GmbH. Valve for lubricating and venting machine parts subject to wear. 3,756,349, 9-4-73, Cl. 184-105.00b.

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Kluksdahl, Harris E., to Chevron Research Company. Catalyst activation process and activated catalyst. 3,764,557, 10-9-73, Cl. 252-415.000.

Klumb, Ralph H.; and Hutchinson, John J., to Combustion Engineering, Inc. Fuel assembly hold-down device. 3,770,583, 11-6-73, Cl. 176-76.000.

Klunker, Heinz; and Rauch, Martin, to Siemens Aktiengesellschaft. Copper plated base plate with nickel plated insert for semiconductor component-housing. 3,743,895, 7-3-73, Cl. 317-234.00r.

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Klupfel, Kurt-Walter; Steppan, Hartmut; and Maar, Herbert, to Kalle Aktiengesellschaft. Light-sensitive copying compositions. 3,732,105, 5-8-73, Cl. 96-115.00p.

Klupfel, Kurt-Walter; and Elter, Ursula, to Kalle Aktiengesellschaft. Photopolymerizable copying material. 3,753,715, 8-21-73, Cl. 96-86.00p.

Klupsch, Paul; Paul, Rudolf; and Dressler, Ulrich. Devices for operating a spring and pressure controlled preselection diaphragm in photographic lens mounts. 3,780,636, 12-25-73, Cl. 95-64.00r.

Klushin, Nikolai Alexandrovich: *See—*
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Klusmier, Kenneth L., to Morgan Construction Company. Transfer apparatus. 3,741,408, 6-26-73, Cl. 214-1.0qg.

Klutchko, Sylvester: *See—*
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Klutchko, Sylvester; Shavel, John, Jr.; and von Strandtmann, Maximilian, to Warner-Lambert Company. Benzofuro (2,3-c) pyrroles. 3,780,060, 12-18-73, Cl. 260-326.50b.

Kluythmans, Piet T.: *See—*
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Knaack, Howard L., to Knaack Manufacturing Company. Padlock protection system. 3,727,438, 4-17-73, Cl. 70-63.000.

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Knab, Emil David: *See—*
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Knabel, Horst; Saemann, Lothar; and Baumgarten, Manfred, to Aviatest GmbH. Torque loading device. 3,754,437, 8-28-73, Cl. 73-99.000.

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Knapp, Alfons. Stabilizer device for a jet of water. 3,747,856, 7-24-73, Cl. 239-428.500.

Knapp, Burton Bower, to International Nickel Company, Inc., The. Electrorefined nickel of controlled size. 3,715,286, 2-6-73, Cl. 204-12.000.

Knapp, Donald Edward; and Nageroni, Lindo Paul, to American Cyanamid Company. $TiO_2$ slurries having a high solids content. 3,772,046, 11-13-73, Cl. 106-300.000.

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Knapp, Edward Ronald, to Timken Company, The. Roller bearing rings. 3,737,965, 6-12-73, Cl. 29-148.40r.

Knapp, Edward Ronald, to Timken Company, The. Manufacture of rings for rolling bearings. 3,769,671, 11-6-73, Cl. 29-148.40r.

Knapp, George F., to MKM Corporation. Smoke-fume exhaust system. 3,739,707, 6-19-73, Cl. 98-33.00r.

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Knapp, Heinrich; and Schwartz, Reinhard, to Bosch, Robert, G.m.b.H. Fuel injection system. 3,713,430, 1-30-73, Cl. 123-139.0aw.

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Knapp, Heinrich; Schwartz, Reinhard; and Eckert, Konrad, to Bosch, Robert, G.m.b.H. Regulator mechanism for fuel injection apparatus. 3,739,758, 6-19-73, Cl. 123-119.00r.





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Knaus, Ernest; and Milhoan, Francis M., to Goodyear Tire & Rubber Company, The. Towable floating storage container. 3,779,196, 12-18-73, Cl. 114-74.00t.
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Knechtel, Wilhelm Josef; and Schaffer, Detlef, to Canon Kabushiki Kaisha. Photocopying apparatus. 3,715,944, 2-13-73, Cl. 83-58.000.
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Kniese, Wilhelm; Nienburg, Hans Juergen; Himmele, Walter; and Aquila, Werner, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Separation of metal carbonyl catalysts from oxo reaction mixtures. 3,716,626, 2-13-73, Cl. 423-418.000.
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Knight, Barry I.; Curcumelli-Rodostamo, Michael; and Von Schmeling, Bogislav, to Uniroyal, Inc. 2-(Substituted-methyl)-5,6-dihydro-1, 4-oxathiin-3-carboxamides. 3,728,357, 4-17-73, Cl. 260-327.00p.
Knight, Basil Edward; deceased (by Knight, Norman Henderson; and Hodge, Harold Redmore; executors); and Fenne, Ivor, to C.A.V. Limited. Liquid fuel injection pumping apparatus. 3,752,136, 8-14-73, Cl. 123-139.0at.
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Knight, Gordon Alfred; and Sheasby, Raymond. Halter for pigs. 3,730,143, 5-1-73, Cl. 119-130.000.
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Knight, Howard Richard James, to Carrier Engineering Company Limited. Controlling spray guns. 3,724,415, 4-3-73, Cl. 118-2.000.
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Knight, Ralph M., to Dart Industries, Inc. High pressure process for polyethylene production. 3,719,643, 3-6-73, Cl. 260-87.300.
Knight, Randolph Bentley; and Knight, Lee Ayers. Shot concentrator. 3,724,378, 4-3-73, Cl. 102-42.00c.
Knight, Rex, 40% to Lee, Raymond, Organization, Inc., The. Snake bite preventing device. 3,758,963, 9-18-73, Cl. 36-2.00r.
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Knipe, Earl A., to Rex Chainbelt Inc. Length-adaptable rotary mower blade. 3,712,037, 1-23-73, Cl. 56-295.000.
Knipe, Leonard E., to Continental Can Company, Inc. Feed dog link assembly for sprocket chain. 3,750,862, 8-7-73, Cl. 198-189.000.



Knipe, Leonard E.; and Furra, Carl D., to Continental Can Company, Inc. Feed dog link assembly for sprocket chain. 3,748,936.
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Knipe, Leonard E.; and Furra, Carl D., to Continental Can Company, Inc. Closed loop motor control lid condition responsive system. 3,755,726, 8-28-73, Cl. 318-563.000.
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Knippenberg, Wilhelmus Franciscus; and Verspui, Gerrit, to U.S. Philips Corporation. Camera tube having photoconductive lead monoxide layer on silicon carbide signal plate. 3,721,848, 3-20-73, Cl. 313-65.00a.
Knippenberg, Wilhelmus Franciscus; and Verspui, Gerrit, to U.S. Philips Corporation, mesne. Method of manufacturing multiple conductive lead-in members. 3,772,774, 11-20-73, Cl. 29-624.000.
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Knitter, James B., to Intronics Incorporated. Hypotenusal square-rooting for C.R.T. display corrections and the like. 3,737,641, 6-5-73, Cl. 235-197.000.
Knitter, Roger W., to Zenith Radio Corporation. Electromechanical elastic wave delay line. 3,757,257, 9-4-73, Cl. 333-30.00r.
Knize, Elmer J., to Lippy Can Co., Ltd. Can or container and the lid therefor. 3,770,161, 11-6-73, Cl. 220-42.00c.
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Knobloch, John C.; and Shepard, Ray M., to Fairfield Manufacturing Company, Inc., mesne. Planetary reduction drive. 3,737,000, 6-5-73, Cl. 180-43.00b.
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Knoche, Wilhelm, to Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V. Autoclave for pressure jump relaxation measurement. 3,720,094, 3-13-73, Cl. 73-37.000.
Knochel, William J.; Werner, Leo C.; and Lin, Francis C. M., to Westinghouse Electric Corporation. Apparatus and method for eliminating microcracks in alumina ceramic discharge devices. 3,780,331, 12-18-73, Cl. 313-219.000.
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Knoll, Alois. Phototype composing machine with rotary character drum. 3,721,165, 3-20-73, Cl. 95-4.50r.
Knoll, Alois; Mattern, Dietrich; and Volcker, Hans-Werner, to Linotype, G.m.b.H. Character cylinder for photo-composing machines. 3,766,838, 10-23-73, Cl. 95-9.50r.
Knoll, Ernst, to Relief-Technik GmbH. Method for constructing three-dimensional models and device therefor. 3,742,620, 7-3-73, Cl. 35-41.000.
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Knollmueller, Karl O., to Olin Corporation. Method for preparing polycarboranylenesiloxane polymers. 3,733,298, 5-15-73, Cl. 260-46.50e.
Knoner, Joachim H., to KTC-Verpackungen GmbH. Manual adhesive tape applicator. 3,709,760, 1-9-73, Cl. 156-527.000.
Knoos, Stellan P., to Northrop Corporation. Free-piston gas heater system. 3,717,422, 2-20-73, Cl. 417-392.000.
Knop, Donald F., to General Motors Corporation. Transmission shift controls. 3,766,793, 10-23-73, Cl. 74-335.000.
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Knopf, George S., to Bendix Corporation, The. Method of making a precision positioning apparatus. 3,732,608, 5-15-73, Cl. 29-407.000.
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Pullinger, Hans; and Balut, Ernst, 3,768,598.
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Knowlden, Gary L.; and Blanchard, David I., to Hughes Aircraft Company. Aircraft proximity warning indicator system. 3,736,061, 5-29-73, Cl. 356-141.000.
Knowles, Charles R.: *See—*
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Knowles, Richard N., to Du Pont de Nemours, E. I., and Company. Irritant composition comprising 2-(4-substituted cyclohexylamino)-2-oxazolines. 3,764,682, 10-9-73, Cl. 424-272.000.
Knowles, Richard N., to Du Pont de Nemours, E. I., and Company. Carbonylation of aliphatic organic halides with metallic alcoholates. 3,772,384, 11-13-73, Cl. 260-476.00r.
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Callan, John G., 3,724,958.
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Knox, Joseph Dale: *See—*
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Knox, Kenneth Leith, to Du Pont de Nemours, E. I., and Company. Solid phase polymerization of waste polyethylene terephthalate. 3,767,601, 10-23-73, Cl. 260-2.300.
Knox, Lloyd C., to Halliburton Company. Float collar with differential fill feature. 3,776,250, 12-4-73, Cl. 137-71.000.
Knox Manufacturing Company: *See—*
Biesckhe, Hillard J., 3,750,994.
Genger, Horst, 3,750,995.
Knox, Raymond E.; and Teague, Roger W., to General Signal Corporation. Waste disintegrator rotor and ring assembly. 3,746,266, 7-17-73, Cl. 241-46.00r.
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Knudsen Creamery Co. of California: *See—*
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Knudsen, James K.: *See—*
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Perrington, Kenneth J.; Vogelgesang, Peter J.; and Knudsen, James K., 3,775,178.
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Knudsen, William C. Bubble pulse suppression with acoustic source optimization. 3,724,590, 4-3-73, Cl. 181-.5xc.
Knudson, Clarence B., to Hughey and Phillips, Inc. Safety system for visual approach. 3,735,339, 5-22-73, Cl. 340-25.000.
Knudson, Kay L.: *See—*
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Knuppel, Helmut; Brotzmann, Karl; and Fassbinder, Hans Georg, to Eisenwerk-Gesellschaft Maximilianshutte m.b.H. Process for making chromium alloys. 3,751,242, 8-7-73, Cl. 75-49.000.
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Knuppel, Helmut; Brotzmann, Karl; and Fassbinder, Hans Georg, to Eisenwerk-Gesellschaft Maximilianshutte m.b.H. Steel making converter. 3,774,893, 11-27-73, Cl. 266-35.000.
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Knusli, Enrico; and Varsanyi, Denis, to Ciba-Geigy Corporation. Organotin-substituted s-triazines for controlling insects, acarinal, fungi, bacteria, and mollusks. 3,764,678, 10-9-73, Cl. 424-245.000.
Knutrud, Leif Brudal. Mold for the production of deepfrozen blocks of food. 3,713,304, 1-30-73, Cl. 62-341.000.
Knutsen, Merle E. Therapeutic exercising apparatus. 3,713,438, 1-30-73, Cl. 128-25.00r.
Knutson, Carroll F.: *See—*
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Knutson, Dale A., to Applied Power Inc. Flexible cable hydraulic control means. 3,747,472, 7-24-73, Cl. 91-384.000.
Knutson, Dale A., to Applied Power Inc. Electric motor controlled fluid valve. 3,756,282, 9-4-73, Cl. 137-625.640.
Knutson, Dale A., to Applied Power Industries, Inc. Valve. 3,757,823, 9-11-73, Cl. 137-625.640.
Knutson, Dale A., to Applied Power Inc. Aerial lift vehicle. 3,757,895, 9-11-73, Cl. 182-46.000.
Knutson, Dale A., to Applied Power Inc. Automatic release and centering device. 3,776,099, 12-4-73, Cl. 91-358.00a.
Knutson, Gaylen M., to Union Oil Company of California. Ethylene-vinyl acetate emulsion adhesive. 3,734,819, 5-22-73, Cl. 161-254.000.

Knutson, Gaylen M., to Union Oil Company of California. Adhesive compositions. 3,763,073, 10-2-73, Cl. 260-29.60r.

Knutson, Gaylen M.; and Biale, John, said Knutson and said Biale assors. to Union Oil Company of California. Adhesive composition and method of preparation. 3,769,151, 10-30-73, Cl. 161-204.000.

Knutson, Knut Raymond; Morichetto, Michele; and Wannfors, P. Magnus, to Incentive Research & Development AB. Atmospheric contaminant collector. 3,740,626, 6-19-73, Cl. 317-262.00r.

Knutson, Oliver J.: *See—*
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Knutson, Orville T.: *See—*
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Knutzen, Frances M. Baby bottle holder. 3,718,360, 2-27-73, Cl. 294-27.00h.

Kny, Gunter; and Westphal, Otto, to Boehringer Ingelheim G.m.b.H. Monochlorine ester of 3-octadecyloxy-propanol-(1)-phosphoric acid. 3,708,558, 1-2-73, Cl. 260-945.000.

Knyazhinsky, Zakhar Osipovich: *See—*
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Cassidy, Floyd L.; and Ko, Daniel Y. C., 3,748,259.

Ko, Daniel Y. C.; and Stahlfeld, Donald L., to Gulf Research & Development Company. Reforming process. 3,748,256, 7-24-73, Cl. 208-65.000.

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Ko, Wen H., to North American Manufacturing Company. Light sensitive control. 3,739,177, 6-12-73, Cl. 250-206.000.

Koah, Chester B. Infant carrier with tissue retainer. 3,746,390, 7-17-73, Cl. 297-192.000.

Kobald, Walter, to Bosch, Robert, G.m.b.H. Hydraulic system. 3,716,308, 2-13-73, Cl. 417-286.000.

Kobald, Walter, to Bosch, Robert, G.m.b.H. Hydraulic braking apparatus. 3,724,609, 4-3-73, Cl. 188-170.000.

Kobald, Walter; and Reichel, Eckehart, to Bosch, Robert, G.m.b.H. Hydrostatic drive for a motorcar. 3,734,225, 5-22-73, Cl. 180-66.00r.

Kobara, Kiyoshi; Fukuzawa, Tsutomu; and Uzihara, Yuzuru, to Toyoto Jidosha Hambai Kabushiki Kaisha. Engine automatic control system and method for vehicles. 3,731,108, 5-1-73, Cl. 290-38.000.

Kobari, Kiyoshi: *See—*
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Kobari, Masao: *See—*
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Kobari, Masao; Hagiwara, Hiroshi; and Uchiyama, Kensuke, to Japan Monopoly Corporation, The. Process for preparing sheet-like material for smoking. 3,718,153, 2-27-73, Cl. 131-140.00c.

Kobashi, Uichiro; and Kito, Masahiro, to Aisin Seiki Kabushiki Kaisha. Push rod mechanism for parallel cylinders. 3,724,210, 4-3-73, Cl. 60-54.60e.

Kobashi, Uichiro, to Aisin Seiki Kabushiki Kaisha. Safety valve assembly. 3,759,288, 9-18-73, Cl. 137-498.000.

Kobayakawa, Masaki; and Yoshii, Takashi, to Nippon Electric Company Limited. Segment type display tube for selectively displaying one or more of a plurality of alpha-numerical characters. 3,735,181, 5-22-73, Cl. 313-109.500.

Kobayashi, Akihiro: *See—*
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Kobayashi, Akihiro, to Nitton Company, Limited. Ionization smoke detector. 3,714,433, 1-30-73, Cl. 250-83.6ft.

Kobayashi, Akihiro; and Yokota, Akira, to Nittan Company, Limited. Fire detecting system with spurious signal rejection. 3,775,761, 11-27-73, Cl. 340-228.00r.

Kobayashi, Akio: *See—*
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Kobayashi, Akira: *See—*
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Kobayashi, Akira; Koike, Toshio; and Sato, Keiichi, to Iwatsu Electric Co., Ltd. Device for supplying continuous sheet of paper from a rolled package used in a copying apparatus. 3,715,085, 2-6-73, Cl. 242-56.00r.

Kobayashi, Akira; Sugano, Tadashi; Koike, Toshio; and Sakata, Minehiro, to Iwatsu Electric Co., Ltd. Charging apparatus for electro-photographic copying machines. 3,778,622, 12-11-73, Cl. 250-324.000.

Kobayashi, Akiyoshi: *See—*
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Kobayashi, Akiyoshi, to Toyoda Koki Kabushiki Kaisha. Feed mechanism for machine tool. 3,724,331, 4-3-73, Cl. 91-407.000.

Kobayashi, Atsuo: *See—*
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Shimizu, Noboro; Yoshida, Sadao; Kubota, Kunihiro; Kobayashi, Daizo; and Ohara, Takashi, 3,776,947.

Kobayashi, Harunobu: *See—*
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Kobayashi, Hidehiko; Sasaguri, Kiichiro; Komoto, Hiroshi; Kawashima, Sukeo; and Kahno, Mitsuo, to Asahi Kasei Kogyo Kabushiki Kaisha. Poly(ethylene terephthalate)from bis (hydroxyethyl)terephthalate and terephthalic acid. 3,736,294, 5-29-73, Cl. 260-75.00m

Kobayashi, Hidehiko; Sasaguri, Kiichiro; and Shiga, Masaaki, to Asahi Kasei Kogyo Kabushiki Kaisha. Method for producing a composite fiber. 3,781,399, 12-25-73, Cl. 264-171.000.

Kobayashi, Hideo: *See—*
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Kobayashi, Hirokazu, to Nippon Electric Company Limited. Variable equalizer. 3,743,959, 7-3-73, Cl. 330-31.000.

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Kobayashi, Hisamine. Vibratory finishing apparatus with a helical and tubular container. 3,771,266, 11-13-73, Cl. 51-163.000.

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Kobayashi, Ikuo; Tomizawa, Takao; and Murase, Shigeo, to Matsushita Electric Industrial Co., Ltd. Gas burner. 3,733,170, 5-15-73, Cl. 431-329.000.

Kobayashi, Isamu: *See—*
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Kobayashi, Kazutsugu: *See—*
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Kobayashi, Kengo; and Manabe, Mitsuo, to Fujitsu Limited. Signal transmission system. 3,710,363, 1-9-73, Cl. 340-213.000.

Kobayashi, Kengo, to Fujitsu Limited. Adaptive control system for numerical control of a cutting tool. 3,746,955, 7-17-73, Cl. 318-561.000.

Kobayashi, Kengo; and Manabe, Mitsuo, to Fujitsu Limited. Circuit for driving an electric pulse motor. 3,746,959, 7-17-73, Cl. 318-696.000.

Kobayashi, Kenji: *See—*
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Kobayashi, Kenzo: *See—*
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Kobayashi, Kyozo, to Mitsubishi Denki Kabushiki Kaisha. Actuator for operating an alarm device to inform the completion of cooking in a microwave oven. 3,770,929, 11-6-73, Cl. 219-10.550.



Kobayashi, Masayoshi; and Uchino, Mitsuo, to Diesel Kiki Kabushiki Kaisha. Fuel injection system in a distributor-type injection pump for internal combustion engine. 3,777,731, 12-11-73, Cl. 123-140.0fg.

Kobayashi, Nasaaki. Method and apparatus for positioning patterns of a photographic mask on the surface of a wafer on the basis of backside patterns of the wafer. 3,752,589, 8-14-73, Cl. 356-172.000.

Kobayashi, Nobuki: *See—*
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Kobayashi, Nobutsugu, to Shoei Kabushiki Kaisha. Heat exchanger. 3,763,831, 10-9-73, Cl. 122-165.000.

Kobayashi, Norio: *See—*
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Kobayashi, Toshiaki: *See—*
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Kobayashi, Yogoro; and Yamagami, Tsutomu, to Ricoh Co., Ltd. Device for automatically correcting the position of an original in an automatic copying machine. 3,754,826, 8-28-73, Cl. 355-109.000.

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Kobelt, Jack R. Multi-position actuator. 3,766,835, 10-23-73, Cl. 92-68.000.
Kober, Alfred E.; and Rossi, Albert, to Esso Research and Engineering Company. Fuel oil composition containing oil-soluble pour depressant polymer and auxiliary flow-improving compound. 3,762,888, 10-2-73, Cl. 44-62.000.
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Kobler, Richard; and Fagan, William F., to McGraw-Edison Company. Signal control system for endless tape recorder. 3,728,494, 4-17-73, Cl. 179-100.20s.
Koblick, Christian; Muller, Ernst; and Rambold, Klaus, to Siemens Aktiengesellschaft. Pulse transformer for driving thyristors. 3,742,332, 6-26-73, Cl. 321-11.000.
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Kobylarz, Edward J. Golf gloves. 3,740,766, 6-26-73, Cl. 2-161.00a.
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Kobylinski, Tadeusz P.; and Swift, Harold E., to Gulf Research & Development Company. Olefin disproportionation process. 3,725,496, 43-73, Cl. 260-683.00d.
Kocay, Witold R.; and Fillippeli, Mario L., Jr., to Monsanto Company. Process of manufacturing tightly woven acrylic fabric. 3,731,351, 5-8-73, Cl. 28-76.00r.
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Koch, Paul L.; and Maxwell, James C., to Carter's Ink Company, The. Electrode and terminal structure for non-impact printer. 3,733,613, 5-15-73, Cl. 346-74.00e.
Koch, Richard C., to Regency Electronics, Inc. Scanning radio having rapid channel skipping capability. 3,714,585, 1-30-73, Cl. 325-468.000.
Koch, Robert E.: *See—*
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Rusk, Gerald R.; and Koch, Robert E., 3,742,789.
Koch, Robert E., to General Electric Company. Oil immersible current limiting fuse assembly. 3,723,930, 3-27-73, Cl. 337-158.000.
Koch, Roland G.: *See—*
King, John L., Jr.; and Koch, Roland G., 3,730,540.
Koch, Ronald N.: *See—*
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Koch, Ronald W., to Procter & Gamble Company, The. Bottle uncaser-single liner. 3,753,509, 8-21-73, Cl. 214-309.000.
Koch, Rudolf: *See—*
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Koch, Sigurd: *See—*
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Koch, Stanley D.; and Gerger, Arthur H., to Horizons Incorporated; a division of Horizons Research Incorporated. Unsaturated polyester resins which cure in the presence of water and which contain at least one dehydro monomer. 3,743,686, 7-3-73, Cl. 260-861000.
Koch, Theodor, to Heckler & Koch GmbH. Firearm barrel. 3,736,693, 6-5-73, Cl. 42-78.000.
Koch, Theodore A.; and Eleuterio, Herbert S., to Du Pont de Nemours, E. I., and Company. Nonsolvent air oxidation of P-xylene. 3,711,539, 1-16-73, Cl. 260-524.00r.
Koch, Theodore Augur, to Du Pont de Nemours, E. I., and Company. Preparation of 1,6,8-decatriene. 3,726,935, 4-10-73, Cl. 260-677.00r.
Koch, Ulrich H.; Matousek, Stephen; and Soderlund, Gary, to Whitye Research Tool Co. Ball valve with separable end fitting. 3,722,856, 3-27-73, Cl. 251-152.000.
Koch, Werner; and Preuss, Friedrich, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Adjustable assembly for a dampening roller of an offset printing press. 3,757,689, 9-11-73, Cl. 101-148.000.
Koch, Wilhelm; Walter, Gustav; and Dangeleit, Siegfried, to Demag Aktiengesellschaft. Turret device for continuous casting installations. 3,773,228, 11-20-73, Cl. 222-168.000.
Koch, Wolfgang: *See—*
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Koch-Light Laboratories, Limited: *See—*
Epton, Roger; McLaren, John Vincent; and Thomas, Trevor Henry, 3,761,357.
Kochanski, Aloysius J. Temperature responsive electrical switch assembly. 3,735,310, 5-22-73, Cl. 337-107.000.
Kochavi, Jacob. Method of making a casting having an oxidized surface layer intended for use as a dental restoration. 3,716,418, 2-13-73, Cl. 148-6.300.
Kochavi, Jacob. Method of forming dental restorations. 3,761,728, 9-25-73, Cl. 29-160.600.
Kocher, Erich J., to Vilter Manufacturing Corporation. Refrigerant cooled oil system for a rotary screw compressor. 3,710,590, 1-16-73, Cl. 62-468.000.
Kocher, Erich J., to Vilter Manufacturing Corporation. Refrigerant cooled compressor. 3,721,108, 3-20-73, Cl. 62-470.000.
Kocher, Hans; and Schmied, Peter, to Buren Watch Company S.A. Device for indication of the hour in a timepiece. 3,745,762, 7-17-73, Cl. 58-85.500.
Kocher, Hans. Calendar watch setting mechanism for various month lengths. 3,750,385, 8-7-73, Cl. 58-58.000.
Kocher, Hans; and Schmid, Peter, to Societe Suisse pour l'Industrie Horlogere Management Services SA. Date-indicating device for a calendar timepiece. 3,779,001, 12-18-73, Cl. 58-58.000.
Kochergin, Alexei Ilich: *See—*
Daiker, Artur Lvovich; Morozov, Alexandr Nikolaevich; Veis, Anatoly Ivanovich; Kushtuev, Boris Grigorievich; Novoselov, Nikolai Mikhailovich; Zhuravlev, Viktor Nikolaevich;

Zinoviev, Alexei Fedorovich; Alfeev, Ivan Ivanovich; Nikitin, Viktor Ivanovich; Kocergin, Alexei Ilich; Matashkov, Vladimir Filippovich; Karelin, Nikolai Ivanovich; Volchematiev, Jury Venediktovich; Zaluzhentsev, Veniamin Fedorovich; and Morozov, Gennady Yakovlevich, 3,730,504.

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Kochhar, Rajindar K.; Jones, Joseph W., Jr.; and Henry, Raymond M., to Gulf Research & Development Company. Process for the preparation of manufactured articles. 3,740,263, 6-19-73, Cl. 117-126.0gr.

Kochinashvili, Alexei Vladimirovich; and Kochinashvili, Tengiz Alexeevich. Device for cutting rolled products. 3,747,456, 7-24-73, Cl. 83-404.000.

Kochinashvili, Tengiz Alexeevich: *See—*
Kochinashvili, Alexei Vladimirovich; and Kochinashvili, Tengiz Alexeevich, 3,747,456.

Kochs Adler AG: *See—*
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Scholl, Hans; and Fischer, Jochen, 3,774,558.
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Koci, Ludvik F.: *See—*
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Koci, Ludvik F.; and Suarez, Humberto. Pressure relief and drain valve. 3,729,020, 4-24-73, Cl. 137-522.000.

Kocian, Steve J., 40% to Komarec, Paul M. Fishhook sharpener. 3,735,542, 5-29-73, Cl. 51-181.00r.

Kock, Hendrikus Gerardus: *See—*
De Nobel, Dirk; and Kock, Hendrikus Gerardus, 3,775,200.

Kock, Hendrikus Gerardus; De Nobel, Dirk; and Tijburg, Rudolf Paulus, to U.S. Philips Corporation. Method of manufacturing a semiconductor device. 3,767,482, 10-23-73, Cl. 148-177.000.

Kock, Robert E.: *See—*
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Kocks, Friedrich; Quambusch, Albert; and Terdenge, Bernhard. Apparatus for draw forging. 3,728,890, 4-24-73, Cl. 72-406.000.

Kocks, Friedrich. Methods and apparatus for rolling. 3,729,972, 5-1-73, Cl. 72-228.000.

Kocks, Friedrich; and Lippert, Hans J., to Kocks, Friedrich. Methods for casting hollow ingots. 3,735,798, 5-29-73, Cl. 164-94.000.

Kocks, Friedrich. Method of treating and handling molten metal. 3,736,127, 5-29-73, Cl. 75-93.00r.

Kocks, Friedrich. Kilns. 3,758,089, 9-11-73, Cl. 266-18.000.

Kocks, Friedrich. Apparatus for casting metals. 3,773,104, 11-20-73, Cl. 164-323.000.

Kocks, Friedrich, Firma: *See—*
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Kocsis, Karoly; Renner, Ulrich; and Jaeggi, Knut Alfred, to Ciba-Geigy Corporation. Derivatives of dibenzo cycloocten-5,11-imine. 3,717,641, 2-20-73, Cl. 260-286.00r.

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Kocy, Octavian: *See—*
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Kodaira, Nobuhisa. Apparatus for heat treatment of synthetic yarn. 3,728,518, 4-17-73, Cl. 219-326.000.

Kodaira, Nobuhisa; and Motegi, Norio. Apparatus of driving spinning for false twisting yarn. 3,748,842, 7-31-73, Cl. 57-77.450.

Kodaira, Nobuhisa. Apparatus for heat treatment of synthetic fibre yarn. 3,770,051, 11-6-73, Cl. 165-105.000.

Kodaira, Ryoji: *See—*
Komatsu, Kenichi; Saijo, Akira; Haneda, Katsuji; Kodaira, Ryoji; and Ohsawa, Hiroshi, 3,730,836.

Kodaira, Yasuo, to Nihon Kaiheiki Industrial Company Ltd. Lever switch with operating lever means detachable from movable contact carrying member only in neutral position. 3,761,664, 9-25-73, Cl. 200-172.00r.

Kodalle, Horst: *See—*
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Kodama, Atsuki: *See—*
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Kodama, Hayashi: *See—*
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Kodama, Hiroshi: *See—*
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Kodama, Hisashi; Sekigawa, Tsuneo; Hata, Kazumi; and Nakaya, Akimichi, to Nippon Kokan Kabushiki Kaisha. Brackets for supporting partitions in docks. 3,708,989, 1-9-73, Cl. 61-64.000.

Kodama, Kenji: *See—*
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Kodama Limited: *See—*
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Kodama, Reijiro; Nakasuji, Yugoro; and Yamada, Nobuhiro, to Takeda Chemical Industries, Ltd. Disease control composition for silkworms employing certain-naphthyridine compounds. 3,743,723, 7-3-73, Cl. 424-120.000.

Kodama, Takashi: *See—*
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Kodera, Yoshihide; Kato, Jun; Shimada, Kazuo; Suzuki, Morio; Ohse, Hidetaka; Ohshima, Satoshi; and Kiriki, Yasunori, to Industrial Science & Technology, Agency of. Hydrogenation treatment of hydrocarbon oil. 3,716,478, 2-13-73, Cl. 208-152.000.

Kodis, Rudolfs, to Phillips Petroleum Company. Apparatus for controlling the pick count per inch of a loom. 3,730,230, 5-1-73, Cl. 139-24.000.

Kodis, Rudolfs, to Phillips Petroleum Company. Yarn coating device. 3,739,746, 6-19-73, Cl. 118-62.000.

Kodon, Inc.: *See—*
Crane, Ronald C., 3,769,545.

Kodousek, Jiri; and Mladek, Milos, to Elitex Zavody, textilniho strojirenstvi. Textile machine construction. 3,771;632, 11-13-73, Cl. 192-44.000.

Koeber, Henry J.: *See—*
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Koeber, Henry J., to Bell & Howell Company. Lens focusing mechanism with manual control. 3,715,161, 2-6-73, Cl. 356-3.000.

Koeber, Henry J., to Bell & Howell Company. Film take-up with ratchet. 3,721,401, 3-20-73, Cl. 242-207.000.

Koebler, William F.; and Frank, Dale A., to Salsbury Laboratories. Package for frangible articles. 3,716,133, 2-13-73, Cl. 206-65.00a.

Koeblitz, William E., to Gould Inc., mesne. Multichannel electrocardiograph having one less input amplifiers than the number of signals to be measured. 3,709,212, 1-9-73, Cl. 128-2.06b.

Koebner, Adolph: *See—*
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Koechlin, Paul, to UNELEC. Spacer for the windings of an electrical machine. 3,745,395, 7-10-73, Cl. 310-260.000.

Koechner, Walter; and Debenedictis, Leonard Charles, to Union Carbide Corporation. Method and means for stabilizing the amplitude and repetition frequency of a repetitively Q-switched laser. 3,747,019, 7-17-73, Cl. 331-94.500.

Koederitz, Fritz: *See—*
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Koefferlein, Rainer, to Siemens Aktiengesellschaft. Cam-controlled perforators. 3,768,359, 10-30-73, Cl. 83-563.000.

Koehl, Harald: *See—*
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Koehler, Albert M., to Brown & Root, Inc. Offshore tower. 3,729,940, 5-1-73, Cl. 61-46.500.

Koehler, Albert O. Expansible and collapsible spring acting, multisided structures and blanks therefor. 3,726,469, 4-10-73, Cl. 229-41.00b.

Koehler, Albert T.; Shideler, Paul J.; and Dohogne, Linus E., to Gerrard, A. J., & Company. Method for transferring cotton bales. 3,710,710, 1-16-73, Cl. 100-3.000.

Koehler, Dale R., to Bulova Watch Company, Inc. Integrated circuit for electronic timepieces. 3,727,151, 4-10-73, Cl. 331-116.00m.

Koehler, Dale R.; and Mutter, William W., to Bulova Watch Company, Inc. Incrementally adjustable capacitor unit for tuning a crystal-controlled oscillator. 3,754,152, 8-21-73, Cl. 310-8.100.

Koehler, Dale R.; Zupfer, Jerrald A.; and Prak, Jan Willem L., to Bulova Watch Company, Inc. Presettable frequency divider for electronic timepiece. 3,777,471, 12-11-73, Cl. 58-23.00r.

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Koehler, Lyle E., to Honeywell Inc. Driven-vane anemometers. 3,762,876, 10-2-73, Cl. 73-189.000.

Koehler Manufacturing Company: *See—*
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Koehler, William F., to Cleveland, Hardware & Forging Company. Pivot mounting for bar of hand brake mechanism. 3,714,842, 2-6-73, Cl. 74-505.000.

Koehler, William F. Elongated rigidified container. 3,744,659, 7-10-73, Cl. 217-7.000.

Koehler-Dayton, Inc.: *See—*
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Koehling, Klaus: *See—*
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Koehly, Gerard, to Commissariat a l'Energie Atomique. Extraction of transplutonium elements from an aqueous solution containing rare earths and fission products. 3,748,104, 7-24-73, Cl. 423-10.000.

Koehn, Dale G. Rod weeder drive assembly. 3,735,816, 5-29-73, Cl. 172-44.000.

Koehn, Erich: *See—*
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Koehn, Erich, to Atlas Chemical Industries, Inc. Flame retardant and intumescent compositions. 3,766,242, 10-16-73, Cl. 260-468.00g.

Koehn, Frederick F.: *See—*
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Koehn, James P.; and Bethune, Edwin M., to Under Sea Industries, Inc. Vest inflation/exhaust valve assembly. 3,727,250, 4-17-73, Cl. 9-313.000.

Koehn, Jurgen: *See—*
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Koehn, Richard R.: *See—*
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Koehn, William A, to Burroughs Corporation. Variable length arithmetic unit. 3,751,650, 8-7-73, Cl. 235-175.000.

Koehnen, Earl A., to Farmhand, Inc. Folding auger for portable feed mill and mixer. 3,719,268, 3-6-73, Cl. 198-115.000.

Koehring Company: *See—*
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Bernhoft, Gerald W.; and Miller, David A., 3,773,084.
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Koeijmans, Gerard D., to Mobil Oil Corporation. Video display system creating both horizontal and vertical sync pulses from the disc time track. 3,742,289, 6-26-73, Cl. 315-18.000.

Koelbel, Robert; De Vaulx, Joseph; Gillet, Roger; and Lehuen, Christian, to Societe Generale de Constructions Electriques et Mecaniques (Alsthom). Device for the wedging of coils of rotors of electric machines. 3,739,212, 6-12-73, Cl. 310-194.000.

Koeleveld, Frans P.; Ngo, Reginald Mak; and Dury, Russell G., to Dow Badische Company. Dissipation of static electricity. 3,723,811, 3-27-73, Cl. 317-2.00r.

Koelichen, Harald, to Standardgraph Filler & Fiebig GmbH. Container sleeve for drawing nibs of Indian ink writing devices. 3,767,035, 10-23-73, Cl. 206-1.00r.

Koellisch, Glenn M. Nozzle construction for portable carpet cleaning machine. 3,747,155, 7-24-73, Cl. 15-322.000.

Koeln, Harold E., to Penn Corporation. Pen casing. 3,729,269, 4-24-73, Cl. 401-209.000.

Koelschbach, Albert, to Kammann, Werner. Multicolor offset screen printing apparatus. 3,735,699, 5-29-73, Cl. 101-124.000.

Koenders, Elisabeth. Packing machine. 3,777,452, 12-11-73, Cl. 53-206.000.

Koenders, Henricus A. A.: *See—*
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Koenen, Gunter; and Szczepanek, Alfred. Stabilizer-lubricant combinations for halogen-containing polymers. 3,779,962, 12-18-73, Cl. 260-23.0xa.

Koenig, Alfred. Adjustable support for bobbins. 3,744,735, 7-10-73, Cl. 242-130.000.

Koenig, Dietrich: *See—*
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Koenig, Elmer A., to Sherwood Medical Industries Inc. Arming cap for breech loaded syringe. 3,707,968, 1-2-73, Cl. 128-218.0pa.

Koenig, Elmer A., to Sherwood Medical Industries, Inc. Locking stackable container. 3,739,939, 6-19-73, Cl. 220-97.00c.

Koenig, Gerhard. Three wire grounded receptacle with safety lock. 3,736,547, 5-29-73, Cl. 339-14.00r.

Koenig, John O. Boat elevating and supporting mechanism. 3,746,194, 7-17-73, Cl. 214-450.000.

Koenig, John R.: *See—*
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Osieka, Hans; Koenig, Karl-Heinz; and Pommer, Ernst-Heinrich, 3,711,614.
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Koenig, Martin F.; De Backer, Frank A.; and Issa, Manuel; deceased (by Sheedy, Patrick T.; administrator), to Cutler-Hammer, Inc. Clamping adjustment feature for bus duct housing. 3,710,300, 1-9-73, Cl. 339-22.00b.

Koenig, Martin F.; and Issa, Manuel; deceased (by Sheedy, Patrick T.; administrator), to Cutler-Hammer, Inc. Moisture seal and fire barrier for electrical bus duct. 3,732,353, 5-8-73, Cl. 174-68.00b.

Koenig, Nathan H.; and Friedman, Mendel, to United States of America, Agriculture. Modification of wool with vinylpyridine and zinc chloride. 3,749,553, 7-31-73, Cl. 8-127.600.

Koenig, Paul W.: *See—*
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Koenig, Paul W., to General Electric Company. Continuous strip processing of semiconductor devices and novel bridge construction. 3,737,738, 6-5-73, Cl. 317-234.00r.

Koenig, Peter: *See—*
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Koenig, Robert H., to Tapeswitch Corporation of America. Ribbon switch means. 3,710,054, 1-9-73, Cl. 200-86.00r.

Koenig, Robert H., to Tapeswitch Corporation of America. Cushion seat switch sensor means. 3,715,541, 2-6-73, Cl. 200-86.00r.

Koenig, Robert H., to Tapeswitch Corporation of America. Flex sensitive normally closed ribbon switch. 3,717,735, 2-20-73, Cl. 200-85.00r.

Koenig, Ulrich: *See—*
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Koenig, Walter; Adams, Heribert; and Heidjann, Franz, to Klockner-Humboldt-Deutz Aktiengesellschaft. Control device for the power lifting installation of a tractor. 3,716,104, 2-13-73, Cl. 172-7.000.
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Koerner, Otto. Permeable refractory products. 3,753,746, 8-21-73, Cl. 106-58.000.
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Kogl, Wolfgang, to DSD Dillinger Stahlbau GmbH. Heat treatment apparatus. 3,771,776, 11-13-73, Cl. 266-6.00s.
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Kohashi, Tadao, to Matsushita Electric Industrial Co., Ltd. Energy-responsive luminescent device. 3,748,380, 7-24-73, Cl. 178-6.800.
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Kohl, Karl. Needle bar drive for warp knitting machine. 3,754,415, 8-28-73, Cl. 66-86.000.
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Kohnert, Hans, to Heidelberger Druckmaschinen Aktiengesellschaft. Clamping assembly or jig for machine tools, machining centers and transfer routes. 3,774,900, 11-27-73, Cl. 269-95.000.
Kohnke, Richard. Parachute canopy. 3,741,506, 6-26-73, Cl. 244-145.000.
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Kohoutek, Jindrich; and Near, Charles W., to Hewlett-Packard Company. Binary/BCD arithmetic logic unit. 3,749,899, 7-31-73, Cl. 235-176.000.
Kohren-Keller A.G.: *See—*
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Kohsaka, Masanobu: *See—*
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Kohtani, Yotaka, to Canon Kabushiki Kaisha. Exposure control device. 3,742,826, 7-3-73, Cl. 95-10.0ct.
Kohtani, Yutaka, to Canon Kabushiki Kaisha. Anti-crosstalk system for multi-track multiple head device with longitudinally spaced head means, shielding cases for each head means, and an erase head placed between each head means. 3,710,036, 1-9-73, Cl. 179100.20k.
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Koide, Frank K.; and Hume, Frederick R., to North American Rockwell Corporation. Broadband spectral intensity measurement system. 3,736,504, 5-29-73, Cl. 324-74.000.
Koide, Hideo: *See—*
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Koide, Hiroyuki: *See—*
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Koide, Tsuyoshi; Kawamata, Taisuke; and Asano, Hiroaki, to Toyota Koki Kabushiki Kaisha. Plural stepping motor numerical feed control device. 3,757,192, 9-4-73, Cl. 318-696.000.
Koike, Haruki, to Nippon Gakki Seizo Kabushiki Kaisha. Ski having a hard type foamed resin core. 3,722,901, 3-27-73, Cl. 280-11.131.
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Koike, Hiroshi. Electromagnetic linear motion device. 3,746,937, 7-17-73, Cl. 318-122.000.
Koike, Hirotami; and Ueno, Katuyoshi, to Nihon Denshi Kabushiki Kaisha. Scanning electron microscope. 3,717,761, 2-20-73, Cl. 250-49.5pe.
Koike, Hirotami, to Nihon Denshi Kabushiki Kaisha. Apparatus for separating charged particles according to their respective ranges. 3,745,337, 7-10-73, Cl. 250-41.9tf.
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Koivunen, Erkki A., to General Motors Corporation. Hydrostatic tilt box bearing. 3,779,137, 12-18-73, Cl. 91-489.000.
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Koizumi, Shun; Suzuki, Takeshi; and Okuno, Chuzo, to Daikin Kogyo Co., Ltd. Thermo-stable composition of vinylidene fluoride polymer. 3,773,713, 11-20-73, Cl. 260-30.200.
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Koizumi, Yutaka, to Kabushiki Kaisha Ricoh. Slit exposure optical system for reproducing apparatus or the like. 3,720,466, 3-13-73, Cl. 355-8.000.
Koizumi, Yutaka, to Ricoh Co., Ltd. Electrophotographic copying apparatus with means for erasing marginal images. 3,724,940, 4-3-73, Cl. 355-3.00r.
Koizumi, Yutaka, to Kabushiki Kaisha Ricoh. Developing device of the magnetic brush type for electrophotographic apparatus using a dry developer. 3,744,451, 7-10-73, Cl. 118-637.000.
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Kojima, Isao; Takahashi, Tetsuya; Sasaki, Takeshi; and Yosimura, Tatuwo, to Hitachi, Ltd. Voltage multiplying rectifier device. 3,739,254, 6-12-73, Cl. 321-15.000.
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Kojima, Kiyoshi; and Abe, Toshiro, to Matsushita Denko Kabushiki Kaisha. Photosensitive solid oscillator. 3,725,820, 4-3-73, Cl. 331-107.00r.
Kojima, Kiyoshi; and Abe, Toshiro, to Matsushita Electric Works, Ltd. Control system for electric circuit utilizing photosensitive solid oscillator. 3,737,803, 6-5-73, Cl. 331-107.00r.
Kojima, Konio; and Wada, Mitsuo, to Mitsushita Electric Industrial Co., Ltd. Electrical conductive film. 3,767,519, 10-23-73, Cl. 161-168.000.
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Kojima, Noriatsu. Clamping device by segmental thread pipe for joint. 3,734,547, 5-22-73, Cl. 285-357.000.
Kojima, Toshio: *See—*
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Kok, Albertus Jacobus Theodorus; and Bronnimann, Arnold, to IPP Industrial Polymer Processing S.A. Fluid conduits. 3,747,632, 7-24-73, Cl. 137-375.000.
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Kokubo, Ryo; Yokomichi, Koji; Takakuwa, Yasuo; and Takahashi, Kozo, to Nissan Chemical Industries, Ltd. Method for reclamation of melamine waste gas. 3,723,430, 3-27-73, Cl. 260-249.700.
Kokubo, Takamasa; Shimokuma, Isao; Takahashi, Haruji; Hirano, Katasuhiku; and Segawa, Masahiro, 1/2 to Shinko-Pfaudler Company, Limited and 1/2 to Kureha Kagaku Kogyo Kabushiki Kaisha. Method for anti-corrosive coating. 3,765,932, 10-16-73, Cl. 117-132.0cf
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Kolb, Erich, to Bosch, Robert, G.m.b.H. Windshield wiper assembly. 3,768,113, 10-30-73, Cl. 15-250.320.
Kolb, Frich, to Bosch, Robert, G.m.b.H. Windshield wiper. 3,711,890, 1-23-73, Cl. 15-250.340.
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Kolbe, William H.; and Sagady, Alexander J., to General Motors Corporation. Epitrochoidal compressor. 3,711,225, 1-16-73, Cl. 417-440.000.
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Kolehmainen, Jack A.; and Lemieux, George E., to Ford Motor Company. Throttle pressure control for an automatic power transmission mechanism. 3,768,339, 10-30-73, Cl. 74-864.000.
Kolek, Robert L., to Westinghouse Electric Corporation. Resinous-microsphere-glass fiber composite. 3,769,126, 10-30-73, Cl. 156-172.000.
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Kolesar, Paul M.; and Payne, Robert A., to Stewart-Warner Corporation. Non-flickering display system having multi-phase power source. 3,728,714, 4-17-73, Cl. 340-334.000.
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Koleske, Joseph V.; and Magnus, George, to Union Carbide Corporation. Polyurethane based on blends of poly (oxycaproyl) diols and poly(oxytetraurethylene) diols. 3,746,665, 7-17-73, Cl. 260-2.5an.
Koleske, Joseph Victor; Roberts, Rene Marie-Joseph; and Del Giudice, Frank Paul, to Union Carbide Corporation. ABA block polymers of polyesters and polyethers. 3,725,352, 4-3-73, Cl. 260-75.00r.
Koleske, Joseph Victor; and Walter, Earl Richard, to Union Carbide Corporation. Shaped and molded articles of polymer blends comprising polyolefins and lactone polymer. 3,734,979, 5-22-73, Cl. 260-897.00r.
Koleske, Joseph Victor; Lundberg, Robert Dean; Pollart, Dale Flavian; and Smarook, Walter Henry, to Union Carbide Corporation. Composite article having a heat-activatable body. 3,770,564, 11-6-73, Cl. 161-183.000.
Koleske, Joseph Victor; Whitworth, Clyde Jesse, Jr.; and Lundberg, Robert Dean, to Union Carbide Corporation. Nylon polymers blended with cyclic ester polymers. 3,781,381, 12-25-73, Cl. 260-857.0pe.
Kolesnikov, Anatoly Vladimirovich; Nikolaev, Mikhail Mikhailovich; Sheka, Valdimir Pavlovich; Muzhzhavlev, Konstantin Dmitrievich; Strelets, Khaim Lipovich; Kamenev, Viktor Sergeevich; Kuzmin, Valery Vyacheslavovich; Kolesnikov, Valery Afanasievich; Bashkaov, Vylacheslav Vasilievich; Baibekov, Murat Kazmukhametovich; and Kolomiitsev, Arnold Vasilievich. Electrolyzer for production of magnesium. 3,749,660, 7-31-73, Cl. 204-243.00r.
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Kolhi, Martti Ilmari, to Collin, R., Consulting AB. Method for combusting fuels in a substantially conically shaped curtain. 3,758,258, 9-11-73, Cl. 431-9.000.
Kolibar, Richard W. Fastener device. 3,733,655, 5-22-73, Cl. 24-73.00p.
Kolibas, James A., to Addressograph-Multigraph Corporation. Sheet feeder assembly. 3,744,789, 7-10-73, Cl. 271-42.000.
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Kolin, Alexander, to University of California, The Regents of the. Orientable electromagnetic catheter probe and method. 3,722,505, 3-27-73, Cl. 128-2.05f.
Kolin, Alexander, to University of California, The Regents of the. Electromagnetic catheter velometer-flow meter. 3,734,083, 5-22-73, Cl. 128-2.05f.
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Kolivas, John G. Barbecue pit. 3,756,140, 9-4-73, Cl. 99-339.000.
Kolker, William A., 49% interest to Miller, Edward P. Bicycle storage device. 3,770,133, 11-6-73, Cl. 211-19.000.
Kolkman, Dirk, to U.S. Philips Corporation. Discharge lamp arrangement. 3,753,027, 8-14-73, Cl. 313-318.000.
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Kollandsrud, Per, to A/S Moelven Brug. Pressure-medium operated percussion or impact apparatus. 3,747,694, 7-24-73, Cl. 173-137.000.
Kollar, Ernest P.: *See—*
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Kollar, John, to Halcon International Inc. Separation of water in alkylene glycol mono and diester purification by azeotropic distillation. 3,743,672, 7-3-73, Cl. 260-497.00a.
Kollar, John; and Posner, Judd, to Halcon International Inc. Process of producing terephthalic acid reaction products. 3,745,182, 7-10-73, Cl. 260-475.00p.
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Kollar, John, to Halcon International, Inc. Process for producing glycol esters. 3,770,813, 11-6-73, Cl. 260-497.00r.
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Koller, Hans, to Buss A.G. Drying process and spray dryer for carrying out the process. 3,742,611, 7-3-73, Cl. 34-8.000.
Koller, Hans; and Frey-Portner, Urs, to Buss A.G. Process and apparatus for continuous treatment of dusty, powdery and granular materials. 3,755,913, 9-4-73, Cl. 34-10.000.
Koller, Heinz: *See—*
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Koller, James Edward: *See—*
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Koller, Rudolf, to Siemens Aktiengesellschaft. Carrier for type carriers for high speed printing device. 3,717,234, 2-20-73, Cl. 197-53.000.
Koller, Rudolf, to Siemens Aktiengesellschaft. Devices for shifting type carriers in electric typewriters and the like. 3,773,159, 11-20-73, Cl. 197-16.000.
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Koller, Walter. Card index with selecting means. 3,747,244, 7-24-73, Cl. 40-65.000.
Kollerov, Vyacheslav Viktorovich: *See—*
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Kolliker, Hans-Peter; Staub, Alfred; and Hindermann, Peter, to Ciba-Geigy AG. Dispersible α- and β-substituted anthroquinone dyestuffs containing an-alkyleneocoor group. 3,734,934, 5-22-73, Cl. 260-376.000.
Kolliker, Hans-Peter; Staub, Alfred; and Hindermann, Peter, to Ciba-Geigy AG. Dispersible anthraquinone dyestuffs. 3,767,680, 10-23-73, Cl. 260-372.000.
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Kolling, Heinrich; and Kurz, Jurgen, to Farbenfabriken Bayer Aktiengesellschaft. Production of 2-acyloxy-thionobenzamides. 3,714,231, 1-30-73, Cl. 260-477.000.
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Kollitz, Gerhard. Spring clip device. 3,756,550, 9-4-73, Cl. 248-206.00a.
Kollmann, Wolfgang; and Schwappach, Dieter, to Crenstein & Koppel Aktiengesellschaft. Telescopic boom. 3,715,039, 2-6-73, Cl. 212-55.000.
Kollmeyer, Herman R., to United States of America, Navy. Automatic spring rate plotter. 3,720,101, 3-13-73, Cl. 73-161.000.
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Kolman, John L., to United States Manufacturing Company. Prosthetic leg with weight responsive knee lock. 3,723,997, 4-3-73, Cl. 3-27.000.
Kolmar, Herbert, to Impex-Essen Vertrieb von Werkzeugen GmbH. Cartridge-actuated fastener-driving tools. 3,709,421, 1-9-73, Cl. 227-10.000.
Kolmarx, Louis Edward, to Scovill Manufacturing Company. Process for preparing tubeless pneumatic tires for use structure by which the process may be utilized. 3,742,998, 7-3-73, Cl. 152- 427.000.
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Kolodney, Morris; and Arbiter, William, to United States of America, Atomic Energy Commission. Corrosion surveillance system. 3,734,690, 5-22-73, Cl. 23-230.00c.
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Kolomick, Paul. Hand tool for edging gypsum board. 3,762,046, 10-2-73, Cl. 30-172.000.
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Kolpek, Robert A.; and Stewart, William R., Jr., to International Business Machines Corporation. Dictation system featuring paragraph editing, special notations and sentence extension. 3,749,849, 7-31-73, Cl. 179-100.20b.
Kolpek, Robert A.; Rahenkamp, Robert A.; and Stewart, William R., Jr., to International Business Machines Corporation. Editing procedures for dictation and typing systems. 3,777,072, 12-4-73, Cl. 179-100.2md.
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Koltz, John M.; and Scerbo, Frank J., to Bendix Corporation, The. Stored energy gyro. 3,738,179, 6-12-73, Cl. 74-5.700.
Koluch, Joseph S.; and Wittman, Ralph E., to Owens-Illinois, Inc. Article supply system. 3,727,756, 4-17-73, Cl. 209-73.000.
Kolwicz, Stanley J. Upright checkers and chess game apparatus. 3,781,014, 12-25-73, Cl. 273-131.0ac.
Kolyer, John H.; and Kveglis, Albert A., to Allied Chemical Corporation. Diphenol containing polyesters derived from tris (2-hydroxyalkyl) isocyanurates. 3,780,133, 12-18-73, Cl. 260-857.00r.
Kolyer, John M.; and Kveglis, Albert A., to Allied Chemical Corporation. Compositions of anionicially polymerized polycaprolactam plasticized with hexamethylphosphorotriamide. 3,720,638, 3-13-73, Cl. 260-30.60r.
Kolyer, John M.; and Kveglis, Albert A., to Allied Chemical Corporation. Enamel compositions of diphenol containing polyesters derived from tris (2-hydroxyalkyl) isocyanurates and diisocyanates. 3,763,276, 10-2-73, Cl. 260-857.00r.
Komai, Hisataka; Usui, Tatuo; Hosozawa, Hirosi; Kimura, Nobuhiro; Yamamoto, Hiroshi; and Nakata, Tetsuya, to Japanese Geon Company, Ltd., The and Osaka Soda Co., Ltd. Process for the polymerization of alkylene oxide and catalyst therefor. 3,766,101, 10-16-3, Cl. 260-2.00a.
Komaki, Shojiro. Electronic timepiecc with a time signalling device. 3,759,029, 9-18-73, Cl. 58-38.000.
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Komatsu, Koichi, to Atsugi Motor Parts Company, Limited. Fluid shock absorbing bumper. 3,759,558, 9-18-73, Cl. 293-30.000.
Komatsu, Noboru; Suzuki, Takatoshi; and Ito, Takuo, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Heat resisting alloys. 3,715,206, 2-6-73, Cl. 75-170.000.
Komatsu, Noboru; Arai, Tohru; and Mizutani, Masayoshi, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Process of forming a carbide layer of vanadium, niobium or tantalum upon a steel surface. 3,719,518, 3-6-73, Cl. 117-49.000.
Komatsu, Noboru; and Kurauchi, Toshio, to Kabushiki Kaisha Toyota Chuo Kenkyusho. Energy absorbing steering device. 3,744,338, 7-10-73, Cl. 74-492.000.
Komatsu, Noboru; Suzuki, Takatoshi; Ito, Takuo; Hara, Yoshiteru; and Asakura, Kouichi, to Kabushiki Kaisha Toyota Chuo Kenkyusho and Aisin Seiki Company Limited. Process and apparatus for the partial or localized tempering of a steel sheet-or the like stoc. 3,753,798, 8-21-73, Cl. 148-131.000.
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Kometani, Yutaka; Koizumi, Shun; Suzuki, Takeshi; and Okuno, Chuzo, to Daikin Kogyo Co., Ltd. Heat stabilized vinylidene fluoride polymer. 3,728,303, 4-17-73, Cl. 260-45.70r.
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Kominami, Naoya; Iwaisako, Toshiyuki; and Ohki, Kusuo, to Asahi Kasei Kogyo Kabushiki Kaisha. Method of reforming hydrocarbons. 3,770,616, 11-6-73, Cl. 208-138.000.
Kominami, Naoya; and Tamura, Nobuhiro, to Asahi Kasei Kogyo Kabushiki Kaisha. Process for preparing phenyl esters of aliphatic carboxylic acids. 3,772,383, 11-13-73, Cl. 260-479.00r.
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Kominami, Takuji, to Matsushita Graphic Communication Systems, Inc. Facsimile scanning apparatus. 3,737,575, 6-5-73, Cl. 178-7.600.
Kominato, Kiyoshi; and Kominato, Yutaka. Process for the production of thiocornine. 3,781,348, 12-25-73, Cl. 260-534.00s.
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Komiya, Yoshio, to Canon Inc. Method of manufacturing flexible optical fiber strand for transmitting images and apparatus therefor. 3,741,839, 6-26-73, Cl. 156-174.000.
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Komiyama, Yoshiro: *See—*
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Komninos, John; Klemchuk, Peter; and Ham, George, to Ciba-Geigy Corporation. Dyeing polyacrylonitrile with basic dyestuff and alkoxymethyl quaternary ammonium compounds. 3,716,329, 2-13-73, Cl. 8-169.000.
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Komoda, Akira: *See—*
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Komoda, Tsutomu: *See—*
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Komoda, Tsutomu, to Hitachi, Ltd. Electron gun device of field emission type. 3,731,095, 5-1-73, Cl. 250-49.50a.
Komorek, Felix A. Ring compressor. 3,754,312, 8-28-73, Cl. 29-200.00p.
Komori, Shigehiro; Sato, Jiro; and Hattori, Hiroyuki, to Canon Kabushiki Kaisha. Electrophotographic apparatus. 3,740,132, 6-19-73, Cl. 355-3.000.
Komori, Shigehiro; Sato, Jiro; and Hattori, Hiroyuki, to Canon Kabushiki Kaisha. Electrophotographic copying apparatus of slit exposure type. 3,740,133, 6-19-73, Cl. 355-8.000.
Komori, Shigehiro; Kurahashi, Akira; and Hattori, Hiroyuki, to Canon Kabushiki Kaisha. Wet type developing apparatus. 3,741,093, 6-26-73, Cl. 95-89.00r.
Komori, Shigehiro, to Canon Camera Kabushiki Kaisha. Drive mechanism for copying machine. 3,743,274, 7-3-73, Cl. 271-3.000.
Komori, Shigehiro; Sato, Jiro; and Umezawa, Kazumi, to Canon Kabushiki Kaisha. Electrophotographic copying apparatus. 3,743,406, 7-3-73, Cl. 355-8.000.
Komori, Shigehiro, to Canon Kabushiki Kaisha. Electrophotographic copying apparatus. 3,751,158, 8-7-73, Cl. 355-8.000.
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Komp, Richard J.; and Weigel, John W., to Xerox Corporation. Coated corona generating electrode. 3,723,793, 3-27-73, Cl. 313-355.000.
Komp, Richard J., to Xerox Corporation. Method of cleaning an electrostatographic imaging surface. 3,725,059, 4-3-73, Cl. 96-1.400.
Kompelien, Arlon D., to Honeywell Inc. Thermostat with projection for thermally isolated switch means. 3,749,934, 7-31-73, Cl. 307-117.000.
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Kondis, Thomas J.; and Rolles, Rolf, to Aluminum Company of Kondo, Tetsuya: *See—*

Kondis, Thomas J.; and Rolles, Rolf, to Aluminum Company of America. Irostearic acid coated, non-dusting aluminum particles. 3,781,177, 12-25-73, Cl. 149-6.000.

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Kondo, Chitoshi: *See—*
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Kondo, Eiji; and Mitsugi, Takashi, to Shionogi & Co., Ltd. Degradation of side chain in sapogenins. 3,740,317, 6-19-73, Cl. 195-51.00g.

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Kondo, Hidenobu, to Nippon Kogaku K.K. Device for illuminating indicia in the viewfinder of a camera. 3,728,951, 4-24-73, Cl. 95-42.000.

Kondo, Hideyo: *See—*
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Kondo, Hiroshi: *See—*
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Kondo, Hirosi. Spring pressure accumulation spray device. 3,761,022, 9-25-73, Cl. 239-333.000.

Kondo, Isao: *See—*
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Kondo, Iwao. Electrical discharge machining device using logical control. 3,729,610, 4-24-73, Cl. 219-69.00c.

Kondo, Kazuyoshi. Precision shearing method. 3,724,305, 4-3-73, Cl. 83-14.000.

Kondo, Keji; Yamada, Yuzo; Mitzugi, Koji; and Otsuka, Shin-Ichiro, to Ajinomoto Co., Inc. Method of producing coenzyme $Q_{10}$ by microorganisms. 3,769,170, 10-30-73, Cl. 195-82.000.

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Kondo, Kenshi. Thermostat. 3,742,416, 6-26-73, Cl. 337-392.000.

Kondo, Kunio: *See—*
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Kondo, Kunio; Ichikawa, Kiyoshi; and Nakahara, Yasuji, to Asahi Kasei Kogyo Kabushiki Kaisha. Polyurethane with copolymers of dialkyl amino alkyl methacrylates. 3,773,857, 11-20-73, Cl. 260-859.00r.

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Kondo, Motoya, to Tokyo Shibaura Electric Co., Ltd. All-channel tuner. 3,707,877, 1-2-73, Cl. 74-10.520.

Kondo, Sadao: *See—*
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Kondo, Shigeru: *See—*
Tamura, Toru; Kondo, Shigeru; and Hashimoto, Kozo, 3,750,054.

Kondo, Shigeru. Compression plate for osteosynthesis. 3,779,240, 12-18-73, Cl. 128-92.00d.

Kondo, Shinichi: *See—*
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Kondo, Takao; Fushimi, Shinji; and Kawabe, Kunitsugu, to Nissan Motor Company, Limited. Method for forming a soft nitride layer in a metal surface. 3,748,195, 7-24-73, Cl. 148-16.500.

Kondo, Tamotu: *See—*
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Kondo, Toshio; and Tamura, Hifumi, to Hitachi, Ltd. Ion source device for ion microanalyzer and the like. 3,710,266, 1-9-73, Cl. 328-233.000.

Kondo, Toshiyuki; and Kozakai, Asao, to Aisin Sciki Kabushiki Kaisha. Wheel brake assembly fitted with automatic brake cap adjusting means. 3,709,334, 1-9-73, Cl. 188-79.50p.

Kondo, Tsukasa: *See—*
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Kondo, Yasuo, to Nippondenso Co., Ltd. Sealing means for a regenerative heat exchanger. 3,773,105, 11-20-73, Cl. 165-9.000.

Kondo, Yoshihiko: *See—*
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Kondur, Nicholas, Jr.; and Kobylarz, Lawrence P., to Burroughs Corporation. Electromagnetic read/write apparatus for stationary cards. 3,780,264, 12-18-73, Cl. 235-61.11d.

Kone Osakeyhtio: *See—*
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Konecny, Jan; and Haas, Jan Tomas, to Hamburger Flugreugbau GmbH. Thermal insulation for flat or tubular structural elements. 3,756,902, 9-4-73, Cl. 161-39.000.

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Konerman, Fritz, to Bischof und Klein. Device for extruding synthetic material. 3,764,251, 10-9-73, Cl. 425-326.000.

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Kong, Elizabeth L. Game device for manipulating separable playing pieces. 3,771,790, 11-13-73, Cl. 273-110.000.

Kong, Victor, to Tektronix, Inc. Video amplifier for a color television apparatus. 3,760,099, 9-18-73, Cl. 178-5.40r.

Kongable, Lowell S., to Motorola, Inc. Multilayer metallization system. 3,751,292, 8-7-73, Cl. 117-212.000.

Kongelbeck, Sverre, to United States of America, Navy. Missile launcher. 3,742,813, 7-3-73, Cl. 89-1.807.

Kongelka, Robert M. Loop setting means for a motion picture projector. 3,720,362, 3-13-73, Cl. 226-36.000.

Kongelka, Robert M., to Superior Valve Company. Pressure regulator. 3,759,294, 9-18-73, Cl. 137-612.100.

Konger, Alfred P., to Signode Corporation. Apparatus for heat-shrinking a plastic film on a load. 3,760,154, 9-18-73, Cl. 219-388.000.

Kongo Yakuhin Kabushiki Kaisha: *See—*
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Konig, Fritz: *See—*
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Konig, Fritz; and Konig, Klaus. Apparatus for measuring the dry unit weight of a soil. 3,769,581, 10-30-73, Cl. 324-65.00r.

Konig, Fritz; and Wascewski, Hans-Georg, to Losenhausen Maschinenbau AG. Dynamic soil compacting machine. 3,775,019, 11-27-73, Cl. 404-133.000.

Konig, Gerhard: *See—*
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Konig, Gustav. Structural assembly. 3,760,551, 9-25-73, Cl. 287-189.36d.

Konig, Gustav. Process of manufacturing foamed bodies of plastics material. 3,775,206, 11-27-73, Cl. 156-78.000.

Konig, Helmut. Dough portioning and kneading machine. 3,733,058, 5-15-73, Cl. 259-185.000.

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Konig, Kalus: *See—*
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Konig, Karl; Wurl, Ernst; and Herbst, Richard, to Krauss-Maffei Aktiengesellschaft. Apparatus for transmitting motion to mold sections in injection molding machines. 3,736,092, 5-29-73, Cl. 425-450.000.

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Konig, Klaus; Muller, Erwin; and Wagner, Kuno, to Bayer Aktiengesellschaft. Polyurethanes based on 2,3-dibromo-but-2-ene-1,4-diol. 3,723,392, 3-27-73, Cl. 260-75.0np.

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Konig, Klaus; Traubel, Harro; Reischl, Artur; and Zorn, Bruno, to Bayer Aktiengesellschaft. Production of microporous sheets. 3,769,381, 10-30-73, Cl. 264-41.000.

Konig, Reinhard, to U.S. Philips Corporation, mesne. Cutter head for dry-shavers. 3,774,300, 11-27-73, Cl. 30-34.100.

Konig, Theodor, to Rose, Walter, KG. Cable testing device for long-distance cables, particularly for occupied cables. 3,749,857, 7-31-73, Cl. 179-175.300.

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Konings, Jan-Albert: *See—*
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Konings, P., Machinefabriek, Ijzer-en Metaal Gieterij N.V.: *See—*
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Koninklijke Fabriek Inventuor Fabriek voor Machines en Elektrische Apparaten N.V.: *See—*
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Koninklijke Nederlandsche Gist-en Spiritusfabriek N.V.: *See—*
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Koninklijke Nederlandsche Gisten-en Spiritusfabriek N.V.: *See—*
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Kontz, Robert F., to Owens-Illinois, Inc. Safety device for blow molding machine. 3,737,267, 6-5-73, Cl. 425-154.000.

Kontz, Robert F., to Owens-Illinois, Inc. Blow needle and valve. 3,737,275, 6-5-73, Cl. 425-387.00b.

Kontz, Robert F., to Owens-Illinois, Inc. Overload arm for mold. 3,761,212, 9-25-73, Cl. 425-154.000.

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Koo, Tuh-Kai; and McCune, Kent R., to National Cash Register Company, The. Memory with self-clocking beam access. 3,774,168, 11-20-73, Cl. 340-173.0cr.

Kooguchi, Kazunori; Ito, Osamu; Makiyama, Nobusake; Miyahara, Yoshio; and Murai, Korenori, to Mitsui Toatsu Chemicals Incorporated. Process for the production of suspensions of phenol-formaldehyde resins. 3,743,619, 7-3-73, Cl. 260-29.300.

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Kooi, Else, to U.S. Philips Corporation. Semiconductor device for monolithic integrated circuits compact. 3,718,843, 2-27-73, Cl. 317-235.00r.

Kooi, Else; and Hoeberechts, Arthur Marie Eugene, to U.S. Philips Corporation. Camera tube target with projecting P-type regions separated by grooves covered with silicon oxide layer approximately one-seventh groove depth. 3,737,702, 6-5-73, Cl. 313-66.000

Kooi, Else, to U.S. Philips Corporation. Method of manufacturing an IGFET and the product thereof. 3,752,711, 8-14-73, Cl. 148-33.300.

Kooi, Else; and Appels, Johannes Arnoldus, to U.S. Philips Corporation. Method of making semiconductor devices with selective doping and selective oxidation. 3,755,001, 8-28-73, Cl. 148-1.500.

Kooiman, Pieter L., to Algemene Scandinavische Import Steel Maatschappij (A.S.I. Staal) N.V. Device of the self-leveling type for storing and dispensing a stack of articles. 3,738,722, 6-12-73, Cl. 312-71.000.

Kooistra, John A., to Procter & Gamble Company, The. Synergistic antibacterial combination. 3,725,547, 4-3-73, Cl. 424-245.000.

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Koomey, Paul C.; Stivers, George S.; and Barker, Theodore R., II, to Global Marine Inc., mesne. Acoustical underwater control apparatus. 3,750,096, 7-31-73, Cl. 340-5.00r.

Koomey, Paul C., to Global Marine Inc., mesne. Acoustical underwater control apparatus. 3,775,736, 11-27-73, Cl. 340-5.00r.

Koomey, Paul C.; and De Vries, Douwe. Apparatus for making and breaking an electrical underwater connection between releasable underwater members. 3,780,243, 12-18-73, Cl. 200-82.00r.

Koon, Homer E., Jr., to Firearm Development, Inc. Shoulder stock and receiver combination for firearms. 3,739,515, 6-19-73, Cl. 42-75.00c.

Koon, Homer E., Jr., to Firearm Development, Inc. Rifle bolt action. 3,745,683, 7-17-73, Cl. 42-16.000.

Koon, Homer E., Jr., to Firearm Development, Inc. Rifle bolt action. 3,745,686, 7-17-73, Cl. 42-16.000.

Koon, Homer E., Jr., to Firearm Development, Inc. Rotary magazine for bolt action rifle. 3,745,687, 7-17-73, Cl. 42-19.000.

Koon, Homer E., Jr., to Firearm Development, Inc. Bolt action rifle cocking piece and cover therefor. 3,755,947, 9-4-73, Cl. 42-16.000.

Koon, Homer E., Jr., to Firearm Development, Inc. Trigger mechanism for firearms. 3,755,951, 9-4-73, Cl. 42-69.00a.

Koons, Edwin Russell, to Mallory, P. R., & Co., Inc. Method of making a metal-to-glass-to-ceramic seal. 3,770,404, 11-6-73, Cl. 65-59.000.

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Koontz, Robert D., to EFMC Corporation. Gun mount closure or seal. 3,710,681, 1-16-73, Cl. 89-36.00l.

Koontz, Robert D.; Heitkamp, Richard R.; and Jackson, Robert E., to FMC Corporation. Manufacture of fiber reinforced polymer article. 3,743,561, 7-3-73, Cl. 156-192.000.

Koontz, Victor N., to Pettibone Corporation. Vibratory earth compacting apparatus. 3,736,066, 5-29-73, Cl. 404-117.000.

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Kopecky, Louis E. Rake device for shag carpets. 3,740,783, 6-26-73, Cl. 15-3.000.

Kopecky, Louis E. Device for raising the nap of shag rugs. 3,766,588, 10-23-73, Cl. 15-142.000.

Kopel, Leroy A.: *See—*
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Kopera, Anthony, to Bowles Fluidics Corporation. Vortex proximity sensor with increased sensing range. 3,712,318, 1-23-73, Cl. 137-13.000.
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Kopp, Georg, to Big Schweizerische Industries-Gesellschaft. Device for substantially relieving in an upright stack of sheet-like articles the lowermost article from the weight of the articles above the same. 3,767,189, 10-23-73, Cl. 271-166.000.
Kopp, Georg, to Schweizerische Industrie-Gesellschaft. Device for the erection of blanks for making plug-in-folding boxes. 3,768,381, 10-30-73, Cl. 93-53.0lf.
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Kopp, Richard F. Vehicle safety belt sensor system. 3,737,850, 6-5-73, Cl. 340-52.00e.
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Koppe, Herbert; Engelhardt, Albrecht; Ludwig, Gerhard; and Zeile, Karl, to Boehringer Ingelheim G.m.b.H. Bradycardia compositions. 3,740,443, 6-19-73, Cl. 424-330.000.
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Koppen, Gerhard; Dobring, Wilfried; and Siebart, Manfred, to Siemens Aktiengesellschaft. Measuring resistance device for high voltage. 3,725,839, 4-3-73, Cl. 338-334.000.
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Koppl, Ernest R.; and Scibbe, Harold R., to TRW Inc. Brake control system with skid control. 3,713,704, 1-30-73, Cl. 303-21.00b.
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Kornbichler, Heinz; and Seidle, Peter, to Licentia Patent-Verwaltungs-G.m.b.H. Control rod arrangement particularly for boiling water reactors. 3,752,736, 8-14-73, Cl. 176-36.00r.
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Kornylak, Andrew I., to Kornylak Corporation. Elastic belt conveyor. 3,768,624, 10-30-73, Cl. 198-1.000.
Kornylak, Andrew T., to Kornylak Corporation. Endless belt conveyor. 3,724,646, 4-3-73, Cl. 198-201.000.
Kornylak, Andrew T., to Kornylak Corporation. Low profile conveyor roller. 3,747,736, 7-24-73, Cl. 198-25.000.
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Korolev, Evgeny Mikhailovich; Shel, Marat Moiseevich; and Likuchev, Vladimir Grigorievich. Method of increasing strength of vessels, particularly high-pressure vessels. 3,708,644, 1-2-73, Cl. 219-7.500.

Korom, Arpad, to U.S. Philips Corporation. Bistable multivibrator. 3,780,319, 12-18-73, Cl. 307-288.000.

Korosi, Jeno; Komlos, Endre; and Erdelyi, Lujza, to Egyesult Gyogyszer-es Tapszergyar. 1-(3,4-Dimethoxy-phenyl)-4-methyl-5-ethyl-7, dimethoxy-5H-2,3-benzodiazepine. 3,736,315, 5-29-73, Cl. 260-239.0bd.

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Korpel, Adrianus, to Zenith Radio Corporation. Solid-state signal distribution system. 3,737,785, 6-5-73, Cl. 325-442.000.

Korpel, Adrianus, to Zenith Radio Corporation. Acoustic imaging apparatus. 3,745,812, 7-17-73, Cl. 73-67.50r.

Korpela, Viejo Gunnar, to Oy Suomen Vanutehdas-Finnwad Ltd. Wheel chair with pivoted hand bar. 3,759,544, 9-18-73, Cl. 280-289.000.

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Kortenhaus, Dieter, to NSM Apparatebau GmbH. Selective retrieval and memory system. 3,739,342, 6-12-73, Cl. 340-162.000.

Kortenhaus, Dieter, to NSM Apparatebau GmbH. Selective retrieval and memory system. 3,760,367, 9-18-73, Cl. 340-172.500.

Korth, Paul V. Purse theft protection device. 3,744,132, 7-10-73, Cl. 30-152.000.

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Kosaka, Masahiro, to Matsushita Electric Industrial Co., Ltd. Instructional tape recorder for preventing erroneous erasure on a double track magnetic tape using two sensing means. 3,718,774, 2-27-73, Cl. 179-100.20d.

Kosaka, Shinya: *See—*
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Kosaka, Yujiro; Uemura, Masaru; Saito, Mitsutaka; Suzuki, Yuji; and Takamoto, Kunio, to Toyo Soda Manufacturing Co., Ltd. Graft copolymerization of maletic anhydride and an alpha olefin onto an ethylene-vinyl acetate copolymer. 3,737,483, 6-5-73, Cl. 260-88.00r.

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Kosakowski, Henry R., to Bendix Corporation, The. Self-calibrating analog to digital converter. 3,725,903, 4-3-73, Cl. 340-347.0ad.

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Kosbab, Paul O.; Roach, Robert F.; and Laumann, Paul A., to Milprint, Inc. Multiple-layer packaging film with intermediate protective layer. 3,740,306, 6-19-73, Cl. 161-214.000.

Kosche, Horst Heinz-Joachim, to Renker GmbH. Photoconductive isocyanate reaction products and deposited layers. 3,740,219, 6-19-73, Cl. 96-1.800.

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Kosco, William C., to La Salle Machine Tool, Inc. Alternating current static control system. 3,774,235, 11-20-73, Cl. 307-218.000.

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Kosfeld, Milton M., to Fedders Corporation. Automatic temperature control for refrigeration compressor motor. 3,727,420, 4-17-73, Cl. 62-196.000.

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Koshihara, Atsuo. Safety device. 3,760,910, 9-25-73, Cl. 188-180.000.

Koshikawa, Takeo: *See—*
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Kosinski, Joseph W.: *See—*
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Kosinsky, Edward J.: *See—*
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Koskan, Larry P., to Nalco Chemical Company. Gas chromatography analysis of polymer. 3,746,509, 7-17-73, Cl. 23-230.00r.

Koskinen, Esko Ilmari: *See—*
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Koskinen, Rauno Veikko. Barking drum. 3,708,001, 1-2-73, Cl. 144-208.00b.

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Kosky, Richard P.; and Averill, Preston W., Jr., to Combustion Engineering Inc. Remote visual examination apparatus. 3,764,736, 10-9-73, Cl. 178-7.810.

Koslovsky, Helen S. Medicant withdrawal unit. 3,762,673, 10-2-73, Cl. 248-154.000.

Koslow, George. Machine for packaging long lengths. 3,768,231, 10-30-73, Cl. 53-59.00r.

Koslow, Sidney; and Malone, James P. Sliding glass door retainer means. 3,714,738, 2-6-73, Cl. 49-404.000.

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Kosmahl, Henry G., to United States of America, National Aeronautics and Space Administration. Electron beam controller. 3,764,850, 10-9-73, Cl. 315-538.000.

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Kosmider, Hans; and Danckert, Dieter, to Klockner-Werke AG. Method for desulphurizing pig iron. 3,715,202, 2-6-73, Cl. 75-58.000.

Kosonen, Ahti A.; and Nieminen, Seppo A., to Outokumpu Oy. Continuous resistance annealing method for wires. 3,717,745, 2-20-73, Cl. 219-155.000.

Kosonocky, Stephan; and Post, Lloyd D., to United States of America, Army. Inertial delay fuze. 3,726,229, 4-10-73, Cl. 102-73.00r.

Kosonocky, Walter Frank: *See—*
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Kosonocky, Walter Frank, to RCA Corporation. Charge coupled memory. 3,720,922, 3-13-73, Cl. 340-173.00r.

Kosonocky, Walter Frank, to RCA Corporation. Charge coupled shift registers. 3,758,794, 9-11-73, Cl. 307-304.000.

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Kosowsky, Leo N.; Lovejoy, Curtis N.; Cunniff, John G.; and Groom, Robert T., to Auric Corporation. Apparatus for selective electroplating of sheets. 3,745,105, 7-10-73, Cl. 204-224.00r.

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Kosowsky, Lester H., to United Aircraft Corporation. Passive radar glide slope orientation indication. 3,765,019, 10-9-73, Cl. 343-5.01s.

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Kossak, Joseph J., to Oxy-Dry Sprayer Corporation. Apparatus and method for cleaning rotating cylindrical surfaces. 3,735,702, 5-29-73, Cl. 101-425.000.

Kosseim, Alexander J.: *See—*
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Kossler, George W.; and Stratton, Jerry L., to General Electric Company. Non-linear function generator. 3,768,013, 10-23-73, Cl. 324-132.000.

Kossoff, Joseph; Liedtke, Ronald R.; and Young, Joe W., to Mattel, Inc. Doll having grasping hand and electrical means actuated thereby. 3,733,743, 5-22-73, Cl. 46-228.000.

Kossuth, Donald A.; and Shull, John D., to National Gypsum Company. Simulated monolithic predecorated wall construction. 3,708,935, 1-9-73, Cl. 52-416.000.

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Kostenowczyk, Stanley, to Singer Company, The. Single thread chainstitch fittings for two thread chainstitch sewing machine. 3,753,410, 8-21-73, Cl. 112-199.000.

Koster, Johannes Karolus Andread, to U.S. Philips Corporation. Asynchronous adding-subtracting device. 3,745,372, 7-10-73, Cl. 307-222.00c.

Koster, Olav E., to Akzona Incorporated. Apparatus for controlling polymer pressure. 3,746,486, 7-17-73, Cl. 425-146.000.

Koster, Wolfgang; and Jentzsch, Harald, to Stork Amsterdam N.V. Apparatus for forming and conveying vertical loops in a strip of a material. 3,770,174, 11-6-73, Cl. 226-107.000.

Koster, Wolfgang; and Jentzsch, Harald, to Stork Amsterdam N.V. Apparatus for the conveying through a path and for recirculating said rods. 3,774,830, 11-27-73, Cl. 226-107.000.

Kosters, Paul L. M. Silencer for eliminating noise caused by a pawl on a gear rack when the gear rack is returned to a initial position. 3,757,923, 9-11-73, Cl. 197-94.000.
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Koterwas, Donald J.; and Koterwas, Theodore L. Game apparatus. 3,716,233, 2-13-73, Cl. 273-1.00l.
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Kotlar, Edward A. Shipping rack. 3,746,176, 7-17-73, Cl. 211-13.000.
Kotler, Max; and Ravese, Frank E. Feed means for optical display device and control system therefor. 3,727,819, 4-17-73, Cl. 226-46.000.
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Tatyanko, Nikolai Vasilievich; Usymbal, Alexandr Gavrilovich; Isikov, Sergei Alexandrovich; Sietsenko, Vladimir Vasilievich; Oleinik, Ivan Pavlovich; Betcher, Alexandr Samuilovich; Pasha, Leonid Georgievich; Ilge, Genrikh Karlovich; Sokulova, Maria Stepanona; Rusanov, Ivan Ivanovich; Gelmikh, Jury Dmitrievich; Khmel, Nikolai Dmitrievich; Kozhushko, Dmitry Ignatievich; and Beinisovich, Boris Anatolievich, 3,747,149.
Koziarz, Joseph J. Electrical fixture hanger. 3,714,744, 2-6-73, Cl. 52-28.000.
Kozik, Adolf Efimovich: *See—*
Zorev, Nikolai Nikolaevich; Chernykh, Viktor Vasilievich; Stanislavsky, Lazar Yankelevich; Timofeev, Mikhail Mikhailovich; Kudryavtsev, Ivan Vasilievich; Isaev, Alexei Ilich; Grinchenko, Nikolai Grigorievich; Spivak, Boris Volkovich; Belov, Vladimir Alexanrovich; Kozik, Adolf Efimovich; Shavrin, Adolf Ivanovich; and Sobolev, Jury Vasilievich, 3,780,428.
Kozima, Tamotsu: *See—*
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Kozinczuk, Orest A., to Vischer Products Company. Steam pressure cooker. 3,769,958, 11-6-73, Cl. 126-20.000.
Kozinski, David Arthur; Kozinski, Joseph; Singel, Frank M.; and Smead, Robert G., to Graco, Inc. Electrostatic spray gun apparatus. 3,767,115, 10-23-73, Cl. 239-15.000.
Kozinski, Joseph: *See—*
Kozinski, David Arthur; Kozinski, Joseph; Singel, Frank M.; and Smead, Robert G., 3,767,115.
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Koziol, Joseph S., Jr.: *See—*
Rempfer, Paul S.; Robertson, Alan J.; Stevenson, Lloyd E.; and Koziol, Joseph S., Jr., 3,711,042.
Koziol, Konrad; and Zenk, Baptist, to Conradty, C. Anode construction for amalgam high load cells. 3,759,812, 9-18-73, Cl. 204-250.000.
Koziol, Leo B., to Burroughs Corporation. Digital transmitter. 3,773,975, 11-20-73, Cl. 178-66.00r.
Koziol, Walter, to Beatrice Foods Co. Cooking device. 3,753,396, 8-21-73, Cl. 99-450.000.
Koziol, Walter, to Beatrice Foods Co. Gas supply unit for portable grill. 3,753,431, 8-21-73, Cl. 126-38.000.
Kozlenkov, Alexandr Ivanovich: *See—*
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Kozlov, Stanislav Federovich, to Fizichesky Institut Imeni P.N. Lebedeva Akademii Nauk SSSR. Device with diamond detector with neutron detection. 3,723,726, 3-27-73, Cl. 250-83.100.
Kozlovic, John M.: *See—*
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Kozlovic, John M., to Westinghouse Electric Corporation. Tank-type grounding and test device with line, bus and test terminal bushings. 3,727,109, 4-10-73, Cl. 317-103.000.
Kozlow, Edward: *See—*
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Kozlow, Woodruff J. Snowmobile ski. 3,778,074, 12-11-73, Cl. 280-28.000.
Kozlowski, Joseph J., to Ball Corporation. Method and apparatus for maintaining constant moisture level in a wetted glass batch. 3,765,854, 10-16-73, Cl. 65-27.000.
Kozlowski, Matthew A.: *See—*
Pines, Seemon H.; Jamieson, Norman C.; and Kozlowski, Matthew A., 3,733,320.
Kozlowski, Robert L. Device for selectively dispensing liquids. 3,720,352, 3-13-73, Cl. 222-132.000.
Kozlowski, Tadeusz; and Pemberton, Ernest H., to Owens-Illinois, Inc. Notch sensing control system for a partition assembly machine. 3,712,183, 1-23-73, Cl. 93-37.00r.
Kozlowski, Theodore R.: *See—*
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Kozu, Isao: *See—*
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Kozu, Isao; Kurihara, Hidetoshi; and Hino, Tetsuo, to Matsushita Electric Industrial Co., Ltd. Automatic cassette changer. 3,774,915, 11-27-73, Cl. 274-4.00f.
Kozub, Joseph, to United States of America, Army. Method for dispensing lachrymatory material. 3,744,717, 7-10-73, Cl. 239-1.000.
Kozub, Stanley S. Golf cart having shoe cleaning brush attached to wheel. 3,747,150, 7-24-73, Cl. 15-105.000.
Kozuka, Hirotsugu: *See—*
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Kozusnik, Karel, to Sigma Lutin, narodni podnik. Method for manufacturing pump spindle. 3,740,811, 6-26-73, Cl. 29-156.400.
Kraaijenbrink, Hans, to De Staat der Nederlanden, Ten Deze Vertegenwoordigd Door de Directeur-Generaal der Posterijen, Telegrafie en Telefonie. Video repeater fault alarm system. 3,719,774, 3-6-73, Cl. 178-6.000.
Kraakman, Hillebrand J. J., to U.S. Philips Corporation. Fluid logic element. 3,718,152, 2-27-73, Cl. 137-114.000.
Kraan, Arie Wilhelm: *See—*
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Kraatz, Gerald A.: *See—*
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Kraayenhof, Hans; and Poulton, Curt A., to Minnesota Mining and Manufacturing Company. Embossing tool. 3,732,963, 5-15-73, Cl. 197-6.700.
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Delente, Jacques J.; Lueckerath, Elmer W.; Akin, Cavit; and
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Krackenberger, Herman F.; and Smith, Daniel J., to Thiokol Chemical Corporation. Solid polyurethane propellant and method of making the same. 3,749,616, 7-31-73, Cl. 149-19.000.
Krackenberger, Robert J.: *See—*
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Kracklauer, Aloysius C., to Sparkler Manufacturing Company. Continuous bolt-type gravity filtration apparatus. 3,756,411, 9-4-73, Cl. 210-179.000.
Kracklauer, John J., to Syntex Corporation. Dicyclopentadienyl iron compositions and methods for curing polyester resins. 3,753,927, 8-21-73, Cl. 252-428.000.
Kraeft, Robert W. Automatic food tray cleaning machine. 3,768,493, 10-30-73, Cl. 134-46.000.
Kraemer, Asger, to Danfoss A/S. Pressostat. 3,766,833, 10-23-73, Cl. 92-37.000.
Kraemer, Asger, to Danfoss A/S. Pressostat. 3,766,834, 10-23-73, Cl. 92-35.000.
Kraemer, Erich Henry, to Cutler-Hammer, Inc. Parametric amplifier. 3,757,238, 9-4-73, Cl. 330-4.900.
Kraemer, George P., II. Anti-pollution recirculation tank for marine and similar use. 3,738,489, 6-12-73, Cl. 210-94.000.
Kraemer, Ronald G.: *See—*
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Skanes, Frederick A.; Ayranto, Roy O.; and Kraemer, Ronald G., 3,767,254.
Kraemer, Sandy F. Opaque narrow necked container exposing ends of game playing pieces. 3,771,793, 11-13-73, Cl. 273-139.000.
Kraemer, Wendelin, to Aktiengesellschaft Brown, Boveri & Cie. Apparatus for regulating a turbo-compressor. 3,744,925, 7-10-73, Cl. 415-17.000.
Kraff, Lillian G. Musical water closet. 3,715,549, 2-6-73, Cl. 200-172.00a.
Krafft, Erich; Missmahl, Bood; Pfeiffer, Hans; Golke, Alfons; and Weck, Karl Gustav, to Kieserling, Th., & Albrecht. Wire finishing method and apparatus. 3,756,059, 9-4-73, Cl. 72-203.000.
Krafft, Frederick G. Free abrasive machine. 3,731,436, 5-8-73, Cl. 51-209.0dl.
Krafft, Frederick G. Deburring apparatus. 3,752,755, 8-14-73, Cl. 204-225.000.
Krafft, Lewis E.: *See—*
Krafft, Lewis E.; and Battin, John (said Battin assor. to said), 3,761,789.
Krafft, Lewis E.; and Battin, John, said Battin assor. to said Krafft, Lewis E. Tool carrier and speed control therefor. 3,761,789, 9-25-73, Cl. 318-331.000.
Kraft, Donald E. Valve and system for dental apparatus. 3,757,421, 9-11-73, Cl. 32-22.000.
Kraft, Hans-Gunther: *See—*
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Kraft, Helmut, to Knoll A.G. Chemische Fabriken. N-substituted 2-(2-phenylbicyclo-(2,2,1)-heptyl) carbamates. 3,740,405, 6-19-73, Cl. 260-293.530.
Kraft, Helmut; Zimmermann, Frank; and Hofmann, Hans-Peter, to Knoll AG, Chemische Fabriken. 3-Beta-acetoxy 11-oxo norolean-ene(12) 20 beta-carboxylic acid, N-methyl piperidol-(4) ester. 3,758,484, 9-11-73, Cl. 260-293.560.
Kraft, Jack A.; and Kraft, Harold D. Automatic labelling machine. 3,736,208, 5-29-73, Cl. 156-361.000.
Kraft, John, Sesame Corporation: *See—*
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Kraft, Joseph K.: *See—*
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Kraft, Kenneth A.: *See—*
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Kraft, Kenneth A., to Mohr, John, & Sons. Method and apparatus for packaging poultry utilizing controllably actuated positive pressure lifting means. 3,775,931, 12-4-73, Cl. 53-22.00b.
Kraft, Paul; and Altscher, Siegfried, to Stauffer Chemical Company. Fire retardant thermoplastic polymer compositions of a methyl methacrylate polymer with a copolymer of a halogenated ethylenically unsaturated monomer and a phosphorus containing vinyl monmer. 3,725,509, 4-3-73, Cl. 260-899.000.
Kraft, Paul; and Oberlander, Karl. Safety lock for pressure cooker handle. 3,765,563, 10-16-73, Cl. 220-55.300.
Kraft, Robert E.: *See—*
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Kraft, Robert E., to FMC Corporation. Screw conveyor shaft supporting structure. 3,770,109, 11-6-73, Cl. 198-213.000.
Kraft, Rupert; and Zimmer, Johannes. Device for surface treatment of material. 3,720,160, 3-13-73, Cl. 100-160.000.
Kraft, Uno Ingemar, to Svenska Aktiebolaget Bromsregulator. Hydraulically operated cylinder-piston unit. 3,738,229, 6-12-73, Cl. 92-17.000.
Kraft, Wolfgang, to ITT Industries, Inc. Method of forming a low-ohmic contact to a semiconductor device. 3,731,372, 5-8-73, Cl. 29-590.000.
Kraftco Corporation: *See—*
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Blaetz, Philip H.; and Corbige, Orin K., 3,719,138.
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Kragness, Roger Clyde; and Waggener, Herbert Atkin, to Bell Telephone Laboratories, Incorporated. Precision etching of semiconductors. 3,765,969, 10-16-73, Cl. 156-17.000.
Krahl, Alfred: *See—*
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Krahn, Fernando. Kaleidoscopic game. 3,755,923, 9-4-73, Cl. 35-27.000.
Krahnke, Robert H., to Dow Corning Corporation. Urea-functional organosilicon compounds. 3,772,351, 11-13-73, Cl. 260-448.20n.
Kraiburg, Aschau B.: *See—*
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Krain, Harry Wolfgang, to Precision Engineering Company (Reading) Limited. Torque spanners. 3,742,786, 7-3-73, Cl. 81-52.500.
Kraisel, August: *See—*
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Siegel, Heinz; and Kraisel, August, 3,730,058.
Kraissl, Frederick, Jr. Method and apparatus for holding gems. 3,721,465, 3-20-73, Cl. 294-64.00r.
Krajcik, Larry Lee. Trailer hitch installation apparatus. 3,750,254, 8-7-73, Cl. 29-200.00p.



Kraje, Adolf: *See—*
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Krakau, Carl Erik Torsten. Method and apparatus for determining the intraocular pressure. 3,763,696, 10-9-73, Cl. 73-80.000.
Krake, Kenneth V., to Kimberly-Clark Corporation. Suction box for a papermaking machine having multiple compartments formed by J-shaped elements. 3,708,390, 1-2-73, Cl. 162-374.000.
Krake, Kenneth V., to Kimberly-Clark Corporation. Jacketed press roll. 3,710,470, 1-16-73, Cl. 29-131.000.
Kraklau, David M.; and Taylor, John H., to Advance Products Corporation. Surface indicator. 3,718,977, 3-6-73, Cl. 33-172.00d.
Kraklow, Daniel Paul: *See—*
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Krakow, Burton; Dolin, Stanley A.; and Kruegle, Herman A., to Optical Coating Laboratory, Inc., mesne. Spectral analysis instrument with programmed spectral slit width. 3,708,227, 1-2-73, Cl. 356-83.000.
Krakow, Burton, to Honeywell Inc. Infrared radiation detection by a matched system. 3,770,958, 11-6-73, Cl. 250-339.000.
Krakow, Heinz, to Blohm & Voss A.G. Device for helically deforming a band to form a tube. 3,776,010, 12-4-73, Cl. 72-12.000.
Krakow, Heinz, to Blohm & Voss AG. Method and device for welding aligned sheet metal plates together for forming a band for making spiral seam tubes. 3,781,509, 12-25-73, Cl. 219-125.000.
Krakowski, John F., to Mark 7 Seafood and Industries, Inc., mesne. Commercial food fryer and method of cleaning. 3,715,976, 2-13-73, Cl. 99-404.000.
Krakstrom, Paul, to Oy Warsila AB. Lock system. 3,771,340, 11-13-73, Cl. 70-338.000.
Kral, Erwin F.; and Eschrich, Dieter, to VEB Jenapharm. Test tube for the quantitative detection of the alcoholic strength of respiratory air and method for the preparation of said tube. 3,725,007, 4-3-73, Cl. 23-254.00r.
Kral, Fred G., to Bell & Howell Company. Dual speed machine handling magnetically stripe cards and cards therefor. 3,712,973, 1-23-73, Cl. 235-61.11r.
Kral, Fred G., to Bell & Howell Company. Magnetically striped cards for use in a speed machine. 3,760,164, 9-18-73, Cl. 235-61.12n.
Kraljic, John; Hartford, Winslow H.; and Good, Millard F., to Allied Chemical Corporation. Reduction and control of trivalent chromium in hexavalent chromium processing solutions. 3,751,347, 8-7-73, Cl. 204-51.000.
Krall, Bodgan: *See—*
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Krall, George S.: *See—*
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Krallinger, Robert E.; Dolan, Donald T.; Wittmer, Kenneth; and Terrell, Jerry W., to Graphic Sciences, Inc. High speed fascimile systems. 3,761,610, 9-25-73, Cl. 178-6.000.
Kralowetz, Bruno. Swaging machine for the internal profiling of tubular workpieces. 3,753,365, 8-21-73, Cl. 72-76.000.
Kralowetz, Bruno; Braunwieser, Johann; and Reznar, Josef, to GFM Gesellschaft fur Fertigungstechnik und Maschinenbau Aktiengesellschaft. Swaging die. 3,769,825, 11-6-73, Cl. 72-76.000.
Kramatorsky Nauchno-Issledovatelski i Proektno-tekhnologichesky institut mashinostroenia: *See—*
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Krambeck, Robert Harold; and Sequin, Carlo Heinrich, to Bell Telephone Laboratories, Incorporated. Reversible two-phase charge coupled devices. 3,735,156, 5-22-73, Cl. 307-304.000.
Krambeck, Robert Harold, to Bell Telephone Laboratories, Incorporated. Buried channel charge coupled devices. 3,739,240, 6-12-73, Cl. 317-235.00r.
Krambrock, Wolfgang: *See—*
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Krambrock, Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. Method of and an apparatus for pneumatically conveying feedstock. 3,768,867, 10-30-73, Cl. 302-53.000.
Kramenic, Zdenek; Vasek, Vitezslav; Miks, Zbynek; and Solik, Zdenek, to Vyzkumny Ustav Bavlnarsky. Control apparatus for wave shed forming means. 3,739,816, 6-19-73, Cl. 139-12.000.
Kramer & Grebe KG Maschinen- und Modellfabrik: *See—*
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Kramer, Bruno: *See—*
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Kramer, Charles E.: *See—*
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Kramer, Daniel E., to Kramer Trenton Company. Means and method for determining the liquid refrigerant charge in a refrigeration system. 3,753,356, 8-21-73, Cl. 62-56.000.
Kramer, Daniel E. Refrigeration systems with elevated receivers. 3,769,808, 11-6-73, Cl. 62-115.000.
Kramer, Daniel T. Suction accumulators for refrigeration systems. 3,779,035, 12-18-73, Cl. 62-503.000.
Kramer, Edward W.; and Mitchell, Edward, to Gulf Research & Development Company. Vapor recovery system. 3,776,283, 12-4-73, Cl. 141-45.000.
Kramer, Franklin; Soeldner, Albert W.; and Paradis, Joseph R., to La Touraine-Bickfords Foods, Inc. Carton loading apparatus. 3,729,895, 5-1-73, Cl. 53-59.00r.
Kramer, Frederick J. Liquid-gaseous interaction toy. 3,733,738, 5-22-73, Cl. 46-91.000.
Kramer, Friedrich, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Production of pure p-xylene. 3,723,558, 3-27-73, Cl. 260-674.00a.
Kramer, Fritz. Method of nourishing mammals. 3,729,320, 4-24-73, Cl. 99-9.000.
Kramer, Gary R.: *See—*
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Kramer, George C., to Branson Instruments, Incorporated. Electronic incidence and coincidence safety control circuit. 3,721,833, 3-20-73, Cl. 307-232.000.
Kramer, George C., to Branson Instruments, Incorporated. Method of welding together two thermoplastic workpieces by high frequency vibratory energy. 3,765,973, 10-16-73, Cl. 156-73.000.
Kramer, George M., to Esso Research and Engineering Company. Catalyst mixture of aluminum halo bromide and sulfur oxy halide and its use in isomerization. 3,725,500, 4-3-73, Cl. 260-683.680.
Kramer, George M., to Esso Research and Engineering Company. Isomerization solvents. 3,758,623, 9-11-73, Cl. 260-668.00a.
Kramer, Gerald R.: *See—*
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Kramer, Heinrich; Butz, Josef; Muller, Richard; Thoma, Ludwig; Pollmann, Johann; Zielbauer, Hans; and Bernklau, Xaver, to Flachglas AG Delog-Detag. Method and apparatus for making channelled sheets from deformable materials. 3,764,431, 10-9-73, Cl. 156-156000.
Kramer, Heinz: *See—*
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Kramer, Hyman. Method of making hinge brackets. 3,739,623, 6-19-73, Cl. 72-339.000.
Kramer, Hyman. Gravity lock for extension ladders. 3,768,594, 10-30-73, Cl. 182-210.000.
Kramer, Jack M.; and Sitabkhan, Abdul N., to HTL Industries, Inc., mesne. Fire protection system. 3,750,755, 8-7-73, Cl. 169-26.000.
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Kramer, James H., to Goodrich, B. F., Company, The. Conveyor belt suspension. 3,757,930, 9-11-73, Cl. 198-192.000.
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Kramer, Justin A. Pneumatic musical instrument. 3,748,945, 7-31-73, Cl. 84-330.000.
Kramer, Kurt H. High velocity thrust actuator. 3,762,160, 10-2-73, Cl. 60-105.000.



Kramer, Leo; and Harris, Harold E., Jr., to Ingersoll-Rand Company.

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Kramer, Melvin G., to Datel Corporation. Apparatus for determining the validity of data received by data. 3,746,994, 7-17-73, Cl. 325-320.000.

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Kramer, Ralph J. Method and apparatus for waste incineration. 3,722,433, 3-27-73, Cl. 110-8.00r.

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Kramer, Stanley I., to Fairchild Industries, Inc. Range measuring system. 3,721,986, 3-20-73, Cl. 343-112.00r.

Kramer Trenton Company: *See—*
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Kramer, Ulrich: *See—*
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Kramer, W. Edward, to Gulf Research & Development Company. Oil-fired flame cultivator. 3,727,346, 4-17-73, Cl. 47-1.440.

Kramer, Walter W., to Fuller Company. Gate valve. 3,724,490, 4-3-73, Cl. 137-340.000.

Kramer, Wilhelm; and Schnef, Dieter, to Aktiengesellschaft Brown, Boveri & Cie. Silencer for high-voltage gas-blast circuit breaker. 3,745,285, 7-10-73, Cl. 200-148.00c.

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Kranz, Ray E., to Salem Corporation. Simultaneous production of metallized ores and coke. 3,770,417, 11-6-73, Cl. 75-34.000.

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Kranz, Rolf-Dieter, to Aktiengesellschaft Brown, Boveri & Cie. Frame and core-type dynamo-electric machine. 3,708,707, 1-2-73, Cl. 310-258.000.

Kranz, Walter, to Bolkow Gesellschaft mit beschrankter Haftung. Control device for adjusting a pendulum control of a flying body. 3,770,226, 11-6-73, Cl. 244-3.210.

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Krapcho, John, to Squibb, E. R., & Sons, Inc. Substituted anilides. 3,721,710, 3-20-73, Cl. 260-562.00r.

Krapcho, John, to Squibb, E. R., & Sons, Inc. Benzothiazine derivatives. 3,725,403, 4-3-73, Cl. 260-243.00r.

Krapcho, John, to Squibb, E. R., & Sons, Inc. 1,4-Benzothiazin-3-ones. 3,733,321, 5-15-73, Cl. 260-243.00r.

Krapcho, John; and Bernstein, Jack, to Squibb, E. R., & Sons, Inc. 2,3,4,5-Tetrahydro-2-phenyl-1,4-benzothiazepine, hydrochloride. 3,738,999, 6-12-73, Cl. 260-327.00b.

Krapcho, John, to Squibb, E. R., & Sons, Inc. Anti-inflammatory agents. 3,746,706, 7-17-73, Cl. 260-240.00f.

Krapcho, John, to Squibb, E. R., & Sons, Inc. N-aminoalkyl-benzalkylenimine carboxamides. 3,748,321, 7-24-73, Cl. 260-239.0bb.

Krapcho, John; and Turk, Chester F., to Squibb, E. R., & Sons Inc. Benzothiazines. 3,763,153, 10-2-73, Cl. 260-243.00r.

Krapcho, John; and Berstein, Jack, to Squibb, E. R., & Sons, Inc. Therapeutically active compounds. 3,763,214, 10-20-73, Cl. 260-470.000.

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Krapf, John. Bearing mounting method and apparatus. 3,749,463, 7-31-73, Cl. 308-236.000.

Krasienko, Chester A.; and Harmeyer, Stanley G., to General Electric Company. Transformer with improved arrangement for providing a grounding connection. 3,760,314, 9-18-73, Cl. 336-192.000.

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Kratomi, Shunsei. Stereoscopic apparatus having liquid crystal filter viewer. 3,737,567, 6-5-73, Cl. 178-6.500.

Kratomi, Shunsei. Timepiece indicating time by generated images in sets. 3,744,235, 7-10-73, Cl. 58-50.00r.

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Kratz, Hans Otto; Schurman, Heinz Peter; and Steiner, George. Die and method of manufacture. 3,712,157, 1-23-73, Cl. 76-107.00r.

Kratz, Kenneth E. Sailboat rigging. 3,768,426, 10-30-73, Cl. 114-39.000.

Kratzer, Dale L., to AII Systems. Radio navigation system. 3,755,816, 8-28-73, Cl. 343-112.00p.

Kratzer, Otto; Suter, Hubert; and Wirth, Friedrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Manufacture of naphthalene-1, 8-dioic anhydride. 3,708,504, 1-2-73, Cl. 260-345.200.

Kratzer, Reinhold H.; and Paciorek, Kazimiera J. L., to United States of America, Navy. Preparation of pure beryllium hydride. 3,729,552, 4-24-73, Cl. 423-645.000.

Kratzer, Walter, to Wiesner-Hager KG. Chair having a back rest and means for adjusting the inclination thereof. 3,710,418, 1-16-73, Cl. 16-145.000.

Kratzert, Friedrich, to Windmoller & Holscher. Apparatus for flattening and taking away blown tubing of plastics material. 3,716,322, 2-13-73, Cl. 425-392.000.

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Krauch, Carl Heinrich; and Sanner, Axel, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of polymers with a fibrous structure. 3,709,805, 1-9-73, Cl. 204-159.220.

Krauch, Carl Heinrich; and Sanner, Axel, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of polymers with a fibrous structure. 3,778,294, 12-11-73, Cl. 117-93.310.

Krauer, Otto Albert, to Otis Elevator Company. Servomechanism including a polyphase alternating current synchronous motor. 3,737,747, 6-5-73, Cl. 318-178.000.

Krauja, Ziedonis I.; and Opperman, Kenton C., to Caterpillar Tractor Company. Fuel injection pump with timing port. 3,737,258, 6-5-73, Cl. 417-499.000.

Krauja, Ziedonis I.; Kranc, Stanley J.; and Wahl, Thomas V., Jr., to Caterpillar Tractor Company. Fuel viscosity and density sensing fuel pump rack stop. 3,768,368, 10-30-73, Cl. 91-378.000.

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Kraus, Charles F., to Excelermatic, Inc. Hydrostatic thrust bearing. 3,752,542, 8-14-73, Cl. 308-9.000.

Kraus, Constantine Raymond. Voicegram service. 3,728,486, 4-17-73, Cl. 179-2.00r.

Kraus, Dixie Valentine. Bird feeding device. 3,734,061, 5-22-73, Cl. 119-52.00r.

Kraus, Gerald M.; and Rupert, John G., to Honeywell, Inc. Gyro noise reduction. 3,727,466, 4-17-73, Cl. 74-5.00r.

Kraus, Gerard, to Phillips Petroleum Company. Apparatus for carbon black production. 3,721,529, 3-20-73, Cl. 23-259.500.

Kraus, Heinz: *See—*
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Kraus, Helmut, to Fichtel & Sachs A.G. Clutch assembly. 3,712,435, 1-23-73, Cl. 192-70.270.

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Kraus, Helmut; Fadler, Kurt; and Riese, Hans-Walter, to Fichtel & Sachs AG. Clutch assembly. 3,732,958, 5-15-73, Cl. 192-70.300.

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Kraus, Kurt A.; and Mahlman, Harvey A., to United States of America, Atomic Energy Commission. Cross-flow filtration process for removal of total organic carbon and phosphates from aqueous sewage effluents. 3,733,265, 5-15-73, Cl. 210-23.000.

Kraus, Kurt A., to United States of America, Atomic Energy Commission. Process for treatment of aqueous suspensions. 3,778,366, 12-11-73, Cl. 210-23.000.

Kraus, Michael Henry, Jr., to Amsted Industries Incorporated. Clamping device. 3,721,323, 3-20-73, Cl. 188-206.00r.

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Kraus, Thaddaus, to Balzers Patent- und Beteiligungs-Aktiengesellschaft. Resistance heater test capsule construction. 3,722,259, 3-27-73, Cl. 73-19.000.

Kraus, Thaddaus, to Balzers Patent- und Betciligungs-Aktiengesellschaft. Resistance heater graphite test capsule. 3,751,965, 8-14-73, Cl. 73-19.000.

Kraus, Thaddaus; Paesold, Gerold; and Metzler, Elmar, to Balzers Patent- und Beteiligungs-Aktiengesellschaft. Arrangement for determining the constituents of a gas mixture. 3,769,837, 11-6-73, Cl. 73-23.000.

Kraus, Theodore C.: *See—*
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Kraus, Theodore C.; and Mangold, Donald J., to Olin Mathieson Chemical Corporation. Process preparation of non-solvated aluminum hybrid. 3,758,677, 9-11-73, Cl. 423-645.000.

Kraus, Theodore C.; Scruggs, James A.; and Trotz, Samuel I., to Olin Mathieson Chemical Corporation. Process for preparing non-solvated aluminum hydride. 3,767,781, 10-23-73, Cl. 423-645.000.

Kraus, Theodore C., to Olin Mathieson Chemical Corporation. Method of preparing non-solvated aluminum hydride. 3,769,385, 10-30-73, Cl. 423-645.000.

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Kraus, Werner. Large-picture camera. 3,776,120, 12-4-73, Cl. 95-82.000.

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Krause, Erich, to Universal Maschinenfabrik Dr. Rudolf Schieber KG. Flat knitting machine with multiple carriages. 3,751,944, 8-14-73, Cl. 66-64.000.

Krause, Erich, to Universal Maschinenfabrik Dr. Rudolf Schieber G.m.b.H. Adjusting device for the tightness of the knitting on knitting machines. 3,771,329, 11-13-73, Cl. 66-78.000.

Krause, Erich, to Universal Maschinenfabrik Dr. Rudolf Schieber KG. Saving motion for control means on knitting machines. 3,776,003, 12-4-73, Cl. 66-154.00a.

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Krause, Frans Engelbertus. Apparatus for postural treatment of humans. 3,722,507, 3-27-73, Cl. 128-68.000.

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Krause, Gerhard, to Fernseh G.m.b.H. Method and circuit arrangement for regulating the amplitude of the color synchronising signal. 3,715,462, 2-6-73, Cl. 178-5.4cr.

Krause, Gerhard, to Bosch, Robert, Fernsehanlagen G.m.b.H. Method and arrangement for reducing the color line noise in the storage and transmission of color television signals. 3,736,371, 5-29-73, Cl. 178-5.4cd.

Krause, Heinz, to Siemens Aktiengesellschaft. Separating filter network active as a quartz band-stop filter. 3,723,918, 3-27-73, Cl. 333-72.000.

Krause, Irving A., to International Telephone and Telegraph Corporation. Synchronizing circuit. 3,769,526, 10-30-73, Cl. 307-269.000.

Krause, Johannes; and Portz, Wilhelm, to Knapsack Aktiengesellschaft. Installation for cooling calcium carbide run off into vessels. 3,741,414, 6-26-73, Cl. 214-44.00r.

Krause, John Thorvald; and Kurkjian, Charles Robert, to Bell Telephone Laboratories, Incorporated. Ultrasonic devices using germanium-containing chalogenide glasses. 3,771,073, 11-6-73, Cl. 333-30.00r.

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Krause, Lothar, to Hauni-Werke Korber & Co., KG. Apparatus for splicing cigarette paper webs. 3,749,634, 7-31-73, Cl. 156-505.000.

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Borkovsky, Gennady Mikhailovich; Dorofeev, Alexandr Nikolaevich; Kuzmin, Vladimir Ivanovich; Lebedev, Vladimir Nikolaevich; Lebedev, Yuri Nikolaevich; Lebedev, Yuri Nikolaevich; Lebedev, Yuri

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Krause, Wilhelm, to Thermal Transfer Corporation. High temperature apparatus. 3,708,599, 1-2-73, Cl. 13-1.000.
Krauss, Edward William, to IPEC, Incorporated. Sheet cutting apparatus. 3,754,492, 8-28-73, Cl. 83-380.000.
Krauss, Hans Gunter, to ELMEG Elektro-Mechanik GmbH. Axial guide for transfer pinions and digit drums in counters. 3,766,366, 10-16-73, Cl. 235-133.000.
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Krausse, Hans-Jurgen; and Henning, Erwin, to VEB Wirkmaschinenbau Karl-Marx-Stadt. Device for braking the yarn unwinding from a disc bobbin. 3,767,136, 10-23-73, Cl. 242-156.000.
Krausser, Alfred: *See—*
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Krausser, Heinz; and Krausser, Alfred, to Edelmann, Carl, GmbH. Target evaluation. 3,719,998, 3-13-73, Cl. 33-174.00r.
Krauth, Horst Axel Karl; Muller, Norbert G.; Wolfgang, Bei Hanau; and Himmelstein, Paul R., to NUKEM, Nuklear-Chemie und-Metallurgie Gesellschaft mit beschrankter Haftung. Production of a fuel carbide with a jacket of fuel nitride, sulfide or phosphide. 3753,854, 8-21-73, Cl. 176-67.000.
Krauthamer, Stanley, to Borg-Warner Corporation. A-C energizing system with static interrupter. 3,711,759, 1-16-73, Cl. 321-14.000.
Krautkramer, J. u. H., Dr., Gesellschaft fur Elektrophysik: *See—*
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Krautkremer, Franz, to Schottel-Werft, Josef Becker KG. Movable carrier for a watercraft. 3,752,343, 8-14-73, Cl. 214-505.000.
Krautzberger, Franz, to Voith, J. M., GmbH. Smoothing scraper-coating apparatus. 3,722,465, 3-27-73, Cl. 118-123.000.
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Kravetz, Michael A.; and Schreiber, Eric C., to Harvey, R. J., Instrument Corporation. Apparatus to oxidize biological material. 3,726,646, 4-10-73, Cl. 23-253.0pc.
Kravitz, Arthur I. Shoe polishing apparatus. 3,742,545, 7-3-73, Cl. 15-31.000.
Kravitz, Stanley: *See—*
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Krawagna, Alois A.: *See—*
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Krawiec, Donald M., to Combustion Engineering, Inc. Bimetallic spacer grid arrangement. 3,715,275, 2-6-73, Cl. 176-78.000.
Kray, Raymond J.; and Stevenson, Robert W., to Celanese Corporation of America. Polyoxymethylene-oxyalkylene block polymers. 3,754,053, 8-21-73, Cl. 260-823.000.
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Kreda, Eugene J., to Servo Corporation of America, mesne. Variable threshold circuit. 3,708,678, 1-2-73, Cl. 250-219.00d.
Kreda, Eugene J., to Servo Corporation of America. Photomultiplier gain control circuit. 3,714,441, 1-30-73, Cl. 250-207.000.
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Krehbiel, Vivian D. Fluid-filled bed. 3,732,585, 5-15-73, Cl. 5-348.0wb.
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Kreider, Carl R., to Dexter Axle Co., Inc. Electric brake construction. 3,756,355, 9-4-73, Cl. 188-138.000.
Kreienbaum, Hubert, to Kemper, Wilhelm, KG. Agricultural spreaders. 3,722,802, 3-27-73, Cl. 239-658.000.
Kreiensen, Kurt; and Hutter, Karl. Measuring device for determining the angular position of a cam. 3,731,386, 5-8-73, Cl. 33-1.0pt.
Kreiensen, Kurt; and Hutter, Karl. System for determining the tollerance values of the form curve of a cam. 3,755,907, 9-4-73, Cl. 33-174.001.
Kreihe, Hermann. Apparatus for selectively simultaneously cleaning, disinfecting and drying of surfaces. 3,749,502, 7-31-73, Cl. 401-139.000.
Kreimann, Herbert H., to Combustion Engineering Inc. Agitator for marble bed gas scrubber. 3,727,381, 4-17-73, Cl. 55-233.000.
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Kreis, Philipp. Fast-action valve. 3,761,056, 9-25-73, Cl. 251-255.000.
Kreis, Philipp. Handle for fast action valve. 3,778,026, 12-11-73, Cl. 251-255.000.
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Kreischmer, Willi K.; and Heady, Paul A., Jr., to Lockheed Missiles & Space Company, Inc. Open loop on-demand variable flow gas generator system with a two-position injector. 3,736,749, 6-5-73, Cl. 60-39.74a.
Kreiskorte, Heinz, to Schenck, Carl, Maschinenfabrik GmbH, Firma. Valving mechanism for hydraulic storage means, especially for hydraulic testing apparatus. 3,731,592, 5-8-73, Cl. 91-411.00a.
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Kreissig, Ernst Florian; and Feuerlein, Karl, to Sulzer Brothers Limited. Pneumatic railway car suspension. 3,734,030, 5-22-73, Cl. 105-164.000.
Kreissig, Ernst Florian; and Feuerlein, Karl, to Sulzer Brothers Limited. Railway car roll controlled by fluid spring controller assembly. 3,757,702, 9-11-73, Cl. 105-210.000.
Kreit, Bernhardt: *See—*
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Kreithen, Marvin L.; and Lawler, John J., to Bridgeport Machines, Inc. Device for interchanging measurement systems. 3,764,781, 10-9-73, Cl. 235-92.0pe.
Kreithen, Marvin L.; and Lawler, John J., to Bridgeport Machines, Inc. Control system for producing multi-axis contour movement for a stepping motor drive. 3,767,990, 10-23-73, Cl. 318-573.000.
Kreitz, Richard W.; and Svendsen, John A., to Minnesota Mining and Manufacturing Company. Development device. 3,709,472, 1-9-73, Cl. 263-6.00e.
Kreitz, Walter: *See—*
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Kreitz, Walter; Blossfeld, Lothar; and Dietrich, Otmar Siegfried, to ITT Industries, Inc. Monolithic integrable constant current source for transistors connected as current stabilizing elements. 3,754,181, 8-21-73, Cl. 323-1.000.
Kreitzburg, Oliver Dean, to Fabricmaster, Inc. Cloth bolt holder. 3,739,918, 6-19-73, Cl. 211-44.000.
Kreizel, William J.; and Ciuzio, Richard T., to Armstrong Cork Company. Knock-down table structure. 3,730,109, 5-1-73, Cl. 108-156.000.
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Krejoi, Joseph, III. Energy absorbing seat assembly. 3,740,091, 6-19-73, Cl. 296-68.000.
Krekeler, Claude B., to Cincinnati Mine Machinery Co., The. Means for removably affixing cutter bit and lug assemblies to driven elements of a mining machine or the like. 3,749,449, 7-31-73, Cl. 299-93.000.
Krekeler, Claude B., to Cincinnati Mine Machinery Co., The. Resilient retaining means for connecting work tools and work tool holders. 3,767,266, 10-23-73, Cl. 299-92.000.
Krekeler, Claude B., to Cincinnati Mine Machinery Co., The. Means for removal and installation of bits in mining machinery. 3,769,683, 11-6-73, Cl. 29-267.000.
Krekeler, Claude B., to Cincinnati Mine Machinery Co., The. Anticoring device for use with bit mounting means on mining, earth working and digging machines. 3,778,112, 12-11-73, Cl. 299-86.000.
Krekeler, Jerome H.; Wehr, Charles H.; and Aboutboul, Henri A., to National Petro-Chemicals Corporation. High shear mixing apparatus for making silica gels. 3,709,664, 1-9-73, Cl. 23-285.000.
Krekeler, Ulrich, to Agfa-Gevaert Aktiengesellschaft. Process for the modification of the surface properties of mouldings made of transparent thermoplastic synthetic resins. 3,713,880, 1-30-73, Cl. 117-138.80b.
Krekow, Gerhard; Schramm, Jurgen; and Witter, Klaus, to U.S. Philips Corporation. Electrographic recording method and devices for performing this method. 3,743,411, 7-3-73, Cl. 355-17.000.
Krekow, Iniz I. Radiation sensitive traffic warning system. 3,739,179, 6-12-73, Cl. 250-216.000.
Krell, Karl-Heinz: *See—*
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Krell, Leonard C. Carpet installation tool. 3,745,598, 7-17-73, Cl. 7-8.000.
Krellen, Norman L. Contact lens case. 3,741,377, 6-26-73, Cl. 206-5.00a.
Krellmann, Herbert: *See—*
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Krelz, Otto; and Raal, Stefan, to Demag Aktiengesellschaft. Manipulator for polygonal cross-section fillets, particularly cast copper bars. 3,759,401, 9-18-73, Cl. 214-1.0qg.
Krembs, George M., to International Business Machines Corporation. Capacitive-coupled connectors for gaseous discharge display panels. 3,742,296, 6-26-73, Cl. 315-169.00r.
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Kremer, Gilbert Victor Henri, to Ugine Kuhlmann. Succinimide-containing dyestuffs. 3,714,184, 1-30-73, Cl. 260-326.300.
Kremer, Leon V., to Minnesota Mining and Manufacturing Company. Sprayable compositions. 3,776,873, 12-4-73, Cl. 260-29.10r.
Kremer, Thomas. Domino like game pieces. 3,773,327, 11-20-73, Cl. 273-137.00c.
Kremp, Rudolf; and Hennig, Fridolin, to Agfa-Gevaert Aktiengesellschaft. Cinematographic apparatus for use with cassettes for motion picture film. 3,722,828, 3-27-73, Cl. 242-181.000.
Krempel, Frank M.: *See—*
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Krenz, Gunter, to Vereinigte Flugtechnische Werke-Fokker GmbH. Wing arrangement for a V/STOL aircraft. 3,718,294, 2-27-73, Cl. 244-46.000.
Krenzer, John; and Richter, Sidney B., to Velsicol Chemical Corporation. 5-Halo-1,2,4-thiadiazoles. 3,720,684, 3-13-73, Cl. 260-300.80d.
Krenzer, John; and Richter, S. B., to Velsicol Chemical Corporation. N-Cycloalkylthiocarbonyloxy-substituted N-phenylures. 3,742,008, 6-26-73, Cl. 260-455.00b.
Krenzer, John, to Velsicol Chemical Corporation. Dialkyl acetals of heterocyclic ureidoacetalidehyde. 3,759,940, 9-18-73, Cl. 260-306.800.
Krenzer, John; and Richter, Sidney B., to Velsicol Chemical Corporation. Certain thiadiazoles as fungicides. 3,764,685, 10-9-73, Cl. 424-270.000.
Krenzer, John; and Richter, Sidney B., to Velsicol Chemical Corporation. Fungicidal method utilizing furancarboxamides. 3,778,512, 12-11-73, Cl. 424-285.000.
Krepak, John C. Digital thermometer. 3,768,310, 10-30-73, Cl. 73-362.0ar.
Kreps, Robert W., to Farmland Industries, Inc. Battery testing method employing capacitance and dissipation factor measurements. 3,750,011, 7-31-73, Cl. 324-29.500.
Kresan, Lawrence J.: *See—*
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Kresge, Edward N.; and Baldwin, Francis P., to Esso Research and Engineering Company. Broad molecular weight butyl process. 3,780,002, 12-18-73, Cl. 260-85.30r.
Kreske, Alvin, Jr. Increased traction racing motor vehicle. 3,779,324, 12-18-73, Cl. 180-1.00r.
Kreske, Walter J.: *See—*
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Krespan, Carl G., to Du Pont de Nemours, E. I., and Company. Spiro [1,1-polyethylenedi(oxmethyl)]-3-oxetanes. 3,763,188, 10-2-73, Cl. 260-338.000.
Kress, Edward S. Slag pot carrier. 3,722,874, 3-27-73, Cl. 267-64.00r.
Kress, James Henry: *See—*
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Kress, James Henry; Michael, Richard Arlo; and Madson, Lyle Robert, to Deere & Company. Combined hydrostatic and mechanical transmission. 3,736,813, 6-5-73, Cl. 74-740.000.
Kress, Rene F.: *See—*
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Kress, Rene F., to Sun Oil Company. Hydrocracking production of lubes. 3,723,295, 3-27-73, Cl. 208-87.000.
Kresse, Heinz, to Siemens Aktiengesellschaft. Implantable artificial heart with externally worn fluid pressure energy transmitter. 3,731,322, 5-8-73, Cl. 3-1.000.
Kressel, Henry; and Hawrylo, Frank Zygmunt, to RCA Corporation. Semiconductor injection laser. 3,747,016, 7-17-73, Cl. 331-94.50h.



Kressel, Henry; and Nelson, Herbert, to RCA Corporation. Method of forming region of a desired conductivity type in the surface of a



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Kressel, Henry; and Nelson, Herbert, to RCA Corporation. Method of forming region of a desired conductivity type in the surface of a semiconductor body. 3,762,968, 10-2-73, Cl. 148-171.000.
Kressin, Ivan K., to United States of America, Atomic Energy Commission. Separation of mercury from aqueous solution. 3,760,057, 9-18-73, Cl. 423-463.000.
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Kreten, Bernhard; and Cutillo, Louis J. Collapsible water mattress frame. 3,735,432, 5-29-73, Cl. 5-348.000.
Kretschmer, Horst: *See—*
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Kretschmer, Ingo; and Mursic, Marjan, to Messer Griesheim G.m.b.H. Submerged-arc welding with strip electrode and foamed flux of .4-.8 Kg/l. 3,760,140, 9-18-73, Cl. 219-73.000.
Kretschmer, Paul. Fastening arrangement for decorative wheel rings. 3,771,834, 11-13-73, Cl. 301-37.00p.
Kretschmer, Willi K.; and Heady, Paul A., Jr., to United States of America, Navy, mesne. On-demand variable flow closed loop gas generator system with a variable area injector. 3,726,088, 4-10-73, Cl. 60-39.74a.
Kreuder, Hans-Joachim: *See—*
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Kreusch, Edward G.; and Husslini, Farouk F., to Culligan Inc. Iodine treated activated carbon and process of treating contaminated water therewith. 3,772,189, 11-13-73, Cl. 210-40.000.
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Kreuter, Kenneth G.; and Mueller, Klaus P., to Robertshaw Controls Company. Condition responsive parameter control means. 3,730,428, 5-1-73, Cl. 236-87.000.
Kreuter, Kenneth G.; and Steger, Lyall O., to Robertshaw Controls Company. Piston motor device. 3,762,280, 10-2-73, Cl. 92-98.00d.
Kreutter, Richard C., to Clark Equipment Company. Pallet storage system. 3,754,632, 8-28-73, Cl. 198-20.000.
Kreutz, Rolf: *See—*
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Kreutzelman, Harm; and Verhoeven, Laurentius Maria, to U.S. Philips Corporation. Switch. 3,735,070, 5-22-73, Cl. 200-78.000.
Kreutzer, Thomas F., to L. S. T. Interprises. Dual purpose dump and transport vehicle. 3,712,491, 1-23-73, Cl. 214-505.000.
Kreutzweiser, Charles E., to Electrohome Limited. Stereo speaker design. 3,762,600, 10-2-73, Cl. 220-97.00r.
Kreuz, John Anthony: *See—*
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Kreuzer, Friedrich. Apparatus for protecting data processing installations and the like from disturbances. 3,757,168, 9-4-73, Cl. 317-16.000.
Kreuzer, John A.: *See—*
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Krey, Winfried, to Varta Gesellschaft mit beschrankter Haftung. Separator for galvanic dry cells employing aqueous electrolyte. 3,730,777, 5-1-73, Cl. 136-131.000.
Krey, Winfried, to Varta Pertrix-Union Gesellschaft mit beschrankter Haftung. Galvanic cell employing cation exchange compound separator. 3,756,859, 9-4-73, Cl. 136-107.000.
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Krick, John B., and Coleman, Bernard, to Rowan Controller Inc. Solid state motor control cycling timer. 3,755,695, 8-28-73, Cl. 307-293.000.
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Kriedt, Frederick A.; Sundstrom, Thomas H.; and Walko, Richard. Submersible salvage unit and method of operation. 3,732,838, 5-15-73, Cl. 114-16.00e.
Kriege, David J.: *See—*
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Kriegel, Carl P. Pneumatic accumulator. 3,763,893, 10-9-73, Cl. 137-625.600.
Krieger, A. P. Tool silencing means. 3,757,891, 9-11-73, Cl. 181-33.00k.
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Krieger, Friedrich; Wirbser, Oskar; and Pfeiffer, Albert, to Siemens Aktiengesellschaft. Contact members for soldering electrical components. 3,770,874, 11-6-73, Cl. 174-68.500.
Krieger, Harold: *See—*
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Krieger, Irving B., to Pacific Architects & Engineers Incorporated. Soil adhesion composition of acrylic latex and sodium silicate. 3,763,072, 10-2-73, Cl. 260-29.60s.
Krieger, Irving W.; Peluchiwski, John J.; and Willcox, Dale F., to Turnas Electric Company. Snap action pressure responsive control device with single stroke make and break. 3,773,991, 11-20-73, Cl. 200-83.00p.
Krieger, Paul E., to Dow Chemical Company, The. Tetrahydro-as-triazine-3(2H)thiones. 3,732,219, 5-8-73, Cl. 260-248.0as.
Kriett, Walter, to Blohm & Voss AG. Multichannel slide valve. 3,774,638, 11-27-73, Cl. 137-625.480.
Krigbaum, Clarence A. Scrap rubber shredding device. 3,727,850, 4-17-73, Cl. 241-159.000.
Krikorian, Albert P., to National Blank Book Company, Inc. Loose leaf ring binder easel structure. 3,724,876, 4-3-73, Cl. 281-33.000.
Krikorian, Oscar H., to United States of America, Atomic Energy Commission. Chemical processing in geothermal nuclear chimney. 3,764,660, 10-9-73, Cl. 423-362.000.
Krikorov, Vadim Sergeevich; Krasov, Vladimir Grigorievich; Sukhodaev, Boris Alexandrovich; Kokin, Vitaly Kazimirovich; Zhelninsky, Valentin Danilovich; Sukhanov, Nikolai Mefodievich; Leonov, Gennady Mikhailovich; Likholetov, Nikolai Ivanovich; Kovalev, Igo Tikhonovich; Gusev, Vladimir Vladimirovich; and Medvedev, Andrei Petrovich. Method of obtaining silicon monoxide. 3,728,436, 4-17-73, Cl. 423-325.000.
Krimm Enterprises, Inc.: *See—*
Krimm, John H., 3,772,723.
Krimm, Heinrich: *See—*
Boie, Immo; Schulte, Walter; Pelz, Willibald; Krimm, Heinrich; Freitag, Dieter; and Nittel, Fritz, 3,770,447.
Buysch, Hans-Josef; Krimm, Heinrich; and Margotte, Dieter, 3,758,597.
Krimm, Heinrich; Lenz, Gunther; and Schnell, Hermann, to Bayer Aktiengesellschaft. Thermoplastic aromatic polyureas. 3,737,413, 6-5-73, Cl. 260-77.50c.
Krimm, John H., to Krimm Enterprises, Inc. Mobile washing unit. 3,772,723, 11-20-73, Cl. 15-21.00d.
Krimmel, Carl Peter, to Searle, G. D., & Co. Amides of hexahydro-4,7-methanoindan-2-carboxylic acid. 3,709,937, 1-9-73, Cl. 260-557.00b.
Krimphove, Herbert: *See—*
Gehrken, Hubert; Helms, Gerd; Keunecke, Gerhard; and Krimphove, Herbert, 3,725,211.
Krings, Hans; and Kramling, Franz, to Saint-Gobain Industries. Safety windshield. 3,764,178, 10-9-73, Cl. 296-84.00r.
Krings, Peter: *See—*
Altenschopfer, Theodor; Batka, Heimold; Jakobi, Gunter; Krings, Peter; and Lehmann, Hans-Jurgen, 3,779,934.
Disch, Karlheinz; Krings, Peter; Kuhling, Dieter; Bellinger, Horst; and Perner, Johannes Jurgen, 3,730,902.
Krinke, Harlan L., to Minnesota Mining and Manufacturing Company. Vehicle headlight. 3,764,797, 10-9-73, Cl. 240-7.100.



Kripak, Leonid M.: *See—*
Glass, Marvin I.; Kripak, Leonid M.; and Meyer, Burton C., 3,740,896.
Krisch, Lothar: *See—*
Martin, Helmut; and Krisch, Lothar, 3,735,056.
Krisco, Carl, to V.A.C. Industries, mesne. Temperature differential monitor. 3,753,194, 8-14-73, Cl. 337-331.000.
Krishna, Surinder: *See—*
Davis, John R.; and Krishna, Surinder, 3,771,028.
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Krishnaiyer, Ramesh: *See—*
Donovan, John C.; Krishnaiyer, Ramesh; and Esser, Frank J., 3,735,353.
Velicer, Wencel J.; Krishnaiyer, Ramesh; McLean, Michael B.; and LaMore, Donald J., Jr., 3,746,044.
Krishnan, R. Gopala: *See—*
Bartley, Thomas S.; Descary, John Gilbert; Futcher, R. James; and Krishnan, R. Gopala, 3,764,465.
Krisko, William J.: *See—*
Donnelly, Thomas G.; Haueter, James A.; Krisko, William J.; Schoen, Donald W.; and Lind, Chester S., 3,766,844.
Krispin Engineering Limited: *See—*
Maynard, James G.; and Brown, George F., 3,712,078.
Kristel, Ira B.: *See—*
Aronson, Theodore F.; and Polidori, Vincent A., 3,765,327.
Kristiansen, Asbjorn Helge. Apparatus for the opening of carry bags and for the securing thereof in opened condition during filling of commodities. 3,763,630, 10-9-73, Cl. 53-387.000.
Kristiansen, Odd, to Ciba-Geigy Corporation. Propanal derivatives. 3,718,683, 2-27-73, Cl. 260-456.00a.
Kristiansen, Odd; and Gubler, Kurt, to Ciba-Geigy Corporation. Phosphoric acid esters. 3,733,376, 5-15-73, Cl. 260-941.000.
Kristiansson, Erik, to Pullman Aktiebolag. Arrangement in tool changes for stamping and nibbling machines and the like. 3,745,646, 7-17-73, Cl. 29-568.000.
Kristof, Dezso S., to Caloric Corporation. Ventilating hood and blower device therefor. 3,732,802, 5-15-73, Cl. 98-115.00k.
Kristof, Herbert. Waistband for trousers, skirts and the like. 3,711,868, 1-23-73, Cl. 2-237.000.
Kristof, John J., 1/2 to Apsco Manufacturing Corporation and 1/2 to Air-O-Matic Power Steer Corporation. Power steering system. 3,750,836, 8-7-73, Cl. 180-79.20r.
Kristof, John J.; and Thiry, Geza A., to Sycon Corporation, mesne. Vehicle power steering system. 3,763,951, 10-9-73, Cl. 180-79.20r.
Kritshe, Victor J. Cue tip dressing device. 3,769,760, 11-6-73, Cl. 51-204.000.
Kritske, Victor J., to Mayline Company, Inc. Vertical filing apparatus. 3,729,099, 4-24-73, Cl. 211-46.000.
Kritz, Albert H.; and Epstein, Maurice J., to Computer Transceiver Systems, Inc. Variable speed printer. 3,761,880, 9-25-73, Cl. 340-172.500.
Kritz, Jacob A., to Sperry Rand Corporation. Wheel slip sensor. 3,735,200, 5-22-73, Cl. 317-5.000.
Kritzberg, Nathan I.; and Gardner, Richard, to Psychotherapeutic Devices, Inc. Psychological testing and therapeutic board game apparatus. 3,779,557, 12-18-73, Cl. 273-135.00d.
Kritzler, Gerhard: *See—*
Heer, Heribert; Kantelhardt, Werner; and Kritzler, Gerhard, 3,774,372.
Krivak, Michael T.; Reynolds, Gibson; and Prapis, Frank, to Bendix Corporation, The. Servo displacement limiter with reversing capabilities. 3,714,535, 1-30-73, Cl. 318-468.000.
Krivoshiev, Cueorgui Petrov; Kolev, Dimiter Christov; Tanev, Christo Yanakiev; Erinkov, Dimiter Kostadinov; Petrov, Gueorgui Slavov; Vassilev, Alexander Traykov; and Vatev, Petko Slavtchev, to Nii Po Konservna Promishlenost. Method and apparatus for sortin tomatoes by colour. 3,781,554, 12-25-73, Cl. 250-226.000.
Kriz, Ferdinand J., to Producto Machine Company, The. Three-D electrode machining tool. 3,720,804, 3-13-73, Cl. 219-59.00v.
Krizek, Reynold J.: *See—*
Bunchak, William G.; and Krizek, Reynold J., 3,720,278.
Krjutchenko, Evgenia Georgievna: *See—*
Serebryakova, Tatyana Andreevna; Zakharychev, Ardalion Vladimirovich; Chigir, Rimma Nuriakhmetova; Anachenko, Sofia Nikolaevna; Torgov, Igor Vladimirovich; and Krjutchenko, Evgenia Georgievna, 3,712,910.
Krob, Erwin; and Morell, Josef, to Vockenhuber, Karl and Hauser, Raimund. Recording or reproducing apparatus. 3,746,227, 7-17-73, Cl. 226-36.000.
Krob, Erwin; and Valoh, Alfons, to Vockenuber, Karl and Hauser, Raimund. Claw device. 3,775,000, 11-27-73, Cl. 352-79.000.
Krochert, Karl Heinz; and Zimmermann, Karl, to Roland Offsetmaschinenfabrik Faber & Schleicher A.G. Dampening device for lithographic presses. 3,744,414, 7-10-73, Cl. 101-148.000.
Krochert, Karl-Heinz, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Device for registering sheets on feed board of sheet fed printing machines. 3,754,755, 8-28-73, Cl. 271-58.000.
Krock, Elmer W.; and Simon, Charles J., to GTE Automatic Electric Laboratories, Incorporated. Call metering for PABX telephone system. 3,721,769, 3-20-73, Cl. 179-18.0ad.
Krock, Elmer W.; and Simon, Charles J., to GTE Automatic Electric Laboratories Incorporated. Call pickup service for PABX telephone system. 3,725,599, 4-3-73, Cl. 179-18.0bd.
Krock, Elmer W.; and Simon, Charles J., to GTE Automatic Electric Laboratories, Incorporated. Line and link sensing technique for PABX telephone system. 3,729,594, 4-24-73, Cl. 179-18.0ab.
Krock, Elmer W.; and Simon, Charles J., to GTE Automatic Electric Laboratories Incorporated. Non-dial station service for PABX telephone system. 3,731,003, 5-1-73, Cl. 179-27.0ff.
Krodel, Otto, to Daimler-Benz Aktiengesellschaft. Method and apparatus for attaching a molding between the frame of a vehicle and an exposed edge of a window pane installed in the frame. 3,720,030, 3-13-73, Cl. 52-400.000.
Kroder, Ernest A., to Dentsply Research & Development Corporation. Connecting metal elements and products thereof. 3,768,342, 10-30-73, Cl. 76-101.00a.
Kroeck, Herbert. Strip metal dimension sensing device for metal working machines. 3,734,260, 5-22-73, Cl. 192-127.000.
Kroehler Mfg. Co.: *See—*
Pentzien, Frederick R., 3,781,060.
Kroekel, Charles Henry, to Rohm & Haas Company. Unsaturated polyester resinous compositions. 3,772,241, 11-13-73, Cl. 260-40.00r.
Kroening, Roger D.: *See—*
Kirby, David B.; and Kroening, Roger D., 3,753,753.
Kroetch, Arthur A. Tube bender and cutter. 3,724,256, 4-3-73, Cl. 72-332.000.
Kroewerath, S. L., & Co., Firma: *See—*
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Kroft, John D.; Pawletko, Joseph P.; Peters, Francis E.; and Yount, Carl T., to International Business Machines Corporation. Magnetically restorable high speed print hammer. 3,711,804, 1-16-73, Cl. 335-266.000.
Krogel, Christopher John, to Western Electric Company, Incorporated. Apparatus for surface dyeing the pulp insulation of wire. 3,714,927, 2-6-73, Cl. 118-612.000.
Kroger, Harry: *See—*
Grace, Martin I.; Kroger, Harry; and Pratt, Harold J., Jr., 3,714,605.
Kroger, Harry; and Potter, Curtis N., to Sperry Rand Corporation. Dual-mesa ring-shaped high frequency diode. 3,761,783, 9-25-73, Cl. 317-234.00r.
Kroger, Heinz: *See—*
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Kroger, Klaus: *See—*
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Krogseng, Gerald P.: *See—*
Borer, Albert; and Krogseng, Gerald P., 3,760,049.
Krogsrod, Harald, to Elkem A/S. Rotatable gastight valve. 3,779,510, 12-18-73, Cl. 251-301.000.
Krogsrud, Jens, to JAC, Jacobsen A/S. Equipoised arm assembly. 3,774,873, 11-27-73, Cl. 248-280.000.
Kroh, Uriah B., to United States of America, Navy. Frangible cover assembly for missile launchers. 3,742,814, 7-3-73, Cl. 89-1.800.
Krohe, Wilfried: *See—*
Nedopil, Erich; Krohe, Wilfried; and Wittmann, Karl, 3,744,959.
Krohe, Wilfried; and Rosch, Berthold, to Sigri Elektrographit GmbH. Single-chamber kiln with combustion gas circulation. 3,744,966, 7-10-73, Cl. 432-176.000.
Krohm, Reinhold: *See—*
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Krohmer, Gerhard; and Krohmer, Helmut. Disaster control system. 3,714,456, 1-30-73, Cl. 307-117.000.
Krohmer, Helmut: *See—*
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Burckhardt, Manfred H.; Florus, Hans-Jorg; Grossner, Horst; Krohn, Hellmut; and Stein, Hermann, 3,779,331.
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Krohn, Ivar T.; and Page, Geoffrey A., to Xerox Corporation. Manifold electrification process. 3,718,462, 2-27-73, Cl. 96-1.300.
Krohn, Ivar T.; and Page, Geoffrey A., to Xerox Corporation. Manifold imaging process. 3,756,812, 9-4-73, Cl. 96-1.00r.
Krohn, Ivar T.; Page, Geoffrey A.; and Reinis, Gedeminas J., to Xerox Corporation. Manifold imaging. 3,776,721, 12-4-73, Cl. 96-1.00r.
Krohn, Lawrence H.: *See—*
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Krohn, Lawrence H.; and Merlo, Angelo L., said Merlo assor. to said Krohn, Lawrence H. System for providing a multi-level current
Krone, Heinz; and Hoffmann, Wilhelm, to Krone G.m.b.H. Savings bank with an insertion slot safety mechanism and a key operated



Krouzian, Kersan K. Dental ejector equipment. 3,758,950, 9-18-73,

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Krohn, Rasmus: *See—*
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Krohn, Ronald W.: *See—*
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Krohn-Hite Corporation: *See—*
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Krohne, Ludwig: *See—*
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Krohnert, Paul J. Magazine insert. 3,751,074, 8-7-73, Cl. 283-46.000.

Kroken, Randall L.: *See—*
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Krokhin, Alexandr Alexandrovich: *See—*
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Krokos, Raymond M.; and Kosterwa, John J., to Evans Products Company. Bulkhead locking arrangement. 3,735,712, 5-29-73, Cl. 105-376.000.

Krol, Vladimir Alexandrovich: *See—*
Dolgoplosk, Boris Alexandrovich; Tinyakova, Elena Ivanovna; Beilin, Solomon Isaakovich; Makovetsky, Kirill Lvovich; Chernenko, Galina Moiseevna; Ostrovskaya, Irina Yakovlevna; Krol, Vladimir Alexandrovich; and Khrennikova, Elena Konstantinovna, 3,740,382.

Krolikov, Boris Zakharovich; Krylov, Jury Petrovich; and Brod, Ilya Iosifovich. Apparatus for applying an adhesive on upper margin of a shoe upper. 3,722,466, 3-27-73, Cl. 118-212.000.

Krolikov, Boris Zakharovich; Krylov, Jury Petrovich; Brod, Ilya Iosifovich; and Pripshtein, Boris Isaeivich. Upper roughing device. 3,735,437, 5-29-73, Cl. 12-1.00r.

Krolikowski, Walter F.: *See—*
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Chen, Charles Y.; Dhaka, Vir A.; and Krolikowski, Walter F., 3,769,105.
Dhaka, Vir A.; and Krolikowski, Walter F., 3,734,787.

Krolikowski, Walter F.; and Lund, Donald F., to Cogar Corporation. FET memory chip including FET devices therefor and fabrication method. 3,760,384, 9-18-73, Cl. 340-173.00r.

Kroll, Arthur W., to Veeder Industries, Inc. Versatile modules enclosure with extruded wall sections. 3,758,829, 9-11-73, Cl. 317-117.000.

Kroll, Glenn H., to Sears Roebuck and Co. End caps for gym. 3,757,826, 9-11-73, Cl. 138-89.000.

Kroll, Gunter; Struwe, Herbert; and Fliess, Gunther, to U.S. Philips Corporation. Television aerial measurement receiver. 3,773,972, 11-20-73, Cl. 178-7.30r.

Kroll, Harry: *See—*
Sykes, Donald J.; Kroll, Harry; and Finch, Theron R., 3,713,826.

Kroll, Hartmut: *See—*
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Kroll, Heinz E., to International Standard Electric Corporation. Method of producing terminal pins of a printed circuit board. 3,747,210, 7-24-73, Cl. 29-630.00r.

Kroll, Stanley; and Platzman, Michael M. Wheel sensing apparatus. 3,748,443, 7-24-73, Cl. 235-92.0tc.

Kroll, Steve: *See—*
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Kroll, Wolfram R., to Esso Research and Engineering Company. Hydrogenation process. 3,770,772, 11-6-73, Cl. 260-332.100.

Kroiopp, Otto C.: *See—*
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Krombein, Norman A. Movable targets and variable angle projector. 3,709,495, 1-9-73, Cl. 273-101.000.

Kromer, George L. Vehicle electrical combination lock. 3,710,316, 1-9-73, Cl. 340-63.000.

Kromer, Karl: *See—*
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Kromrey, Robert V., to Aerojet-General Corporation. Molds for ablative injectors. 3,761,048, 9-25-73, Cl. 249-146.000.

Kron, Reuben E., to University of Pennsylvania, The Trustees of the. Apparatus and method for measuring mammalian blood viscosity. 3,720,097, 3-13-73, Cl. 73-55.000.

Krone GmbH: *See—*
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Harms, Wolf-Henning, 3,758,725.
Krone, Heinz; and Hoffmann, Wilhelm, 3,721,385.
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Krone, Gustav; and Rott, Joachim, to Krone Kommanditgesellschaft. Clip connector terminal for one or more insulated conductors. 3,761,868, 9-25-73, Cl. 339-98.000.

Krone, Heinz; and Hoffmann, Wilhelm, to Krone G.m.b.H. Savings bank with an insertion slot safety mechanism and a key operated lock. 3,721,385, 3-20-73, Cl. 232-4.00r.

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Hiltmann, Rudolf; Wollweber, Hartmund; Hoffmeister, Friedrich; and Kroneberg, Hans-Gunther, 3,773,771.

Kronenberg, Francis E.; Olson, Alexius B.; Poirot, James M.; Rohweder, Gerald D.; and Winkler, Harold W., to Caterpillar Tractor Company. Apparatus and method for determining coefficient of friction. 3,717,025, 2-20-73, Cl. 73-9.000.

Kronenberger, Paul E., to General Motors Corporation. Refrigerator cabinet construction for releasing foam insulation. 3,719,303, 3-6-73, Cl. 220-9.00f.

Kronenwetter, Richard P.: *See—*
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Kroner, Klaus; and Feindt, Hans-Heinrich, to U.S. Philips Corporation. Circuit arrangement for generating an amplitude-modulated sawtooth voltage. 3,743,882, 7-3-73, Cl. 315-13.00c.

Kronfeld, Alan C.: *See—*
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Kronfeld, Alan C.; and Michael, Paul S., to Nortronics Company, Inc. Hand held transducer insensitive to angular orientation. 3,710,362, 1-9-73, Cl. 340-174.10f.

Krongos, Zaharias. Multiple water-filter device. 3,780,869, 12-25-73, Cl. 210-317.000.

Kronholm, Tapio: *See—*
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Kronholm, Tapio Kullervo: *See—*
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Kronies, Reinard Kurt, to Burroughs Corporation. Three state logic device with applications. 3,742,253, 6-26-73, Cl. 307-247.000.

Kronies, Reinhard Kurt; and Coupland, John Robert, to Burroughs Corporation. Fast inhibit gate with applications. 3,753,014, 8-14-73, Cl. 307-217.000.

Kronig, Walter; and Scharfe, Gerhard, to Bayer Aktiengesellschaft. Process for the production of catalysts for making vinyl esters. 3,775,342, 11-27-73, Cl. 252-430.000.

Kroniger, Arno: *See—*
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Kronrumpf, William P.: *See—*
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Kronseder, Hermann: *See—*
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Pusching, Klaus-Dieter; Patzwahl, Hans-Jurgen; and Kretschmer, Horst, 3,738,891.

Kronseder, Hermann. Labeling apparatus. 3,728,987, 4-24-73, Cl. 118-62.000.

Kronseder, Herrmann: *See—*
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Krook, Otto Erik; and Nordblad, Sven Sigurd, to Telefonaktiebolaget L M Ericsson. Insulated cable with wire for slitting a protective sheath. 3,748,371, 7-24-73, Cl. 174-70.00r.

Kroon, Peter J., to General Electric Company. Electric switch with magnetic-assist means to assist switch in closing and remaining closed against high currents. 3,777,291, 12-4-73, Cl. 335-16.000.

Krooss, Robert J. Continuously moving apparatus for uniformly orienting bottles. 3,726,387, 4-10-73, Cl. 198-33.0ad.

Kropac, Vaclav: *See—*
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Kropfli, Robert A.; Katz, Isadore; Tritabaugh, Kenneth F.; and Beard, Richard M., to United States of America, Navy, mesne. Method and apparatus for target discrimination in a clutter environment. 3,739,377, 6-12-73, Cl. 343-5.00r.

Kropp, John L.: *See—*
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Kropp, Karl, to Reichert, C., Optische Werke, A.G. Photomicrographic apparatus. 3,717,410, 2-20-73, Cl. 355-46.000.

Kropp, Walter: *See—*
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Krosby, Johannes Anders, to Kvaerner Brugs Kjoleavdeling A/S. Circulation pump for refrigeration plant. 3,741,688, 6-26-73, Cl. 417-372.000.

Krosswang, Kurt: *See—*
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Krouse, Leroy M.: *See—*
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Krout, Victor Edmund: *See—*
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Krouzian, Kersan K. Dental ejector equipment. 3,758,950, 9-18-73, Cl. 32-33.000.

Krow, Cecil J. Spark plug. 3,725,715, 4-3-73, Cl. 313-131.000.

Kroy Knitting Developments Limited: *See—*
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Kroyer, Karl Kristian Kobs: *See—*
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Rasmussen, Torben Borup; Ottosen, Kjeld Dossing; and Persson, Torsten Bengt, 3,769,115.

Kroyer, Karl Kristian Kobs; and Nielsen, Erik, said Nielsen assor. to said Kroyer, Karl Kristian Kobs. Cooking utensil with gauge. 3,736,861, 6-5-73, Cl. 99-343.000.

Kroyer, Karl Kristian Kobs; and Thomsen, Lars Olav. Process and apparatus for producing a free-flowing grannular glucose product. 3,743,539, 7-3-73, Cl. 127-16.000.

Krtous, George F., to Bell & Howell Company. Cartridge. 3,771,687, 11-13-73, Cl. 220-315.000.

Krubiner, Alan Martin; and Oliveto, Eugene Paul, to Hoffmann-La Roche Inc. Halogenation of steroids. 3,716,530, 2-13-73, Cl. 260-239.55c.

Krubiner, Alan Martin, to Hoffmann-La Roche Inc. Preparation of l-dopa. 3,734,952, 5-22-73, Cl. 260-501.110.

Kruck, Ralph E., to VCA Metal Fabrications, Inc. Plastic hair wave device and method of waving hair. 3,736,945, 6-5-73, Cl. 132-9.000.

Kruckenberg, Winfried: *See—*
Wolfrum, Gerhard; Neeff, Rutger; and Kruckenberg, Winfried, 3,775,049.

Kruczek, Wolfgang: *See—*
Deutschmann, Herbert; Kruczek, Wolfgang; and De Lazzer, Karl-Heinz, 3,750,403.

Krueger, Hans: *See—*
Grabmaier, Josef; Krueger, Hans; and Wolff, Ulrich, 3,730,607.

Krueger, Harvey R.: *See—*
Neumann, Charles G.; Krueger, Harvey R.; and Panock, Walter, 3,771,907.

Krueger, Harvey R.; and Reynolds, Donald S.; deceased (by Durkin, John T.; executor; and First National Bank of Chicago, The; executor). Float actuated sequence switch with pushbutton actuator. 3,708,637, 1-2-73, Cl. 200-67.00b.

Krueger, Harvey R., to Reynolds Products, Inc. Hot water supply system for brewer. 3,727,541, 4-17-73, Cl. 99-307.000.

Krueger, Henry B. Automobile opera window installation apparatus and method. 3,776,591, 12-4-73, Cl. 296-146.000.

Krueger, John K., to Motorola, Inc. Automatic feed aparatus for encapsulated semiconductor units. 3,756,109, 9-4-73, Cl. 83-255.000.

Krueger Metal Products, Inc.: *See—*
Hendrickson, Philip J.; and Resch, Richard J., 3,713,618.

Krueger, Robert K.; Bayne, Peter D.; and Weston, Steven S., to Nutrico, Inc., mesne. Method of sterilizing using cyclopropane carboxylic alkyl carbonic anhydride. 3,749,795, 7-31-73, Cl. 424-301.000.

Krueger, Rudolph E. Hydraulic backstay tensioner. 3,730,125, 5-1-73, Cl. 114-109.000.

Krueger, Rudolph E. Method and apparatus for measuring the ullage of a vessel. 3,744,306, 7-10-73, Cl. 73-149.000.

Krueger, Ulf: *See—*
Balli, Heinz; and Krueger, Ulf, 3,733,337.

Krueger, W. A., Company: *See—*
Newsome, John R., 3,767,185.

Krueger, Wallace F. Plural fluid mixing and spray apparatus. 3,708,123, 1-2-73, Cl. 239-415.000.

Krueger, Wilm: *See—*
Szostak, Roland; and Krueger, Wilm, 3,751,156.

Kruegle, Herman A.: *See—*
Krakow, Burton; Dolin, Stanley A.; and Kruegle, Herman A., 3,708,227.

Kruegle, Herman A., to Holobeam, Inc. Method and apparatus for measuring and controlling the thickness of a filament or the like. 3,709,610, 1-9-73, Cl. 356-160.000.

Kruel, Martin; Zurawsky, Dieter; and Juntgen, Harald, to Bergwerksverband G.m.b.H. Adsorbent for desulfurization of sulfur dioxide containing waste gases. 3,739,550, 6-19-73, Cl. 55-73.000.

Kruesi, Paul R.: *See—*
Goldsmith, James R.; Kruesi, Paul R.; and Masarky, Henri, 3,729,397.

Kruesi, Paul R.; and Goens, Duane N., to Cyprus Metallurgical Processes Corporation. Process for the recovery of metals from sulfide ores through electrolytic dissociation of the sulfides. 3,736,238, 5-29-73, Cl. 204-105.00r.

Kruesi, Paul R. Process for the recovery of molybdenum and rhenium from sulfide by electrolytic dissolution. 3,755,104, 8-28-73, Cl. 204-94.000.

Kruesi, Paul R., to Cyprus Metallurgical Processes Corporation. Electrolytic process for the recovery of nickel, cobalt, and iron from their sulfides. 3,766,026, 10-16-73, Cl. 204-113.000.

Krug, Ernst Walter: *See—*
Eilhauer, Friedrich Walter; and Krug, Ernst Walter, 3,762,449.

Kruger, Georg: *See—*
Hausberg, Gerhard; Kruger, Georg; and Benigraf, Karl-Martin, 3,773,472.

Kruger, Gerd; Zipp, Otmar; Keck, Johannes; Nickl, Josef; Machleidt, Hans; Ohnacker, Gerhard; Engelhorn, Robert; and Puschmann, Sigfrid, to Boehringer Ingelheim G.m.b.H. Halo-substituted 2-amino-benzylamine-amides and salts thereof. 3,712,924, 1-23-73, Cl. 60-558.00a.

Kruger, Gerd; Zipp, Otmar; Keck, Johannes; Nickl, Josef; Machleidt, Hans; Ohnacker, Gerhard; Engelhorn, Robert; and Puschmann, Sigfrid, to Boehringer Ingelheim G.m.b.H. Pharmaceutical compositions containing a halo-substituted 2-amino-benzylamine-morpholid or a salt thereof. 3,769,408, 10-30-73, Cl. 424-248.000.

Kruger, Hans: *See—*
Loffler, Erich W.; and Kruger, Hans, 3,736,054.

Kruger, Harry, G.m.b.H.: *See—*
Scheffer, Harry, 3,713,755.
Scheffer, Harry, 3,745,886.
Scheffer, Harry, 3,771,421.

Kruger, Hermann, to Volkswagenwerk Aktiengesellschaft. Valve actuating assembly. 3,716,036, 2-13-73, Cl. 123-90.430.

Kruger, James B.; and Cooper, Joseph, to Scovill Manufacturing Company. Yarn design forming tool. 3,751,776, 8-14-73, Cl. 28-2.000.

Kruger, John G.: *See—*
Willett, Colin S.; and Kruger, John G., 3,772,609.

Kruger, Manfred: *See—*
Kleemann, Axel; Kruger, Manfred; Schreyer, Gerd; Weiberg, Otto; and Weigert, Wolfgang, 3,708,507.

Kruger, Manfred; and Meyer-Simon, Eugen, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process of obtaining silicon tetrahalides. 3,754,077, 8-21-73, Cl. 423-341.000.

Kruger, Peter, to Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V. Solenoid switch, particularly cryogenic switch. 3,715,694, 2-6-73, Cl. 335-177.000.

Kruger, Victor R.: *See—*
Jones, Alan L.; Judson, George T.; Kellogg, Robert M.; and Kruger, Victor R., 3,737,096.

Kruger, Wilfried: *See—*
Ritzmann, Horst; and Kruger, Wilfried, 3,716,095.

Kruger, William P.: *See—*
Balint, Francis A.; Kruger, William P.; Russell, Milton E.; and Trueb, Lucien F., 3,772,553.
Burgwald, Glenn M.; Kruger, William P.; and Hammond, Donald L., 3,771,066.

Kruger, William P.; and Turner, Wilson R., to Hewlett-Packard Company. Ionization chamber for use with a mass spectrometer. 3,723,729, 3-27-73, Cl. 250-41.9sb.

Kruger, William P.; Turner, Wilson R.; and Board, Robert D., to Hewlett-Packard Company. Ion source. 3,766,396, 10-16-73, Cl. 250-427.000.

Krugler, Allen D., Jr., to Ford Motor Company. Actuator for an antiskid brake system. 3,726,568, 4-10-73, Cl. 303-21.00f.

Kruglinski, Frank A.: *See—*
Miller, Joseph A.; Kruglinski, Frank A.; and Freakes, Anthony, 3,769,777.

Krugman, Saul; Giles, Joan P.; and Hammond, Jack, to United States of America, Army. Hepatites vaccine. 3,735,004, 5-22-73, Cl. 424-89.000.

Kruhn, Jurgen, to Licentia Patent-Verwaltungs-G.m.b.H. Recording and/or playback device having tape-type record carriers which are wound on a reel. 3,744,736, 7-10-73, Cl. 242-195.000.

Kruiswijk, Franciscus J.: *See—*
Van Der Waaij, Dirk; Erkelens, Hendrik J.; Bossers, Pieter A.; and Kruiswijk, Franciscus J., 3,777,736.

Kruithof, Albert: *See—*
Kobus, Stanislas; Kruithof, Albert; and Viellevoyl, Lucien Nicolas Leon, 3,770,899.

Kruklitis, Karlis, to Burroughs Corporation. Multiple transducer magnetic head. 3,758,727, 9-11-73, Cl. 179-100.20c.

Krukowski, Richard. Smoke meter. 3,711,210, 1-16-73, Cl. 356-207.000.

Krul Leendert Gerdus: *See—*
Van Overbeek, Adrianus Johannes Wilhelmus Mari; and Krul Leendert Gerdus, 3,745,406.

Krulee, Alfred W., to Norris Industries, Inc. Combined charging and pressure indicating device. 3,777,569, 12-11-73, Cl. 73-389.000.

Krulikoski, Stanley J., Jr.; and Dawson, Juan C. Method and apparatus for measuring parallax between points on stero images using a fourier transform hologram of one of the images. 3,719,420, 3-6-73, Cl. 356-2.000.

Krull, Irwin H.: *See—*
Cosgrove, Richard E.; Krull, Irwin H.; and Mask, Charles A., 3,715,297.

Krull, Irwin H.; and Martin, Donald N., to Beckman Instruments, Inc. Polarographic sensor and membrane therefor. 3,718,563, 2-27-73, Cl. 204-195.00p.

Krulls, Gerd E.; and Ruth, William H., to General Electric Company. Brush replacement device. 3,710,478, 1-16-73, Cl. 29-205.00r.

Krumbiegel, Peter; and Schmidt, Heinz, to Deutsche akademie der Wissenschaften Zu Berlin. Liquid scintillation mixtures containing





perdeuterized solvent and/or solubility increasing agent. Kruse, Friedel; Wahle, Gunter; Erdmann, Otto; and Rudesinat, Willy

perdeuterized solvent and/or solubility increasing agent. 3,711,421, 1116-73, Cl. 252-408.000.
Krumkalns, Eriks V.; and Taylor, Harold Mellon, to Lilly, Eli, and Company. Tobacco sucker control. 3,744,988, 7-10-73, Cl. 71-78.000.
Krumm, Andrew G.: *See—*
Droke, Darrell W.; Ochampaugh, Donald R.; and Krumm, Andrew G., 3,776,211.
Krumm, Charles G.: *See—*
Heflich, Henry G.; and Krumm, Charles G., 3,736,118.
Napor, Carl A.; and Krumm, Charles G., 3,712,553.
Napor, Carl A.; and Krumm, Charles G., 3,741,150.
Krumm, Eugene D.: *See—*
Bakker, Lubertus; and Krumm, Eugene D., 3,749,029.
Krumm, Eugene D., to Air Preheater Company Inc., The. Controls for incinerator. 3,724,401, 4-3-73, Cl. 110-8.00r.
Krumm, Eugene D., to Air Preheater Company, Inc., The. Thermal waste converter. 3,766,866, 10-23-73, Cl. 110-8.00r.
Krumme, John F.: *See—*
Busch, Paul F.; and Krumme, John F., 3,722,652.
Krumme, John Frederick; and Ford, Donald Thomas, to Andvari Incorporated. Apparatus for continuous vacuum deposition. 3,735,728, 5-29-73, Cl. 118-49.000.
Krummel, Harry Karl: *See—*
Connor, Daniel S.; and Krummel, Harry Karl, 3,758,420.
Krump, Robert C.: *See—*
Donnelly, Donald E.; and Krump, Robert C., 3,713,766.
Krumreich, Charles Louis: *See—*
Hardesty, Edwin Charles; Krumreich, Charles Louis; Mulbarger, Albert Eugene, Jr.; and Walden, Stephen William, 3,761,869.
Krumrey, Raymond D. Perforating device. 3,733,466, 5-15-73, Cl. 235-61.60e.
Krumsick, Uwe; and Holscher, Wilfried, to Rheinstahl Aktiengesellschaft. Device for use with land vehicles to make the same amphibious. 3,750,613, 8-7-73, Cl. 115-.50r.
Krumwiede, Leland J., to Nomeco Building Specialties, Inc. Prefabricated walls. 3,736,715, 6-5-73, Cl. 52-309.000.
Krun Corporation: *See—*
Faber, George E.; and Kates, Frank F., 3,779,013.
Kruner, Rolf; Thillen, Hans; and Grunwald, Gerhard. Rod entry guide. 3,777,964, 12-11-73, Cl. 226-183.000.
Kruper, Andrew P.; Reeves, John R.; and Vercellotti, Leonard C., to Westinghouse Electric Corporation. Self-powered wireless intrusion alarm system. 3,781,836, 12-25-73, Cl. 340-224.000.
Krupka, Dan Charles: *See—*
Chen, Yen-Sun; Fukui, Hatsuaki; Gordon, Eugene Irving; Krupka, Dan Charles; and Rowen, John Howard, 3,771,008.
Krupke, Richard V. Unitary dual-wrench tool. 3,731,559, 5-8-73, Cl. 81-3.00f.
Krupp, Myron J.: *See—*
Voskuil, Donald J.; Knudtson, John P.; and Krupp, Myron J., 3,716,389.
Krupp, Roy Stephen; and Tomko, Lawrence Andrew, to Bell Telephone Laboratories, Incorporated. Electrically controllable steering arrangement for magnetic single-wall domain propagation paths. 3,723,985, 3-27-73, Cl. 340-174.0tf.
Krupp, Roy Stephen; and Tomko, Lawrence Andrew, to Bell Telephone Laboratories, Incorporated. Time division multiplex switching system utilizing all time division techniques. 3,740,480, 6-19-73, Cl. 179-15.0aq.
Krupp, Roy Stephen; and Tomko, Lawrence Andrew, to Bell Telephone Laboratories, Incorporated. Time coded signalling technique in writing control memories of time slot interchangers and the like. 3,743,788, 7-3-73, Cl. 179-15.0aq.
Krupp, Roy Stephen, to Bell Telephone Laboratories, Incorporated. Busy bit for time division multiplex signals to reduce signal processing time. 3,743,789, 7-3-73, Cl. 179-15.0by.
Krupp, Roy Stephen; and Tomko, Lawrence Andrew, to Bell Telephone Laboratories, Incorporated. Dynamically switching time slot interchanger. 3,770,895, 11-6-73, Cl. 179-15.0aq.
Krusch, Kurt; and Zimmermann, Hubert, to Allstar Verbrauchsguter GmbH & Co. KG. Brush with rotatable base. 3,751,752, 8-14-73, Cl. 15-231.000.
Krusche, Erwin: *See—*
Engelhardt, Friedrich; Heid, Christian; Gunzert, Willi; Krusche, Erwin; and Meyer, Artur, 3,716,525.
Krusche, Georg: *See—*
Reicheneder, Franz; Dury, Karl; Krusche, Georg; and Burger, Heinz, 3,746,726.
Krusche, Kurt R., to Allstar Verbrauchsguter GmbH & Co., KG. Textile brush. 3,750,224, 8-7-73, Cl. 15-171.000.
Kruschinski, John H.: *See—*
Henkel, Robert N.; and Kruschinski, John H., 3,778,404.
Kruse, David C.: *See—*
Lancy, Leslie E.; and Kruse, David C., 3,764,503.
Kruse, Erwin, to Peddinghaus, Werner. Profile steel cutter. 3,750,509, 8-7-73, Cl. 83-198.000.
Kruse, Flemming: *See—*
Damgaard-Iversen, Jorgen; and Kruse, Flemming, 3,776,688.
Kruse, Friedel; Wahle, Gunter; Erdmann, Otto; and Rudszinat, Willy, to Hanni-Werke Korber & Co. KG. Method and apparatus for transporting cigarette packs or the like. 3,721,340, 3-20-73, Cl. 209-74.00r.
Kruse, Friedel; Wahle, Gunter; Erdmann, Otto; and Rudszinal, Willy, to Hauni-Werke Korber & Co., KG. Method and machine for the making of cigarette packs or the like. 3,735,767, 5-29-73, Cl. 131-25.000.
Kruse, Friedel; Wahle, Gunter; Erdmann, Otto; and Rudszinat, Willy, to Hauni-Werke Korber & Co. KG. Method and machine for the production of cigarette packs or the like. 3,750,676, 8-7-73, Cl. 131-25.000.
Kruse, Friedel; Wahle, Gunter; Rudszinat, Willy; and Erdmann, Otto, to Hauni-Werke Korber & Co., KG. Apparatus for severing sheet-like materials in machines for the processing of smokers product. 3,757,624, 9-11-73, Cl. 83-271.000.
Kruse, Howard W.; Breslow, Bertram A.; and Szypulski, Raymond W., to United States of America, Navy. Binderless cast photoflash compositions. 3,726,728, 4-10-73, Cl. 149-17.000.
Kruse, Howard W., to United States of America, Navy. Flare composition comprising dry blend of metal fuel and eutectic mixture of oxidizer salts. 3,729,351, 4-24-73, Cl. 149-41.000.
Kruse, Hubert: *See—*
Spietschka, Ernst; Ische, Friedrich; and Kruse, Hubert, 3,767,357.
Kruse, Jurgen M.: *See—*
Elwell, Robert M.; Kruse, Jurgen M.; and Michelove, Leon, 3,738,858.
Kruse, Marvin A., to Littlefuse, Inc. Waterproof door-operated switch assembly. 3,725,626, 4-3-73, Cl. 200-168.00g.
Kruse, Paul W.; and Schmit, Joseph L., to Honeywell Inc. Process for preparing mercury cadmium telluride. 3,723,190, 3-27-73, Cl. 148-1.500.
Kruse, Ronald J.: *See—*
Keeshin, Ira A.; and Kruse, Ronald J., 3,748,437.
Kruse, Stanley L. Doweling jig. 3,708,237, 1-2-73, Cl. 408-108.000.
Kruse, Walter M., to Hercules Incorporated. Tetraneopentyltitanium. 3,712,874, 1-23-73, Cl. 260-429.500.
Kruse, Walter M., to Hercules Incorporated. Tetraneopenthyltitanium and use as polymerization catalyst. 3,773,742, 11-20-73, Cl. 260-94.90b.
Kruse, William E.: *See—*
Godley, Augustus P.; and Kruse, William E., 3,779,025.
Krusko, Evelyn H., to Scott Paper Company. Disposable diapers. 3,721,242, 3-20-73, Cl. 128-287.000.
Krusling, Kenneth R.: *See—*
Runge, John N.; and Krusling, Kenneth R., 3,716,756.
Kruszynski, Stanislaw, to Bolex International SA. Electric driving apparatus. 3,781,618, 12-25-73, Cl. 318-265.000.
Krut, Charles F. Collapsible garment hanger. 3,719,312, 3-6-73, Cl. 223-94.000.
Krutogolov, Grigory Vasilievich: *See—*
Funberg, Izrail Leibovich; Nikolaev, Petr Petrovich; Gora, Viktor Epifanovich; Gulenko, Nikolai Nikolaevich; Papko, Viktor Ivanovich; Rozhkov, Nikolai Alexandrovich; Kats, Elya Isaevich; and Krutogolov, Grigory Vasilievich, 3,710,869.
Krutsinger, Jack K.: *See—*
Munson, Robert E.; and Krutsinger, Jack K., 3,713,162.
Munson, Robert E.; Krutsinger, Jack K.; and Polson, Jerry H., 3,713,166.
Krutz, Kenneth W. Elevating skipper chair for boats. 3,736,897, 6-5-73, Cl. 114-.500.
Krutz, Ronald L.; and Villella, Thomas J., to Gulf Research & Development Company. Data accumulation and transmission system for use between remote locations and a central location. 3,731,277, 5-1-73, Cl. 340-163.00r.
Krutz, Ronald L.; and Villella, Thomas J., to Gulf Research & Development Company. Emergency power switching circuit for counters. 3,757,131, 9-4-73, Cl. 307-64.000.
Kruuger, Evgeny Adolfovich: *See—*
Maslenok, Boris Arkadievich; Zlobin, Viktor Grigorievich; Khegai, Anatoly Sergeevich; Nikolaev, Vladimir Petrovich; and Kruuger, Evgeny Adolfovich, 3,778,345.
Kryczko, Henry: *See—*
Staschke, Marvin A.; and Kryczko, Henry, 3,712,052.
Kryczun, Alfred: *See—*
Weigel, Horst; Wilbertz, Otto; Manshausen, Theo; and Kryczun, Alfred, 3,734,414.
Kryczun, Alfred; and Manshausen, Theo, to Klockner-Humboldt-Deutz Aktiengesellschaft. Kiln with overlying beds for drying, burning and sintering of granular and/or sludge-type material. 3,754,742, 8-28-73, Cl. 432-95.000.
Kryder, Robert Allen, to RCA Corporation. Automatic brightness control for image intensifier tube. 3,711,720, 1-16-73, Cl. 250-213.0vt.
Krygier, Dennis A.: *See—*
Forker, Ray B., Jr.; Kozlowski, Theodore R.; Krygier, Dennis A.; and Panzarino, Joseph N., 3,773,489.
Krylov, Constantin A. Device for disengaging and recovering fishing gear. 3,735,521, 5-29-73, Cl. 43-17.200.



Krylov, Jury Petrovich: *See—*
Krolikov, Boris Zakharovich; Krylov, Jury Petrovich; and Brod, Ilya Iosifovich, 3,722,466.
Krolikov, Boris Zakharovich; Krylov, Jury Petrovich; Brod, Ilya Iosifovich; and Pripshtein, Boris Isaeivich, 3,735,437.
Krylow, Konstanty E.; and Reimer, William A., to GTE Automatic Electric Laboratories Incorporated. Frontal heat exchanger for racks of heat dissipating apparatus. 3,730,264, 5-1-73, Cl. 165-128.000.
Krynicki, Witold. Irrigation system with pulsating flow. 3,747,858, 7-24-73, Cl. 239-99.000.
Krynski, John E.; Smith, William C.; and Anderson, Kenneth A., to Ametek, Inc. Sluice means and rotatable nozzles. 3,754,659, 8-28-73, Cl. 210-334.000.
Krysiuk, Genadij; and Meier, Johann H., to International Business Machines Corporation. Position controlling system. 3,741,357, 6-26-73, Cl. 192-12.00d.
Kryszek, Albert A. Automatic restart circuit for knitting machines and the like. 3,735,147, 5-22-73, Cl. 307-119.000.
Kryter, Karl D. Storage case for magnetic tape cassettes, their boxes and the like. 3,756,383, 9-4-73, Cl. 206-1.00r.
Krywult, Jerzy: *See—*
Gawlikowicz, Jan J.; Krywult, Jerzy; Wusatowski, Roman; Garczynski, Jozef; Makowski, Aleksander; and Sikora, Leopold, 3,718,026.
Kryznoski, Louis F., to Atlantic Products Corporation. Travel kit. 3,768,531, 10-30-73, Cl. 150-32.500.
Krzyzanowski, Robert A., to Hoerner-Waldorf Corporation. Product encircling sleeve. 3,763,522, 10-9-73, Cl. 24-17.00b.
Ksieski, Kazimierz T., to Parker-Hannifin Corporation. Omega seal. 3,758,123, 9-11-73, Cl. 277-206.000.
KTC-Verpackungen GmbH: *See—*
Knoner, Joachim H., 3,709,760.
Ku, Daniel Y. C., to Gulf Research & Development Company. Process for preparing a monoalkyl aromatic. 3,778,415, 12-11-73, Cl. 260-67.20t.
Ku, Yuoh; and Simon, Paul W., to Allied Chemical Corporation. Ruminant feed supplement. 3,751,262, 8-7-73, Cl. 99-2.0nd.
Kubacki, Edward Frank, to American Can Company. Machine for performing an operation on articles. 3,714,854, 2-6-73, Cl. 82-101.00r.
Kubacki, Edward Frank; and Timmins, William Dean, to American Can Company. Method and apparatus for beading, necking-in and flanging metal can bodies. 3,765,351, 10-16-73, Cl. 113-120.0aa.
Kubat, Michael S.: *See—*
Hawes, Frederick L.; and Kubat, Michael S., 3,760,544.
Kubata, Yasuharu: *See—*
Tagawa, Susumu; and Kubata, Yasuharu, 3,754,097.
Kubatec Kunststoff- und Bautechnik AG: *See—*
Brandenberger, Ernst, 3,738,288.
Kubek, Daniel J.: *See—*
Somekh, George S.; Kubek, Daniel J.; and Kosseim, Alexander J., 3,714,033.
Kubek, Daniel John: *See—*
Kosseim, Alexander Jean-Marie; Kubek, Daniel John; and Somekh, George Solomon, 3,714,034.
Kubek, Daniel John; Kosseim, Alexander Jean-Marie; and Somekh, George Solomon, to Union Carbide Corporation. Process for the separation of aromatic hydrocarbons from a mixed hydrocarbon feedstock. 3,779,904, 12-18-73, Cl. 208-333.000.
Kubek, John, 50% to Sides, Maxweldon. Landing gear strut-to-ski socket connection. 3,768,758, 10-30-73, Cl. 244-108.000.
Kubeth, Helmut: *See—*
Koppern, Heinz; Kubeth, Helmut; and Williams, Lynn A., 3,753,890.
Kubiak, Tadeusz; and Jagiello, Jan, to Lodzkie Zaklady Aparatury Elektrycznej. Overcurrent release of electric switch in particular of switch breaker. 3,761,854, 9-25-73, Cl. 337-71.000.
Kubiatowicz, David O.: *See—*
Lindsay, Thomas W.; and Kubiatowicz, David O., 3,758,678.
Kubicek, Donald H., to Phillips Petroleum Company. Spiro compounds. 3,728,404, 4-17-73, Cl. 260-648.00d.
Kubicek, Donald H., to Phillips Petroleum Company. Process for the preparation of 1,2-bis(3-cyclohexen-1-yl)ethylene using base-treated olefin disproportionation catalysts. 3,728,407, 4-17-73, Cl. 260-666.0py.
Kubicek, Louis A., to Burr-Ban Tool Service Company. Extension tool holder. 3,761,104, 9-25-73, Cl. 279-19.700.
Kubicek, Louis A., to Burr-Ban Tool Service Company. Tool holder. 3,765,790, 10-16-73, Cl. 408-226.000.
Kubick, Richard J., to De Wiant Corporation, mesne. Method of forming protective coatings on ferrous metal and the resulting article. 3,721,534, 3-20-73, Cl. 29-195.000.
Kubicka, Rudolf: *See—*
Aigenson, Alexandr Sergeevich; Fryazinov, Vladimir Vasilievich; Malikov, Fatkulla Khairullovich; Sabadash, Julia Sergeevna,; Akimov, Vladimir Stefanovich; Dobrozrakova, Natalia Ivanovna; Berg, Genrikh Arturovich; Ezhov, Boris Mikhailovich; Vorms, Georgy Alonsovich; Kubicka, Rudolf; Yaroslav, Veprek; and Cir, Yaroslav, 3,714,025.
Kubik, Peter Steve: *See—*
Hagelbarger, David William; and Kubik, Peter Steve, 3,780,267.
Kubik, Philip A. Multiple pressure fluid system. 3,713,291, 1-30-73, Cl. 60-52.0vs.
Kubik, Philip A. Fluid system. 3,744,375, 7-10-73, Cl. 91-411.00a.
Kubikowski, Piotr: *See—*
Biniecki, Stanislaw; Kubikowski, Piotr; Kostowski, Wojciech; and Nantka-Namirski, Pawel, 3,758,485.
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Kubisch, Hans-Joachim; Seifert, Richard; and Thorn, Walter, to Motoren- und Turbinen-Union Friedrichshafen GmbH. Cylinder crankcase assembly for dual crankshaft multi-cylinder engine. 3,768,252, 10-30-73, Cl. 60-97.00r.
Kubisiak, Helmut, to Exatest Messtechnik GmbH. Method and device for photoelectrically scanning an object by means of an optical beam. 3,710,128, 1-9-73, Cl. 250-219.0wd.
Kubisiak, Helmut; and Sorgenicht, Dietrich, to Exatest Messtechnik GmbH. Measuring the diameter of shaped object and correcting measurement for slight displacements of object along either of two orthogonal optic axes. 3,761,182, 9-25-73, Cl. 356-160.000.
Kubitzek, Alfred: *See—*
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Borowski, Kurt; and Kubitzek, Alfred, 3,727,527.
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Kubo , Iwao. Feed mechanism for coil winders. 3,719,333, 3-6-73, Cl. 242-158.400.
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Kubo, Kakuzo, to Tokyo Seimitsu Co., Ltd. Automatic sizing device for measuring apparatus. 3,775,910, 12-4-73, Cl. 51-165.770.
Kubo, Keishi; Sakai, Kiyoshi; Sato, Takashi; and Nakamura, Itaru, to Ricoh Co., Ltd. Heat-sensitive stencil sheet. 3,715,263, 2-6-73, Cl. 161-33.000.
Kubo, Keishi; Sakai, Kiyoshi; and Sato, Takashi, to Ricoh Co., Ltd. Heat-sensitive stencil sheet. 3,715,267, 2-6-73, Cl. 161-165.000.
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Kubo, Masaharu: *See—*
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Kubo, Mitsuo; and Nakajima, Shunichi, to Tokyo Shibaura Electric Co., Ltd. Apparatus for succesively taking out papers from a stack thereof. 3,720,409, 3-13-73, Cl. 271-29.000.
Kubo, Mitsuo; Nakajima, Shunichi; and Horino, Yokohama, to Tokyo Shibaura Electric Co., Ltd. Apparatus for fastening a superposed mass of sheet like materials. 3,766,708, 10-23-73, Cl. 53-124.00d.
Kubo, Moritada, to Tokyo Shibaura Electric Co., Ltd. Conveyor type transport device. 3,712,234, 1-23-73, Cl. 104-25.000.
Kubo, Moritada, to Tokyo Shibaura Electric Co., Ltd. Apparatus for generating pulse trains with predetermined adjecent pulse spacing. 3,713,026, 1-23-73, Cl. 235-152.000.
Kubo, Moritada; Asano, Kuniji; and Ohashi, Hiromichi, to Tokyo Shibaura Electric Co., Ltd. Sun sensing system for a flying body. 3,717,413, 2-20-73, Cl. 356-152.000.
Kubo, Moritada; and Shinomiya, Yasuo, to Tokyo Shibaura Electric Co., Ltd. Dual heads with selective data dependent energization. 3,717,856, 2-20-73, Cl. 340-174.10g.
Kubo, Moritada. Control system for the travel of a goods trolley. 3,738,443, 6-12-73, Cl. 180-98.000.



Kubo, Moritada; and Arimura, Yoshiaki, to Tokyo Shibaura Electric Co., Ltd. Apparatus for inspecting the appearance of products



Kubota, Masaichi; Yamamura, Taro; Kawai, Atsushi; Katsuyama, Tobacco sucker control. 3,744,988, 7-10-73, Cl. 71-78.000.
Topilin, Valentin Vasilievich; Perepelitsa, Igor Vasilievich; Kudinov, Vladimir Mikhailovich; Pushkarev, Petr Petrovich; Trofimov,

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Kubo, Moritada; Asano, Kuniji; and Obama, Masao, to Tokyo Shibaura Electric Co., Ltd. Noncontact electric apparatus for magnetically measuring strains. 3,742,357, 6-26-73, Cl. 324-34.0st.
Kubo, Moritada; Asano, Kuniji; and Kusakabe, Takashi, to Tokyo Shibaura Electric Co., Ltd. Method and apparatus for controlling metal strip shape. 3,756,050, 9-4-73, Cl. 72-9.000.
Kubo, Moritada; and Takahashi, Yukiharu, to Tokyo Shibaura Electric Co., Ltd. Rapid feed control for an electric step motor. 3,766,462, 10-16-73, Cl. 318-696.000.
Kubo, Moritada; and Takahashi, Yukiharu, to Tokyo Shibaura Electric Co., Ltd. Optimized P.I.D. controller. 3,781,626, 12-25-73, Cl. 318-561.000.
Kubo, Naoshi: *See—*
Inoue, Giichi; Kubo, Naoshi; and Hatano, Shogo, 3,738,115.
Kubo, Noriyoshi: *See—*
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Kubo, Seitoku; Hashimoto, Mashanao; and Hayashi, Chihiro, to Toyota Jidosha Kogyo Kabushiki Kaisha. Control system for an automatic transmission. 3,738,196, 6-12-73, Cl. 74-866.000.
Kubo, Seitoku; Mori, Takakazu; Akashi, Teruo; and Hayashi, Chihiro, to Toyota Jidosha Kogyo Kabushiki Kaisha. Shift control system for automatic transmissions. 3,738,199, 6-12-73, Cl. 74-869.000.
Kubo, Seitoku; Mori, Takakazu; and Hayashi, Chihiro, to Toyota Jidosha Kogyo Kabushiki Kaisha. Shift control system for engine mounted automobile automatic transmissions. 3,744,347, 7-10-73, Cl. 74-866.000.
Kubo, Shuji; and Naito, Hiroshi, to Matsushita Electric Industrial Co., Ltd. Target having a mosaic made up of a plurality of P-N junction elements. 3,778,657, 12-11-73, Cl. 313-65.00a.
Kubo, Takeaki: *See—*
Kitanosono, Hidehiro; and Kubo, Takeaki, 3,762,195.
Kubo, Tokuji: *See—*
Sakata, Haruo; Tanimura, Hiroshi; Kaneko, Ryuichi; Kusaka, Hideo; Sato, Eiichi; and Kubo, Tokuji, 3,751,581.
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Kubo, Tomoichi; Itazu, Masakatsu; and Yamashita, Hirofumi, to Nippon Electric Company, Limited. Cathode ray tube having a glass envelope counted with crystallized glass. 3,758,802, 9-11-73, Cl. 313-64.000.
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Suda, Hideaki; Kanda, Tatsuo; Murata, Yoshiro; Hida, Hiromu; and Kubo, Toshio, 3,764,664.
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Ikeda, Katsushige; Hayashi, Isao; Katok, Takashi; Takahashi, Toshiro; Nagano, Toshihiro; and Wada, Kenji, 3,775,266.
Nagano, Toshihiro; Suzuki, Matsuo; Hayashi, Isao; Kato, Takashi; Mochizuki, Hiroshi; Aoshima, Yasuo; Shibata, Kouji; and Takahashi, Toshiro, 3,711,313.
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Kubota, Eishi: *See—*
Takemura, Satoshi; Yoshino, Eiichi; Honda, Toshio; Kubota, Eishi; and Fukuura, Yukio, 3,723,239.
Kubota, Hirokazu, to Matsushita Electric Industrial Co., Ltd. Tire. 3,729,041, 4-24-73, Cl. 152-353.000.
Kubota, Ichiro, to Kabushiki Kaisha Komatsu Seisakusho. Interlocking device for presses and transferfeeders. 3,774,740, 11-27-73, Cl. 192-150.000.
Kubota, Koji: *See—*
Okumura, Shinji; Yoshinaga, Fumihiro; Kubota, Koji; and Kamijo, Hirotaka, 3,716,453.
Kubota, Koji; Kamijo, Hirotaka; Onoda, Takiko; Yoshinaga, Fumihiro; and Okumura, Shinji, to Ajinomoto Co., Inc. Method of producing L-arginine by microorganism. 3,723,249, 3-27-73, Cl. 195-47.000.
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Shimizu, Noboro; Yoshida, Sadao; Kubota, Kunihiro; Kobayashi, Daizo; and Ohara, Takashi, 3,776,947.
Kubota, Masaichi; Yamamura, Taro; Kawai, Atsushi; Katsuyama, Takehiro; Ikeda, Masamichi; and Omoto, Seiichi, to Mitsubishi Rayon Company Limited. Highly crimped polynosic fibers. 3,741,862, 6-26-73, Cl. 161-173.000.
Kubota, Masatoshi: *See—*
Takami, Kazushi; Koga, Yoshiro; Ide, Yoichi; Kubota, Masatoshi; Hirasawa, Yoshiro; Matsumoto, Noriki; and Miyake, Takao, 3,760,235.
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Kubota Tekko Kabushiki Kaisha (Kubota, Ltd.): *See—*
Hino, Masamichi; and Yoneda, Rinosuke, 3,739,866.
Hino, Masamichi; and Hara, Iwau, 3,769,498.
Kubota, Tomio: *See—*
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Kurokawa, Hiromichi; and Kubota, Yasuharu, 3,754,096.
Kurolawa, Hiromichi; and Kubota, Yasuharu, 3,770,881.
Kubota, Yasuharu, to Sony Corporation. Single tube color television camera with indexing means. 3,710,013, 1-9-73, Cl. 178-5.4st.
Kubota, Yasuharu; and Tagawa, Susumu, to Sony Corporation. Transformer. 3,717,833, 2-20-73, Cl. 336-69.000.
Kubota, Yasuharu, to Sony Corporation. Recording and reproducing color picture information. 3,728,477, 4-17-73, Cl. 178-5.4cd.
Kubota, Yasuharu, to Sony Corporation. Image pickup tube. 3,740,458, 6-19-73, Cl. 178-5.4st.
Kubota, Yasuharu, to Sony Corporation. Television camera. 3,746,779, 7-17-73, Cl. 178-54.0st.
Kubota, Yasuharu, to Sony Corporation. Image pickup tube. 3,772,552, 11-13-73, Cl. 313-65.00r.
Kubota, Yausharu; and Shiono, Ryuji, to Sony Corporation. Color television camera. 3,723,639, 3-27-73, Cl. 178-5.4st.
Kubota, Yohiro: *See—*
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Kubota, Yoshiaki: *See—*
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Kubotera, Haruo; Nakaoka, Kazuhide; Araki, Kenji; and Kurihara, Takao, to Nippon Kokan Kabushiki Kaisha. Method and apparatus for water quenching metal strips. 3,724,826, 4-3-73, Cl. 266-3.00r.
Kubozoe, Morioki: *See—*
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Kucera, Clare H., to Dow Chemical Company, The. Acid composition and use thereof in treating fluid-bearing geologic formations. 3,779,915, 12-18-73, Cl. 252-8.55c.
Kucera, Jaromir, to Zellweger AG. Method of and apparatus for generating signals. 3,778,726, 12-11-73, Cl. 328-223.000.
Kucere, Clare H.: *See—*
Hill, Donald G.; Smith, Charles F.; and Kucere, Clare H., 3,749,173.
Kuch, Heinz; and Hoffmann, Irmgard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 1,5-Benzodiazepines and process for preparing them. 3,718,645, 2-27-73, Cl. 260-239.30b.
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Kuchar, William E.: *See—*
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Kuchar, William E.; and Mauk, Robert W., to Whitney, W. A., Corporation. Machine for intermittently feeding elongated articles. 3,735,907, 5-29-73, Cl. 226-150.000.
Kucharczyk, Norbert: *See—*
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Kucharski, Lawrence, Jr., to Bourns, Inc. Multiturn adjustment potentiometer ratcheting mechanism. 3,768,325, 10-30-73, Cl. 74-405.000.
Kuchenmeister, Rolf: *See—*
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Kucherer, Harvey D. Device for encapsulating a radioactive resin-water slurry. 3,749,917, 7-31-73, Cl. 250-430.000.
Kucherova, Natalya Fedorovna: *See—*
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Kuchling, Peter Mathis: *See—*
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Kuchmak, Myron; Williams, Jackie H.; Taylor, Linnard; and Witter, Robert F., to United States of America, Health Education and Welfare. Alcoholic precipitation and 1000X centrifugation preparation of hypercholesterolemic and hypertriglyceridemic sera as liid determination control. 3,764,556, 10-9-73, Cl. 252-408.000.
Kuchta, August Dennis, to Du Pont de Nemours, E. I., and Company. Photopolymerizable elements of low optical density containing thickeners with discrete, orderly orientation. 3,754,920, 8-28-73, Cl. 96-87.00r.
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Ritchie, David Alan; and Kuciejcik, James S., 3,758,274.
Kuck, Ewald D. Apparatus for erecting concrete structures. 3,778,204, 12-11-73, Cl. 425-63.000.
Kuck, Helmut, to Windmoller & Holscher. Apparatus for collecting and withdrawing stacks of bags delivered by a depositing cylinder. 3,748,973, 7-31-73, Cl. 93-93.0dp.
Kuck, John H.; and McCord, William M., to United States of America, Navy. Pulse doppler fuze. 3,732,564, 5-8-73, Cl. 343-7.0pf.
Kuck, Kermit T., to Monarch Machine Tool Company, The. Travel limit mechanism and method. 3,711,212, 1-16-73, Cl. 408-3.000.
Kuck, Lloyd L., to General Motors Corporation. Insert for setting armature shaft end position. 3,774,981, 11-27-73, Cl. 308-166.000.
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Kuckhermann, Gustav, to Windmoller & Holscher. Stacking apparatus for sheet articles fed in overlapping formation on a continuously moving conveyor towards a stacking station. 3,724,840, 4-3-73, Cl. 271-46.000.
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Kudale, Jagannath M.; and Lumby, Donovan H., to Land O'Lakes, Inc. Injecting apparatus. 3,739,713, 6-19-73, Cl. 99-533.000.
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Kudasch, George; and Wallischeck, Karl H., to United Aircraft Corporation. Helicopter blade pitch lock. 3,765,794, 10-16-73, Cl. 416-143.000.
Kudelski, Stefan. Magnetic tape recorder with constant tape tension. 3,734,368, 5-22-73, Cl. 226-44.000.
Kudelski, Stefan. Retaining means for adjustably securing the head of a magnetic recording-reproducing means to a supporting cover platc. 3,744,804, 7-10-73, Cl. 274-4.00a.
Kuderna, Jerome C., Jr.: *See—*
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Kudirka, Alvydas A.; Burley, Elliott L.; and Moen, Robert H., to General Electric Company. Flow distribution apparatus. 3,720,046, 3-13-73, Cl. 55-414.000.
Kudlacik, Henry W., to General Electric Company. Field excitation circuit for a dynamoelectric machine. 3,758,842, 9-11-73, Cl. 322-25.000.
Kudlaty, Walter J., to Marvel Engineering Company. Bi-directional check valve. 3,729,019, 4-24-73, Cl. 137-493.600.
Kudman, Irwin; and Schmelz, Carl Michael, to RCA Corporation. Protected thermoelectric elements and method of protecting same. 3,737,345, 6-5-73, Cl. 136-238.000.
Kudo, Masao; Okita, Akihiko; Yoshimura, Kenziro; and Niwa, Nobuo, to Sumitomo Metal Industries, Ltd. and Ajikawa Iron Works & Construction Company Limited. Tube coating apparatus. 3,722,463, 3-27-73, Cl. 118-6.000.
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Kudoh, Tetsuo; and Koide, Hideo, to Rythm Watch Company, Limited. Timing switch mechanism with manual adjustable cam. 3,737,598, 6-5-73, Cl. 200-38.00r.
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Kuechken, John A., to International Telephone and Telegraph Corporation. Raster scan antenna. 3,766,558, 10-16-73, Cl. 343-100.0sa.
Kuecken, John A., to Radionics, Incorporated. Ground independent antenna. 3,750,181, 7-31-73, Cl. 343-790.000.
Kuecken, John A., to International Telephone and Telegraph Corporation. Super-balanced feed-through dipole antenna. 3,750,184, 7-31-73, Cl. 343-792.000.
Kuecken, John A., to International Telephone and Telegraph Corporation. Mobile antenna mounting assembly. 3,760,423, 9-18-73, Cl. 343-715.000.
Kuehl, Donald K.; Nutter, Harry A.; and Smart, Raymond C., to United Aircraft Corporation. Reactor seal. 3,731,651, 5-8-73, Cl. 118-49.500.
Kuehl, Donald Roy: *See—*
Cook, Russell John; Kuehl, Donald Roy; and Mueller, David Charles, 3,730,738.
Kuehl, Guenther L.; and Depietro, Alfonso, to Guenther Systems, Inc. Cargo transporting conveyor apparatus. 3,756,378, 9-4-73, Cl. 198-154.000.
Kuehl, Guenther L.; and Depietro, Alfonso, to Guenther Systems, Inc. Platform assembly for multiple chain transport device. 3,770,106, 11-6-73, Cl. 198-154.000.
Kuehl, Paul B.: *See—*
Gumbleton, James J.; and Kuehl, Paul B., 3,749,071.
Kuehl, Paul B., to General Motors Corporation. Exhaust gas recirculation control valve. 3,756,210, 9-4-73, Cl. 123-119.00a.
Kuehn, Donald E.; and Lyon, John Keith, to TRW Inc. Loop fastener gun assembly. 3,776,444, 12-4-73, Cl. 227-130.000.
Kuehn, Erich: *See—*
Feltzin, Joseph; Kuehn, Erich; and Rudkin, George O., Jr., 3,709,684.
Feltzin, Joseph; and Kuehn, Erich, 3,754,909.
Feltzin, Joseph; and Kuehn, Erich, 3,764,546.
Kuehn, Erich, to Atlas Chemical Industries, Inc. Flame retardant and intumescent compositions. 3,728,138, 4-17-73, Cl. 106-15.0fp.
Kuehnast, Irving. Lightning flash-to-bang detector. 3,772,594, 11-13-73, Cl. 324-72.000.
Kuehne, Otto R. Combination filter and cigarette holder. 3,771,534, 11-13-73, Cl. 131-187.000.
Kuehnemann, Karl; and Turban, Josef, to Siemens Aktiengesellschaft. Circuit arrangement for the detection of faults or





points on inhomogeneous electric lines or cables according to the. Kuhajek, Eugene J.: *See—*

points on inhomogeneous electric lines or cables according to the impulse reflection method utilizing an adjustable balancing network. 3,10,240, 1-9-73, Cl. 324-52.000.
Kuehnle, Manfred R., to Audac Corporation. Data card terminal. 3,743,817, 7-3-73, Cl. 235-61.11j.
Kuellgren, Ove Allan Valentin, to Alfa-Laval AB. Sludge centrifuge. 3,777,972, 12-11-73, Cl. 233-20.00a.
Kuempel, John R.: *See—*
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Kueneker, William: *See—*
Holstein, Alvin W.; Short, William H.; and Kueneker, William, 3,757,669.
Kuenemund, Friedrich, to Siemens Aktiengesellschaft. Piezoelectric filter having resonators formed between adjacent interference locations. 3,781,717, 12-25-73, Cl. 333-6.000.
Kuener, Otto: *See—*
Balsam, Gunter; and Kuener, Otto, 3,713,980.
Kuensmo, Rodger J. Carriers, utilizing wheel supports, hold downs and loaders for two wheel vehicles carried on cars, trucks, and other vehicles. 3,744,689, 7-10-73, Cl. 224-42.03b.
Kuenstler, Hans Georg: *See—*
Civardi, Frank Peter; and Kuenstler, Hans Georg, 3,764,363.
Kuenstler, Hans-George: *See—*
Civardi, Frank Peter; and Kuenstler, Hans-George, 3,716,397.
Kuenzel, Rainer. Angularly adjustable handle for hand tools. 3,773,094, 11-20-73, Cl. 145-61.00g.
Kuenzel, Rainer. Tool for inserting and removing parts in mechanical assemblages. 3,774,288, 11-27-73, Cl. 29-282.000.
Kueper, Terrance Wayne; and Paska, Thomas Mitchell, to International Business Machines Corporation. Zero sense after peak detection circuit. 3,767,938, 10-23-73, Cl. 307-235.00r.
Kuester, Karl Otto: *See—*
Bergevin, Jean Paul; and Kuester, Karl Otto, 3,722,174.
Kuesters, Eduard. Web-treatment rollers of polyurethane. 3,779,051, 12-18-73, Cl. 68-248.000.
Kuesters, Eduard, Maschinenfabrik: *See—*
Ahrweiler, Karl-Heinz, 3,718,427.
Kuethe, Arnold M. Boundary layer control of flow separation and heat exchange. 3,741,285, 6-26-73, Cl. 165-1.000.
Kuethe, Arnold M. Control of noise and instabilities in jet engines, compressors, turbines, heat exchangers and the like. 3,776,363, 12-4-73, Cl. 181-33.00c.
Kuffel, Richard A., to General Mills, Inc. Chiffon cake mix. 3,713,845, 1-30-73, Cl. 99-94.000.
Kuffner, Karl; and Proeschel, Ernst, to Agfa-Gevaert Aktiengesellschaft. Silver halide emulsions stabilized with nitroso derivatives of phenols. 3,725,077, 4-3-73, Cl. 96-109.000.
Kufrin, Robert J.: *See—*
Horowitz, Samuel I.; and Kufrin, Robert J., 3,738,807.
Kuga, Mutsuo; Iwasaki, Tatuo; Kyo, Kayomon; and Yoshioka, Atsuo, to Unitika Kabushiki Kaisha. Polyamide films. 3,740,246, 6-19-73, Cl. 117-7.000.
Kugelfischer Georg Schafer & Co.: *See—*
Brand, Karl, 3,769,690.
Gassner, Hans, 3,768,129.
Kirchner, Willi; and Braune, Gerhard, 3,777,727.
Korrenn, Heinz; Voll, Horst; and Grubel, Harald, 3,779,626.
Kugelnik, Herwig Werner; and Shank, Charles Vernon, to Bell Telephone Laboratories, Incorporated. Integrated feedback laser. 3,760,292, 9-18-73, Cl. 331-94.50c.
Kugera, William James; and Sandor, Louis, to Wendt, Albert Thomas and Amsted Industries Incorporated. Making cast steel railway wheels. 3,753,789, 8-21-73, Cl. 148-3.000.
Kugler, Carl J., to Singer Company, The. Meter volume compensating mechanism. 3,710,624, 1-16-73, Cl. 73-233.000.
Kugler, Carl J.; and Porter, Norman, to Singer Company, The. Thermal actuator for a meter temperature compensating mechanism. 3,721,125, 3-20-73, Cl. 73-368.300.
Kugler, Carl J., to Singer Company, The. Low pressure index continuous integrator. 3,780,580, 12-25-73, Cl. 73-233.000.
Kugler, Carl J., Jr.: *See—*
Thompson, Leon J.; Kugler, Carl J., Jr.; and Latta, Garland H., 3,780,274.
Kugler, Fritz: *See—*
Ulrich, Paul; Staeuble, Max; Kugler, Fritz; and Jost, Max, 3,772,296.
Kugler, Robert J., to Action Packaging Corporation. Resealable packaging device. 3,711,011, 1-16-73, Cl. 229-7.00r.
Kugler, Tibor, to Lonza Ltd. Stabilization of plasma generators. 3,712,996, 1-23-73, Cl. 313-231.000.
Kugler, Tibor; and Silbiger, Jakob, to Lonza Ltd. Preparation of finely particulate silicon dioxide. 3,733,387, 5-15-73, Cl. 423-336.000.
Kugumiya, Shigenori: *See—*
Doi, Kazuo; Kato, Ryuzo; Matsumoto, Tadashi; Niizuma, Fujio; Kugumiya, Shigenori; Tanaka, Yasuo; and Kitamura, Motoharau, 3,745,649.
Kuh, Stephen J., to Dow Chemical Company, The. 2-(Alpha,alpha-bis(trifluoromethyl)benzyloxy) acetic acid and esters thereof. 3,742,043, 6-26-73, Cl. 260-521.00a.
Kuhajek, Eugene J.: *See—*
Andelfinger, George F.; and Kuhajek, Eugene J., 3,749,579.
Kuhajek, Eugene J.; and Tibbitts, Gordon H., to Morton International, Inc. Composition and method for iron removal. 3,732,171, 5-8-73, Cl. 252-105.000.
Kuhar, George A.; Miller, Wallace R.; and Finelli, Anthony F., to Goodyear Tire & Rubber Company, The. Process for making a friction element and polymeric composition. 3,748,301, 7-24-73, Cl. 260-41.00a.
Kuhbauch, Gert: *See—*
Ulbrich, Gerhard; Kuhbauch, Gert; and Fischer, Ernst, 3,711,994.
Kuhdorf, Gunther; and Berndt, Joachim, to Bosch, Robert, G.m.b.H. Apparatus for electro-chemical processing of metallic workpieces. 3,746,632, 7-17-73, Cl. 204-224.00m.
Kuhfuss, Herbert F.: *See—*
Jackson, Winston J.; Kuhfuss, Herbert F.; and Caldwell, John R., 3,780,148.
Kuhfuss, Herbert F.; and Jackson, Winston J., Jr., to Eastman Kodak Company. Process for preparing a final copolyester by reacting a starting polyester with an acyloxy aromatic carboxylic acid. 3,778,410, 12-11-73, Cl. 260-47.00c.
Kuhl, Adolf; Huber, Hans Dieter; and Bollmann, Helmut, to Braun Aktiengesellschaft. Dryshaver with a catch electrode for attracting beard stubble. 3,760,497, 9-25-73, Cl. 30-41.600.
Kuhl, Bernard A., to General Motors Corporation. Cushioned hook for a push-pull type vehicle coupling. 3,740,080, 6-19-73, Cl. 280-481.000.
Kuhl, Dieter; and Poppa, Hubert, to Siemens Aktiengesellschaft. Component for a fuel element and a battery produced with these components. 3,775,184, 11-27-73, Cl. 136-86.00r.
Kuhl, Henry Y.: *See—*
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Kuhl, Paul R., Sr.: *See—*
Wyland, Roy Bruce, 3,728,842.
Kuhl, Virgil F., to Motorola, Inc. Electronic chassis frame assembly with cabling for printed circuit boards. 3,715,630, 2-6-73, Cl. 317-122.000.
Kuhl, Walter Karl; and Wieking, Jens, to Elektromesstecknik Wilhelm Franz KG. Reverberation device. 3,719,905, 3-6-73, Cl. 333-30.00r.
Kuhl, Wilfried; and Klug, Leonhard, to Siemens Aktiengesellschaft. Contact arrangement for vacuum switches. 3,717,739, 2-20-73, Cl. 200-166.00c.
Kuhl, Wilfried; and Klug, Leonhard, to Siemens Aktiengesellschaft. Vacuum switch with magnetically controllable arc. 3,740,507, 6-19-73, Cl. 200-144.00b.
Kuhle, Engelbert: *See—*
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Scheinpflug, Hans; Kuhle, Engelbert; Klauke, Erich; Frohberger, Paul-Ernst; and Grewe, Ferdinand, 3,723,628.
Widdig, Arno; Kuhle, Engelbert; Gladbach, Bergisch; Sasse, Klaus; Scheinpflug, Hans; Grewe, Ferdinand; Kaspers, Helmut; and Fronberger, Paul-Ernst, 3,720,682.
Widdig, Arno; Kuhle, Engelbert; Scheinpflug, Hans; Grewe, Ferdinand; Kaspers, Helmut; and Frohberger, Paul Ernst, 3,766,243.
Widdig, Arno; Kuhle, Engelbert; Sasse, Klaus; Scheinpelug, Hans; Grewe, Ferdinand; Kaspers, Helmut; and Frohberger, Paul-Ernst, 3,780,089.
Zumach, Gerhard; Holtschmidt, Hans; and Kuhle, Engelbert, 3,711,491.
Zumach, Gerhard; Anders, Bertram; Grewe, Ferdinand; Kuhle, Engelbert; and Kaspers, Helmut, 3,728,456.
Zumach, Gerhard; Kuhle, Engelbert; Hammann, Ingeborg; and Behrenz, Wolfgang, 3,755,374.
Kuhle, Engelbert; Klauke, Erich; Behrenz, Wolfgang; and Frohberger, Paul Ernst, to Bayer Aktiengesellschaft. N-trihalometh anesulfenyl-N-methyl-carbamates. 3,781,331, 12-25-73, Cl. 260-479.00c.
Kuhle, Karl F.: *See—*
Allport, Davies, 3,767,989.
Kuhlenschmidt, Donald, to Arkla Industries, Inc. Absorption refrigeration system with multiple generator stages. 3,717,007, 2-20-73, Cl. 62-101.000.
Kuhlenschmidt, Donald, to Arkla Industries, Inc. Cooling of absorption refrigeration system. 3,750,416, 8-7-73, Cl. 62-101.000.
Kuhlenschmidt-Dooley Corporation: *See—*
Dooley, John W., 3,774,203.
Kuhling, Dieter: *See—*
Disch, Karlheinz; Krings, Peter; Kuhling, Dieter; Bellinger, Horst; and Perner, Johannes Jurgen, 3,730,902.
Heins, Arnold; Kuhling, Dieter; and Bloching, Helmut, 3,775,332.
Kuhling, Dieter; and Heitland, Hans-Joachim, to Henkel & Cie G.m.b.H. Method of activating per-compounds and solid activated per-compound compositions. 3,715,184, 2-6-73, Cl. 8-111.000.
Kuhlman Corporation: *See—*
Fisher, John L., 3,740,685.
Kuhlman Electric Company: *See—*



Fisher, John L.; and Wilks, Alan L., 3,713,066.
Kuhlman, Harvey G. Moldable food depositing apparatus. 3,725,974, 4-10-73, Cl. 17-32.000.
Kuhlman, Harvey G. Food applicator. 3,779,205, 12-18-73, Cl. 118-24.000.
Kuhlman, Lorraine O., to Laco Manufacturing Company. Flow nozzle and valve. 3,738,399, 6-12-73, Cl. 141-21.00s.
Kuhlman, Ora Florentine: *See—*
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Kuhlmann, Rodger H.: *See—*
Martin, Vincent F.; Woolverton, Richard J.; and Kuhlmann, Rodger H., 3,767,066.
Kuhlmann, Vojine: *See—*
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Kuhlmann, Wayne: *See—*
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Kuhlmann-Schaefer, Wilhelm H.; and Dinter, Manfred E., to Preussag Aktiengesellschaft. Apparatus for recovery of magnetizable materials from the sea bottom. 3,776,593, 12-4-73, Cl. 299-8.000.
Kuhlow, Burkhard; Polte, Arnold; and Michels, Alfred, to Chemische Werke Huls Aktiengesellschaft. Process for the production of open-cell soft foam materials from vinyl chloride polymer plastisol. 3,770,670, 11-6-73, Cl. 260-2.50p.
Kuhlow, Robert J., to General Motors Corporation. Semiconductor device mounting adapter. 3,728,584, 4-17-73, Cl. 317-100.000.
Kuhlthau, Hans-Peter: *See—*
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Kuhlthau, Hans-Peter; and Lehment, Klaus-Friedrich, to Bayer Aktiengesellschaft. Methine dyestuffs. 3,759,902, 9-18-73, Cl. 260-240.800.
Kuhlthau, Hans-Peter; and Raue, Roderich, to Bayer Aktiengesellschaft. Hydrazone dyestuffs. 3,769,279, 10-30-73, Cl. 260-240.00g.
Kuhlthaus, Hans-Peter: *See—*
Raue, Roderich; and Kuhlthaus, Hans-Peter, 3,752,825.
Kuhn, Earl C., to Westinghouse Electric Corporation. Thrust bearing assembly. 3,764,187, 10-9-73, Cl. 308-160.000.
Kuhn, Edgar: *See—*
Kiess, Albert; Gunsser, Peter; and Kuhn, Edgar, 3,712,283.
Kuhn, Edgar, to Bosch, Robert, G.m.b.H. Voltage regulators for alternating current generators. 3,750,006, 7-31-73, Cl. 322-28.000.
Kuhn, Edmund W., to Westinghouse Electric Corporation. Electric switch having improved electrically conducting hinge structure. 3,710,059, 1-9-73, Cl. 200-166.00c.
Kuhn, Edmund W., to Westinghouse Electric Corporation. Electric disconnect switch having improved operating mechanism. 3,711,662, 1-16-73, Cl. 200-48.00a.
Kuhn, Edward H.: *See—*
Deubel, Justin A.; and Kuhn, Edward H., 3,769,474.
Kuhn, Falk, to Foquet-Werk & Planck. Jacquard pattern controller structure. 3,712,084, 1-23-73, Cl. 66-156.000.
Kuhn, Falk; Fink, Josef; Maier, Gunter; and Kohler, Pius, to Fouquet-Werk Frauz & Planck. Apparatus for placing of control pins, or breaking off of control butts of control elements in jacquard selectors for textile machinery. 3,747,191, 7-24-73, Cl. 29-08.00c.
Kuhn, Franz Josef: *See—*
Weber, Karl-Heinz; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; Bauer, Adolf; Merz, Herbert; and Kuhn, Franz Josef, 3,721,666.
Kuhn, Gerald D.; Peterson, Kenneth A.; Roeschlein, Eugene R.; Weiss, Donald C.; Weiss, Kenneth F.; and Zeph, David L., to United States of America, Navy. Solid state high speed scanning compensator switch for sonar. 3,781,776, 12-25-73, Cl. 340-3.00r.
Kuhn, Hans-Ulrich: *See—*
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Kuhn, Hans-Ulrich, to Daimler-Benz Aktiengesellschaft. Monitoring installation of the lighting system of motor vehicles. 3,710,364, 1-9-73, Cl. 340-214.000.
Kuhn, Harry A., Jr.; and Foltz, James W., to Motorola, Inc. Micropower zero-crossing detector. 3,728,554, 4-17-73, Cl. 307-233.000.
Kuhn, Horst: *See—*
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Huhn, Helmut; Kuhn, Horst; Meyer, Helmut; and Tewes, Udo, 3,745,136.
Kuhn, Jorg; and Sohm, Elmar. Apparatus for cultivating plants. 3,717,953, 2-27-73, Cl. 47-1.100.
Kuhn, Karl, to Societe d'Etudes de Machines Thermiques. Rotary pneumatic starter distributor for internal combustion engine. 3,722,210, 3-27-73, Cl. 60-16.000.
Kuhn, Karl Walter, to Societe d'Etudes de Machines Thermiques. Device for a clamping and loosening the exhaust manifold on internal combustion engines. 3,712,064, 1-23-73, Cl. 60-272.000.
Kuhn, Karl Walter, to Societe d'Etudes de Machines Thermiques. Rocker-arm assembly for internal combustion engines. 3,712,278, 1-23-73, Cl. 123-90.390.
Kuhn, Karl Walter, to Societe d'Etudes de Machines Thermiques. Valve for an internal combustion engine or the like. 3,742,927, 7-3-73, Cl. 123-189.000.
Kuhn, Karl Walter, to Societe d'Etudes dc Machines Thermiques. Emergency stopping device for a fuel-injection internal combustion engine. 3,750,640, 8-7-73, Cl. 123-198.00d.
Kuhn, Karl Walter, to Societe d'Etudes de Machines Thermiques. Crank case for an internal combustion engine or the like. 3,769,953, 11-6-73, Cl. 123-195.00r.
Kuhn, Karl Walter. Device for interlinking the upper spring-caps of two mutually adjacent internal-combustion-engine valves. 3,779,217, 12-18-73, Cl. 123-41.410.
Kuhn, Lawrence: *See—*
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Heidrich, Paul F.; Kuhn, Lawrence; and Pennington, Keith S., 3,736,045.
Kuhn, Max: *See—*
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Lampart, Thomas; and Kuhn, Max, 3,767,917.
Kuhn, Richard B.: *See—*
Deye, Neil S.; and Kuhn, Richard B., 3,711,637.
Deye, Neil S.; and Kuhn, Richard B., 3,729,582.
Kuhn, Richard B., to North American Aviation, Inc. Apparatus and information processing methods for a tracking system tracker unit. 3,712,957, 1-23-73, Cl. 178-6.800.
Kuhn, Richard B., to North American Rockwell Corporation. Apparatus and information processing methods for a tracking system tracker unit. 3,714,373, 1-30-73, Cl. 178-6.800.
Kuhn, Robert R. Type casting matrix and spacing. 3,780,853, 12-25-73, Cl. 199-63.000.
Kuhn, Rudolf, to Deutsche Babcock & Wilcox Aktiengesellschaft. Predrying tunnels for mill drying devices. 3,747,571, 7-24-73, Cl. 122-235.00r.
Kuhn, Russell P. Die stock (holder) and extension. 3,715,168, 2-6-73, Cl. 408-239.000.
Kuhn, Russell P. Tap wrench with swivel drive. 3,738,768, 6-12-73, Cl. 408-240.000.
Kuhn, Thomas G.; and Seitz, Neil B., to Logicon, Inc. Adaptive pulse code modulation system. 3,711,650, 1-16-73, Cl. 179-15.0bw.
Kuhn, Udo, to Kalle Aktiengesellschaft. Contact copying apparatus. 3,748,039, 7-24-73, Cl. 355-106.000.
Kuhn, Walter: *See—*
Felder, Winfried; and Kuhn, Walter, 3,718,056.
Kuhn, Wayne H.; and Harrison, Jerry W., to Stone Container Corporation. Carton closure rigidifying construction. 3,744,705, 7-10-73, Cl. 229-33.000.
Kuhn, Wenzel: *See—*
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Kuhn, Wilfried: *See—*
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Kuhn, Wolfgang H.: *See—*
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Harding, Dale L.; and Kuhnash, Arthur R., 3,719,222.
Kuhne, Christoph, to Zeiss-Stiftung, Carl; d/b/a Zeiss, Carl. Focusing arrangement for a focal telescopes. 3,721,488, 3-20-73, Cl. 350-46.000.
Kuhne, Gottfried: *See—*
Reinsch, Herbert; Kuhne, Gottfried; and Schirmer, Wolf, 3,753,613.
Kuhne, Manfred; and Vogel, Christian. 2-Alkylthio-4,6-di(alkylamino)-s-triazines. 3,746,710, 7-17-73, Cl. 260-249.800.
Kuhne, Manfred; and Vogel, Christian, to Ciba-Geigy Corporation. S-triazine derivatives. 3,766,182, 10-16-73, Cl. 260-249.800.
Kuhne, Norbert: *See—*
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Kuhne, Rudolf; Diery, Helmut; and Rittner, Siegbert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Agent for the dispelling of fog and process for their preparation. 3,715,319, 2-6-73, Cl. 252-319.000.
Kuhne, Rudolf; Hamal, Heinrich; and Thilenius, Thilo, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Monoazo pigment mixtures and process for their preparation. 3,725,101, 4-3-73, Cl. 106-288.00q.
Kuhne, Rudolf; Diery, Helmut; and Rittner, Siegbert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process and agents having an influence on the weather. 3,748,278, 7-24-73, Cl. 252-319.000.
Kuhne, Rudolf; Hamal, Heinrich; Geissler, Georg; Herbst, Willy; and Ribka, Joachim, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Pigment mixture of polar and nonpolar symmetrical/asymmetrical disazo dyestuffs. 3,759,731, 9-18-7, Cl. 106-288.00q.
Kuhnelt, Herbert F., to Hoerbiger Ventilwerke Aktiengesellschaft. Shuttle valve. 3,734,132, 5-22-73, Cl. 137-625.490.
Kuhnen, Fred: *See—*
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Kuhnen, Fred, to Sandoz Ltd.; a/k/a Sandoz AG. 2-Dialkylamino-

Kuhnen, Fred, to Sandoz Ltd.; a/k/a Sandoz AG. 2-Dialkylamino-1,3-bis-(alkoxyalkylthic propanes. 3,755,424, 8-28-73, Cl. 260-501.190.
Kuhnen, Ludwig, to Chemische Werke Huls Aktiengesellschaft. Vinyl chloride emulsion polymer and copolymer compositions. 3,732,178, 5-8-73, Cl. 260-23.0em.
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Kuhnert, Hans, to Heidelberger Druckmaschinen Aktiengesellschaft. Tool storage for machining centers with a tool search arrangement. 3,744,648, 7-10-73, Cl. 214-1.0bb.
Kuhnis, Hans Herbert; and Denss, Rolf, to Ciba-Geigy Corporation. Antitussive compositions and method with isonipecotic acid derivatives. 3,737,538, 6-5-73, Cl. 424-248.000.
Kuhnke, H. Elektrotechnik GmbH: *See—*
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Kuhnl, Leopold K., to Warner-Lambert Company. Adjustable single edge razor with guard and wash positions. 3,775,845, 12-4-73, Cl. 30-41.000.
Kuhnle, Judith A.: *See—*
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Kuhnle, Paul; Caukler, Fritz; and Gassmann, Willy, to Fr. Hesser Maschinenfabrik A.G. Bag forming and manipulating machine. 3,741,080, 6-26-73, Cl. 93-8.00r.
Kuhnle, Paul, to Fr. Hesser Maschinenfabrik A.G. Apparatus for inflating bags. 3,775,945, 12-4-73, Cl. 53-385.000.
Kuhnle, Willi: *See—*
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Kuhnle, Willi; and Frei, Walter, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Electro-hydraulic selector for the control of multiple loads. 3,708,047, 1-2-73, Cl. 192-12.00c.
Kuhnle, Willi, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Control mechanism for fluid-operated vehicular transmission. 3,712,156, 1-23-73, Cl. 74-858.000.
Kuhnlein, Dieter; Emmert, Reinhold; and Haag, Georg, to Grundig E.M.V. Elektro-Mechanische Versuchsanstalt Inh. Max Grundig. Operating apparatus for a cartridge tape recorder. 3,724,778, 4-3-73, Cl. 242-198.000.
Kuhnlein, Hans: *See—*
Brunner, Julius; and Kuhnlein, Hans, 3,757,185.
Kuhnlein, Hans, to Hch. Bertrams Aktiengesellschaft. Apparatus for the production of blocks from sodium hydroxide solution. 3,709,648, 1-9-73, Cl. 425-224.000.
Kuhnlenz, Karl-Heinz: *See—*
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Kuijsten, Han, to SCM Corporation. Extra bit for floating decimal control and correction of false intermediate arithmetic results. 3,757,097, 9-4-73, Cl. 235-159.000.
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Kukhermann, Gustav, to Windmoller & Holscher. Apparatus for forming and conveying stacks of flat articles, especially sheet articles. 3,777,903, 12-11-73, Cl. 214-6.00h.
Kukimoto, Hiroshi: *See—*
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Kukla, Cassimer M.; and Warnick, Alan, to Ford Motor Company. Sensing system for a chemiluminescent instrument. 3,734,691, 5-22-73, Cl. 23-253.00r.
Kukla, William J., to International Business Machines Corporation. Disazo pigment sensitized photoconductor. 3,775,105, 11-27-73, Cl. 96-1.600.
Kuklewicz, George T. Motorized crankcase oil drainage system. 3,743,053, 7-3-73, Cl. 184-1.500.
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Kuksa, Henry R., to SCM Corporation. Paper feed apparatus. 3,768,805, 10-30-73, Cl. 271-127.000.
Kukucka, William P.: *See—*
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Kulakov, Vladimir Petrovich: *See—*
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Kulander, Carl J. Vibration-dampening device for a floor-mounted vibrating mechanism. 3,720,392, 3-13-73, Cl. 248-20.000.
Kulas, William C., to Krohn-Hite Corporation. Function generating using piece-wise linear approximation. 3,737,642, 6-5-73, Cl. 235-197.000.
Kulberg, Gerardus H.; and Muehllehner, Gerd, to Nuclear-Chicago Corporation. Scintillation camera with improved resolution. 3,732,419, 5-8-73, Cl. 250-71.50s.
Kulberg, Gerardus Huibrecht; and Deinert, Roedolf Hendrik, to Searle, G. D., & Co. Quench correction in liquid scintillation counting. 3,780,289, 12-18-73, Cl. 250-362.000.
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Kulesz, James J. Method and apparatus for measuring ultra-low gas pressures. 3,744,318, 7-10-73, Cl. 73-399.000.
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Kulicke, Frederick W., Jr.; and LePone, John J., to Kulicke and Soffa Industries, Inc. Semiconductor die bonder. 3,738,560, 6-12-73, Cl. 228-10.000.
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Kuljian, Maynard J., to Ampex Corporation. Intrinsic controls for information retrieval systems employing digital codes integral with audio information. 3,744,030, 7-3-73, Cl. 340-172.500.
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Kulka, Robert A.; and Wiplich, Michael. Magnetic wheel numerical display device. 3,766,549, 10-16-73, Cl. 340-378.00r.
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Kullman, Russel M.; and Reinhardt, Robert M., to United States of America, Agriculture. Process for facilitating postponement of fixation using reactive carbamate dyestuffs. 3,775,050, 11-27-73, Cl. 8-41.00r.
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Kuniholm, Martin L., to Heald Machine Company, The. Grinding machine. 3,717,960, 2-27-73, Cl. 51-165.900.
Kunii, Daizo: *See—*
Tajima, Osamu; Moriyama, Kouji; and Kunii, Daizo, 3,753,685.
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Kunimatu Sangyo Co., Ltd.: *See—*
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Kunimatu, Takateru, to Kunimatu Sangyo Co., Ltd. Sunshade for foldable chair or bed. 3,738,703, 6-12-73, Cl. 297-184.000.
Kunimoto, Wallace Y.; and Buller, Joseph S., to Santa Barbara Research Center. Cooling apparatus. 3,732,421, 5-8-73, Cl. 250-83.00r.
Kunin, Robert: *See—*
Clemens, David H.; and Kunin, Robert, 3,780,500.
Kunin, Robert; and Kittle, Paul A., to Rohm & Haas Company. Mixed bed deionization. 3,753,899, 8-21-73, Cl. 210-33.000.
Kuninaka, Akira: *See—*
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Kunioka, Kazuo: *See—*
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Kunishev, Nikola Izanov: *See—*
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Kunishige, Hidenori; and Uchida, Kosaku, to Matsushita Electric Industrial Co., Ltd. Channel indicating means for television receivers. 3,707,941, 1-2-73, Cl. 116-124.400.
Kunitoku, Sadayoshi, to Nishitetsu Sangyo Co., Ltd. Automatic pencil for drawing a line. 3,779,652, 12-18-73, Cl. 401-50.000.



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Kuniyoshi, Ieji: *See—*
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Kuniyoshi, Masateru, to Tokyo Shibaura Electric Co., Ltd. Brushless electric motor with damper winding. 3,749,991, 7-31-73, Cl. 318-254.000.
Kunkel, Donald H.; and Seymour, Donald E. Algaecide composition having improved stability. 3,716,351, 2-13-73, Cl. 71-67.000.
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Young, James W.; Cason, George A.; and Kunkel, Ernest O., 3,719,240.
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Kunkle, Gerald E., to PPG Industries, Inc. Method of making sheet glass. 3,761,236, 9-25-73, Cl. 65-83.000.
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Kunoth, Kenneth Henry. Gas pressure operated warning devices. 3,776,174, 12-4-73, Cl. 116-34.00r.
Kunreuther and Merfeld: *See—*
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Kunsi, Helmut; and Wasels, Heinrich, to Institute fur Harterei Technik and Wasels, Heinrich, Trade Representative. Brake or clutch lining. 3,738,463, 6-12-73, Cl. 192-107.00m.
Kunsman, Chester E.; and Coleman, Richard L., to United States of America, Agriculture. Continuous flow multiple trap for low temperature reduced pressure gas chromatography. 3,731,466, 5-8-73, Cl. 55-386.000.
Kunst, Detlef; and Fuchs, Hans, to Olympia Werke AG. Line spacing device for typewriters. 3,763,987, 10-9-73, Cl. 197-114.000.
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Kunst, Robert J.; O'Neill, Thomas J.; and Szala, Norman M., to Pullman Incorporated. Railway passenger vehicle side plate construction. 3,774,553, 11-27-73, Cl. 105-401.000.
Kunstle, Gerhard; and Spes, Hellmuth, to Wacker-Chemie G.m.b.H. Process for continuously producing sorbic acid by converting ketene with crotonaldehyde. 3,759,988, 9-18-73, Cl. 260-526.00n.
Kunstmann, Martin Paul: *See—*
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Kunstmann, Martin Paul; Williamson, Charles Brainerd, III; and Porter, John Norman, to American Cyanamid Company. Antibiotic BL617 and process for producing same. 3,728,448, 4-17-73, Cl. 424-121.000.
Kunstmann, Walter; Ribka, Joachim; and Junker, Peter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 5-(Aminobenzenesulfonylamino)-benzimidazolone. 3,767,643, 10-23-73, Cl. 260-239.900.
Kunststoff GmbH: *See—*
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Kuntson, Dale A., to Applied Power Inc. Force release device. 3,768,369, 10-30-73, Cl. 91-378.000.
Kuntz, Charles H. Projector device for drawing. 3,741,624, 6-26-73, Cl. 350-121.000.
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Kuntz, Francis A., Jr., to Global Marine, Inc. Controllable pitch tunnel thruster for ship positioning. 3,759,211, 9-18-73, Cl. 114-148.000.
Kuntz, Francis A., Jr., to Global Marine Inc. Apparatus for dredging in deep ocean. 3,763,580, 10-9-73, Cl. 37-61.000.
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Kuntz, John B.; and Spinola, Anthony A., to United States Steel Corporation. Method of quenching slag. 3,758,292, 9-11-73, Cl. 75-24.000.
Kuntz, John B.; and Spinola, Anthony A., to United States Steel Corporation. Method of quenching slag. 3,761,243, 9-25-73, Cl. 75-24.000.
Kuntz, Kenneth C., to Mallory, P. R., & Co., Inc. Synchronous motor. 3,719,842, 3-6-73, Cl. 310-169.000.
Kuntzleman, Harry C.: *See—*
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Kunz, Bernard P. Speed regulating system. 3,709,416, 1-9-73, Cl. 226-2.000.
Kunz, Frydbryk. Scanning finger for electromechanical punch card scanner. 3,755,657, 8-28-73, Cl. 235-61.11c.
Kunz, Hans J.: *See—*
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Kunz, Harold Russell; and Walsh, Myles Alexander, to United Aircraft Corporation. Fuel cell utilizing fused thallium oxide electrolyte. 3,775,185, 11-27-73, Cl. 136-86.00r.
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Kunz, Max, to Ruti Machinery Works Ltd.; formerly Caspar Honegger. Drive arrangement for the terry warps on a terry loom. 3,739,817, 6-19-73, Cl. 139-25.000.
Kunz, Miles C.; and Esvang, Robert L., to Sun Electric Corporation. Meter movement and limit stop. 3,737,772, 6-5-73, Cl. 324-154.000.
Kunz, Raymond W., to General Electric Company. Electric fan heater. 3,725,640, 4-3-73, Cl. 219-370.000.
Kunz, Raymond W.; and Schulz, Albert E., to General Electric Company. Sensing means for electric fan heater. 3,731,057, 5-1-73, Cl. 219-363.000.
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Kunzel, Horst, to Siemens Aktiengesellschaft. Drive assembly for nuclear reactor control rods. 3,762,994, 10-2-73, Cl. 176-36.00r.
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Kuo, Charles C. Y.; and Angel, Henry S., to Engelhard Minerals & Chemicals Corporation. Method of preparing ruthenium- or iridi-
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Kuo, Charles C. Y.; and Angel, Henry S., to Engelhard Minerals & Chemicals Corporation. Method of preparing ruthenium- or iridium-containing components for resistors. 3,769,382, 10-30-73, Cl. 264-61.000.
Kuo, Lai Che, to Thomas & Betts Corporation. Multicompartment connector. 3,715,705, 2-6-73, Cl. 339-98.000.
Kuo, Lai Che, to Thomas & Betts Corporation. Multi-orificed electrical connector. 3,728,473, 4-17-73, Cl. 174-84.00c.
Kuo, Lai Che, to Thomas & Betts Corporation. Foil connector. 3,752,901, 8-14-73, Cl. 174-84.00c.
Kuo, Mau H. Pippette. 3,748,909, 7-31-73, Cl. 73-425.40p.
Kuo, Samuel Chung-Shu, to GTE Sylvania Incorporated. Log periodic antenna with foreshortened dipoles. 3,732,572, 5-8-73, Cl. 343-792.500.
Kupcikevicius, Vytautas, to Union Carbide Corporation. Stuffing method and apparatus. 3,731,346, 5-8-73, Cl. 17-49.000.
Kupcikevicius, Vytautas; and Pedersen, Ernest T., to Union Carbide Corporation. Article packaging system. 3,763,627, 10-9-73, Cl. 53-189.000.
Kupcikevicius, Vytautas, to Union Carbide Corporation. Cutboard spanning shouldered wickets. 3,770,134, 11-6-73, Cl. 211-57.000.
Kuper, Alan B. Oxidation of semiconductive alloys and produce obtained thereby. 3,725,161, 4-3-73, Cl. 156-17.000.
Kuper, Donald G.: *See—*
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Kuper, Donald G., to Phillips Petroleum Company. Process for preparation of aromatic carboxylates. 3,746,752, 7-17-73, Cl. 260-515.00p.
Kupersmit, Julius B. Clip for rigid foam pallet. 3,719,342, 3-6-73, Cl. 248-216.000.
Kupersmit, Julius B. Small volume pilfer proof containers. 3,768,722, 10-30-73, Cl. 229-47.000.
Kupersmit, Julius B. Collapsible shipping container. 3,770,186, 11-6-73, Cl. 229-23.00r.
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Kupfer, David; Roscoe, Henry George; and Blickens, Donald Arthur, to American Cyanamid Company. Novel compositions of matter. 3,728,455, 4-17-73, Cl. 424-270.000.
Kupfer, David; Roscoe, Henry George; and Blickens, Donald Arthur, to American Cyanamid Company. Method of inhibiting gastric acid secretion. 3,769,413, 10-30-73, Cl. 424-270.000.
Kupfer, Hanspeter; and Hossmann, Marcel, to Albiswerk Zurich AG. Distance measuring method and apparatus for the performance thereof utilizing two transmitter-receiver devices. 3,725,920, 4-3-73, Cl. 343-6.50r.
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Kuppens, Bernardus Johannes, to U.S. Philips Corporation. Cinematographic projector. 3,753,614, 8-21-73, Cl. 352-142.000.
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Kupper, Willi, to Schlafhorst, W., & Co. Device for readying the unwinding process of cops. 3,770,220, 11-6-73, Cl. 242-35.60e.
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Kupperman, Sam; and Kupperman, Dennis I., 3,772,810.
Kupperman, Sam; and Kupperman, Dennis I., 3,772,822.
Kupperman, Sam; and Kupperman, Dennis I. Toy having slotted axle and elastic strip drive means latterally insertable therethrough. 3,720,016, 3-13-73, Cl. 46-206.000.
Kupperman, Sam; and Kupperman, Dennis I. Crumb sweeper and the like. 3,772,726, 11-20-73, Cl. 15-48.000.
Kupperman, Sam; and Kupperman, Dennis I. Reflecting figure to be applied to a support surface. 3,772,810, 11-20-73, Cl. 40-125.00a.
Kupperman, Sam; and Kupperman, Dennis I. Integral wheel and power elastic strip to power toy vehicle. 3,772,822, 11-20-73, Cl. 46-90.000.
Kupsky, George A., to Burroughs Corporation. Display panel including scanning cells and fixed format display cells. 3,714,506, 1-30-73, Cl. 315-84.600.
Kupsky, George A., to Burroughs Corporation. Multi-position character display panel. 3,720,452, 3-13-73, Cl. 316-24.000.
Kupsky, George A., to Burroughs Corporation. Multi-position gaseous discharge display panel. 3,725,713, 4-3-73, Cl. 313-108.00r.
Kupsky, George A., to Burroughs Corporation. Gaseous discharge display device with improved cathode electrodes. 3,731,131, 5-1-73, Cl. 313-109.500.
Kupsky, George A.; and Kollmyer, Robert E., to Burroughs Corporation. Segmented electrode display panel having closed structure. 3,742,279, 6-26-73, Cl. 313-109.500.
Kupsky, George A., to Burroughs Corporation. Cold cathode display panel having a multiplicity of gas cells. 3,743,879, 7-3-73, Cl. 313-108.00b.
Kuptsov, Ivan Pavlovich: *See—*
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Kurahashi, Koichiro; Nakada, Masanori; Sato, Harunori; Nishimura, Koichi; and Abe, Masaaki, to Mitsubishi Denki Kabushiki Kaisha. Automatic continuously variable velocity film scanner. 3,752,918, 8-14-73, Cl. 178-7.200.
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Kuraishi, Kaoru; Yajima, Nobuo; and Igarashi, Shigemi, to Toshiba Photo Products Co., Ltd. Electronic flash apparatus having control means for pre-enabling light responsive circuit means. 3,727,100, 4-10-73, Cl. 315-151.000.
Kurakami, Osamu: *See—*
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Kuramochi, Shigeaki. Pencil sharpener. 3,712,351, 1-23-73, Cl. 144-28.720.
Kuramochi, Shigeaki, to Marx, Louis, & Co., Inc., mesne. Typewriter. 3,724,632, 4-3-73, Cl. 197-85.000.
Kuramochi, Shigeaki, to Marx, Louis, & Co. Inc., mesne. Cartridge ribbon drive mechanism. 3,763,988, 10-9-73, Cl. 197-151.000.
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Kuramoto, Yoshio; and Ueda, Hiroshi, to Minolta Camera Kabushiki Kaisha. Shutter speed indicating device for electrically controlled shutter mechanisms. 3,712,193, 1-23-73, Cl. 95-10.00c.
Kuramoto, Yoshio; Tsujimoto, Kayoshi; Yata, Kotaro; and Sahara, Masayoshi, to Minolta Camera Kabushiki Kaisha. Switching apparatus for exposure control devices. 3,728,946, 4-24-73, Cl. 95-10.0ct.
Kuramoto, Yoshio; and Tsujimoto, Kayoshi, to Minolta Camera Kabushiki Kaisha. Exposure controlling device for photographic camera. 3,756,131, 9-4-73, Cl, 95-10.0ct.
Kuramoto, Yoshio, to Minolta Camera Kabushiki Kaisha. Single lens reflex camera. 3,757,656, 9-11-73, Cl. 95-11.00v.
Kuramoto, Yoshio; Kobori, Toshio; and Ueda, Hiroshi, to Minolta Camera Kabushiki Kaisha. Photographic camera capable of making multiple exposures. 3,757,660, 9-11-73, Cl. 95-31.0ac.



Kuramoto, Yoshio; Tsujimoto, Kayoshi; and Kobori, Toshio, to Minolta Camera Kabushiki Kaisha. Motor-driven system for a still camera. 3,763,755, 10-9-73, Cl. 95-31.0el.
Kuranov, Alexei Dmitrievich: *See—*
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Kurshan, Robert Paul: *See—*
Brandenburg, Lane Howard; Gopinath, Bhaskarpillai; and Kurshan, Robert Paul, 3,742,144.
Kurstedt, Harold A., Jr.; and Thompson, Mason L., Jr., to Industrial Nucleonics Corporation. Inner layer position measurement. 3,754,138, 8-21-73, Cl. 250-302.000.
Kurt, Pauker: *See—*
Voland, Elmo W.; Simmons, Harold T.; and Kurt, Pauker, 3,727,015.
Kurtak, Charles R.; and Hartzog, Laurence D., to Union Carbide Corporation. Preparation of ammonium polythiomolybdate. 3,764,649, 10-9-73, Cl. 423-56.000.
Kurtenbach, Aelred J., to Daktronics, Inc. Matsidc wrestling scoreboard. 3,727,213, 4-10-73, Cl. 340-323.000.
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Kurth, Carl Ferdinand, to Bell Telephone Laboratories, Incorporated. Adjustable equalizer having means responsive to the input and output signals of each equalizer section. 3,715,691, 2-6-73, Cl. 333-18.000.
Kurth, Johannes: *See—*
Vogt, Gerd; Kurth, Johannes; and Glaser, Josef, 3,713,478.
Kurth, Johannes; and Glaser, Josef, to Ferdrowitz, Wilhelm and Mannesmann Aktiengesellschaft. Device for adjusting the position of a mold for continuous casting in a stand. 3,757,405, 9-11-73, Cl. 29-200.00p.
Kurth, Klaus; and Rahmig, Hermann, to Voith, J. M., GmbH. Method of manufacture and operation of ribbed member for treatment of fibrous suspensions. 3,745,645, 7-17-73, Cl. 29-530.000.
Kurth Malting Corporation: *See—*
Kneen, Eric, 3,759,792.
Kurthara, Haruki: *See—*
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Kurti, Alexander, to United Aircraft Corporation. Composite blade for a gas turbine engine. 3,713,752, 1-30-73, Cl. 416-219.000.
Kurtin, Stephen L.: *See—*
Anthony, Michael P.; Goldman, Arnold J.; Kurtin, Stephen L.; and Mullett, Charles E., 3,745,550.
Kurtin, Stephen L.; and Anthony, Michael P., to Keithley Instruments, Inc. Electrical test instrument. 3,757,216, 9-4-73, Cl. 324-149.000.
Kurtz, Abraham N.; Farmer, Melvin L.; and Atkins, Kenneth E., to Union Carbide Corporation. Exchange reactions of octadienyl esters with active hydrogen compounds. 3,755,451, 8-28-73, Cl. 260-593.00r.
Kurtz, Anthony D.; Mallon, Joseph; and Gravel, Charles, to Kulite Semiconductor Products Inc. Semiconductor transducers having H shaped cross-sectional configurations. 3,739,315, 6-12-73, Cl. 338-3.000.
Kurtz, Anthony D., to Kulite Semiconductor Products, Inc. Pressure sensitive transducers employing capactive and resistive variations. 3,748,571, 7-24-73, Cl. 323-74.000.
Kurtz, Anthony D.; Gravel, Charles L.; and Mallon, Joseph R., Jr., to Kulite Semiconductor Products, Inc. Transducers employing integral protective coatings and supports. 3,753,196, 8-14-73, Cl. 338-4.000.
Kurtz, Donald W.; and Heseltine, Donald W., to Eastman Kodak Company. Silver halide emulsion containing a dihydroaromatic quaternary salt nucleating agent and the use thereof. 3,719,494, 3-6-73, Cl. 96-107.000.
Kurtz, Donald W.; and Harbison, Judith M., to Eastman Kodak Company. Silver halide containing reactive quaternary salts nucleating agents. 3,734,738, 5-22-73, Cl. 96-107.00r.
Kurtz, Gary W.: *See—*
Hallman, Robert W.; and Kurtz, Gary W., 3,762,325.
Kurtz, Kenneth J. Bed moving device. 3,745,597, 7-17-73, Cl. 5-328.000.
Kurtz, Leonard D., to Sutures, Inc. Plaster composition. 3,769,052, 10-30-73, Cl. 106-111.000.
Kurtz, Leonhard D.: *See—*
Adams, Joseph H.; and Kurtz, Leonhard D., 3,754,069.
Kurtz, Peter, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of 3,4-unsaturated nitriles. 3,711,527, 1-16-73, Cl. 260-465.800.
Kurtz, Robert G.; and Van Vorous, Theodore, to Dow Chemical Company, The. Process for metal coating boron nitride objects. 3,708,325, 1-2-73, Cl. 117-61.000.
Kurtz, Robert L. Laminated wrench. 3,709,073, 1-9-73, Cl. 81-119.000.
Kurtz, Robert L. Real time moving scene holographic camera system. 3,752,556, 8-14-73, Cl. 350-3.500.
Kurtzberg, Jerome M.; Rosenfeld, Jack L.; and Villani, Raymond D., to International Business Machines Corporation. Multiprocessing computing system with task assignment at the instruction level. 3,760,365, 9-18-73, Cl. 340-172.500.
Kurtzig, Arjeh Jehuda: *See—*
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Hagedorn, Fred Bassett; and Kurtzig, Arjeh Jehuda, 3,741,802.
Kurtzman, Ralph H., Jr.; and Schwimmer, Sigmund, to United States of America, Agriculture. Decaffeination of beverages. 3,749,584, 7-31-73, Cl. 99-69.000.

Kuruin, Lev Nikolaevich: *See—*
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Kuruma, Hiroshi: *See—*
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Kurumada, Tomoyuki: *See—*
Murayama, Keisuke; Morimura, Syoji; Higashida, Susumu; Matsui, Katsuaki; Kurumada, Tomoyuki; and Onta, Noriyuki, 3,708,488.
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Kurz, Dietrich; and Oser, Gerhard, to Daimler-Benz Aktiengesellschaft. Mechanism for locking shifting members in change-speed transmissions. 3,779,097, 12-18-73, Cl. 74-477.000.
Kurz, Firma, GmbH: *See—*
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Kurz, John C., to Advanced Air, Inc. Horizontal fire damper. 3,747,662, 7-24-73, Cl. 160-1.000.
Kurz, John C., to Advanced Air, Inc. Fire damper frames. 3,768,223, 10-30-73, Cl. 52-658.000.
Kurz, John C. Method of fire damper fabrication. 3,769,684, 11-6-73, Cl. 29-412.000.
Kurz, John C., to Advanced Air, Inc. Access door and frame. 3,773,086, 11-20-73, Cl. 138-92.000.
Kurz, Jurgen: *See—*
Kolling, Heinrich; and Kurz, Jurgen, 3,714,231.
Kurz, Philip F.; and Nash, Leonard A., to Teletype Corporation. Electrostatically improvement in electro static printing. 3,715,219, 2-6-73, Cl. 106-22.000.
Kurz, Rainer, to Tennelec, Inc. Variable gain amplifier system. 3,737,794, 6-5-73, Cl. 330-9.000.
Kurz, Rudolf, to Kurz, Firma, GmbH. Folding-furniture piece. 3,716,271, 2-13-73, Cl. 297-457.000.
Kurz, Wolfgang G. W.: *See—*
Dawson, Peter S. S.; Kurz, Wolfgang G. W.; Anderson, Moffat; and York, Arthur E., 3,713,988.
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Kusaka, Kazuki. Modular graphite cast iron containing calcium, rare earth metals and magnesium and a method for its production. 3,726,670, 4-10-73, Cl. 75-130.00b.
Kusakabe, Takashi: *See—*
Kubo, Moritada; Asano, Kuniji; and Kusakabe, Takashi, 3,756,050.
Kusakabe, Takeshi; Kikuchi, Makoto; and Suzuki, Isao, to Toyoda Koki Kabushiki Kaisha. Machine tool with time control device. 3,717,962, 2-27-73, Cl. 51-165.091.
Kusakabe, Takesi: *See—*
Tomita, Tamaki; Kusakabe, Takesi; Kurimoto, Mikishi; Isuneo, Iwami; Keniti, Iwami; Nomura, Kenzi; and Yoshikazu, Sano, 3,775,837.
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Kusanagi, Schichiro: *See—*
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Kusber, Leo: *See—*
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Kusenberg, Eugen: *See—*
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Kusenberg, Eugen; Hubler, Ernst; Aus der Au, Hans-Rudolf; and Ernst, Otto, to Ciba-Geigy AG. Method of producing a thick-walled cured plastics moulding. 3,777,000, 12-4-73, Cl. 264-327.000.
Kush, George S., to Nuclear Medical Computer Corporation. Apparatus and method for dissolving soluble gas in a liquid. 3,742,988, 7-3-73, Cl. 141-2.000.
Kush, Louis J., Jr.; and Baker, Walter L., to United States of America, Navy. Acoustical detector circuit. 3,723,951, 3-27-73, Cl. 340-3.00r.
Kushibiki, Shinzaburo: *See—*
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Kushida, Hachiro, to Citizen Watch Co., Ltd. Watch case. 3,726,082, 4-10-73, Cl. 58-88.00g.
Kushigian, Anthony. Automatic drill pointing machine with automatic drill locater system. 3,711,997, 1-23-73, Cl. 51-105.00r.
Kushihashi, Akira; and Yamada, Naoyoshi, to Nippon Sheet Glass Co., Ltd. Glass having semi-transparent colorcd coating. 3,711,322, 1-16-73, Cl. 117-124.00a.
Kushima, Hosei; and Yahano, Kanji, to Nippon Steel Corporation. Surface treated steel sheet for use in a forming operation. 3,765,955, 10-16-73, Cl. 148-31.500.
Kushima, Kosei; and Yahano, Kanji, to Nippon Steel Corporation. Surface treated steel for the use of forming operation. 3,749,598, 7-31-73, Cl. 117-134.000.
Kushima, Teizo; Tanaka, Susumu; and Seino, Kuniki, to Minolta Camera Kabushiki Kaisha. Method and device for instant recording of light images while observing said light images. 3,732,007, 5-8-73, Cl. 355-17.000.
Kushima, Teizo, to Minolta Camera Kabushiki Kaisha. Electrophotographic portable camera. 3,773,416, 11-20-73, Cl. 355-3.00r.
Kushmuk, Walter P.: *See—*
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Kushnarenko, Sergei Grigorievich: *See—*
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Kushner, Bernard N. Multi-window teaching device. 3,738,022, 6-12-73, Cl. 35-9.00r.
Kushner, Irwin: *See—*
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Kushnir, Bud W.; Norris, Leon F.; Fraser, Robert W.; and Evans, David J. I. Preparation of powder composition for making dispersion strengthened binary and higher nickel base alloys. 3,734,713, 5-22-73, Cl. 75-.5ac.
Kushtuev, Boris Grigorievich: *See—*
Daiker, Artur Lvovich; Morozov, Alexandr Nikolaevich; Veis, Anatoly Ivanovich; Kushtuev, Boris Grigorievich; Novoselov, Nikolai Mikhailovich; Zhuravlev, Viktor Nikolaevich; Zinoviev, Alexei Fedorovich; Alfeev, Ivan Ivanovich; Nikitin, Viktor Ivanovich; Kocergin, Alexei Ilich; Matashkov, Vladimir Filippovich; Karelin, Nikolai Ivanovich; Volchematiev, Jury Venediktovich; Zaluzhentsev, Veniamin Fedorovich; and Morozov, Gennady Yakovlevich, 3,730,504.
Kusiak, Edward H., to United Aircraft Corporation. No-back actuator system. 3,722,641, 3-27-73, Cl. 192-8.00c.
Kusiak, Edward H., to United Aircraft Corporation. Ball-screw actuator with stop mechanism. 3,766,798, 10-23-73, Cl. 74-424.80r.
Kusik, Charles L.: *See—*
Hyde, Richard W.; Meissner, Herman P.; and Kusik, Charles L., 3,772,000.
Kuslich, John S. Shell catcher for repeating firearms. 3,733,728, 5-22-73, Cl. 42-1.00r.
Kusmer, Kasimir C., 1/2 to Romack, Paul L. Swimming exercisers. 3,721,438, 3-20-73, Cl. 272-71.000.
Kusmuk, Walter P.: *See—*
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Kusner, Robert E.: *See—*
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Kusnetz, Jacob: *See—*
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Kuss, Alvin P. Painting guard. 3,736,904, 6-5-73, Cl. 118-505.000.
Kuss, R. L., & Co., Inc.: *See—*
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Kuss, Ralph L., 3,753,823.
Kuss, Ralph L., 3,761,974.
Kuss, Ralph L., to Kuss, R. L., & Co., Inc. Adjustable support for a water mattress. 3,724,007, 4-3-73, Cl. 5-236.000.
Kuss, Ralph L., to Kuss, R. L. & Co., Inc. Method of manufacturing a water mattress. 3,753,823, 8-21-73, Cl. 156-145.000.
Kuss, Ralph L., to Kuss, R. L., & Co., Inc. Water mattress support. 3,761,974, 10-2-73, Cl. 5-348.0wb.
Kussy, Frank W.: *See—*
DiMarco, Bernard; Kussy, Frank W.; and Swain, Kenneth W., 3,781,607.
Kussy, Frank W.; and Heberlein, Gustave E., Jr., to I-T-E Imperial Corporation. Current limiting circuit breaker with magnetic latch. 3,718,875, 2-27-73, Cl. 335-18.000.
Kuster, Karl H.: *See—*
Jeffery, Thomas H.; and Kuster, Karl H., 3,729,671.
Kuster, Karl H., to GTE Automatic Electric Laboratories Incorporated. Voltage margining control circuit for program controlled power supplies. 3,725,740, 4-3-73, Cl. 317-16.000.
Kuster, Karl H., to GTE Automatic Electric Laboratories, Incorporated. DC-to-DC regulated converter current foldback power supply. 3,736,491, 5-29-73, Cl. 321-14.000.



Kuster, Kaspar, to Bachofen, Willy A. Suspension dispersing apparatus. 3,730,491, 5-1-73, Cl. 259-109.000.
Kusterer, James E., Jr.; and Sproull, Reavis C., to Research Corporation, mesne. Gaseous diffusion paper deacidification. 3,771,958, 11-13-73, Cl. 21-58.000.
Kusters, Eduard, Maschinenfabrik: *See—*
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Urban, Peter T., 3,757,398.
Kusters, Heinz Peter, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Seat consisting of seat portion and backrest, especially driver seat for motor vehicles. 3,778,104, 12-11-73, Cl. 297-458.000.
Kusters, John A.: *See—*
Hammond, Donald L.; Kusters, John A.; and Wilson, David A., 3,756,689.
Kusters, John A.; Wilson, David A.; and Hubby, Laurence M., Jr., to Hewlett-Packard Company. Acousto-optic filter having means for damping acoustic resonances. 3,729,250, 4-24-73, Cl. 350-149.000.
Kusters, John A.; Wilson, David A.; and Hubby, Laurence M., Jr. Acousto-optic filter having means for damping acoustic resonances. 3,767,286, 10-23-73, Cl. 350-149.000.
Kusters, Norbert L.; and Macmartin, Malcolm P., to Canadian Patents and Development Limited. Detector-demodulator for modulated (reversed) AC and DC signals. 3,714,567, 1-30-73, Cl. 324-111.000.
Kustusch, Paul W. Hydromechanical elastomeric force amplifier. 3,760,588, 9-25-73, Cl. 60-54.50r.
Kusuhara, Masaki, to Wacom Ltd. Process for dyeing and finishing fibrous material. 3,709,656, 1-9-73, Cl. 8-17.000.
Kusui, Shoji, to Nihon Denki Keiki Kenteisho. Diode watthourmeter. 3,710,254, 1-9-73, Cl. 324-142.000.
Kusumoto, Mashahiko: *See—*
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Kusunoki, Sigeru; Murakami, Yoshitsugu; Tashiro, Yutaka; and Tabata, Kazuki, to Bridgestone Tire Company Limited. Pneumatic tire for high-speed motorcycle. 3,730,245, 5-1-73, Cl. 152-352.000.
Kusunoki, Tadashi: *See—*
Yumiyama, Seisuke; Kinoshita, Yoshitsugu; Kusunoki, Tadashi; Okada, Toshihiko; and Shimizu, Susumu, 3,727,580.
Kusunoki, Toshio, to Matsushita Electric Works, Ltd. Facial sauna. 3,768,483, 10-30-73, Cl. 128-368.000.
Kusunoki, Yasuo; Okazaki, Hiroshi; Sato, Yoshinori; and Sano, Eiichi, to Yawata Chemical Industry Co., Ltd. Synthesis of pyridine bases from olefins. 3,781,292, 12-25-73, Cl. 260-290.00p.
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Kuth, Robert; Hildebrand, Dietrich; and Bien, Hans-Samuel, to Bayer Aktiengesellschaft. Process for the continuous dyeing and printing of fibre materials of synthetic polyamides. 3,778,228, 12-11-73, Cl. 8-174.000.
Kutik, Louis F.: *See—*
Gronemeyer, Erich W.; and Kutik, Louis F., 3,708,083.
Kutik, Louis F. Pump with floating valve element. 3,753,518, 8-21-73, Cl. 222-383.000.
Kutner, Abraham, to Hercules Incorporated. Flame retardant polymers. 3,717,609, 2-20-73, Cl. 260-45.75k.
Kutokov, Sergei Sergeevich: *See—*
Shule, Edmund Khristianovich; Kutokov, Sergei Sergeevich; Rytvin, Evgeny Isaevich; Myagchenkov, Alexei Andreevich; Khodakovsky, Mikhail Davydovich; Bakanov, Nikolai Gavrilovich; Schevchenko, Nikolai Ivanovich; and Shiman, Oleg Petrovich, 3,765,852.
Kutolin, Sergei Alexeevich; Vulikh, Alexandr Ilich; and Shammasova, Anna Egorovna. Method of producing salts of alkaline earth metals. 3,755,553, 8-28-73, Cl. 423-598.000.
Kutozov, Boris Nikplaevich; Mikheev, Igor Grigorievich; Grigoriev, Vladimir Konntantinovich; Chugunov, Viktor Dmitrievich; Nakinsky, Isaak Emmanuilovich; Trusov, Alexandr Alexandrovich; Sharonoy, Georgy Ivanovich; and Golosov, Viktor Fedorovich. Drilling sem for drilling holes blown-out by pressurized air. 3,749,186, 7-31-73, Cl. 175-228.000.
Kuts, Mathew, to Goodrich, B. F., Company, The. Fabric cutting. 3,757,618, 9-11-73, Cl. 83-471.300.
Kuts, Mathew, to Goodrich, B. F., Company, The. Fabric cutting apparatus. 3,762,259, 10-2-73, Cl. 83-471.300.
Kuts, Mathew, to Vulcan Corporation, mesne. Trimming apparatus. 3,768,101, 10-30-73, Cl. 83-408.000.
Kutsay, Ali Umit. Force detecting and evaluating apparatus. 3,724,575, 4-3-73, Cl. 177-211.000.
Kutscher Gerhard; and Wehling, Rolf, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Open-end spinning device with an opening-up roller. 3,732,681, 5-15-73, Cl. 57-58.950.
Kutscher, Gerhard; and Wehling, Rolf, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Apparatus for the spinning of staple fibers in a ringless manner. 3,757,506, 9-11-73, Cl. 57-58.950.
Kutscher, Gerhard; and Wehling, Rolf, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Device for avoiding the accumulation of lint with ringless spinning. 3,774,386, 11-27-73, Cl. 57-58.950.
Kutscher, Horst: *See—*
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Kutter, Eberhard; Griss, Gerhart; Grell, Wolfgang; and Kleemann, Manfred, to Boehringer Ingelheim G.m.b.H. 2-[p-(N'-cycloalkyl-carbamido-N-sulfonyl) -phenethyl]-1,2,3,4-tetrahydro-1,3-dioxo-4,4-dimethyl-isoquinolines and alkali metal salts. 3,708,486, 1-2-3, Cl. 260-281.000.
Kuttner, Werner, to Siemens Aktiengesellschaft. Circuit for the charging of batteries. 3,755,729, 8-28-73, Cl. 320-20.000.
Kutz, Donald F.: *See—*
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Kutzer, Hans-Joachim: *See—*
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Kutzer, Hans-Joachim, to Didier-Werke A.G. Containers with sliding valve for liquid smelt. 3,731,912, 5-8-73, Cl. 266-38.000.
Kutzer, Hans-Joachim, to Didier-Werke A.G. Container with sliding shutter for a liquid melt. 3,773,226, 11-20-73, Cl. 222-148.000.
Kuus, Herbert. Electric ski waxer. 3,711,678, 1-16-73, Cl. 219-227.000.
Kuwabara, Hidemitso: *See—*
Matsuda, Shinji; Kuwabara, Hidemitso; Kubo, Hiroshi; Sasajima, Yoichi; Suzuki, Kensuke; and Fukamachi, Takashi, 3,775,549.
Kuwabara, Jun, to Atomic Power Development Associates, Inc. Metering apparatus for nuclear reactors. 3,724,268, 4-3-73, Cl. 73-194.0em.
Kuwabara, Takao, to Hitachi, Ltd. Speed governor. 3,730,638, 5-1-73, Cl. 415-24.000.
Kuwabara, Takeo: *See—*
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Kuwabara, Takeo; Kiwaki, Hisakatsu; Sato, Hiroshi; and Onoda, Yoshimitsu, to Hitachi, Ltd. Voltage control apparatus for AC generators. 3,714,541, 1-30-73, Cl. 322-24.000.
Kuwabara, Yoshimi: *See—*
Sakamoto, Kenro; Fushiki, Isamu; Arai, Shinji; Shimizu, Fumio; Kuwabara, Yoshimi; Nakajima, Tomio; Sugita, Sadao; Inokuma, Hiroyuki; and Tejima, Setsuzo, 3,769,017.
Kuwabara, Yoshimi; Sugita, Sadao; Inokuma, Hiroyuki; Iwai, Issei; Kishida, Yukichi; Iwashige, Tadahiro; Ishida, Noboru; and Miyamura, Toshihide, to Konishiroku Photo Industry Co., Ltd. and Sankyo Company Limited. Light-sensitive silver halide emulsion contining a pyrazole compound antifoggant. 3,726,686, 4-10-73, Cl. 96-100.00r.
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Kuwazaki, Masahiro; Ota, Akira; and Takata, Toshikatsu, to Matsushita Electric Industrial Co., Ltd. Inside-out primary dry cell with carbon-resin film on inside surface of container. 3,764,392, 10-9-73, Cl. 136-107.000.
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Kyriacou, Demetrios, to Dow Chemical Company, The. Tetrachloropyrazine bis-N-oxide and its preparation. 3,753,989, 8-21-73, Cl. 260-250.00r.
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Kyzyk, Roman, to Honeywell Inc. Ultra-low fluid pressure and ultra-low force measuring apparatus. 3,744,316, 7-10-73, Cl. 73-398.00c.
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La Follette, Robert J., to Itek Corporation. Airborne radar detecting and recording system. 3,716,853, 2-13-73, Cl. 343-5.0pr.
La Force, Jean; and Stringer, Carl. Method of solid phase welding for pipes. 3,732,391, 5-8-73, Cl. 219-67.000.
La Forest, John P., to General Signal Corporation. Receiver for a frequency modulated overlay track circuit. 3,715,669, 2-6-73, Cl. 325-320.000.
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La Rocca, Salvatore, to Polaroid Corporation. Camera accessory for photographing print. 3,709,597, 1-9-73, Cl. 355-61.000.
La Roche, Rene, to Aluminium Suisse S.A. Process for treating surfaces of aluminium and aluminium alloys. 3,734,782, 5-22-73, Cl. 148-6.300.
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Laakmann, Peter, to Hughes Aircraft Company. Phase stabilized AC power supply for reactive loads. 3,723,908, 3-27-73, Cl. 331-177.00r.
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Laama, Vello; and Grahn, Robert Donald, to Sunbeam Corporation. Expresso coffeemaker. 3,757,670, 9-11-73, Cl. 99-302.000.
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Laatsch, Kurt A., to Battieger, Joseph R. Hose nozzle with discharge control. 3,754,709, 8-28-73, Cl. 239-530.000.
Laatt, Richard G.; and Rodriguez, Juan A., to Storage Technology Corporation. Apparatus for and method of integration detection. 3,731,208, 5-1-73, Cl. 328-127.000.



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Labana, Santokh S., to Ford Motor Company. Compositions for powder coatings containing acrylate polymers or esters of fluorinated fatty acids as flow control agents. 3,730,930, 5-1-73, Cl. 260-23.0ed.
Labana, Santokh S., to Ford Motor Company. Powder coating compositions containing polymer of ethlenically unsaturated glycidly esters, dicarboxylicacids, and flow control agents. 3,752,870, 8-14-73, Cl. 260-836.000.
Labana, Santokh S.; and Theodore, Ares N., to Ford Motor Company. Powdered coating composition of unsaturated glycidyl and anhydride copolymer and a flow control agent. 3,758,632, 9-11-73, Cl. 260-836.000.
Labana, Santokh S.; Golovoy, Amos; and Newman, Seymour, to Ford Motor Company. Powdered coating compositions of carboxy containing copolymers, epoxy crosslinking agents and flow control agents. 3,758,633, 9-11-73, Cl. 260-836.000.
Labana, Santokh S.; and Newman, Seymour, to Ford Motor Company. Powdered coating composition of unsaturated glycidyl copolymer, flow control agents and diphenolic crosslinking agents. 3,758,634, 9-11-73, Cl. 260-836.000.
Labana, Santokh S.; Chang, Yun Feng; and Theodore, Ares N., to Ford Motor Company. Powdered coating compositions of unsaturated glycidyl copolymers with flow control agents. 3,758,635, 9-11-73, Cl. 260-836.000.
Labana, Santokh S.; and Chang, Yun F., to Ford Motor Company. Self-crosslinking powder containing carboxy and epoxy groups admixed with a flow control agent. 3,770,848, 11-6-73, Cl. 260-836.000.
Labana, Santokh S.; and Chang, Yun Feng, to Ford Motor Company. Powder coating compositions containing glycidyl ester copolymers, carboxy terminated polymeric crosslinking agents, and flow control agents. 3,781,380, 12-25-73, Cl. 260-836.000.
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Labbe, Francis Auguste Maurice, to Molins Machine Company, Limited. Smoke filters. 3,757,649, 9-11-73, Cl. 93-1.00c.
Labbe, Francis Auguste Maurice; Preston, Edward George; and Marritt, Clifford Russell, to Molins Limited. Cigarette making machines. 3,769,989, 11-6-73, Cl. 131-21.00d.
Labbe, Francis Auguste Maurice; and Mitchell, Michael Bruce, to Molins Limited. Preparing cigarette filters. 3,773,883, 11-20-73, Cl. 264-151.000.
Labbe, Francis Auguste Maurice, to Molins Machine Company, Limited. Cigarettes. 3,779,253, 12-18-73, Cl. 131-110.000.
Labedan, Pierre; and Masotti, Robert, to Progil. Apparatus and method for cathode sputtering on the two sides of a metallic support having large dimensions. 3,779,885, 12-18-73, Cl. 204-192.000.
Labee, Francis A. M.; Preston, Edward George; Dingli, Paul; Hirsh, Ivan Y.; and Dyett, Derek Henry, to Molins Limited. Rod making machines. 3,760,672, 9-25-73, Cl. 83-310.000.
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LaBelle, Laurence Treffle, to Miner Enterprises, Inc. Wedge lock device. 3,708,075, 1-2-73, Cl. 213-22.000.
Labelle, Richard L. Endless track vehicle. 3,734,221, 5-22-73, Cl. 180-5.00r.
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Laborde, Pierre G., to Compagnie Internationale pour l'Informatique. Magnetic tape read-out system. 3,745,310, 7-10-73, Cl. 235-61.11d.

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Labrot, Gunter Erste; and Kaes, Karl, to Erste Deutsche Floatglas, GmbH & Co., OHG. Floatglass processing equipment. 3,762,908, 10-2-73, Cl. 65-158.000.

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Lacam, Guy, to La Fermeture Ailee and Avenue du General Leclerc. Device for cutting and forming stop connections for a sliding fastener continuously sewn on a series of workpieces. 3,770,552, 11-6-73, Cl. 156-510.000.

Lacchia, Aurien, to Air Industrie. Method of protecting electrostatic spray nozzles from fouling. 3,764,068, 10-9-73, Cl. 239-3.000.

Lace, Melvin A., to Motorola, Inc. Power driven platen for tape cartridges. 3,708,135, 1-2-73, Cl. 242-55.19a.

Lace, Melvin A., to Motorola, Inc. Brush wear inhibitor for dynamoelectric machines. 3,714,482, 1-30-73, Cl. 310-228.000.

Lace, Melvin A., to Motorola, Inc. Vehicle power supply system with boltage regulator load compensation. 3,716,774, 2-13-73, Cl. 320-64.000.

Lace, Melvin A., to Motorola, Inc. Engine condition monitoring apparatus. 3,723,964, 3-27-73, Cl. 340-52.00f.

Lace, Melvin A., to Motorola, Inc. Flowmeter for engine cooling system. 3,739,366, 6-12-73, Cl. 340-239.00r.

Lace, Melvin A., to Motorola, Inc. Electronic control circuit. 3,755,626, 8-28-73, Cl. 179-1.00d.

Lace, Melvin A., to Motorola, Inc. Spring clutch mechanism F tape cartridge. 3,774,861, 11-27-73, Cl. 242-55.19a.

Lacey, Benjamin R. Short finder with a pair of indicators having different resistance values and actuated by different current magnitudes. 3,742,345, 6-26-73, Cl. 324-52.000.

Lacey, Edward H. Irrigation hose coupling and pull end. 3,741,238, 6-26-73, Cl. 137-344.000.

Lacey, Marrick T. Protective telephone alarm system. 3,710,024, 1-9-73, Cl. 179-5.00p.

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Lacey, Robert R., to Universal Oil Products Company. Vehicle seats having resilient mountings. 3,716,213, 2-13-73, Cl. 248-399.000.

Lacey, Robert Ronald, to Universal Oil Products Company. Seats. 3,747,976, 7-24-73, Cl. 297-361.000.

Lacey, Robert Ronald, to Universal Oil Products Company. Adjustable seats for trucks, coaches and other vehicles. 3,758,063, 9-11-73, Cl. 248-161.000.

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Lachaise, Jean M. System for measuring the regeneration threshold of repeaters for multiplex pulse code modulation and data transmission systems. 3,731,011, 5-1-73, Cl. 179-175.31r.

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Lachapelle, J. P. Benoit; and Labranche, Joseph Majorique. Water jet loom. 3,731,713, 5-8-73, Cl. 139-122.00r.

LaChappele, Paul A.; and Mosehauer, Michael, to Eastman Kodak Company. Corona charging apparatus. 3,729,649, 4-24-73, Cl. 317-4.000.

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Lachenmayer, Wilhelm, to Benteler-Werke AG. Tubular construction arrangement. 3,726,320, 4-10-73, Cl. 138-103.000.

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Lachnit, Friedrich, to Deutsche Babcock & Wilcox Aktiengesellschaft. Multi-wheel underwater excavation machine. 3,740,098, 6-19-73, Cl. 299-8.000.

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Lachowicz, Donald R.; Saines, George S.; and Eckert, George W., to Texaco Inc. Motor fuel composition. 3,711,255, 1-16-73, Cl. 44-66.000.

Lachowicz, Donald R., to Texaco Inc. Nitroketonized amides and their method of preparation. 3,746,729, 7-17-73, Cl. 260-404.500.

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Lackey, Ray R.; and Henninger, Carold R., to Sybron Corporation. Apparatus for automatically limiting the size of an X-ray beam in response to cassette size. 3,764,808, 10-9-73, Cl. 250-490.000.

Lackey, Ray R.; Henninger, Harold B.; and Schneider, Henry J., to Sybron Corporation. X-ray cassette holder. 3,771,781, 11-13-73, Cl. 269-218.000.

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Lademann, Ernest E.; and O'Connor, James J., to Bendix Corporation, The. Photoetched induction coil assembly. 3,736,543, 5-29-73, Cl. 336-200.000.

Lademann, Ernest E., to Bendix Corporation, The. Automatic vehicle counting and weighing system. 3,736,999, 6-5-73, Cl. 177-208.000.

Lademann, Ernest E.; and O'Connor, James J., to Bendix Corporation, The. Method of manufacturing a photoetched induction coil. 3,769,698, 11-6-73, Cl. 29-602.000.

Lademann, Rudolf: *See—*
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Ladeur, Peter, to Shell Oil Company. Hydrocracking process for lube oil over Ni-Mo- and Ni-W on $SiO_2$-$ZrO_2$. 3,776,839, 12-4-73, Cl. 208-110.000.

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Ladine, Duane A.; and McCullough, Lester E., to Enviro-Labs, Inc. Punched tape reader, and method of operation. 3,745,312, 7-10-73, Cl. 235-61.11r.

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Ladney, Michael, Jr. Plastic molding composition and method of preparation. 3,725,216, 4-3-73, Cl. 204-30.000.

Ladney, Michael, Jr. Mold for forming plastic foam parts. 3,759,644, 9-18-73, Cl. 425-129.000.

Lado, Ernest Andres, to Nichols Engineering & Research Corporation. Method of producing refractory material. 3,734,755, 5-22-73, Cl. 106-73.400.

Ladouceur, Harold A.; and Steward, John H. Nut and panel assembly. 3,724,520, 4-3-73, Cl. 151-41.730.

Ladusaw, William T., to General Electric Company. Rotary compressor with capacity modulation. 3,767,328, 10-23-73, Cl. 417-310.000.

Lady, Charles S. Music teaching device. 3,744,368, 7-10-73, Cl. 84-470.000.

Lady, Robert M., Sr.; and Steiner, William G., to United States of America, Navy. Measuring the distance apparatus for between a workpiece surface and a datum. 3,740,643, 6-19-73, Cl. 324-340.000.

Laerdal, Asmund S. Apparatus for practising resuscitation by insufflation and external heart massage. 3,736,362, 5-29-73, Cl. 35-17.000.

Laerdal, Asmund Sigurd. Pressurized fluid dispensing container. 3,768,696, 10-30-73, Cl. 222-29.000.

Laessar, Claude; and Lambert, Robert, to Ebauches S.A. Day-date timepiece. 3,748,848, 7-31-73, Cl. 58-58.000.

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Lafferty, Gary S., Sr., to Milwaukee Electric Tool Corporation. Locators for drywall fasteners. 3,710,832, 1-16-73, Cl. 144-32.000.

Lafferty, Gary S., Sr., to Milwaukee Electric Tool Corporation. Depth adjusters and interchangeable locators for screwdrivers. 3,712,352, 1-23-73, Cl. 144-32.000.

Lafferty, Gary S., Sr., to Milwaukee Electric Tool Corporation. Spring biased coupling for tool and chuck. 3,726,533, 4-10-73, Cl. 279-97.000.

Lafferty, John J.; and Zirkle, Charles L., to Smith Kline & French Laboratories. N-Thienylalkyl-$\beta$-alkoxy-trifluoromethylphenalkylamines. 3,709,913, 1-9-73, Cl. 260-332.30r.

Lafferty, John J.; and Zirkle, Charles L., to Smithkline Corporation. Anorectic compositions containing N-thienylalkyl-$\beta$-alkoxy-trifluoromethylphenylalkylamines and methods of use. 3,764,691, 10-9-73, Cl. 424-275.000.

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Laffont, Maurice, to Entreprise de Recherches et d'Activites Petrolieres (ELF). Immersion process for heavy underwater structures with particular applications for underwater oil tanks. 3,756,179, 9-4-73, Cl. 114-.50t.

Laffont, Maurice; and Houot, Jean-Jacques, to Entreprise de Recherches et d'Activites Petrolieres (Elf). Drilling or production platform for work at sea. 3,768,268, 10-30-73, Cl. 61-46.500.

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Lafollette, Amy W. Disposable protective liner. 3,780,380, 12-25-73, Cl. 2-78.00r.

Lafon, Louis, to Societe Anonyme dite: Orsymonde. 1-Naphthyl-1-hydroxy-acetamidine derivatives, their preparation and use. 3,723,527, 3-27-73, Cl. 260-564.00r.

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Lafon, Louis, to Societe Anonyme dite: Orsymonde. Novel normolipemiant agents. 3,742,031, 6-26-73, Cl. 260-481.00r.

Lafon, Louis. Compositions and methods for the treatment of hyperlipemia. 3,769,436, 10-30-73, Cl. 424-337.000.

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Lagally, Paul, to United States of America, Navy. Low friction bearing-journal arrangement. 3,774,983, 11-27-73, Cl. 308-238.000.
Lagally, Ralph W.; and Schulz, Johann G. D., to Gulf Research & Development Company. Preparation of amines. 3,739,028, 6-12-73, Cl. 260-585.00a.
Lagally, Ralph W.; and Schulz, Johann G. D., to Gulf Research & Development Company. Preparation of amines. 3,742,060, 6-26-73, Cl. 260-585.00a.
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Lage, Frederick A. Shot shell and method of loading same. 3,730,095, 5-1-73, Cl. 102-42.00c.
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Laggy, William Joseph; and May, Harold Frederick, to Bell Telephone Laboratories, Incorporated. Time slot memory circuit. 3,710,025, 1-9-73, Cl. 179-15.00a.
Laggy, William Joseph; and May, Harold Frederick, to Bell Telephone Laboratories, Incorporated. Call distributing system. 3,740,484, 6-19-73, Cl. 179-18.00j.
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Laird, John D., to Avco Corporation. Intra-arterial blood pump. 3,720,200, 3-13-73, Cl. 128-1.00d.
Laitar, Robert A.: *See—*
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Lakatos, Eduard: *See—*
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Lake, Clarence R. Collapsible sawhorse. 3,716,112, 2-13-73, Cl. 182-155.000.
Lake, Connie, to Mobil Oil Corporation. Door mounted, door operated holder for collapsible limp bags. 3,724,921, 4-3-73, Cl. 312-237.000.
Lake, David P., to General Motors Corporation. Voltaic cell and method using dilute fuel gases to generate electrical power. 3,719,529, 3-6-73, Cl. 136-86.00r.
Lake, Francis K., to Addressograph-Multigraph Corporation. Moisture dispensing unit for lithographic fountain system. 3,749,012, 7-31-73, Cl. 101-148.000.
Lake, Gary F. Circular table and seat construction. 3,758,152, 9-11-73, Cl. 297-157.000.
Lake, James L.: *See—*
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Lake, James L.; Litz, John E.; Coleman, Robert B.; Goldenberg, Marcel; and Vojkovic, Milos, to Continental Ore Corporation. Recovery of rhenium and molybdenum values from molybdenite concentrates. 3,770,414, 11-6-73, Cl. 75-1.000.
Lake, John K. Wall mountable aquarium. 3,735,738, 5-29-73, Cl. 119-5.000.
Lake, John W., to Omark Industries, Inc. Chuck assembly for stud welding apparatus. 3,758,743, 9-11-73, Cl. 219-98.000.
Lake, Peter A. Disposable delicate tissue retractor. 3,766,910, 10-23-73, Cl. 128-20.000.
Lake, Robert A.: *See—*
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Lakeberg, Warren D., to United States Steel Corporation. Coke oven door cleaner. 3,758,910, 9-18-73, Cl. 15-93.00a.
Lakeman, Thomas Ashley. Target for use on water or land. 3,778,060, 12-11-73, Cl. 273-102.00s.
Laker, Abraham, to RCA Corporation. Method of making a semiconductor device. 3,738,880, 6-12-73, Cl. 156-17.000.
Lakernik, Rafail Moiseevich: *See—*
Zhukevich-Stosha, Evgeny Alexandrovich; Verderevsky, Vadim Anatolievich; Cherednichenko, Genrikh Moiseevich; Dobychin, Fedor Nikolaevich; Lakernik, Rafail Moiseevich; Svidovsky, Felix Grigorievich; and Shapiro, Aron Isaakovich, 3,722,249.
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Lakin, Bryan L., to Fasco Industries, Inc. Electric coil with lead locking means. 3,742,412, 6-26-73, Cl. 336-192.000.
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Lakritz, Leon. Apparatus for the uniform addition of soluble materials to cigarettes. 3,732,872, 5-15-73, Cl. 131-133.00r.
Lal, Joginder; and Sandstrom, Paul H., to Goodyear Tire & Rubber Company, The. Tack in ethylene-propylene rubbers by adding a $C_5$-$C_{10}$ olefin polymer and a tackifier. 3,772,410, 11-13-73, Cl. 260-897.00a.
Lal, Saneja Iundar: *See—*
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Lalancette, Jean-Marc, to Universite de Sherbrooke. Polyhydroxy silicate-polymer reaction product. 3,748,300, 7-24-73, Cl. 260-38.000.
LaLanne, Jack, to LaLanne, Jack, Company, The. Weight lifting type exerciser with indicator. 3,752,473, 8-14-73, Cl. 272-62.000.
LaLanne, Jack, Company, The: *See—*
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Lale-Demoz, Roger, to Bobst, J., & Fils, S.A. Strip feed mechanism for a platen press. 3,770,175, 11-6-73, Cl. 226-110.000.
Laliberte, Albert J.; and Richardson, Ralph A., to Omnitech Inc. Night-vision training goggles. 3,722,985, 3-27-73, Cl. 350-311.000.
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Laliwala, Jitendra R., to Carborundum Company, The. Control system for a filtering apparatus. 3,735,566, 5-29-73, Cl. 55-273.000.
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Laman, William H., to International Business Machines Corporation. Security system for article handling apparatus. 3,749,993, 7-31-73, Cl. 318-563.000.
Lamarche, Robert Ernest; May, Carl Jerome, Jr.; Rosenthal, Charles William; and Saal, Frederick Alan, to Bell Telephone Laboratories, Incorporated. Delay compensation in multiplex transmission systems. 3,721,767, 3-20-73, Cl. 179-15.0as.
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Lamb, Edward Lawrence; McAinsh, Kenneth Gordon; and Smith, Ralph David, to Smiths Industries Limited. Head-up display apparatus. 3,709,589, 1-9-73, Cl. 353-13.000.
Lamb, Everette, Jr., 60% to Fair, James W. Artificial heart. 3,771,173, 11-13-73, Cl. 3-1.000.
Lamb, F. Jos., Company: *See—*
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Lamb, Frank, to Ciba-Geigy Corporation. Bonded polyester fibrous material and method. 3,734,796, 5-22-73, Cl. 156-176.000.
Lamb, George Edwin Robert; Prevorsek, Dusan Ciril; and Oswald, Hendrikus Johan, to Allied Chemical Corporation. Radiation curing of unsaturated polyester compositions. 3,719,539, 3-6-73, Cl. 156-199.000.
Lamb, Gilbert C., Jr.: *See—*
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Lamb, Glentworth: *See—*
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Lamb, Glentworth; and Hinz, Charles Frank, to American Cyanamid Company. Tetracyanodithiadiene and its salts as bactericides and algicides. 3,753,677, 8-21-73, Cl. 71-67.000.
Lamb, John T., to Tappan Company, The. Interlock circuit. 3,746,938, 7-17-73, Cl. 317-136.000.
Lamb, Leo M.: *See—*
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Lamb, Reginald T., to Bausch & Lomb Incorporated, mesne. Electrostatic printing apparatus. 3,725,950, 4-3-73, Cl. 346-74.0es.
Lamb, Reginald T., to Bausch & Lomb Incorporated, mesne. Surface pattern stylus board. 3,771,634, 11-13-73, Cl. 197-1.000.
Lamb, Robert M.: *See—*
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Lamb, Vernon A.; Young, John P.; and Ng, Wahling H., to United States of America, Army. Surface preparation of maraging steel for electroplating. 3,726,773, 4-10-73, Cl. 204-129.350.
Lamb, Vernon A.; Ng, Wahling H .; and Young, John P., to United States of America, Army. Fuel-metal compatibility test unit. 3,744,971, 7-10-73, Cl. 23-230.00r.
Lamb, Walter M. Sanding glove. 3,748,792, 7-31-73, Cl. 51-391.000.
Lamb-Weston, Inc.: *See—*
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Lambda Electronics Corporation: *See—*
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Lambdin, Foraker, Jr; and Randles, William W., to United States of America, Atomic Energy Commission. Method for manufacturing fibrous, carbonaceous composites having near isotropic properties. 3,718,720, 2-27-73, Cl. 264-29.000.
Lambeg Industrial Research Association: *See—*
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Lambell, Anthony John: *See—*
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Lambert, Bernard: *See—*
Ayel, Michel; Desselere, Jean-Pierre; and Lambert, Bernard, 3,767,473.
Lambert, Bernard; and Nicco, Adrien, to Societe Anonyme dite: Ethylene Plastique Courbevoie. Colourable polyolefin compositions. 3,765,829, 10-16-73, Cl. 8-4.000.
Lambert Brake Corporation, mesne: *See—*
Hahn, Emil H., 3,708,041.
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Lambert, Charles F., Jr., to Clayton & Lambert Manufacturing Company. Rotary sweep apparatus for drying wet grain. 3,755,917, 9-4-73, Cl. 34-179.000.
Lambert, Clifford H.: *See—*
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Lambert, Francois; and Bartosiak, Andrzej, to Centre Electronique de France. Colour television system for elimination of phase errors. 3,716,656, 2-13-73, Cl. 178-5.20r.
Lambert, Gary R.; and Depa, Louis S., to North American Rockwell Corporation. Adjusting arrangement for ink fountain blade. 3,730,090, 5-1-73, Cl. 101-365.000.
Lambert, Gerald G.: *See—*
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Lambert, Gerard L.; and Greenlay, Charles A., to Johns-Manville Corporation. Method of removing contents from container. 3,757,973, 9-11-73, Cl. 214-152.000.
Lambert, Jacques, to Flaminaire Marcel Quercia. Current-saving electrical igniter for gas lighters. 3,730,670, 5-1-73, Cl. 431-256.000.
Lambert, Joe C.; and Thomas, Sherrill G., to General Electric Company. Motor power and control circuit. 3,745,434, 7-10-73, Cl. 318-139.000.
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Lambert, John Robert, to Redment Engineering Company Limited. Transporter vehicles. 3,720,437, 3-13-73, Cl. 296-1.00a.
Lambert, Lucian T. Anchor. 3,776,172, 12-4-73, Cl. 114-208.000.
Lambert, Milton. Method and apparatus for generating fire-fighting foam. 3,780,812, 12-25-73, Cl. 169-15.000.
Lambert, Paul: *See—*
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Lambert, Paul. Establishment in a group of tubular elements of variable flows of liquid from a common source. 3,763,886, 10-9-73, Cl. 137-561.000.
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Lambert, Robert R., to Air Factors, Inc. Fire resistant air bar for use in a suspended ceiling structure. 3,724,356, 4-3-73, Cl. 98-40.00d.
Lambert, Robert R., to Air Factors, Inc. Air bar construction for fire resistant suspended ceiling. 3,748,998, 7-31-73, Cl. 98-40.00d.
Lambert, Robert R. Fluid flow meter head and system using same. 3,751,982, 8-14-73, Cl. 73-212.000.
Lambert, Robert R., to Wehr Corporation, mesne. Ceiling tile plenum boundary suspended ceiling construction. 3,757,666, 9-11-73, Cl. 98-40.00d.
Lambert, Robert R., to Wehr Corporation, mesne. Plug-in air diffuser subassembly for a variety of suspended ceiling framework. 3,757,667, 9-11-73, Cl. 98-40.00d.
Lambert, Robert R. Universal sensing apparatus for sensing volumetric rate of fluid flow. 3,765,241, 10-16-73, Cl. 73-212.000.
Lambert, Ronald D.: *See—*
Fall, Herbert S.; Fall, Martin K.; Fall, Maxwell S.; Scalf, Charles E.; Lambert, Ronald D.; and York, William D., 3,776,608.
Lambert, Ronald D., to Fall, Herbert S. Anti-creep ball bearing retainer for a drawer slide. 3,738,716, 6-12-73, Cl. 308-3.800.
Lambert, Roy E. Steam emitting ironing board. 3,774,327, 11-27-73, Cl. 38-104.000.
Lambert, Sidney K.: *See—*
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Lambert, William M. Method of reducing dependence on tobacco. 3,757,798, 9-11-73, Cl. 131-1.000.
Lamberti, Vincent; and Reardon, Robert, to Lever Brothers Company. Sodium exo-cis-1,4-endoxo-1-substituted cyclohex-5-ene-2,3-dicarboxylate compounds. 3,736,339, 5-29-73, Cl. 260-347.300.
Lamberti, Vincent; and Reardon, Robert. Detergent compositions. 3,751,369, 8-7-73, Cl. 252-89.000.
Lamberti, Vincent, to Lever Brothers Company. Sulfosuccinate derivatives of carbohydrates as builders for detergent compositions. 3,756,966, 9-40-73, Cl. 252-557.000.
Lamberti, Vincent; and Lemaire, Henry, to Lever Brothers Company. Detergent. 3,758,595, 9-11-73, Cl. 260-609.00r.
Lamberton, Bruce A. Means for encasing rigid members with concrete. 3,708,146, 1-2-73, Cl. 249-1.000.
Lambertus, Wanmaker Willem; and Emmasingel, Johannus Godefridus, to U.S. Philips Corporation. Luminescent phosphor. 3,723,339, 3-27-73, Cl. 252-301.60r.
Lambeth, Dennis Ernest, to Dowty Technical Developments Limited. Hydraulic apparatus. 3,717,424, 2-20-73, Cl. 418-126.000.
Lambeth, Dennis Ernest, to Dowty Technical Developments Limited. Hydraulic apparatus. 3,730,656, 5-1-73, Cl. 418-131.000.
Lambev, Yordan Gueorguiev, to DSO "Cherna Metalurgia i Rudodobiv. Gear-tooth arrangement and transmission incorporating same. 3,748,920, 7-31-73, Cl. 74-465.000.
Lambie, Alan James: *See—*
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Lambiris, Theodore, to General Motors Corporation. Shift indicator arrangement. 3,762,361, 10-2-73, Cl. 116-124.00r.
Lamboley, Gilbert Andre, to Etablissements Hutchinson Compagnie Nationale du Caoutchou. Anti-pollution barrier. 3,775,982, 12-4-73, Cl. 61-1.00f.
Lamborn, Homer C.; Gallup, Palmer C.; and Kao, Paul W., to United Concrete Pipe Corporation. Support apparatus for large diameter thin-wall metal cylinders. 3,728,883, 4-24-73, Cl. 72-142.000.
Lambrecht, Dietrich; and Weghaupt, Erich, to Kraftwerk Union Aktiengesellschaft. Rotor for electric machines, particularly turbogenerators. 3,749,952, 7-31-73, Cl. 310-54.000.
Lambrecht, Ralph E.; and Najimian, Harry, Jr., to Outboard Marine Corporation. Stern drive unit propeller trimming arrangement. 3,722,456, 3-27-73, Cl. 115-41.00r.
Lambrecht, Richard A., to Union Carbide Corporation. System for molding electronic components. 3,739,438, 6-19-73, Cl. 29-25.420.
Lambrette, Jurgen: *See—*
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Lambright, John E.: *See—*
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Lambrou, Nicholas S. Telephone dialing apparatus. 3,715,520, 2-6-73, Cl. 179-90.00a.
Lame, Stephen J.; and Holce, Thomas J. Percussive musical instrument with transducer for actuating an electronic tone generator. 3,748,367, 7-24-73, Cl. 84-1.040.
Lamensdorf, David: *See—*
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Lamer, Gerald P., to Case, J. I., Company. Jib assembly for telescoping crane boom. 3,732,988, 5-15-73, Cl. 212-144.000.
LaMere Industries, Inc.: *See—*
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Nard, Georges; Millot, Gerard; and Lamiraux, Christian, 3,774,211.
Lamka, Charles E.; and Atkins, Walter J. Apparatus and process for dispensing icy material. 3,712,019, 1-23-73, Cl. 53-29.000.
Lamke, Arland D., to McGraw-Edison Company. Motion transfer connecting device. 3,721,134, 3-20-73, Cl. 74-586.000.
Lamkemeyer, Klaus, to Mertens & Co. Kommanditgesellschaft. Bicycle saddle. 3,708,201, 1-2-73, Cl. 297-214.000.
Lamm, August. Chlorinator including means to feed an electrolyte of predetermined density and means to withdraw chlorine against a varying back pressure. 3,767,557, 10-23-73, Cl. 204-263.000.
Lamm, Christian: *See*—
Herzog, Gunther; Kahle, Gunter; Kolling, Wolfgang; Lamm, Christian; Munch, Ursula; Schumann, Horst; Wolfrom, Walter; Riesel, Werner; and Wagner, Roland, 3,717,489.
Lamm, Heinz, to Daimler-Benz Aktiengesellschaft. Rotary piston internal combustion engine especially of trochoidal construction. 3,710,575, 1-16-73, Cl. 60-298.000.
Lamm, Heinz, to Daimler-Benz Aktiengesellschaft. Rotary piston internal combustion engine. 3,716,313, 2-13-73, Cl. 418-121.000.
Lamm, Heinz, to Daimler-Benz Aktiengesellschaft. Rotary piston internal combustion engine, especially of trochoidal construction. 3,719,174, 3-6-73, Cl. 123-8.090.
Lamm, Heinz, to Daimler-Benz Aktiengesellschaft. Sealing bar for a rotary piston internal combustion engine. 3,730,655, 5-1-73, Cl. 418-122.000.
Lamm, Heinz, to Daimler-Benz Aktiengesellschaft. Oil tank for rotary piston internal combustion engine with dry sump lubrication. 3,749,074, 7-31-73, Cl. 123-196.00r.
Lamm, William R.: *See*—
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Lammarino, Nicholas J., to Kelco Company. Process for the production of particle board using cross-linked Xanthomonos colloid in the glue mixture. 3,736,275, 5-29-73, Cl. 260-17.300.
Lammermann, Heinz: *See*—
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Lammers, Gerald B.: *See*—
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Lammers, Peter C., to Goodyear Tire & Rubber Company, The. Method of making foamed articles having a reinforcing member. 3,773,875, 11-20-73, Cl. 264-45.000.
Lammers, Sidney G.; Ciarlone, Anthony N.; and Carrock, Frederick E., to Rexall Drug and Chemical Company. Composition comprising acrylonitrile-butadiene-styrene polymer beads coated with NN' ethylene bis stearamide. 3,712,872, 1-23-73, Cl. 260-23.70n.
Lammers, Sidney G.; and Lammers, Michael W., to Dart Industries Inc. Mixing unit for water extendible polyester resins or the like. 3,726,509, 4-10-73, Cl. 259-7.000.
Lamming, Ernest V. Device for measuring coins and wrapping them in rolls. 3,710,544, 1-16-73, Cl. 53-213.000.
Lamon, Robert W., to Eastman Kodak Company. 4-Thiouracil compounds, process for their preparation and their use in photography. 3,759,908, 9-18-73, Cl. 260-251.000.
LaMonaca, Philip A., to Polaroid Corporation. Photographic film unit for producing images in color. 3,741,766, 6-26-73, Cl. 96-76.00c.
Lamont, George Laurence, to Contract Cleaning Co., Pty. Limited. Combined floor-polisher and suction cleaner. 3,719,966, 3-13-73, Cl. 15-385.000.
Lamont, Peter, to Dow Corning Corporation. Pelletized silicone rubber. 3,714,204, 1-30-73, Cl. 260-373.00b.
Lamor, Kurt; Grunau, Dietrich; and Tarani, Gustav, to Muller, Peter, mesne. Heel gripping device for ski bindings. 3,753,572, 8-21-73, Cl. 280-11.35t.
LaMore, Donald J., Jr.: *See*—
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Lamoureux, Guy, to Shell Oil Company. High-capacity liquified fuel gas burner. 3,753,642, 8-21-73, Cl. 431-89.000.
Lamoureux, William Roger, to International Business Machines Corporation. Photonically partitioned continuous gas envelope and transiently energized pilot discharge areas used in address selection of display firing. 3,720,919, 3-13-73, Cl. 340-166.00r.
Lamp, Robert: *See*—
Jennings, Teari James; Vogellaar, Bernard Francis; and Lamp, Robert, 3,736,732.
Lamp, William F.: *See*—
Weisselberg, Edward B.; Worden, George M., Sr.; Lamp, William F.; and Lane, Alexander M., 3,777,409.
Lamparsky, Dietmar; and Schudel, Peter, to Givaudan Corporation. 8-Mercapto-p-menthane-3-ol and ester derivatives. 3,769,328, 10-30-73, Cl. 260-468.00r.
Lampart, Thomas; Scheidweiler, Andreas; and Kuhn, Max, to Cerberus AG. Ionization fire alarm device with shielding for its electrical circuitry. 3,710,110, 1-9-73, Cl. 250-83.6ct.
Lampart, Thomas; and Kuhn, Max, to Cerberus AG. Ionizing-type fire alarm sensor. 3,767,917, 10-23-73, Cl. 250-384.000.
Lampe, Bernst: *See*—
Jaskulke, Gerhard; Mayer, Max; Lampe, Bernst; Giebler, Fritz; and Steigenberger, Hasso, 3,717,723.
Lampert, Laurence L.; and Joyal, Arthur B., to Minijet Sportscrafts Inc. Vehicle and apparatus for moving the vehicle through a fluid. 3,721,208, 3-20-73, Cl. 115-6.100.
Lampert, Rolf: *See*—
Puhahn, Werner; and Lampert, Rolf, 3,757,805.
Lamperti, Enrico. Eyelet making device for springs, to be coupled to winding machines and operating at the same output speed of the latter. 3,721,276, 3-20-73, Cl. 140-103.000.
Lamplugh, Roland J.; and Meisel, Frederick W., Jr., to Scott Paper Company. Flexible, open-cell, non-discoloring polyurethane foam. 3,772,218, 11-13-73, Cl. 260-2.5bb.
Lamport, Ivan R.; Rother, Francis J.; and Loyd, Calvin D., to Caterpillar Tractor Company. Metal belt drive. 3,772,930, 11-20-73, Cl. 74-231.00m.
Lamprecht, Rudolf: *See*—
Brumm, Karl; and Lamprecht, Rudolf, 3,775,803.
Lampredi, Aurelio; Leoni, Aldo; Ghilardi, Francesco; Degiorgis, Francesco; and Joli, Luigi, to Fiat Societa per Azioni. Hydraulic tappets for internal combustion engines. 3,728,990, 4-24-73, Cl. 123-90.560.
Lams, Pierre-Paul: *See*—
Jacquerie, Jean-Marie; Defosse, Georges Jean-Pierre Hubert; and Lams, Pierre-Paul, 3,762,912.
Lamson & Sessions Co., The: *See*—
Mortus, Hal J., 3,747,656.
Robinson, Henry G., 3,747,833.
Sherman, Russel G., 3,770,036.
Lamson Paragon Limited: *See*—
Callum, George William, 3,732,009.
Dewaele, Daniel Camille Cornelius, 3,733,125.
Lamure, Bernard, to Societe Rhodiaceta. Phthalocyanine-type dyestuffs. 3,775,423, 11-27-73, Cl. 260-295.00a.
Lamy, Jacques Edouard, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Attenuation of noise from air or gas intake ducts, more especially in aircraft jet turbine engines. 3,710,889, 1-16-73, Cl. 181-33.0ha.
Lamy, Jacques Edouard Jean, to Societe d'Etude du Transport et de la Valorisation des Gaz Naturels du Sahara S.E.G.A.N.S. Method of producing composite concrete-steel pipes and joints and pipe and joint obtained by means of said method. 3,758,940, 9-18-73,Cl. 29-460.000.
Lamy, Michel; and Billard, Jacques, to Thomson-CSF. Waveguide directional coupler. 3,721,921, 3-20-73, Cl. 333-10.000.
Lana, Garnet L. Nail screw driving tool head. 3,762,733, 10-2-73, Cl. 279-103.000.
Lana, Lori, Wigs Limited: *See*—
Mason, Leonite Kathleen, 3,721,251.
Lanahan, Bernard E.: *See*—
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Lanahan, John H.; and Abraham, William W., to Mohawk Industrial Laboratories, Inc. Brush for assisting in separation of sheets. 3,718,255, 2-27-73, Cl. 209-80.500.
Lanam, Richard D.: *See*—
Shapiro, Stanley; Goldman, Alan J.; Tyler, Derek E.; and Lanam, Richard D., 3,712,837.
Shapiro, Stanley; Goldman, Alan J.; Tyler, Derek E.; and Lanam, Richard D., 3,772,092.
Lanaro, Clara M. Music teaching aid. 3,715,951, 2-13-73, Cl. 84-470.000.
Lanas, Frances J.: *See*—
Lunas, Francis J.; Burroughs, Edward E.; and Smith, Franklin G. (said Burroughs and Smith assors. to said), 3,738,363.
Lancaster, James Kenneth; and Yates, David William, to Caludon Engineering Company Limited. Machine tool having two adjustable cutter heads. 3,768,364, 10-30-73, Cl. 90-15.000.
Lancaster, John Edgar: *See*—
Borders, Donald Bruce; and Lancaster, John Edgar, 3,770,773.
Lancaster, John T., to Fenton Company, The. Multiple speed gear shift. 3,744,336, 7-10-73, Cl. 74-473.00r.
Lancaster, Raymond E.: *See*—
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Lance, David George: *See*—
Clarke, Brian James; Hildebrand, Robert Peter; Lance, David George; and White, Alexander William, 3,765,903.
Lance, Raymond E., to Construction Technology, Inc. Compactor suspension system. 3,749,506, 7-31-73, Cl. 404-133.000.
Lancellotti, Joseph J. Basketball equipment support with carrying case. 3,716,234, 2-13-73, Cl. 273-1.50r.



Lancelot, Charles J.; and MacKellar, Donald G., to FMC Corporation. Polyelectrolyte builder and detergent compositions. 3,761,412, 9-25-73, Cl. 252-550.000.
Lancelot, Charles J.; and MacKeller, Donald G. Polyelectrolyte builder and detergent compositions. 3,764,586, 10-9-73, Cl. 260-78.40r.
Lancer Boss Limited: *See*—
Bowman-Shaw, George Neville, 3,739,931.
Bowman-Shaw, George Neville, 3,756,437.
Kinross, John, 3,709,392.
Lancia, Frederick N.; and Liebert, Ralph C., to Liebert Corporation. Air control system. 3,714,980, 2-6-73, Cl. 165-11.000.
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Lancor, Joseph H., Jr.; deceased (by Lancor, Ellen B.; administratrix); and Cooper, Dexter P., Jr., to Bell & Howell Company. Analytical photographic exposure meter. 3,724,343, 4-3-73, Cl. 95-10.00r.
Lancy Laboratories, Inc., mesne: *See*—
Lancy, Leslie E., 3,738,868.
Lancy, Leslie E.; and Wittmann, Ivan E., to Dart Industries, Inc. Treatment of waste metal processing solution spillage. 3,714,039, 1-30-73, Cl. 210-60.000.
Lancy, Leslie E., to Resource Control, Inc. Electrolytic process. 3,719,570, 3-6-73, Cl. 204-151.000.
Lancy, Leslie E., to Lancy Laboratories, Inc., mesne. Waste treatment of aluminum containing solutions. 3,738,868, 6-12-73, Cl. 134-13.000.
Lancy, Leslie E.; and Kruse, David C., to Dart Industries, Inc. Electrodialysis regeneration of metal containing acid solutions. 3,764,503, 10-9-73, Cl. 204-180.00p.
Lancz, Albert Jay, to Colgate-Palmolive Company. Liquid laundry detergents and a process for preparing same. 3,726,814, 4-10-73, Cl. 252-543.000.
Land Bros. Inc.: *See*—
Contreras, Manuel H.; and Land Bros. Inc., 3,708,372.
Land, Cecil E.: *See*—
Haertling, Gene H.; Land, Cecil E.; and McKinney, Ira D., 3,741,627.
Land, Cecil W.; and Smith, Willis D., to United States of America, Atomic Energy Commission. Self strain biased ferroelectric electrooptics. 3,740,118, 6-19-73, Cl. 350-150.000.
Land, Dick H. Golf game practicing machine. 3,756,606, 9-4-73, Cl. 273-182.00r.
Land, Edwin H., to Polaroid Corporation. Motion picture system with unique projector and method. 3,709,588, 1-9-73, Cl. 352-78.00r.
Land, Edwin H., to Polaroid Corporation. Diffusion transfer receiving element with varing concentration of precipitating nuclei. 3,709,687, 1-9-73, Cl. 96-29.00l.
Land, Edwin H., to Polaroid Corporation. Motion picture cassette. 3,711,192, 1-16-73, Cl. 352-78.00r.
Land, Edwin H.; Blinow, Igor; and Eloranta, Vaito K., to Polaroid Corporation. Reflex camera. 3,714,879, 2-6-73, Cl. 95-42.000.
Land, Edwin H., to Polaroid Corporation. Motion-picture system. 3,719,416, 3-6-73, Cl. 352-72.000.
Land, Edwin H.; and Norris, Philip R., to Polaroid Corporation. Binocular rangefinder-viewfinder with Fresnel optics. 3,719,422, 3-6-73, Cl. 356-8.000.
Land, Edwin H., to Polaroid Corporation. Integral laminate photographic units comprising developing composition-spreader sheets containing a polymeric acidifying layer. 3,721,562, 3-20-73, Cl. 96-61.00m.
Land, Edwin H.; Bloom, Stanley M.; and Farney, Leonard C., to Polaroid Corporation. Silver image stabilization with noble metal compounds and α,β-enediol developer. 3,730,716, 5-1-73, Cl. 96-29.00r.
Land, Edwin H.; and Bachelder, Albert J., to Polaroid Corporation. Photographic film unit. 3,732,101, 5-8-73, Cl. 96-76.00c.
Land, Edwin H.; and Carcia, Peter P., to Polaroid Corporation. Photographic apparatus and system with automatic film cover ejection. 3,750,551, 8-7-73, Cl. 95-11.000.
Land, Edwin H., to Polaroid Corporation. Film-advancing apparatus. 3,753,392, 8-21-73, Cl. 95-13.000.
Land, Edwin H.; and Chen, Richard J., to Polaroid Corporation. Self-developing photographic film assemblage. 3,761,268, 9-25-73, Cl. 96-76.00c.
Land, Edwin H., to Polaroid Corporation. Manually controlled replay system for automatic transparency processing and projection apparatus. 3,771,861, 11-13-73, Cl. 352-130.000.
Land, Edwin H.; and Bennett, Stewart, to Polaroid Corporation. Supervisory control system for automatic transparency processing and projection apparatus. 3,771,862, 11-13-73, Cl. 352-130.000.
Land, Edwin H., to Polaroid Corporation. Diffusion transfer receiving sheets. 3,772,025, 11-13-73, Cl. 96-76.00r.
Land, Edwin H., to Polaroid Corporation. Photographic cassette for making and storing transparencies incorporating programmed film strip with opaque reflective segments. 3,776,624, 12-4-73, Cl. 352-130.000.
Land, Edwin H., to Polaroid Corporation. Color diffusion transfer photographic products, processes and compositions. 3,776,726, 12-4-73, Cl. 96-3.000.
Land, Edwin H., to Polaroid Corporation. Photographic apparatus and method for treating photographic materials with a liquid. 3,777,647, 12-11-73, Cl. 95-89.001.
Land, Edwin H., to Polaroid Corporation. Photographic system comprising film cassette including self-contained processing apparatus and film drive and projection system controlled thereby. 3,778,140, 12-11-73, Cl. 352-130.000.
Land, Edwin H., to Polaroid Corporation. Photographic products and processes. 3,778,265, 12-11-73, Cl. 96-3.000.
Land, Edwin H., to Polaroid Corporation. Photographic products comprising an opacifying agent in association with a reflecting agent. 3,778,271, 12-11-73, Cl. 96-77.000.
Land, Karl M.: *See*—
Aldrich, Charles A.; and Land, Karl M., 3,735,338.
Land, Karl M., to Cities Service Oil Company. Explosive stimulation well completions. 3,707,914, 1-2-73, Cl. 102-20.000.
Land, Karl M., to Cities Service Oil Company. Method of increasing productivity and the injectivity of oil wells. 3,730,276, 5-1-73, Cl. 166-314.000.
Land, Karl M., to Cities Service Oil Company. Means for stabilizing wellbores. 3,746,092, 7-17-73, Cl. 166-207.000.
Land O'Lakes, Inc.: *See*—
Kudale, Jagannath M.; and Lumby, Donovan H., 3,739,713.
Land Pyrometers Limited: *See*—
Coe, Charles David, 3,709,040.
Swithenbank, Joseph; and Taylor, David Shaw, 3,733,166.
Swithenbank, Joshua; and Taylor, David Shaw, 3,772,670.
Land, Robert Lee, 40% to Smith, Horace. Stringed musical instrument having tone-varying means. 3,763,735, 10-9-73, Cl. 84-200.000.
Landa, Torstein: *See*—
Johansson, Paul; Landa, Torstein; and Larker, Hans, 3,775,043.
Landa, Torstein; Syvakari, Pertti; and Westman, Erik, to Allmanna Svenska Elektriska Aktiebolaget. Press for hydrostatic extrusion. 3,709,014, 1-9-73, Cl. 72-60.000.
Landahl, Carl D.: *See*—
Klass, Donald L.; and Landahl, Carl D., 3,761,232.
Landau, Adela: *See*—
Grunwald, John J.; Solminski, Leo J.; Landau, Adela; and Shah, Dilip G., 3,779,842.
Slominski, Leo J.; Landau, Adela; and Siegmund, Arthur J., 3,717,521.
Landau, Michael B.: *See*—
Claus, Joseph V.; Landau, Michael B.; and Vartanian, George, 3,748,180.
Landauer, Franz; Beermann, Claus; Reuter, Martin; Lebkucher, Karl Heinz; and Kiesling, Hubert, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Wetting agents for alkaline baths. 3,730,903, 5-1-73, Cl. 252-156.000.
Landauer, Le Roy; Blakslee, Edward Leroy; Abraham, Benjamin Ichak; and Stieglitz, Henry Gilbert, to American Can Company. Roll-through method for electrocoating can ends. 3,759,810, 9-18-73, Cl. 204-181.000.
Lande, Oscar A. Containerized liquid dispensing system. 3,762,606, 10-2-73, Cl. 222-88.000.
Landel, Robert F.: *See*—
Rembaum, Alan; Landel, Robert F.; and Keyzer, Hendrik, 3,778,476.
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Landen, William James, to Eyelet Specialty Company. Bottle closure. 3,741,424, 6-26-73, Cl. 215-43.00r.
Lander, James E.: *See*—
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Lander, William M.: *See*—
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Landerer, Meinrad; and Kuisle, Anton. Removable anti-skid arrangement for vehicle tires. 3,735,789, 5-29-73, Cl. 152-217.000.
Landers, Adrian L.: *See*—
Morton, David L.; and Landers, Adrian L., 3,742,993.
Landers, Leonard R.: *See*—
Pavone, Robert J.; and Landers, Leonard R., 3,772,949.
Landers, William A.: *See*—
Hawkey, Lynn J.; Landers, William A.; and Nesbitt, Frank E., 3,728,484.
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Price, Ralph E., 3,747,283.
Landgraf, Claus-Adolf; Seeger, Ernst; Engel, Wolfhard; Teufel, Helmut; and Machleidt, Hans, to Boehringer Ingelheim G.m.b.H. 2-Methyl-3-aminoalkyl-3-phenyl-indolines. 3,769,299, 10-30-73, Cl. 260-326.110.



Landgraf, Karl: *See*—

Landgraf, Karl: *See—*
Hollerl, Alois; and Landgraf, Karl, 3,709,320.
Landgraf, William B.: *See—*
Anderson, Robert M.; Hanson, James M.; Lecrone, Richard C.; and Landgraf, William B., 3,725,693.
Landherr, Lawrence R.; and Prohaska, Karl J., to Milwaukee Cylinder Corporation. Automatically reversing, double acting fluid cylinder mechanism. 3,720,137, 3-13-73, Cl. 91-279.000.
Landherr, Lawrence R., to Milwaukee Cylinder Corporation. Hydraulic shock damping device. 3,739,808, 6-19-73, Cl. 137-493.000.
Landholm, Richard A.: *See—*
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Landi, Anthony O. Automobile theft prevention lock. 3,773,139, 11-20-73, Cl. 180-114.000.
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Landingham, Richard L., to United States of America, Army. Method for forming metal-filled ceramics of near theoretical density. 3,718,441, 2-27-73, Cl. 29-182.100.
Landini, Piercarlo: *See—*
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Landis, Abraham L.: *See—*
Bilow, Norman; and Landis, Abraham L., 3,729,433.
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Landis, David M.: *See—*
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Landis, David M., to Thomas & Betts Corporation. Applicator electrodes with a very thin non-metallic, current distributing layer. 3,721,246, 3-20-73, Cl. 128-404.000.
Landis, Donald E.: *See—*
Sidhu, Mohanjit S.; and Landis, Donald E., 3,772,926.
Landis, Donald E., to National Cash Register Company, The. Color bar printer. 3,712,210, 1-23-73, Cl. 101-93.00c.
Landis, Donald H.; and Pfaff, Richard C., to Epic Metals Corporation. Building construction. 3,713,261, 1-30-73, Cl. 52-289.000.
Landis, Earle H. Handbag with break-away purse. 3,727,657, 4-17-73, Cl. 150-35.000.
Landis, Elmer J., to Armstrong Cork Company. Method of reproducing wood grain surface configurations. 3,711,346, 1-16-73, Cl. 156-58.000.
Landis, Franklin F.: *See—*
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Landis, George Gideon: *See—*
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Price, Ralph E.; and Schoonover, Stanley C., 3,716,949.
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Spietschka, Ernst; and Landler, Josef, 3,775,434.
Landman, Dirk, to Du Pont de Nemours, E. I., and Company. Solder terminal strip. 3,750,252, 8-7-73, Cl. 29-191.600.
Lando, David Jacob, to Western Electric Company, Incorporated. Method of selectively depositing a metal on a surface of a substrate. 3,776,770, 12-2-73, Cl. 117-212.000.
Landon, Steven, to Washex Machinery Corporation. Process for removing soil from and for treating cleaning mops and rags. 3,746,508, 7-17-73, Cl. 8-141.000.
Landoni, Giannino. Automatic quilting machine. 3,757,710, 9-11-73, Cl. 112-118.000.
Landoni, Giannino. Modular unit for the spinning of synthetic fibers. 3,767,347, 10-23-73, Cl. 425-379.000.
Landor, Walter, Associates, mesne: *See—*
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Landre, John K.; Kline, Donald D.; and Broemmelsiek, Marc W., to Commercial Electronics, Incorporated. Optics for high sensitivity color television camera. 3,718,751, 2-27-73, Cl. 178-5.40e.
Landree, Raymond L., to Bendix Corporation, The. Depth-type filter for operation with high differential pressures across the filter. 3,720,323, 3-13-73, Cl. 210-493.000.
Landreville, Gerald, to Dow Chemical Company, The. Apparatus and method for tamping particulate materials into a container. 3,716,081, 2-13-73, Cl. 141-12.000.
Landrith, James Edward, to Van Dyk Research Corporation. Xerographic toner concentration measuring apparatus and method. 3,777,173, 12-4-73, Cl. 250-575.000.
Landrock, Jurgen: *See—*
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Landrum, Leon L.; and Holder, Robert L., to Esquire, Inc. Light support. 3,781,539, 12-25-73, Cl. 240-52.00r.
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Landrum, Porter, 3,721,430.
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Landrum, Ralph A., Jr., to Amoco Production Company. Automatic presetting of vibrator phase-lock circuits. 3,761,874, 9-25-73, Cl. 340-17.000.
Landrus, James D.; Norris, Allan S.; and Edmunds, John O., to General Motors Corporation. Valving arrangement. 3,739,807, 6-19-73, Cl. 137-469.000.
Landry, Charles A. J. Golf practice device. 3,765,683, 10-16-73, Cl. 273-195.000.
Landry, Norman R.; and Grabowski, Joseph P., to United States of America, Navy, mesne. Versatile in line waveguide to coax transition. 3,758,886, 9-11-73, Cl. 333-97.00r.
Landry, Norman Richard: *See—*
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Mason, Robert Jean; and Landry, Norman Richard, 3,768,040.
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Landsman, Irving. Actuating cap for an aerosol device. 3,765,573, 10-16-73, Cl. 222-182.000.
Landsman, Robert M., to Perkin-Elmer Corporation, The. Printing plate production method and apparatus. 3,739,088, 6-12-73, Cl. 178-6.6tp.
Landsman, Robert M., to Perkin-Elmer Corporation, The. Method of forming relief printing plate. 3,742,853, 7-3-73, Cl. 101-401.100.
Landsman, Robert M., to Perkin-Elmer Corporation, The. Radiation etchable plate. 3,779,779, 12-18-73, Cl. 96-363.000.
Landsness, Clifford A.: *See—*
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Landt, Uwe; Slifert, Helmut; and Bretschneider, Otto, to Knapsack Aktiengesellschaft. Apparatus for the manufacture of potassium. 3,768,790, 10-30-73, Cl. 266-15.000.
Landthaler, Anton, to Veitscher Magnesitwerke-Aktien-Gesellschaft. Heating installation for heating particulate raw materials. 3,712,600, 1-23-73, Cl. 263-32.00r.
Landures, John, to Dynasty Oil and Minerals Corporation. Device for monitoring golf practice swings. 3,741,550, 6-26-73, Cl. 273-186.00r.
Landvogt, Gunther Friedrich, to U.S. Philips Corporation. Apparatus for linearly converting a mechanical quantity into a frequency. 3,733,890, 5-22-73, Cl. 73-67.200.
Landwehr, Gunter, to Adler, Koch, AG. Thread cutting device for double stitch sewing machines. 3,756,177, 9-4-73, Cl. 112-252.000.
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Angelini, Antonio; Handel, Hubert; Landwehr, Heinz; Karlheinz, Hammelmann; Schoning, Josef; Schwenk, Bernd; and Huck, Gerhard, 3,751,336.
Landwehrkamp, Hans, to Schubert & Salzer Maschinenfabrik Aktiengesellschaft. Fibre sliver spinning device. 3,762,146, 10-2-73, Cl. 57-58.950.
Landwer, Donald C.; and Lorenz, Allan A., to Teletype Corporation. Data transmitting systems. 3,779,321, 12-18-73, Cl. 178-66.00r.
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Lane, Buddy F., to Avco Corporation. Head or back support for wheelchair. 3,730,589, 5-1-73, Cl. 297-391.000.
Lane, Buddy F.; and Church, Donald E., to Avco Corporation. Brake lining wear warning system. 3,735,343, 5-22-73, Cl. 340-52.00a.
Lane, Carl A.: *See—*
Smith, Dwight K.; and Lane, Carl A., 3,774,683.
Lane, Clyde H., to United States of America, Air Force. Method for packaging hybrid circuits. 3,740,920, 6-26-73, Cl. 53-39.000.
Lane, Constance A.: *See—*
Lutz, John T., Jr.; and Lane, Constance A., 3,723,369.
Lane, Constance A.; Harrop, William H.; and Graham, Roger K., to Rohm & Haas Company, Low-temperature and oil-resistant coreshell acrylic polymers. 3,745,196, 7-10-73, Cl. 260-881.000.
Lane, Donald W.; and Pemberton, Troy J., to Phillips Petroleum Company. Modified on-off control. 3,778,025, 12-11-73, Cl. 251-129.000.
Lane, Edward Sydney: *See—*
Grimes, John Herbert; and Lane, Edward Sydney, 3,776,987.
Marshall, Alan; Holburt, Geoffrey Alan; and Lane, Edward Sydney, 3,773,682.
Lane, George A.: *See—*
Drake, Stevens S.; Lane, George A.; Staudacher, Gerald R.; and Girardin, Donald W., 3,712,233.
Lane, George C.; Cartwright, Cyril A.; and Elmslie, Keith W., to Warner-Lambert Company. Article coating method. 3,723,276, 3-27-73, Cl. 204-192.000.
Lane, George C.; Cartwright, Cyril A.; and Elmslie, Keith W., to Warner-Lambert Company, mesne. Sputter coating apparatus with shrouding means. 3,740,327, 6-19-73, Cl. 204-298.000.
Lane, George C., to Warner-Lambert Company. Razor blade with RF sputtered coating. 3,754,329, 8-28-73, Cl. 30-346.530.
Lane, George C., to Warner-Lambert Company. Apparatus for coating continuous strips of ribbon razor blade material. 3,775,285, 11-27-73, Cl. 204-298.000.
Lane, Gerard. Timing device. 3,781,655, 12-25-73, Cl. 324-16.00r.
Lane, Henry G. Capless can detecting and turning apparatus. 3,776,377, 12-4-73, Cl. 209-73.000.
Lane, Jack C.: *See—*
Duffer, Edward F.; Funk, Ernest J.; Jankowski, Alfred S.; Lane, Jack C.; Lehner, William L.; Oliver, Floyd F.; and Schneider, Mark, 3,765,590.
Lane, Joseph J.: *See—*
Nepper, John P.; Lane, Joseph J.; and Skuja, Juris, 3,764,156.
Lane, Kenneth H., to Kearney & Trecker Corporation. Method of forming T-slots in a machine tool table. 3,725,634, 4-3-73, Cl. 219-121.0em.
Lane, Marvin K., to United States Gypsum Company. Retarded gypsum plaster for use in long set aggregate mortar applications. 3,723,146, 3-27-73, Cl. 106-110.000.
Lane, Michael Stephen: *See—*
Fairchild, David Lee; and Lane, Michael Stephen, 3,731,001.
Lane, Norman: *See—*
Evans, Philip Henry; and Lane, Norman, 3,773,332.
Lane, Ralph D.: *See—*
Davidson, Evan E.; Lane, Ralph D.; and Saia, Jerry, 3,745,539.
Lane, Robert, to Platt International Limited. Open-end textile spinning machines. 3,777,329, 12-11-73, Cl. 15-301.000.
Lane, Robert E.: *See—*
Terry, Ruel C.; and Lane, Robert E., 3,738,929.
Lane, Robert W., to Airolite Company, The. Louver assembly. 3,771,430, 11-13-73, Cl. 98-121.00r.
Lane, Thomas A.: *See—*
Lang, Theo O.; and Lane, Thomas A., 3,758,371.
Lane, Wesley A.; Miller, William G.; and Whitney, Robert G., to United States Steel Corporation. Apparatus for applying lubricant to a workpiece in a hot strip mill. 3,763,679, 10-9-73, Cl. 72-14.000.
Lane, William A.: *See—*
Meissner, Konrad E.; Lane, William A.; and Pelster, Edwin J., 3,766,702.
Lane, William A.; and Meissner, Konrad E., to Filper Corporation. Package separator and corner cutting die for individual. 3,759,122, 9-18-73, Cl. 83-24.000.
Lane, William C.: *See—*
Bazler, Seward M.; and Lane, William C., 3,737,371.
Lane, William P.: *See—*
De Jesus, Charles; Lane, William P.; and Wareham, Richard R., 3,727,529.
Lane, William P., to Polaroid Corporation. Light-weight reflex operator assembly. 3,763,756, 10-9-73, Cl. 95-42.000.
Lane, William Patrick, to Polaroid Corporation. Seating arrangement for a reflecting member. 3,769,892, 11-6-73, Cl. 95-42.000.
Lanes, Albert. Optical flashing light simulator and alerting device. 3,771,123, 11-6-73, Cl. 340-104.000.
Lanes, Stanley S.: *See—*
Mayer, Nathan; and Lanes, Stanley S., 3,747,547.
Lanevsky, Valery Evgenievich: *See—*
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Laney, Barton H., to Nuclear-Chicago Corporation. Multiple sample coincidence counter. 3,723,736, 3-27-73, Cl. 250-71.50r.
Laney, Barton H., to Nuclear-Chicago Corporation. Method and apparatus for determining efficency in a liquid scintillation counting system. 3,725,657, 4-3-73, Cl. 250-71.50r.
Laney, Barton H., to Searle, G. D., & Co. Liquid scintillation coincidence detector. 3,772,512, 11-13-73, Cl. 250-366.000.
Laney, Barton H., to Searle, G. D., & Co. Probability based selective pulse height discrimination in scintillation detectors. 3,781,544, 12-25-73, Cl. 250-362.000.
Laney, Campbell P., Jr.; White, William Thomas; and Mercer, Harry L., to Stevens, J. P., & Co., Inc. Padding apparatus with anti-flowback guide. 3,757,545, 9-11-73, Cl. 68-43.000.
Laney, Henry J. Method and apparatus for cleaning vessels afloat. 3,709,184, 1-9-73, Cl. 114-222.000.
Lanfermann, Willy, to Gebr. Eickhoff, Maschinenfabrik und Eisengiesserei m.b.H. Longwall mining machine overhanging face side of conveyor. 3,753,595, 8-21-73, Cl. 299-43.000.
Lang, Albert F. Chum dispensing device. 3,769,740, 11-6-73, Cl. 43-44.990.
Lang, Albert, Jr.; and Herte, Lawrence F., to Varian Associates. Radio frequency sputter apparatus and method. 3,767,551, 10-23-73, Cl. 204-192.000.
Lang, Albert L.; and Smith, George A. W. Self-contained unauthorized entry alarm. 3,720,937, 3-13-73, Cl. 340-283.000.
Lang, Alphonse Gregory, Jr., to Ceramic Magnetics, Inc. Magnetic head assembly. 3,760,494, 9-25-73, Cl. 29-603.000.
Lang, Andre, to Societe Nationale des Petroles d'Aquitaine. Synthesis of aliphatic amino and/or carboxy compounds. 3,772,358, 11-13-73, Cl. 260-404.000.
Lang, Armin; and Wiedemann, Erwin, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Servosteering arrangement. 3,765,181, 10-16-73, Cl. 60-386.000.
Lang, Arnold: *See—*
Ambros, Rafael Foguet; Beerwald, Alexander; and Lang, Arnold, 3,708,955.
Lang, Charles R.; and Schock, Donald N., to Ford Motor Company. Multiple bed catalytic converter. 3,730,691, 5-1-73, Cl. 23-288.00f.
Lang, Dietmar: *See—*
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Lang, Edgar R.: *See—*
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Lang, Edward Wilkerson: *See—*
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Lang, Ernest U., to National-Standard Company. Reducing and sintering furnace means. 3,724,977, 4-3-73, Cl. 425-72.000.
Lang, Ernest U.; and Mallory, Edwin E., to National-Standard Company. Overrunning band clutch assembly with selective engagement means in the drive direction. 3,732,959, 5-15-73, Cl. 192-91.00a.
Lang, Ernest U., to National-Standard Company. Apparatus for fabricating continuous elongated components. 3,744,946, 7-10-73, Cl. 425-79.000.
Lang, F. S., Manufacturing Company: *See—*
Wertheimer, Donald J.; Fish, Richard D.; and Holmes, Ralph A., 3,714,885.
Lang, Franz. Motor vehicle safety device. 3,734,533, 5-22-73, Cl. 280-150.00b.
Lang, Georges F., to Centre de Recherches de Pont-a-Mousson. Method and device for winding reinforcing threads for producing tubular bodies of reinforced synthetic resin. 3,708,132, 1-2-73, Cl. 242-7.230.
Lang, Gerard, to L'Oreal. Process for preparing 1-hydroxy-3-methyl anthraquinones. 3,773,801, 11-20-73, Cl. 260-383.000.
Lang, Gregor L. Alternating current relays. 3,735,301, 5-22-73, Cl. 335-244.000.
Lang, Hans: *See—*
Ebner, Helmut; Stumer, Bernd; and Lang, Hans, 3,750,911.
Lang, Heinwig; and Laschat, Fritz, to Fernseh G.m.b.H. Beam splitting prism system for color television. 3,767,290, 10-23-73, Cl. 350-173.000.
Lang, Imre. Bumper repair tools and process of manufacture. 3,753,368, 8-21-73, Cl. 72-475.000.
Lang, Jack H. Art paint saver. 3,779,369, 12-18-73, Cl. 206-1.800.
Lang, Jerry M., to Care, Inc. Anti-pollution liquid waste burning incinerator. 3,756,170, 9-4-73, Cl. 110-7.00r.
Lang, John M.: *See—*

Watts, John F.; Lang, John M.; Simonson, Alden D.; and Nomura, Raymond S., 3,709,450.

Lang, Kai, to Nuclear Data (Ireland) Limited. Counterbalanced stand for camera. 3,756,549, 9-4-73, Cl. 248-123.000.

Lang, Karl, to Siemens Aktiengesellschaft. Electric machine of large diameter and low rotational speed having a liquid-cooled rotor. 3,748,506, 7-24-73, Cl. 310-53.000.

Lang, Karl, to Leitz, Ernst, G.m.b.H. Apparatus for generating phase modulated electrical signals in response to a measured angular or linear displacement. 3,768,022, 10-23-73, Cl. 328-39.000.

Lang, Ludwig G., to Ingenieurburs fur Angewandte Physik und Chemie. Apparatus for the decontamination of internal combustion engine exhaust gases. 3,759,499, 9-18-73, Cl. 261-41.00d.

Lang, Manfred, to Siemens Aktiengesellschaft. Holographic recording with two groups of differently oriented plane polarized object illumination beams. 3,779,625, 12-18-73, Cl. 350-3.500.

Lang, Marshall Ira, to Bajer Industries Incorporated. Suspended ceiling system including a grid network. 3,742,674, 7-3-73, Cl. 52-666.000.

Lang, Paul Wentworth, 1/2 to Du Pont, Michael H. Multiple shutter system for cameras and projectors. 3,712,202, 1-23-73, Cl. 95-58.000.

Lang, Philip C.: *See*—
Dickinson, William B.; and Lang, Philip C., 3,732,217.

Lang, Robert, to CIBIE Projecteurs. Device for compensating for the variations of the viscosity of a fluid in a hydraulic circuit depending on its temperature. 3,712,342, 1-23-73, Cl. 138-46.000.

Lang, Robert J.; Holt, Eugene L.; and Stoneback, David N., to Esso Research and Engineering Company. Regeneration of flue gas desulfurization sorbents. 3,778,501, 12-11-73, Cl. 423-244.000.

Lang, Stewart M.: *See*—
Amberg, Stephen W.; Heyne, Clarence A.; Lang, Stewart M.; and Meincer, John H., 3,760,968.
Birner, Richard A.; Kohler, Robert D.; and Lang, Stewart M., 3,716,136.

Lang, Theo O.; and Lane, Thomas A., to Foster Grant Co., Inc. Plastic net laminate material. 3,758,371, 9-11-73, Cl. 161-88.000.

Lang, Thomas G. High speed ship with submerged hulls. 3,730,123, 5-1-73, Cl. 114-66.50h.

Lang, Thomas Norman. Stabilising apparatus for ships and the like. 3,760,759, 9-25-73, Cl. 114-126.000.

Lang, Walter: *See*—
Froehlich, Walter; and Lang, Walter, 3,728,481.

Lang, Walter, to Zeiss-Stiftung, Carl; d/b/a Zeiss, Carl. Method of and device for the automatic focusing of microscopes. 3,721,759, 3-20-73, Cl. 178-7.200.

Lang, Willi; and Sprenger, Manfred, to Audi NSU Auto Union Aktiengesellschaft. Airing device for motor vehicles. 3,724,358, 4-3-73, Cl. 98-2.180.

Lang, William D.: *See*—
White, Edward L.; Schwarcz, Joseph; and Lang, William D., 3,740,245.

Lang, William J.; and Hentz, Donald A., to International Minerals & Chemical Corporation. Process for flocculating oil and clay-containing slimes. 3,723,310, 3-27-73, Cl. 210-53.000.

Lang, Winfried: *See*—
Bienert, Klaus; Lang, Winfried; and Weidner, Herbert, 3,711,594.
Bienert, Klaus; Lang, Winfried; and Nordt, Egon, 3,734,817.
Bienert, Klaus; Lang, Winfried; and Kremser, Fritz, 3,741,817.

Langager, Bruce A., to Minnesota Mining and Manufacturing Company. Poly(hexasubstituted melamines). 3,779,997, 12-18-73, Cl. 260-77.50r.

Langan, Joseph E.: *See*—
Sanger, David M.; and Langan, Joseph E., 3,780,350.
Tipton, William C.; and Langan, Joseph E., 3,717,860.

Langan, Marion J., to Avco Corporation. Capacitance compensation circuit. for differential amplifier. 3,725,804, 4-3-73, Cl. 330-69.000.

Langan, Marion J., to Avco Corporation. Band pass filter and detection circuit. 3,757,236, 9-4-73, Cl. 328-167.000.

Langan, Marion J., to Avco Corporation. Direct current amplifier drift reduction method. 3,757,239, 9-4-73, Cl. 330-9.000.

Langan, Robert E.: *See*—
Harms, Van Deursen; Jensen, Edward R.; and Langan, Robert E., 3,753,729.

Langauer, Theodor, to Ciba-Geigy AG. Maltese-cross scored tablet. 3,723,614, 3-27-73, Cl. 424-15.000.

Langbein-Pfanhauser Werke AG: *See*—
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Langdon, J. Phillip: *See*—
Reed, Frederick P.; and Langdon, J. Phillip, 3,771,452.

Langdon, Jack L., to International Business Machines Corporation. Semiconductor resistor. 3,729,662, 4-24-73, Cl. 317-235.00r.

Langdon, Jack L., to International Business Machines Corporation. Process for fabricating passivated transistors. 3,771,218, 11-13-73, Cl. 29-578.000.

Langdon, Michael J.: *See*—
Draugelis, Vaidevutis C.; Hartman, William R., Jr.; Langdon, Michael J.; and McCarroll, Alan F., 3,724,943.

Langdon, Michael J., to Xerox Corporation. Electrostatic transfer method. 3,729,311, 4-24-73, Cl. 96-1.200.

Langdon, Vernon L.: *See*—
Patton, Richard S.; Keyser, Naaman H.; Langdon, Vernon L.; Beaucaire, Victor D.; and Marlin, Louis A., 3,740,859.

Lange, Daniel J.: *See*—
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Lange, Erwin, to Bullmerwerk Karl Bullmer. Marking needle for a fabric marking machine. 3,722,328, 3-27-73, Cl. 81-9.220.

Lange, Eugene A.; and Bryner, Renald F., Jr., to United States of America, Navy. Double cantilever split-pin displacement gage. 3,729,829, 5-1-73, Cl. 33-148.00d.

Lange, Gerhard, to Wafios Maschinenfabrik Wagner, Ficker & Schmid GmbH. Apparatus for producing chain links. 3,714,776, 2-6-73, Cl. 59-23.000.

Lange, Gerhard, to Siemens Aktiengesellschaft. Overvoltage arrester. 3,739,230, 6-12-73, Cl. 317-62.000.

Lange, Gerhard, to Wafios Maschinenfabrik Wagner, Ficker & Schmid G.m.b.H. Method and apparatus for cutting pins for producing chain links. 3,757,627, 9-11-73, Cl. 83-558.000.

Lange, Gerhard; and Peche, Gerhard, to Siemens Aktiengesellschaft. Gas-discharge overvoltage arrester. 3,772,570, 11-13-73, Cl. 317-62.000.

Lange, Gerhard, to Siemens Aktiengesellschaft. Gas discharge excess voltage arrester. 3,775,642, 11-27-73, Cl. 317-61.500.

Lange, Gerhardt: *See*—
Gabel, Heinz; and Lange, Gerhardt, 3,747,859.
Gabel, Heinz; Hirschberg, Hans; and Lange, Gerhardt, 3,750,957.

Lange, Gunther; and Ulderup, Jurgen, to Lemforder Metallwaren AG. Method for producing a sliding bearing for a universal joint. 3,733,668, 5-22-73, Cl. 29-149.5nm.

Lange, Hans, to Deutsche Texaco Aktiengesellschaft. Apparatus for controllable in-situ combustion. 3,772,881, 11-20-73, Cl. 60-321.850.

Lange, Henry F.; and Adler, Stuart L. Turnbuckle body. 3,716,258, 2-13-73, Cl. 287-60.000.

Lange, Herbert, to Soule Steel Company. Casement window limit stop assembly. 3,728,820, 4-24-73, Cl. 49-346.000.

Lange, Hermann Paul. Mixing valve and thermostat for use with same. 3,758,028, 9-11-73, Cl. 236-12.00r.

Lange, Joachim: *See*—
Bickl, Horst; Lange, Joachim; Neumann, Heinrich; Goschin, Bernhard; and Reider, Alois, 3,732,461.

Lange, Kai, to Nuclear Data (Ireland) Limited. Attenuated light coupling between scintillator and photomultiplier. 3,774,032, 11-20-73, Cl. 250-366.000.

Lange, Karl Heinz: *See*—
Langewiesche, Wilhelm; and Lange, Karl Heinz, 3,709,120.

Lange, Karl Heinz, to Balda Werke Photographische Gerate und Kunststoff R. Gruter Kommanditgesellschaft. Camera viewer. 3,712,196, 1-23-73, Cl. 95-11.00v.

Lange, Karl Heinz, to Balda Werke Photographische Gerate und Kunststoff R. Gruter Kommanditgesellschaft. Camera casing assembly. 3,777,639, 12-11-73, Cl. 95-11.00r.

Lange, Karl Heinze, to Balda Werke Photographische Gerate und Kunststoff R. Gruter Kommanditgesellschaft. Arrangements for filtransport, exposure locking and releasing, with flashlight-cube transport means and shutter locking means. 3,717,079, 2-20-73, Cl.95-31.0ac.

Lange, Karl-Heinz, to Balda-Werke. Camera with retractable objective. 3,709,129, 1-9-73, Cl. 95-39.000.

Lange, Karl-Heinz, to Balda-Werke. Control mechanism for cameras. 3,712,201, 1-23-73, Cl. 95-39.000.

Lange, Karl-Heinz, to Balda-Werke. Shutter and film controls for cameras. 3,728,950, 4-24-73, Cl. 95-31.0fm.

Lange, Karl-Heinz; and Mailander, Manfred, to Balda-Werke. Electrically controlled camera shutter. 3,748,993, 7-31-73, Cl. 95-53.0eb.

Lange, Lawrence K.: *See*—
Chao, Chester C.; Lange, Lawrence K.; Lindbloom, Eric; and Savkar, Anil D., 3,775,598.

Lange, Ludwig: *See*—
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Klebe, Hans; Lange, Ludwig; and Mang, Gunther, 3,710,979.
Klebe, Hans; Meffert, Alfred; Lange, Ludwig; Fratzer, Gerhard; and Dahm, Franz-Ludwig, 3,716,628.

Lange, Peter J.; and Runnings, Harcourt G., to Red Dot Corporation. Shut-off valve. 3,727,879, 4-17-73, Cl. 251-84.000.

Lange, Roger J. Harvester sweeper. 3,719,034, 3-6-73, Cl. 56-119.000.

Lange, Ronald A.: *See*—
Pace, Frank P.; Lange, Ronald A.; and Arams, Frank R., 3,746,454.

Lange, Ronald E.: *See*—
Galcik, Anthony J.; and Lange, Ronald E., 3,764,920.

Lange, Walter H., to General Motors Corporation. Method of testing for leaks in low density articles. 3,764,811, 10-9-73, Cl. 250-302.000.





Lange, Werner, to VEB Pentacon Dresden Kamera- und Kinowerke. Apparatus for feeding the pile board of a sheet separating device. 3,741,537, 6-26-73, Cl. 271-61.000.

Langeckep, Erhard. Blow-moulding machines. 3,738,788, 6-12-73, Cl. 425-326.000.

Langecker, Erhard. Blowing machine for producing hollow bodies, particularly bottles. 3,728,063, 4-17-73, Cl. 425-326.00b.

Langecker, Erhard. Apparatus for applying labels onto hollow bodies. 3,759,643, 9-18-73, Cl. 425-109.000.

Langecker, Erhard. Apparatus for applying labels onto hollow bodies. 3,759,645, 9-18-73, Cl. 425-109.000.

Langecker, Erhard. Device for preparing labels or plates in a blow molding apparatus from thermoplastic artificial material. 3,768,942, 10-30-73, Cl. 425-126.000.

Langella, Antonio; and Savastano, Giorgio. Electronic direct-current watthour meter. 3,764,907, 10-9-73, Cl. 324-141.000.

Langemann, Albert: *See*—
Bollag, Werner; Gutmann, Hugo; Hegedus, Balthasar; Kaiser, Ado; Langemann, Albert; Muller, Marcel; and Zeller, Paul, 3,711,543.

Langen & Co.: *See*—
Strauff, Gunter, 3,745,769.

Langen, Christianus Petrus: *See*—
Langen, Johannes Christiana; and Langen, Christianus Petrus, 3,746,316.

Langen, H. J., & Sons Ltd.: *See*—
Langen, Marinus J. M.; and Langen, Jacobus J., 3,778,959.

Langen, Herbert, to Daimler-Benz Aktiengesellschaft. Flame starting installation for an air-compressing injection internal combustion engine. 3,731,666, 5-8-73, Cl. 123-179.00h.

Langen, Jacobus J.: *See*—
Langen, Marinus J. M.; and Langen, Jacobus J., 3,778,959.

Langen, Jacobus Joseph; Lagen, Marinus Jacobus Maria; and Topler, Ernest, to American Can Company. Carton flap folding mechanism. 3,716,962, 2-20-73, Cl. 53-209.000.

Langen, Johannes Christiana; and Langen, Christianus Petrus. Coupling means for containers such as two rotatably mounted drums. 3,746,316, 7-17-73, Cl. 259-57.000.

Langen, Marinus J. M.; and Langen, Jacobus J., to Langen, H. J., & Sons Ltd. End loaders. 3,778,959, 12-18-73, Cl. 53-26.000.

Langen, Peter: *See*—
Etzold, Gerhard; Hintsche, Rainer; and Langen, Peter, 3,775,397.

Langenbach, Bob J., to Abex Corporation. Machine tool with outboard support for drill. 3,775,021, 11-27-73, Cl. 408-234.000.

Langenborg, Nils: *See*—
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Langenfeld, Frank H.; and Overall, Wilson W., to Monsanto Company. Hydrogen embrittlement inhibitors for organic compositions. 3,740,336, 6-19-73, Cl. 252-70.000.

Langenhoff, Ferdinand; Termin, Erich; Bleh, Otto; and Kolb, Rico, to Dynamit Nobel Aktiengesellschaft. Heater for tube reactors. 3,753,660, 8-21-73, Cl. 23-277.00r.

Langenhoff, Ferdinand; Termin, Erich; Lenz, Arnold; and Schinke, Georg. Process for manufacture of zirconium tetrachloride in reactor of specific lining. 3,754,073, 8-21-73, Cl. 423-79.000.

Langenhoff, Ferdinand; Termin, Erich; Lentz, Arnold; and Schinke, Georg. Process for the manufacturing of vanadium chlorides. 3,755,547, 8-28-73, Cl. 423-472.000.

Langenstein & Schemann Aktiengesellschaft: *See*—
Bachmann, Horst, 3,728,887.
Brauer, Willi, 3,707,866.
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Langer, Alois; Scala, Luciano C.; and Ruffing, Charles R., to Westinghouse Electric Corporation. Heat resistant substrates and battery separators made therefrom. 3,749,604, 7-31-73, Cl. 136-20.000.

Langer, Arthur: *See*—
Albrecht, Francis E.; Baxter, William D.; De Michiel, John; Duggan, Robert J.; Greenblum, Carl; Grosky, Stephen A.; and Langer, Arthur, 3,742,288.

Langer, Arthur M., Jr.: *See*—
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Langer, Arthur W., Jr.: *See*—
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Bunting, William M.; and Langer, Arthur W., Jr., 3,758,585.
Klemann, Lawrence P.; Whitney, Thomas A.; and Langer, Arthur W., Jr., 3,755,447.
Langer, Herbert R.; and Langer, Arthur W., Jr., 3,780,191.

Langer, Arthur W., Jr.; and Whitney, Thomas A., to Esso Research and Engineering Company. Inorganic lithium-amine complexes. 3,734,963, 5-22-73, Cl. 260-563.00r.

Langer, Arthur W., Jr., to Esso Research and Engineering Company. Product of alpha monolithiated amine and carbonyl compounds. 3,737,458, 6-5-73, Cl. 260-570.00r.

Langer, Arthur W., Jr., to Esso Research and Engineering Company. Organolithium-polyamine compositions. 3,751,384, 8-7-73, Cl. 252-431.00n.

Langer, Arthur W., Jr.; and Haynes, Raymond R., to Esso Research and Engineering Company. Copolymerization of alpha olefins with sterically hindered alkenyl amines using ziegler catalysts. 3,755,279, 8-28-73, Cl. 260-88.1pn.

Langer, Arthur W., Jr., to Esso Research and Engineering Company. Process for making synthetic waxes. 3,755,484, 8-28-73, Cl. 260-671.00b.

Langer, Arthur W., Jr.; and Whitney, Thomas A., to Esso Research and Engineering Company. Separation and recovery of inorganic lithium salts from other metal salts. 3,755,533, 8-28-73, Cl. 423-181.000.

Langer, Arthur W., Jr.; Whitney, Thomas A.; and Klemann, Lawrence P., to Esso Research and Engineering Company. Separation of tertiary chelating polyamines. 3,758,580, 9-11-73, Cl. 260-563.00r.

Langer, Arthur W., Jr., to Esso Research and Engineering Company. Synthetic wax process. 3,763,131, 10-2-73, Cl. 260-94.90r.

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Langer, Helmut; and Fengler, William W., to Machlett Laboratories, Incorporated, The. Rotating anode balance and getter. 3,735,176, 5-22-73, Cl. 313-60.000.

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Langer, Horst G.: *See*—
Asadorian, Arthur A.; Langer, Horst G.; and Funsher, Jeffrey A., 3,760,003.
Brady, Thomas P.; Langer, Horst G.; and Ayers, Earl D., 3,773,963.
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Langer, John F. Unloading chute assembly and means detachably carrying same on a vehicle. 3,743,121, 7-3-73, Cl. 214-44.00r.

Langer, Karl: *See*—
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Langer, Robert J.: *See*—
Callister, Richard M.; and Langer, Robert J., 3,760,727.

Langer, Robert Marie Gerard; and Babon, Paulette Aimee, to Epsilon S.A. Oxygen cutting and welding torches. 3,749,320, 7-31-73, Cl. 239-416.100.

Langer, Sidney, to Gulf Oil Corporation. Method for separating particles. 3,755,074, 8-28-73, Cl. 176-16.000.

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Langeron, Roger Jules. Method of detection in an alarm system. 3,774,044, 11-20-73, Cl. 250-389.000.

Langevin, Wilfred Louis: *See*—
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Langewiesche, Wilhelm; and Lange, Karl Heinz, to Balda Werke Photographische Gerate und Kunststoff R. Gruter Kommanditgesellschaft. Photographic camera having a mutual film-transport and exposure lock. 3,709,120, 1-9-73, Cl. 95-11.00r.

Langewis, Cornelis, to Kaiser Aluminum & Chemical Corporation. Metal press. 3,745,633, 7-17-73, Cl. 29-200.00b.

Langewis, Cornelis; and Smith, Arthur Dean, to Kaiser Aluminum & Chemical Corporation. Container forming apparatus. 3,745,804, 7-17-73, Cl. 72-349.000.

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Langford, Donald C.: *See*—
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Langford, Donald Campbell. Aerosol spray actuating device. 3,713,565, 1-30-73, Cl. 222-180.000.

Langford, Graham G., to Sertex Company of North America, Inc. Color monitoring apparatus. 3,735,143, 5-22-73, Cl. 250-226.000.

Langguth, Arthur F.: *See*—
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Langheinrich, Wolfgang Friedrich, to International Telephone and Telegraph Corporation. Advanced mechanism for inked ribbons or the like. 3,752,290, 8-14-73, Cl. 197-162.000.
Langieri, Michael, Jr., to Questor Corporation. Music box. 3,740,447, 6-19-73, Cl. 84-101.000.
Langieri, Michael, Jr.; and Meyers, Michael, to Questor Corporation. Arithmetic teaching device. 3,755,924, 9-40-73, Cl. 35-32.000.
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Langille, Donald W.; deceased (by Langille, Olive I.; executrix), to ITT Rayonier Incorporated. Acetates of plicatic acid and processes for the preparation thereof. 3,773,792, 11-20-73, Cl. 260-343.300.
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Langlands, Ian H., to National Sea Products Limited. Process and apparatus for shaping frozen flesh. 3,728,136, 4-17-73, Cl. 99-194.000.
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Richardson, William Henry; Brown, Douglas; and Guha, Prodyot, 3,769,005.
Langley, Kenneth Richard, to United Kingdom of Great Britain and Northern Ireland, Minister of Aviation Supply in Her Majesty's Government of the. Gas turbine ducted fan engine. 3,713,748, 1-30-73, Cl. 415-77.000.
Langley, Lawrence W.; and Cotta, Gilbert Alexander, to Corning Glass Works. Fluidic control circuit. 3,731,524, 5-8-73, Cl. 73-45.100.
Langley London Limited: *See—*
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Langley, Morley P.: *See—*
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Langley, Robert; and McKay, Robert Bruce, to Ciba-Geigy AG. Chemical process. 3,732,118, 5-8-73, Cl. 106-309.000.
Langley, Robert, to Ciba-Geigy AG. Process for preparing phthalocyanine pigments. 3,764,360, 10-9-73, Cl. 106-288.00q.
Langley, Robert; Richards, Ronald Francis John; and Warwick, William Gill, to Ciba-Geigy AG. Process for preparing phthalocyanine blue pigments. 3,770,474, 11-6-73, Cl. 106-288.00q.
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Langlie, Howard; and Berg, Albert T., Jr. Electric fence insulator. 3,749,820, 7-31-73, Cl. 174-163.00f.
Langlois, Christian, to Regie Nationale des Usines Renault. Device for pre-balancing unbalanced masses on crankshafts. 3,777,340, 12-11-73, Cl. 29-1.00d.
Langlois, Jacques: *See—*
Billarani, Patrick; Goubeau, Robert; and Langlois, Jacques, 3,780,479.
Langlois, Leo L.; Tadaki, Ralph T.; Ellis, John R., Jr.; Stevens, Roy W., Jr.; and Leech, Robert H., to Hughes Aircraft Company. Missile launch control system. 3,735,668, 5-29-73, Cl. 89-1.814.
Langmead, Edmund Clarence; and De Wane, Gerald, to Chicago, Bridge & Iron Company. Converter vessel with oval trunnion ring. 3,713,638, 1-30-73, Cl. 266-36.00p.
Langmesser, Martha Adel Hildegard: *See—*
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Langner, Carl G., to Shell Oil Company. Mooring system for pipelaying barges. 3,715,890, 2-13-73, Cl. 61-72.300.
Langner, Gerhard: *See—*
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Langston, Perry R., Jr.; Tummala, Rao R.; and Wilson, Donald M., to International Business Machines Corporation. Sealing technique for gas panel. 3,778,127, 12-11-73, Cl. 316-20.000.
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Langstrom, Hakon Olof Scheibe, to SKF Industrial Trading and Development Company NV. Cage for a rolling bearing. 3,743,369, 7-3-73, Cl. 308-201.000.
Langstroth, Theodore A.; and Neave, Arthur S., Jr., to Sterling Drug Inc. Fluorescent whitening compositions. 3,766,083, 10-16-73, Cl. 252-301.20w.
Langstroth, Theodore A., to Sterling Drug Inc. Process for comminuting fluorescent whitening agents and compositions obtained thereby. 3,781,215, 12-25-73, Cl. 252-301.30w.
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Lanigan, Donald E.; and Biegert, Johannes P., to Lilly, Eli, and Company. Apparatus for conveying and filling capsules. 3,719,275, 3-6-73, Cl. 209-79.000.
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Lank, Gerald W.; and Pullon, Gerald E., to Technology Service Corporation. Multiple-target resolution in the main beam of a conical scan radar. 3,781,886, 12-25-73, Cl. 343-7.400.
Lankard, David R.; and Sheets, Herbert U., Jr., to United States Steel Corporation. Silicious composition for marking hot metal and method of making and using. 3,732,115, 5-8-73, Cl. 106-19.000.
Lankard, John R.; and Sorokin, Peter P., to International Business Machines Corporation. U-switch for synchronizing mode-locked laser pulse trans with external events. 3,760,295, 9-18-73, Cl. 331-94.500.
Lankenau, Arthur W.; and Lake, James L., to Hazen Research, Inc. Process for heap leaching ores. 3,777,004, 12-4-73, Cl. 423-20.000.
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Lankford, Floyd L.; and Marshall, Paul W. Dough sheeter. 3,748,073, 7-24-73, Cl. 425-92.000.
Lankford, Marion P., to Vacu-dry. Food dehydration method. 3,718,485, 2-27-73, Cl. 99-204.000.



Lankheet, Jay A., to Glamour Pools by Aztec. Method of spraying glass fiber and resins onto substrate which eliminates necessity of rolling. 3,754,977, 8-28-73, Cl. 117-105.500.
Lankton, Gordon B., to Dennison Manufacturing Company, mesne. Assembly of attachments and method of manipulating the same. 3,733,657, 5-22-73, Cl. 24-150.0fp.
Lanmon, C. P., II, to Schlumberger Technology Corporation. Methods for recompleting wells. 3,724,550, 4-3-73, Cl. 166-285.000.
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Lanoue, Gerard, to Societe Nouvelle Spidem. Cooling device for a continuous casting wheel. 3,719,224, 3-6-73, Cl. 164-278.000.
Lanoux, Sigred B.; Ellzey, Samuel E., Jr.; Drake, George L., Jr.; and Reeves, Wilson A., to United States of America, Agriculture. Phosphinidynetrimethanol triacetate and its application to cellulosic materials. 3,725,001, 4-3-73, Cl. 8-189.000.
Lanphere, Gerald B.; Bart, Seymour H.; and Armstrong, Jack W., to Lipe-Rollway Corporation. Apparatus for detecting and rejecting improperly oriented objects. 3,710,922, 1-16-73, Cl. 198-33.00r.
Lanphere, Ralph C.; and Elton, Robert L., to Case, J. I., Company. Combination sign board and truck removable wall. 3,740,882, 6-26-73, Cl. 40-129.00c.
Lansbury, Robert Clive; and Mann, David, to Imperial Chemical Industries Limited. Method of vacuum metallizing thermoplastic polymeric film and resulting product. 3,740,254, 6-19-73, Cl. 117-71.00r.
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Lantier, Maurice, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Logical call fee determination device for use with telegraphic equipment. 3,770,880, 11-6-73, Cl. 178-2.00f.
Lantos, Ivan, to American Cyanamid Company. 2-Aryl-5,10-diphenylphenanthro (9,10-D)azoles. 3,714,181, 1-30-73, Cl. 260-309.600.
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Lapeyre, James M., to Laitram Corporation, The. Method and apparatus for position location using angle encoding. 3,714,657, 1-30-73, Cl. 343-106.00r.
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Lapeyre, James Martial, to Laitram Corporation, The. Shrimp feeding and cooking apparatus. 3,744,406, 7-10-73, Cl. 99-516.000.
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Lapidus, Milton; and McGettigan, Marian M., to American Home Products Corporation. L'-4'-cyano-3-(2,2,2-trifluoroacetamido) succinanilic acids. 3,725,453, 4-3-73, Cl. 260-465.00d.
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LaPointe, Andre' E., to United States of America, Navy. Stabilized rocket head. 3,741,125, 6-26-73, Cl. 102-49.400.
Lapointe, Gabriel M., to Parker Manufacturing Company. Rivet gun. 3,713,321, 1-30-73, Cl. 72-391.000.
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Lapp, John; and Weiler, Norbert R., to McGraw-Edison Company. Method of making an impregnated plastic dielectric capacitor. 3,737,961, 6-12-73, Cl. 29-25.420.
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Lapper, Maurice Noel, to British Steel Corporation. Apparatus for testing magnetic characteristics of a moving metal utilizing a roller containing a fixed nonrotatable monitor in contact with the strip. 3,748,575, 7-24-73, Cl. 324-34.00r.
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Lapporte, Seymour J.; and Toland, William G., to Chevron Research Company. Methylene and oxymethylene bis-ester production. 3,720,706, 3-13-73, Cl. 260-494.000.
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Laprade, Bernard: *See—*
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Laprade, Bernard; Laprade, Xavier; and Gele, Pierre. Multicylinder carburetor. 3,713,630, 1-30-73, Cl. 261-23.00a.
Laprade, Xavier: *See—*
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Lapteva, Nina Vitalievna: *See—*
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Laramee, Richard J.; Hunt, C. Joseph; and Hansen, Russell W., to Raytheon Company. Strip transmission line coupler. 3,757,272, 9-4-73, Cl. 339-17.00m.
Lard, Edwin W.: *See—*
Stahly, Eldon E.; and Lard, Edwin W., 3,711,572.
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Lard, Edwin W., to Grace, W. R., & Co. Curable liquid polyene-polythiol compositions containing acrylic acid copolymers. 3,728,240, 4-17-73, Cl. 204-159.160.
Larde, Raymond: *See—*
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Largman, Theodore, to Allied Chemical Corporation. Cycloalkanebisamides. 3,720,712, 3-13-73, Cl. 260-558.00a.
Largman, Theodore; Stone, Herman; and Koch, Paul J., to Allied Chemical Corporation. Flame retardant linear polyesters. 3,773,715, 11-20-73, Cl. 260-45.85r.
Laridon, Urbain Leopold; Delzenne, Gerard Albert; and Peeters, Hugo Karel, to Gevaert-Agfa N.V. Increasing the light sensitivity of polymeric compositions comprising azido groups. 3,721,566, 3-20-73, Cl. 96-115.00r.
Laridon, Urbain Leopold, to Agfa-Gevaert N.V. Process for producing multicolour photographic images. 3,764,318, 10-9-73, Cl. 96-2.000.
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Larikka, Leo. Means for forming a hole in a tube or pipe wall and deforming the edge of the hole into an upstanding flange. 3,714,808, 2-6-73, Cl. 72-325.000.
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Larimore, David B.; and Christensen, Robert I., to Chevron Research Company. Purification of hydrogen. 3,719,740, 3-6-73, Cl. 423-228.000.
Larin, Viktor Petrovich: *See—*
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Roizin, Natan Moiseevich; Larionav, Igor Naumovich; and Kolesova, Alvina Grigorievna, 3,725,147.
Larios, Dennis Gary; and Vilhauer, Cecil Eldon. Adjustable decking and framing tool. 3,779,515, 12-18-73, Cl. 254-16.000.
Lariviere, Alice Louise Rosalie, widow Giroux. Safety stopping device for marine engines. 3,726,264, 4-10-73, Cl. 123-148.00s.
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Lark, Wayne W.; Jennings, Marvin D.; and Howells, Arthur J., Jr., to International Harvester Company. Control circuit for front end loader. 3,726,428, 4-10-73, Cl. 214-763.000.
Lark, Wayne W.; and Jennings, Marvin D., to International Harvester Company. One handle control for loaders. 3,737,830, 6-5-73, Cl. 338-128.000.
Larka, Vincent E.; and Wilharm, Larry, to GTE Sylvania Incorporated. Passive object detection apparatus including ambient noise compensation. 3,732,536, 5-8-73, Cl. 340-16.00r.
Larker, Hans: *See—*
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Nilsson, Jan; and Larker, Hans, 3,751,958.
Larker, Hans, to Allmanna Svenska Elektriska Aktiebolaget. Cylindrical elongated furnace for treating material at high temperature and under high pressure. 3,732,068, 5-8-73, Cl. 432-120.000.
Larker, Hans; and Lindberg, Mats, to Allmanna Svenska Elektriska Aktiebolaget. Vertical tube furnace for high operating pressure. 3,743,132, 7-3-73, Cl. 263-40.00r.
Larker, Hans, to Allmanna Svenska Elektriska Aktiebolaget. Vertical tubular furnace for high operating pressures. 3,752,456, 8-14-73, Cl. 432-120.000.
Larker, Hans; and Isaksson, Sven-Erik, to Allmanna Svenska Elektriska Aktiebolaget. Method of manufacturing a blade having a plurality of internal cooling channels. 3,773,506, 11-20-73, Cl. 75-208.00r.
Larkfeldt, Birger; Akesson, Stellan; and Josefson, Ingmar, to Aktiebolaget Svenska Flaktfabriken. Cross-talk attenuating supply air and exhaust air device in ventilation installations. 3,759,157, 9-18-73, Cl. 98-37.000.
Larkin, Artemas M., to Lockheed Aircraft Corporation. Pitch link assembly and locking device therewith. 3,736,010, 5-29-73, Cl. 287-62.000.
Larkin, Artemas M., to Lockheed Aircraft Corporation. Drive mechanism. 3,771,376, 11-13-73, Cl. 74-96.000.
Larkin, Edward J. Bed base. 3,754,289, 8-28-73, Cl. 5-201.000.
Larkin, John M. Electric induction heating furnace and method for preheat thereof. 3,735,009, 5-22-73, Cl. 13-29.000.
Larkin, John M., to Texaco Inc. Preparation of 1,3-dinitroalkanes. 3,760,012, 9-18-73, Cl. 260-644.000.
Larkin, Melvyn W.; and Matta, Richard K., to Westinghouse Electric Corporation. Method of delineating small areas as in microelectronic component fabrication. 3,713,911, 1-30-73, Cl. 148-187.000.
Larkin, Sam. Sand mold formation. 3,734,163, 5-22-73, Cl. 164-187.000.
Larkin, Sam. Sand mold formation. 3,744,550, 7-10-73, Cl. 164-172.000.
Larkin, Sam. Apparatus for making sand molds. 3,760,866, 9-25-73, Cl. 164-200.000.
Larkin, Sam, to Spring Associates, Inc. Spring base and method of forming same. 3,777,322, 12-11-73, Cl. 5-267.000.
Larkin, Wallace K. Amphibious apparatus for conventional land aircraft. 3,738,598, 6-12-73, Cl. 244-105.000.
Larkin, William A., to M & T Chemicals Inc. Polyvinylchloride stabilization with mixtures of tin salts. 3,715,333, 2-6-73, Cl. 260-45.75r.
Larkin, William A.; and Kostrowski, John J., to M & T Chemicals Inc. Novel process and product. 3,723,139, 3-27-73, Cl. 260-45.75r.
Larner, Donald Alexander, to Fluid Devices Limited. Multi-way directional fluid flow control valve arrangement. 3,760,843, 9-25-73, Cl. 137-596.150.
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Laroche, Rene V., to Aluminium Suisse SA. Installation for degreasing metal articles. 3,718,147, 2-27-73, Cl. 134-60.000.
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Larranaga, Gaston A. Automatic metal louvered safety blind. 3,717,195, 2-20-73, Cl. 160-169.000.
Larribau, Etienne; Grubis, Bernard; and Sahores, Jean, to Societe Nationale des Petroles d'Aquitaine. X-ray spectrometry apparatus having a controlled X-ray source. 3,720,830, 3-13-73, Cl. 250-51.500.
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Larsen, Agnew E.; deceased (by Larsen, William H.; executor); and Weinstock, Manuel, to United States of America, Army. Starter engine. 3,750,394, 8-7-73, Cl. 60-39.140.
Larsen, Arthur Bertel, to Bell Telephone Laboratories, Incorporated. Optical spatial frequency filter. 3,716,666, 2-13-73, Cl. 178-5.4st.
Larsen, Arthur Bertel, to Bell Telephone Laboratories, Incorporated. Color camera having capacitance compensated index strips. 3,730,977, 5-1-73, Cl. 178-5.4st.
Larsen, Arthur Lee, to Marathon Oil Company. Film forming hydrazine-containing corrosion inhibitor. 3,770,055, 11-6-73, Cl. 166-244.00c.
Larsen, Arthur Lee, to Marathon Oil Company. Anti-icing gasoline composition. 3,771,980, 11-13-73, Cl. 44-72.000.
Larsen, Aubrey A.; and Gould, William A.; deceased (by Gould, Barbara E.; legal representative), to Mead Johnson & Company. Sympathomimetic process and compositions employing sulfonamidophenalkylamines. 3,758,692, 9-11-73, Cl. 424-321.000.
Larsen, Bjorn Arild, to Spigerverk, Christiania. Combined snow shovel, wheel barrow and dolly. 3,751,058, 8-7-73, Cl. 280-30.000.
Larsen, Carl Ib Peder, to Haldex Aktiebolag. Electronic taximeters device. 3,718,811, 2-27-73, Cl. 235-30.00r.
Larsen, Earl I., to Mallory, P. R., & Co., Inc. Liquid phase sintered molybdenum base alloys. 3,720,990, 30-20-73, Cl. 29-182.000.
Larsen, Edwin M.; and Gil-Arnao, Francisco C., to Wisconsin Alumni Research Foundation. Process for separation of hafnium from zirconium. 3,734,689, 5-22-73, Cl. 23-24.00z.
Larsen, Eric R.: *See—*
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Exner, Jurgen H.; Larsen, Eric R.; and Gunsher, Jeffrey A., 3,779,984.
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Larsen, Eric R.; McKendry, Lennon H.; and Edamura, Fred Y., to Dow Chemical Company, The. Haloalkoxy- and haloalkylthiophenyl carbamates. 3,714,233, 1-30-73, Cl. 260-479.00c.
Larsen, Eric R.; Andrejewski, Bernard R.; and Edamura, Fred Y., to Dow Chemical Company, The. Substituted haloalkyoxy phenols. 3,781,369, 12-25-73, Cl. 260-613.00d.
Larsen, Ezra B.: *See—*
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Larsen, Hans Christian, to Alfa-Laval AB. Method of obtaining meat with a predetermined fat content. 3,734,741, 5-22-73, Cl. 99-107.000.
Larsen, Henry A., to Arrowmatic, Inc. Remote control target apparatus. 3,770,914, 11-6-73, Cl. 191-12.20a.
Larsen, Herbert; and Martin, Helmut, 50% to Siemens Aktiengesellschaft and 50% to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. High precision hollow conductor structure for the transmission of electromagnetic waves, and method of making th same. 3,733,693, 5-22-73, Cl. 29-600.000.
Larsen, James L.: *See—*
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Larsen, Larry D.: *See—*
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Larsen, Laurits Aage Berg, to Gebrueder Buhler AG. Method and device for regulating the temperature of rotating grinding rolls having a hollow interior. 3,771,591, 11-13-73, Cl. 165-1.000.
Larsen, Lyle Vernon, to Chicago Bridge & Iron Company. Submerged direct contact vaporization process. 3,762,893, 10-2-73, Cl. 48-190.000.
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Larson, Allen E., to Atlantic Richfield Company. Pattern wax compositions. 3,717,485, 2-20-73, Cl. 106-38.800.
Larson, Arthur G., to McQuay, Inc. Ice dispensing device. 3,719,307, 3-6-73, Cl. 222-236.000.
Larson, Arvid. Lighter and pipe tamper device. 3,746,013, 7-17-73, Cl. 131-247.000.
Larson, Carl T. Fishing apparatus. 3,745,684, 7-17-73, Cl. 43-24.000.
Larson, Charles L., to Jeddeloh Bros. Sweed Mills, Inc. Apparatus for stacking sheets. 3,712,608, 1-23-73, Cl. 271-68.000.
Larson, Charles L., to Jeddeloh Bros. Sweed Mills, Inc. Sheet separator and feeder assembly. 3,715,118, 2-6-73, Cl. 271-26.00r.
Larson, Charles L., to Jeddeloh Bros. Sweed Mills, Inc. Sheet release from vacuum conveyor. 3,731,918, 5-8-73, Cl. 271-74.000.
Larson, Charles L., to Jeddeloh Bros. Sweed Mills, Inc. Sheet stacking apparatus. 3,761,080, 9-25-73, Cl. 271-209.000.
Larson, Charles O., to Larson, Chas. O., Co. Article support construction. 3,737,131, 6-5-73, Cl. 248-223.000.
Larson, Charles R., to Prab Conveyors, Inc. Temperature control system for metal scrap dryers. 3,767,179, 10-23-73, Cl. 266-33.00s.
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Larson, Dale E., to Allis-Chalmers Corporation. Tapered current limit protection for D.C. motor. 3,716,772, 2-13-73, Cl. 318-332.000.
Larson, Donald A., to Hartzell Manufacturing, Inc. Adjustable hydraulic door closure. 3,708,826, 1-9-73, Cl. 16-52.000.
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Larson, Ellis DeLoy. Ornamental design structures and method of making the same and components thereof. 3,736,720, 6-5-73, Cl. 52-741.000.
Larson, Eric M., Jr. Load handling container apparatus. 3,719,296. 3-6-73, Cl. 214-315.000.

Larson, Eugene A.; Kopel, Leroy A.; and McNulty, Daniel E. Transducer for pulse-echo ultrasonic exploration. 3,721,227, 3-20-73, Cl. 128-2.00v.
Larson, Floyd Gotthard, Jr., to International Nickel Company, Inc., The. Production of products directly from nickel cathodes. 3,722,073, 3-27-73, Cl. 29-472.300.
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Larson, John I.: *See*—
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Larson, Paul Z.: *See*—
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Larson, Raymond Lee, to General Electric Company. Portable cleaning tool for electrical conductors. 3,739,415, 6-19-73, Cl. 15-23.000.
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Larson, Robert W.; and Morris, Glen E., to United States Steel Corporation. Adjustable guide table for strip approaching a cross-cut shear. 3,731,571, 5-8-73, Cl. 83-420.000.
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Larson, Willis A., to Magic Dot Inc. Touch sensitive electronic switch. 3,737,670, 6-5-73, Cl. 307-116.000.
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Hines, Robin H.; Hollinshead, William L.; and Bolden, Thomas O., 3,753,126.
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Lash, Don B., to National Air Vibrator Company. Vibrator system. 3,731,907, 5-8-73, Cl. 259-1.00r.
Lash, Donald W., to Bulman, E. O., Manufacturing Company, Inc., The. Multiple roll tape dispenser. 3,768,713, 10-30-73, Cl. 225-34.000.
Lash Systems, Inc.: *See*—
Goldman, Jerome L., 3,722,736.
Goldman, Jerome Lee, 3,722,449.
Lashar, Walter B., Jr., to American Chain & Cable Company, Inc. Laminated chain link construction. 3,739,571, 6-19-73, Cl. 59-84.000.
Lasher, Edward A., to Whittaker Corporation. High temperature polyester coating. 3,714,090, 1-30-73, Cl. 260-21.500.
Lasher, Edward A., to Whittaker Corporation. Oil-containing polyester coating. 3,714,091, 1-30-73, Cl. 260-21.000.
Lashley, George D. Automatic shoeshine machine. 3,729,761, 5-1-73, Cl. 15-31.000.
Lashley, George D. Shoe shine apparatus. 3,758,907, 9-18-73, Cl. 15-31.000.
Lashley, Raymond. High speed train. 3,728,974, 4-24-73, Cl. 105-329.000.
Lashley, Ronald T., to Emmons Guitar Company, Inc. String mounting and adjustment for steel guitars. 3,748,943, 7-31-73, Cl. 84-312.000.
Lasier, Thomas R., to Schlage Lock Company. Electrically controlled hold-open device. 3,729,770, 5-1-73, Cl. 16-48.500.
Lasker, Noel Emanuel, to Corrugated Paper Manufacturing Pty, Limited. Envelope. 3,743,173, 7-3-73, Cl. 229-68.000.
Lasker, Sigmund E.; and Chiu, Marie L., to Research Corporation. Orally active anti-coagulant. 3,766,167, 10-16-73, Cl. 260-211.00r.
Laskin, Harold B.: *See*—
Gorka, Donald J.; and Laskin, Harold B., 3,716,221.
Lasko, John A.; and Horwinski, Elwood R. Pipe joint seal. 3,781,040, 12-25-73, Cl. 285-110.000.
Laskov, Jury Mikhailovich: *See*—
Yakovlev, Sergei Vasilievich; Voronov, Jury Viktorovich; Korenkov, Vladimir Nikolaevich; Nevsky, Alexandr Borisovich; Dobrikova, Valentina Adreevna; Karjukhina, Tamara Alexandrovna; Churbanova, Ira Nikolaevna; and Laskov, Jury Mikhailovich, 3,755,156.



Laskowski, Kenneth W., to Xerox Corporation. Photodetection of non-opaque objects transported along a conveyor by use of a light blocking opaque flap. 3,778,618, 12-11-73, Cl. 250-223.000.
Lasky, Daniel J., to International Business Machines Corporation. Apparatus for developing photographic materials. 3,733,993, 5-22-73, Cl. 95-89.00r.
Lasky, Daniel J., to DS Electro-Optical Incorporated. Photographic plate development system. 3,739,705, 6-19-73, Cl. 95-89.00r.
Lasne, Claude: *See*—
Fally, Jacques; Lazennec, Yvon; and Lasne, Claude, 3,748,178.
Lasnf, Claude: *See*—
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Lass, James L.: *See*—
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Venier, Dominic A.; Smith, Bart A.; and Lass, James L., 3,715,274.
Lassanske, George G., to Outboard Marine Corporation. Variable speed power transmission with snap-in clutch. 3,709,052, 1-9-73, Cl. 74-230.17e.
Lassau, Christian; Roux-Guerraz, Claude; and Sajus, Lucien, to Institut Francais du Petrole des Carburants et Lubrifiants. New catalytic process for converting hydrocarbons. 3,773,657, 11-20-73, Cl. 208-124.000.
Lassen Foods, Inc.: *See*—
Schlotthauer, Wayne W., 3,745,909.
Lassen, Niels, to Kefalas A/S. Epithio derivatives of aminoalkyl substituted dibenzocycloheptenes. 3,763,186, 10-2-73, Cl. 260-330.500.
Lasser, Howard G., to United States of America, Army. Method of preparing semiporous film of aluminum oxide voltage anodization. 3,745,100, 7-10-73, Cl. 204-58.000.
Lasser, Howard G.; and Almaula, Bipin C., to United States of America, Army. Anodic film for electron multiplication. 3,760,216, 9-18-73, Cl. 313-94.000.
Lassig, Harry. Fully automatic apparatus for loading containers with single pieces assembled in sheet-wrapper stacks, such as in sacks or the like. 3,727,369, 4-17-73, Cl. 53-159.000.
Lassig, Harry. Apparatus for loading containers. 3,727,370, 4-17-73, Cl. 53-159.000.
Lassig, Harry; and Grosshauser, Anton, to Fordertechnische Forschungsgesellschaft mbH. Method of loading containers with cargo. 3,780,893, 12-25-73, Cl. 214-152.000.
Lassig, Wolfgang: *See*—
Wolff, Erich; Lassig, Wolfgang; Seelig, Eckart; and Bergisch, Gunther Kolf, 3,740,376.
Wolff, Erich; Lassig, Wolfgang; Seelig, Eckart; and Kolf, Gunther, 3,761,280.
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Lassmann, Heribert; and Woog, Rudolf, to Maschinenfabrik Briem-Hengler & Cronemeyer K.G. Apparatus for cutting out forms from a ribbon of dough. 3,724,980, 4-3-73, Cl. 425-102.000.
Lassy, Carl O. Workpiece supporting clip on parallels and roller bearing type hold-down jaws. 3,738,638, 6-12-73, Cl. 269-136.000.
Lassy, Carl O.; and Lassy, William A. Instant two-way lock for work holders. 3,740,048, 6-19-73, Cl. 269-59.000.
Lassy, William A.: *See*—
Lassy, Carl O.; and Lassy, William A., 3,740,048.
Last, Anthony Edward Walter, to British Steel Piling Company Limited, The. Power-operated hammer. 3,734,206, 5-22-73, Cl. 173-137.000.
Last, Bernard: *See*—
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Last, Walter A., to Peck & Hale, Inc. Tie down device. 3,709,455, 1-9-73, Cl. 248-361.00a.
Last, Walter A., Jr.: *See*—
Morris, Joseph R.; and Last, Walter A., Jr., 3,722,714.
Laszlo, Alexander L. Political science board game construction. 3,756,604, 9-4-73, Cl. 273-134.0ad.
Latal, Werner; and Schneebeli, Willi, to Aktiengesellschaft Brown, Boveri & Cie. Minimum-oil circuit breaker including movable braking member for applying braking force thereto proportional to gas pressure generated in arc-quenching chamber. 3,742,168, 6-2-73, Cl. 200-150.00b.
Latall, Roy C., to Conco Inc. Duct scanning apparatus. 3,715,484, 2-6-73, Cl. 178-6.800.
Latall, Roy C., to Conco Inc. Apparatus for and method of locating leaks in a pipe. 3,739,089, 6-12-73, Cl. 178-6.800.
Latall, Roy C., to O'Brien Manufacturing Company, Inc. Hydraulic sewer pipeline cleaner. 3,740,785, 6-26-73, Cl. 15-104.12.
Latapie, Jean: *See*—
Joyard, Maurice L.; and Latapie, Jean, 3,760,652.
Latash, Jury Vadimovich: *See*—
Medovar, Boris Izrailevich; Popov, Viktor Andreevich; Alferov, Jury Fedorovich; Bogachenko, Alexey Georgievich; and Latash, Jury Vadimovich, 3,709,997.
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Paton, Boris Evgenievich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; and Baglai, Vitaly Mikhailovich, 3,712,365.
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Paton, Boris Evgenievich; Medovar, Izrailevich Boris; Latash, Jury Vadimovich; Chekotilo, Leonty Vasilievich; Baglai, Vitaly Mikhailovich; Artamonov, Viktor Leonidovich; Garkaljuk, Rodimir Ivanovich; Timchenko, Viktor Anatolievich; Malichekno, Evgeny Fedorvich; Stupak, Leonid Mikhailovich; and Dubinsky, Rudolf Solomonovich, 3,721,286.
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Paton, Boris Evgenievich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Ebedev, Vladimir Konstantinovich; Baglay, Vitaly Michailovich; Bondarenko, Olcg Petrovich; Sidorenko, Michail Nikolaevich; and Bogachenko, Alexey Georgievich, 3,765,471.
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Latash, Jury Vadimovich; Medovar Boris Izrailevich; and Baglai, Vitaly Mikhailovich. Apparatus for electroslag remelting of metals. 3,724,530, 4-3-73, Cl. 164-252.000.
Latash, Jury Vadimovich; Medovar, Boris Izrailevich; Leibenzon, Semen Abramovich; and Kaganovsky, Gary Petrovich, to Institut Elektrosvarki Imeni E.O. Patona Akademii Nauk Ukrainskoi SSR. Installations for the electroslag remelting of metallic consumable eectrodes. 3,734,164, 5-22-73, Cl. 164-252.000.
Latash, Yury Vadimovich: *See*—
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Latchford, Joseph T.: *See*—
Fortin, Michael Joseph; Latchford, Joseph T.; and Vandenheuvel, Marinus Theodorus, 3,730,665.
Latella, Anthony S. Sheath knitter. 3,768,278, 10-30-73, Cl. 66-9.00a.
Latham, Allen, Jr., to Haemonetics Corporation. Programmed liquid delivery system. 3,749,285, 7-31-73, Cl. 222-58.000.
Latham, Burton F., Jr., to Continental Carbon Company. Air cooled porous metal pipe for use in feedstock injection assembly. 3,755,543, 8-28-73, Cl. 423-450.000.
Latham, George R., IV; and Allen, Winfield T., to Sperry Rand Corporation. Duochromatic indicator for a diversity polarization receiver. 3,755,810, 8-28-73, Cl. 343-5.0cd.
Latham, S. Duane; Seeley, Robert D.; Reitz, Henry F.; and Reitz, Ronald F., to Anheuser-Busch, Incorporated. Omelet preparing and process. 3,753,737, 8-21-73, Cl. 99-113.000.
Latham, S. Duane; and Seeley, Robert D., to Anheuser-Busch, Incorporated. Egg composition. 3,769,404, 10-30-73, Cl. 99-113.000.
Latham, Thomas J., Jr.: *See*—
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Lathers, Michael W., to General Motors Corporation. Tailgate. 3,749,440, 7-31-73, Cl. 296-51.000.



Lathery, Willie M.: *See*—
Kennedy, Edwin K.; and Latzko, Richard I., 3,750,245.



Laufer, Berex. Key retainer. 3,771,341, 11-13-73, Cl. 70-456.00b

Lathery, Willie M.: *See—*
Hanes, James Gordon, Jr.; King, James Frank; Lathery, Willie M.; Beamon, Howard L.; and Newlen, Kenneth W., 3,780,679.

Lathouwers, Franciscus Johannes Maria; and De Groot, Jacob, to U.S. Philips Corporation. Method of adjusting the dimensions of sintered ferromagnetic cores. 3,775,841, 12-4-73, Cl. 29-605.000.

Lathrop, Francis M., III: *See—*
Van Arsdale, Lyle R.; and Lathrop, Francis M., III, 3,722,530.

Latib, Ismail Osman. Locking devices for vehicle vent windows. 3,722,935, 3-27-73, Cl. 292-63.000.

Latina, Roland N., to A-T-O Inc. Protective device for the head. 3,729,745, 5-1-73, Cl. 2-9.000.

Latinen, George A.; deceased (by Latinen, May V.; administratrix), to Monsanto Company. Devolatilizer rotor assembly. 3,720,479, 3-13-73, Cl. 416-198.000.

Latinen, George A.; deceased (by Latinen, May V.; administratrix); and Carter, Leo F., to Monsanto Company. Mixer. 3,747,899, 7-24-73, Cl. 259-9.000.

Latinen, George A.; deceased (by Latinen, May V.; administratrix), to Monsanto Company. Mixer. 3,751,010, 8-7-73, Cl. 259-9.000.

Latinen, George A.; deceased (by Latinen, May V.; administratrix), to Monsanto Company. Self-flushing shaft seal. 3,752,489, 8-14-73, Cl. 277-64.000.

Latinen, George A.; deceased (by Latinen, May V.; administratrix), to Monsanto Company. Mixing process. 3,765,655, 10-16-73, Cl. 259-9.000.

Latinen, George A; deceased (by Latinen, May V.; administratrix), to Monsanto Company. Devolatilizer rotor assembly. 3,781,132, 12-25-73, Cl. 416-200.000.

Latinen, May V.: *See—*
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Latinen, George A.; and Carter, Leo F., 3,747,899.
Latinen, George A., 3,751,010.
Latinen, George A., 3,752,489.
Latinen, George A., 3,765,655.
Latinen, George A, 3,781,132.

Latker, Mark: *See—*
Johnston, Norris; and Latker, Mark, 3,777,887.

Latone, Salvatore; and Stanley, Michael R., to Xerox Corporation. Magnetic brush developing apparatus. 3,724,422, 4-3-73, Cl. 118-637.000.

Latoria, Joseph: *See—*
Latoria, Phillip J.; and Latoria, Joseph, 3,760,540.

Latoria, Phillip J.; and Latoria, Joseph. Pre-cast concrete building panels. 3,760,540, 9-25-73, Cl. 52-125.000.

LaTorraca, Gerard. Abdominal muscle toning apparatus. 3,744,484, 7-10-73, Cl. 128-54.000.

LaTour, Harry, to Armco Steel Corporation. Method of making article from metallic powders. 3,731,050, 5-1-73, Cl. 219-149.000.

Latreille, Charles W.: *See—*
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Latreille, Maurice Gaston, to American Can Company. Method for finishing blow molded plastic containers in the mold. 3,769,394, 10-30-73, Cl. 264-98.000.

Latrobe, Charles H., to Koppers Company, Inc. Method of making leaded-tin bronze alloys. 3,730,705, 5-1-73, Cl. 75-156.000.

Latrobe Steel Company: *See—*
Schlatter, Rene, 3,715,201.
Schlatter, Rene, 3,723,094.
Slaney, John S., 3,767,385.

Latta, Garland H.: *See—*
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Latta's Inc.: *See—*
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Lattin, Kenneth R., to United States of America, Atomic Energy Commission. Monitor of the concentration of radioactive iodine in a stream of gas. 3,731,100, 5-1-73, Cl. 250-83.6ft.

Lattin, William W., to Motorola, Inc. Voltage level translating circuit. 3,708,689, 1-2-73, Cl. 307-205.000.

Lattin, William W., to Motorola, Inc. Opposite conductivity gating circuit for refreshing information in semiconductor memory cells. 3,718,915, 2-27-73, Cl. 340-173.00r.

Lattke, Horst G., to Emhart Corporation. Film wrapping machine. 3,736,723, 6-5-73, Cl. 53-180.000.

Lattke, Horst G., to Emhart Corporation. Method and apparatus for packaging articles. 3,739,545, 6-19-73, Cl. 53-29.000.

Lattner, Otto: *See—*
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Latussek, Hans Peter; and Petrak, Heinz, to Siemens Aktiengesellschaft. Guide bearing for use in the housing or bearing plate of a machine or other apparatus. 3,749,457, 7-31-73, Cl. 308-58.000.

Latussek, Hans-Peter: *See—*
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Lau, Dicksen T. W. Racing dragon boat. 3,740,781, 6-26-73, Cl. 9-25.000.

Lau, Dicksen T. W. High-rise versatile mobile home structure. 3,744,193, 7-10-73, Cl. 52-30.000.

Lau, Dicksen T. W. Versatile mobile home. 3,765,714, 10-16-73, Cl. 296-23.00r.

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Lau, Erwin M., to Blaok Products Company. Bag settler for bag filling machines. 3,749,142, 7-31-73, Cl. 141-73.000.

Lau Incorporated: *See—*
Beehler, Richard F., 3,708,999.
Beehler, Richard F., 3,709,531.
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Lau, Philip T. S.: *See—*
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Lau, Philip T. S., to Eastman Kodak Company. Phenol color couplers. 3,779,763, 12-18-73, Cl. 96-55.000.

Laube, Max, to Swiss Aluminium Ltd. Method of and means for removing exhaust gases from an open furnace vessel. 3,708,414, 1-2-73, Cl. 204-247.000.

Laube, Max, to Swiss Aluminium Ltd. Apparatus for cleaning the exhaust air from workshops. 3,777,457, 12-11-73, Cl. 55-223.000.

Laubie, Michel: *See—*
Beregi, Laszlo; Hugon, Pierre; and Laubie, Michel, 3,729,484.

Laubman, Harry A. Aircar. 3,777,842, 12-11-73, Cl. 180-117.000.

Lauchenauer, Alfred E., to Raduner and Co., A.G. Flameproofing combustible sheet materials. 3,767,452, 10-23-73, Cl. 117-37.00r.

Lauchlan, Robert L.; and Snodgrass, Hugh E., to Uniroyal, Inc. Polymer blend resin compositions. 3,772,408, 11-13-73, Cl. 260-876.000.

Lauck, Helmut, to Varta Aktiengesellschaft. Method of producing a gel containing concentrated sulfuric acid. 3,765,950, 10-16-73, Cl. 136-158.000.

Lauck, John A. Hydraulic motor drive. 3,744,377, 7-10-73, Cl. 91-499.000.

Laucks, Howard H.: *See—*
Hague, Robert Z.; Hantman, Edwin F.; Laucks, Howard H.; Loos, George J.; Marsicano, Matthew F.; and Mastropole, Alfred J., 3,722,363.

Laucks, Rudolf; Fork, Werner; and Gross. Harald, to Firma J. M. Voith GmbH. Ship propulsion system having separate propulsion units for cruise and slow speeds. 3,716,014, 2-13-73, Cl. 115-35.000.

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Laue, Eckhard, to Dual Gebrueder Steidinger. Magnetic pick up with flux bridge and replaceable stylus. 3,760,125, 9-18-73, Cl. 179-100.4lk.

Lauc, Helmuth H.: *See—*
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Laue, Terry J.; and Buck, Leo V., to Fedders Corporation. Delicate goods tray. 3,724,095, 4-3-73, Cl. 34-139.000.

Lauener, W. F., AG: *See—*
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Lauener, Wilhelm Friedrich, to Lauener, W. F., AG. Apparatus for rolling metal strip. 3,769,826, 11-6-73, Cl. 72-191.000.

Lauer, Cornelius, to General Tire & Rubber Company, The. Electrical wire cutting apparatus. 3,740,517, 6-19-73, Cl. 219-68.000.

Lauer, Hubert; and Schleppinghoff, Bernhard, to Erdolchemie Gesellschaft mit beschrankter Haftung. Process for stabilizing dienes. 3,711,565, 1-16-73, Cl. 260-666.500.

Lauer, James L., to Sun Research and Development Co. Shock wave reactions. 3,739,063, 6-12-73, Cl. 423-648.000.

Lauer, Jay M., to Teledyne Industries, Inc. Gas analyzer. 3,767,552, 10-23-73, Cl. 204-195.00p.

Lauer, Richard E., to General Electric Company. Apparatus and method for developing winding coils. 3,765,080, 10-16-73, Cl. 29-596.000.

Lauer, Robert J.: *See—*
Hall, Donivan L.; Lauer, Robert J.; and Robazskiewicz, Gerald D., 3,743,057.

Lauer, Robert J., to Reliance Electric Company. Elevator car stopping status evaluation means. 3,742,445, 6-26-73, Cl. 340-19.00r.

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Lauf, Jay H. Collapsible and expandable enclosure. 3,768,855, 10-30-73, Cl. 296-27.000.





Laufer, Berex. Key retainer. 3,771,341, 11-13-73, Cl. 70-456.00b.

Laufer, Helmut, to Dual Gebrueder Steidinger. Switching device for a tone band drive. 3,760,136, 9-18-73, Cl. 200-61.130.

Laufer, Robert J., to Continental Oil Company. Preparation of 4-mercaptophenols. 3,781,367, 12-25-73, Cl. 260-609.00d.

Lauff, Joseph G.: *See—*
Westburg, Allen L.; and Lauff, Joseph G., 3,747,613.

Lauffer, Fred E.: *See—*
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Lauffer, Fred E., to Owens-Illinois, Inc. Pallet. 3,707,929, 1-2-73, Cl. 108-51.000.

Lauge, Raitis; and Hart, Edward Raymond, to Union Carbide Canada Limited. Rotatable extrusion apparatus. 3,724,978, 4-3-73, Cl. 425-86.000.

Laugherty, James R.: *See—*
Laugherty, Lorene; and Laugherty, James R., 3,720,304.

Laugherty, Lorene; and Laugherty, James R., to Avis Research, Inc. Disposable footprinter. 3,720,304, 3-13-73, Cl. 206-46.00r.

Laughinghouse, Charles L.; and Vogelsberg, Walter H., to Black and Decker Manufacturing Company, The. Ground fault protective apparatus. 3,761,774, 9-25-73, Cl. 317-18.00a.

Laughlin, Arvine E., to United States Steel Corporation. Articulated puller arm. 3,765,617, 10-16-73, Cl. 242-79.000.

Laughlin, Charles R.; Hollenbaugh, Roger C.; and Allen, Walter K., to United States of America, National Aeronautics and Space Administration. Doppler compensation by shifting transmitted object frequency within limits. 3,715,663, 2-6-73, Cl. 325-4.000.

Laughlin, Gordon J., to United States of America, Army. Wideband microwave power divider. 3,715,689, 2-6-73, Cl. 333-9.000.

Laughlin, James P.; and McCullough, Wilfred W., to Whirlpool Corporation. Refrigeration apparatus. 3,745,786, 7-17-73, Cl. 62-419.000.

Laughlin, Robert G.: *See—*
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Laughman, Glenn D., 20% to Lee, Raymond, Organization, Inc., The. Powered apparatus for water travel saddle. 3,745,961, 7-17-73, Cl. 115-6.100.

Laughon, Thomas C.: *See—*
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Laukien, Gunther Rudi. Device for automatic recording of spectra. 3,717,809, 2-20-73, Cl. 324-.50r.

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Laumann, David H. E., to Keoseian, Richard Suren, mesne. Disposable article liner. 3,763,502, 10-9-73, Cl. 4-112.000.

Laumann, Paul A.: *See—*
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Laumer, Edward P., to Kimberly-Clark Corporation. Core slotting device. 3,709,095, 1-9-73, Cl. 90-11.00c.

Launder, Richard L. Dual digging tooth retainer. 3,733,722, 5-22-73, Cl. 37-142.00a.

Laundry Machine Specialties Corporation: *See—*
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Launer, Leland C.: *See—*
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Launt, Larry L., to Information Transfer, Inc. Latchable magnetic reed switch. 3,775,712, 11-27-73, Cl. 335-153.000.

Laupman, Robert Ronald, to Novanex Automation N.V. Control device for luminescent lamps. 3,746,919, 7-17-73, Cl. 315-105.000.

Laurance, Dale Roderic: *See—*
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Laurence, James C.: *See—*
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Laurencin, Marcel, to Cegedur GP. Method and apparatus for feeding high speed presses. 3,709,025, 1-9-73, Cl. 72-421.000.

Laurens, Marc: *See—*
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Laurenson, Laurence; and Holland, Leslie Arthur, to British Oxygen Company Limited, The. Vacuum pumps. 3,713,754, 1-30-73, Cl. 417-49.000.

Laurent, Harold J.: *See—*
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Laurent, Henry: *See—*
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Laurent, Henry; Kolb, Karl-Heinz; and Wiechert, Rudolf, to Schering A.G. 21-Halogen steroids. 3,718,671, 2-27-73, Cl. 260-397.300.

Laurent, Henry; Kolb, Karl Heinz; and Wiechert, Rudolf, to Schering A.G. Novel 6a-fluoro-11-b-hydroxy-16a-methyl-21-haloprogesterones. 3,721,686, 3-20-73, Cl. 260-397.450.

Laurent, Henry; Wiechert, Rudolf; and Kolb, Karl Heinz, to Schering A.G. 17-Chloro steroids. 3,723,484, 3-27-73, Cl. 260-397.450.

Laurent, Henry; Kerb, Ulrich; Kolb, Karl-Heinz; Wiechert, Rudolf; and Gerhards, Erich, to Schering A.G. Pharmaceutical composition based on 11-halogen substituted steroids. 3,743,741, 7-3-73, Cl. 424-242.000.

Laurent, Jean; and Duconge, Claude, to Institut Francais du Petrole, des Carburants et Lubrifiants. Acoustic wave receiver for underwater seismic prospecting. 3,713,085, 1-23-73, Cl. 340-7.000.

Laurent, Jean, to Institut Francais du Petrole des Carburants et Lubrifiants. Pressure transducer device. 3,763,464, 10-2-73, Cl. 340-10.000.

Laurent, Jean, to Institut Francais du Petrole des Carburants et Lubrifiants. Device for generating acoustic waves by implosion. 3,770,080, 11-6-73, Cl. 181-.50h.

Laurent, Jean, to Institut Francais du Petrole des Carburants et Lubrifiants. Device for sensing pressure in a liquid medium. 3,775,737, 11-27-73, Cl. 340-7.00r.

Laurent, Serge; and Mallet, Maurice, to Rhone-Poulenc S.A. Prepolymers and heat-resistant resins derived thereof. 3,767,626, 10-23-73, Cl. 260-78.0ua.

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Laurenz, Frank R. Selective animal gate. 3,716,032, 2-13-73, Cl. 119-155.000.

Lauria, Francesco; Vecchietti, Vittorio; and Logemann, Willy, to Erba, Carlo, S.p.A. 4-Morpholinoethoxy-benzophenones. 3,708,482, 1-2-73, Cl. 260-247.70c.

Lauria, Francesco; Vecchietti, Vittorio; Bergamaschi, Mario; and Tommasini, Raffaele, to Erba, Carlo, S.p.A. 1-Alkylamino-3-(1,4-ethano-1,2,3, 4-tetrahydro-5-naphthoxy)-and-3-(5-benzonorbornano-xy)-2-propanols and the salts thereof. 3,732,308, 5-8-73, Cl. 60-570.700.

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Laurizio, Jeremiah, to American Flange & Manufacturing Co., Inc. Vented pouring spout. 3,717,289, 2-20-73, Cl. 222-481.000.

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Laustsen, Erik, to Destrugas A/S. Method of supplying refuse to a gas producing chamber for disposal of the refuse and a refuse disposal plant comprising a gasification chamber. 3,744,439, 7-10-73, Cl. 110-11.000.

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Lautenschlaeger, Horst, to Lautenschlaeger, Karl, Kommanditgesellschaft. Mounting plate for furniture hinge. 3,772,735, 11-20-73, Cl. 16-129.000.

Lautenschlaeger, Karl, Jun., to Lautenschlaeger, Karl, Kommanditgesellschaft. Snap hinge for furniture doors. 3,724,021, 4-3-73, Cl. 16-163.000.





Lautenschlaeger, Karl, Kommanditgesellschaft: *See—*





Lavigne, Pierre, to Commissariat a l'Energie Atomique. Driving

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Lautzenheiser, Robert D., to Red Cross Manufacturing, Corporation, The. Garden shredder with variable position loading chute. 3,716,090, 2-13-73, Cl. 56-501.000.
Lautzenheiser, Robert D., to Red Cross Manufacturing Corporation, The. Shredder. 3,716,198, 2-13-73, Cl. 241-188.00r.
Lautzenhiser, Argyle Glenn. Coin separator. 3,771,637, 11-13-73, Cl. 194-96.00r.
Laux, Leon E., to Martin Marietta Corporation. Method of cutting low density materials and improved cutter employed therewith. 3,709,094, 1-9-73, Cl. 90-11.00c.
Lavado, Neal M., to Altair, Inc. Fail safe thermostatic switch. 3,768,731, 10-30-73, Cl. 236-93.000.
Laval, Claude, to Lebocey Industrie, Societe Anonyme. Weft thread selecting and handling means for gripper shuttle loom. 3,727,647, 4-17-73, Cl. 139-122.00w.
Lavaliee, Robert G.; and Grolman, Bernard, to American Optical Corporation. Non-contact tonometer. 3,756,073, 9-4-73, Cl. 72-80.000.
LaValle, Thomas Alvin, to Western Electric Company, Incorporated. Methods of testing the strength of wire bonds in electrical components. 3,724,264, 4-3-73, Cl. 73-88.00b.
LaValle, Thomas Alvin, to Western Electric Company, Incorporated. Apparatus for testing the strength of the joint of a wire joined to a part. 3,724,265, 4-3-73, Cl. 73-88.00b.
Lavallee, Pierre A., to Xerox Corporation. Data compression methods and apparatus. 3,726,993, 4-10-73, Cl. 178-6.000.
LaVange, Donald H., to Polytop Corporation. Float controlled dispensers. 3,774,808, 11-27-73, Cl. 222-57.000.
Lavanish, Jerome M.: *See—*
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Lavarenne, Jean, to Societe Nationale Industrielle Aerospatialc. Device for measuring the acceleration of a vehicle. 3,731,147, 5-1-73, Cl. 317-5.000.
Lavarenne, Jean Rene Noel, to Societe Nationale Industrielle Aerospatiale. Auxiliary flight instrument. 3,753,220, 8-14-73, Cl. 340-27.00r.
Lavarini, Bernard, to Compagnie Generale d'Electricite. Generator with laser augmentation. 3,748,505, 7-24-73, Cl. 310-611.000.
Lavash, John Paul, to General Electric Company. Fuel delivery and control system for a gas turbine engine. 3,779,007, 12-18-73, Cl. 60-39.28r.
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Laven, Rolf. Counting mechanisms. 3,714,400, 1-30-73, Cl. 235-117.00r.
Laven, Thomas R., to Western States Machine Company, The. Centrifugal basket bottom valve mechanism. 3,773,253, 11-20-73, Cl. 233-20.00r.
Lavender, William J.: *See—*
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Lavergne, Michel, to Institut Francais du Petrole des Carburants et Lubrifiants. Method for inducing shear waves in the earth and device therefor. 3,716,111, 2-13-73, Cl. 181-.5rc.
Laverick, Elizabeth, to Elliott Brothers (London) Limited. Radio aerial. 3,771,160, 11-6-73, Cl. 343-756.000.
Lavering, Gordon R., to Varian Associates. Electrode support for arc lamps. 3,715,615, 2-6-73, Cl. 313-204.000.
Lavering, Gordon R.; and Eallonardo, Charles M., to Varian Associates. Heat dissipation device. 3,746,087, 7-17-73, Cl. 165-185.000.
Laverman, Royce Jay; and Agrawal, Govind M., to Chicago Bridge & Iron Company. Storage tank for liquefied gas having bottom insulation gas shielding. 3,748,865, 7-31-73, Cl. 62-50.000.
Lavigne, Jean. Pad of stacked detachable sheets, a method and elements for manufacturing the same. 3,778,324, 12-11-73, Cl. 156-257.000.
Lavigne, Jean C., to Schlumberger Technology Corporation. Switching circuit controlled steered beam transducer. 3,732,945, 5-15-73, Cl. 181-.5ag.
Lavigne, Pierre, to Commissariat a l'Energie Atomique. Driving device of the stirling-cycle relaxation type for an implantable artificial heart. 3,766,568, 10-23-73, Cl. 3-1.000.
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Lavins, Ramon E. Gun bore cleaning implement. 3,716,884, 2-20-73, Cl. 15-104.160.
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Law, Ernest Harry; and Clark, James William, to United Aircraft Corporation. Active roll controlling truck stabilizing mechanism. 3,717,104, 2-20-73, Cl. 105-164.000.
Law, Harold Bell: *See—*
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Law, Harold Bell, to RCA Corporation. Fabrication of focus grill type cathode ray tubes. 3,722,044, 3-27-73, Cl. 29-25.160.
Law, Harold Bell, to RCA Corporation. Method and article for color kinescope screen and mask production. 3,730,719, 5-1-73, Cl. 96-36.100.
Law, Harold Bell, to RCA Corporation. Method for making an image screen structure for an apertured-mask cathode-ray tube using a mask having temporary apertures. 3,770,434, 11-6-73, Cl. 96-36.100.
Law, John M.; Stricker, Alfred A.; and Von Kaenel, Walter, to International Business Machines Corporation. Automatic pin insertion and bonding to a metallized pad on a substrate surface. 3,736,651, 6-5-73, Cl. 29-428.000.
Law, Joseph F.: *See—*
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Law, Kenneth J.; and Brown, Gordon R., to Parke, Davis & Company. Amplifier with long term, digitally-controlled D.C. clamping. 3,757,242, 9-4-73, Cl. 330-127.000.
Law, Malcolm John; and Jones, Horace, to Permalite Chemicals Limited. Electrodeposition of chromium. 3,713,999, 1-30-73, Cl. 204-51.000.
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Histed, John A.; Lawford, William H.; McLeod, Murray J.; Wendeborn, Robert G.; and Catford, Dennis R., 3,764,463.
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Lawing, Burmah D.; and Rankin, Carol Dean, to Speizmin Industries, Inc. Packaging apparatus and method. 3,742,676, 7-3-73, Cl. 53-21.0fw.
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Lawler, Gerald J. Portable sample case. 3,724,617, 4-3-73, Cl. 190-16.000.
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Lawlor, John E.; and Sgombick, John, to Xerox Corporation. Educational device. 3,777,412, 12-11-73, Cl. 35-19.00r.
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Lawrence, Frank L., to Smith-Berger Manufacturing Corporation. Yarder having an infinite ratio driving interlock for spooling drums. 3,733,812, 5-22-73, Cl. 60-6.000.
Lawrence Frederick J.: *See—*
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Lawrence, Garth D.; and Ott, Jack J., to Dow Chemical Company, The. Manufacture of composites containing a thermally shaped inorganic fiber form. 3,775,530, 11-27-73, Cl. 264-257.000.
Lawrence, Geoffrey Lloyd, to Zenith Carburetter Company Limited, The. Carburetors. 3,753,555, 8-21-73, Cl. 261-44.00r.
Lawrence, Geoffrey Lloyd, to Zenith Carburetter Company Limited, The. Carburetors. 3,779,530, 12-18-73, Cl. 261-44.00r.
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Lawrence, Laurence William David; Wells, Brian Goodwill; Bunting, Colin; and Dawson, John, to Plessey Handel und Investments A.G. Adjustable reversible telecommunication code signal converter. 3,745,258, 7-10-73, Cl. 179-18.0fh.
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Lawrence, Walter W., Jr.; Mc Kay, Tom W.; and Wiegand, Karl E., to Ethyl Corporation. Cyanohydrin compounds. 3,770,796, 11-6-73, Cl. 260-465.400.
Lawrence, William John, Jr. Two-piece suction pump. 3,752,366, 8-14-73, Cl. 222-207.000.
Lawrence, Willis Thompson, to Hooker Chemical Corporation, mesne. Shut-down system for heat storage exchange apparatus. 3,730,265, 5-1-73, Cl. 165-134.000.
Lawrenson, Jack: *See—*
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Lawrenson, Jack; and Silverwood, Frederick William, to Pilkington Brothers Limited. Manufacture of float glass by applying lateral electromagnetic forces to the edges. 3,733,190, 5-15-73, Cl. 65-91.000.
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Lawser, John J., to Ford Motor Company. Gas liquid separator for use in a refrigeration system. 3,778,984, 12-18-73, Cl. 55-333.000.
Lawsine, Leo. Signal processing apparatus. 3,720,952, 3-13-73, Cl. 343-18.00e.
Lawsing, Joseph W., to United Aircraft Corporation. Pressure regulating valve. 3,726,302, 4-10-73, Cl. 137-117.000.
Lawson, Alfred C., to Sybron Corporation. Automatic loading and unloading apparatus for washers, sterilizers and like vessels. 3,738,508, 6-12-73, Cl. 214-23.000.
Lawson, Anthony Newton, to International Standard Electric Corporation. Switch actuating mechanism. 3,737,607, 6-5-73, Cl. 200-172.00a.
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Scherer, Carl A.; and Lawson, Dale W., 3,738,119.
Lawson, De Wayne L., to Olinkraft, Inc. Combined shipping pallet/container. 3,730,417, 5-1-73, Cl. 229-23.00r.
Lawson, Dennis Illingworth; and O'Sullivan, Eugene Francis, to National Research Development Corporation. Fire detecting apparatus sensitive to refraction. 3,723,746, 3-27-73, Cl. 250-218.00r.
Lawson, Gerald P.: *See—*
Carlson, John T. M.; and Lawson, Gerald P., 3,761,857.
Lawson, Gerald P.; and Carlson, John T. M., to Rosemount Inc. Extruder pressure transmitter. 3,760,638, 9-25-73, Cl. 73-395.000.
Lawson, Gerald William: *See—*
Cohen, Joseph David; Brookes, Neil Roger; Stark, Herbert Carl; Hirschkron, Robert; and Lawson, Gerald William, 3,750,397.
Lawson, Gustaf Rudolph: *See—*
Hays, Kenneth Scott; and Lawson, Gustaf Rudolph, 3,761,603.
Lawson, Jack M. Sewing guide for pin strip. 3,734,040, 5-22-73, Cl. 112-153.000.
Lawson, Jimmie B.; and Mijnlieff, Pieter F., to Shell Oil Company. Water-thickening polymer-surfactant adsorption product. 3,739,848, 6-19-73, Cl. 166-274.000.
Lawson, John B., to Lawson-Hemphill, Inc. Yarn handling apparatus. 3,776,480, 12-4-73, Cl. 242-47.010.
Lawson, John E. Tree platform. 3,762,502, 10-2-73, Cl. 182-223.000.
Lawson, John E., Jr., to Atlantic Richfield Company. Hydrocarbonaceous feed treatment. 3,736,249, 5-29-73, Cl. 208-80.000.
Lawson, Leslie Edward; and Smith, Peter John, to Howson-Algraphy Limited. Lithographic printing plates with lacquer of resole-epoxy resin combination. 3,779,759, 12-18-73, Cl. 96-33.000.
Lawson, Lewis E., to Green Giant Company. Asparagus harvester. 3,717,986, 2-27-73, Cl. 56-327.00a.
Lawson, Lonnie Gravely, to Fieldcrest Mills, Inc. Bobbin gear drive for roving frames. 3,748,843, 7-31-73, Cl. 57-102.000.
Lawson, Maurice O.; and Willke, Theodore L., to United States of America, Air Force. Corona discharge electrode structure for electrofluid dynamic generator. 3,725,737, 4-3-73, Cl. 317-3.000.
Lawson, Michael J., to Lee, Raymond, Organization, Inc., The. Door lock. 3,726,555, 4-10-73, Cl. 292-291.000.
Lawson, Peter James; and Kocsis, Ferenc, to Besson, A. P., & Partner Limited. Tone device having positive feedback common emitter amplifier. 3,742,491, 6-26-73, Cl. 340-384.00e.
Lawson, Peter V. O., to Optasound Corporation. Tape and film synchronizing apparatus. 3,773,408, 11-20-73, Cl. 352-16.000.
Lawson, William J.: *See—*
Harben, Grover S., Jr.; Lewis, Ernest E.; Sloan, Lloyd E.; and Lawson, William J., 3,767,044.



Lawson, William J.: *See—*
Lawson, Gerald William, 3,750,397.
Lawson, William John, Jr. Two-piece suction pump. 3,752,366, 8-14-73, Cl. 222-207.000.
Lawson, Willis Thompson, to Hooker Chemical Corporation, mesne. Shut-down system for heat storage exchange apparatus. 3,730,265, 5-1-73, Cl. 165-134.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,333, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,334, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,335, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,336, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,337, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,338, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,339, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,340, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,341, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,342, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,343, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,344, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,345, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,346, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,347, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,348, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,349, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,350, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,351, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,352, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,353, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,354, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,355, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,356, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,357, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,358, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,359, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,360, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,361, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,362, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,363, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,364, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,365, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,366, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,367, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,368, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,369, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,370, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,371, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,372, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,373, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,374, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,375, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,376, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,377, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,378, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,379, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,380, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,381, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,382, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,383, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,384, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,385, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,386, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,387, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,388, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,389, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,390, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,391, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,392, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,393, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,394, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,395, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,396, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,397, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,398, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,399, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,400, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,401, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,402, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,403, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,404, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,405, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,406, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,407, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,408, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial Chemical Industries Limited. Naphthoquinone dyestuffs. 3,755,409, 8-28-73, Cl. 260-380.000.
Lawsone, Albert Edward; and Mann, Frederick Gordon, to Imperial

Lawson-Hemphill, Inc.: *See—*
Lawson, John B., 3,776,480.

Lawton, Lawrence. Two color pedestrian traffic signal with means for improving color rendition. 3,768,070, 10-23-73, Cl. 340-44.000.

Lawton, Robert G.: *See—*
Weaver, Cliff V.; Ranken, William A.; and Lawton, Robert G., 3,736,658.

Lawton, William R., to Arkwright-Interlaken, Inc. Heat reactive transparent copy sheet. 3,736,166, 5-29-73, Cl. 117-36.800.

Lawyer, John F.; and Prugger, David K., to General Electric Company. Resonator chamber silencer for gas turbine. 3,709,319, 1-9-73, Cl. 181-33.0hb.

Laxineta, Stephen C.: *See—*
Schone, Henry L.; Geer, William W.; Laxineta, Stephen C.; and Koistinen, Clayton W., 3,774,825.

Laxo, Darryl E., to United States of America, Navy. Controlled temperature garment. 3,743,012, 7-3-73, Cl. 165-39.000.

Lay, Frank M.; and McDowell, Allen W., to International Business Machines Corporation. Gas display panel dynamic honeycomb. 3,719,940, 3-6-73, Cl. 340-324.00r.

Lay, Jorge, to Lee, Raymond, Organization, Inc., The. Replaceable electric switch. 3,737,592, 6-5-73, Cl. 200-51.140.

Lay, Michael T., to McGraw-Edison Company. Power tool safety lock device for manual switch with switch actuator interlock structure defeatedly released by chuck key. 3,769,473, 10-30-73, Cl. 200-61.58r.

Lay, Ralph B.; and Olsen, Ogden R., to Hamilton Cosco, Inc. Folding high chair. 3,715,142, 2-6-73, Cl. 297-39.000.

Lay, Willard E. Propelling and steering means for boats. 3,747,555, 7-24-73, Cl. 115-18.000.

Laybourn, Robert J., to International Business Machines Corporation. Two-way drive mechanism. 3,731,061, 5-1-73, Cl. 235-61.11d.

Laycak, John F.; Readal, Gerald J.; and Prellwitz, Samuel B., to United States Steel Corporation. Apparatus for surface inspection of moving material with defect type recognition. 3,729,619, 4-24-73, Cl. 235-92.0dn.

Laycak, John F.; Readal, Gerald J.; and Prellwitz, Samuel B., to United States Steel Corporation. Apparatus for surface inspection of moving material. 3,781,117, 12-25-73, Cl. 356-200.000.

Layer, Gerard E.: *See—*
Griffiths, William R.; Johnston, Donald E.; Yates, John S.; and Layer, Gerard E., 3,708,138.

Layer, Gerard E.; Kreuzer, John A.; and Yates, John S., to Susquehanna Corporation, The. Rocket propelled target. 3,735,985, 5-29-73, Cl. 273-105.400.

Layer, Gerard E.; Yates, John S.; and Kreuzer, John A., to Susquehanna Corporation, The. Tow cable assembly. 3,747,873, 7-24-73, Cl. 244-3.000.

Layer, Robert W., to Goodrich, B. F., Company, The. Stabilizer system for stereoregular rubbers. 3,763,089, 10-2-73, Cl. 260-45.80n.

Laylander, Paul V.: *See—*
Connell, Joseph A.; Baranyi, Anthony J.; and Laylander, Paul V., 3,707,850.

Layman, Bobby C.: *See—*
Drew, Gene R.; and Layman, Bobby C., 3,721,408.

Layman, Lee R., to Monsanto Company. Forming articles from sheet material. 3,728,062, 4-17-73, Cl. 425-291.000.

Layman, Melvin M.: *See—*
Jensen, Hans A.; and Layman, Melvin M., 3,780,486.

Layman, Ralph Earl, to American Cyanamid Company. Nonlinear polyester resin compositions. 3,719,620, 3-6-73, Cl. 260-22.00d.

Layman, Stuart F.: *See—*
Daly, Patrick J.; Grogg, William E.; Layman, Stuart F.; Orlando, Harold J.; Perry, James E.; and Van Derlaske, Dennis P., 3,760,181.

Laymon, Richard D. Mechanical muscle massager. 3,756,224, 9-4-73, Cl. 128-57.000.

Layne & Bowler Company, The: *See—*
Layne, Leslie A., II; and Gerwick, Fred W., 3,709,293.

Layne, Gilbert S., to Dow Chemical Company, The. Ebullient cooling of high temperature metalliferous vapors. 3,775,093, 11-27-73, Cl. 75-68.00b.

Layne, Leslie A., II; and Gerwick, Fred W., to Layne & Bowler Company, The. Wire wrapped well screen. 3,709,293, 1-9-73, Cl. 166-232.000.

Layne, Melvin E., to Lee, Raymond, Organization, Inc., The. Panel to form composite concrete-reinforced wall. 3,751,867, 8-14-73, Cl. 52-426.000.

Layne, Robert W. Prefabricated modular housing. 3,745,730, 7-17-73, Cl. 52-236.000.

Layne, Ronald Paul. Photographic film processor. 3,738,250, 6-12-73, Cl. 95-89.00r.

Layne, Ronald Paul. Daylight loader for X-ray processor and the like. 3,752,044, 8-14-73, Cl. 95-1.000.

Layne, Ronald Paul. Seal means for axial flow pump and the like. 3,767,321, 10-23-73, Cl. 415-110.000.

Layton, Howard M., to Interlab, Inc. Exhaustless clean room work stations. 3,728,866, 4-24-73, Cl. 62-126.000.

Layton, Howard M.; and Yocis, Kenneth T., to Interlab, Inc. Control modules for electronic systems and consoles formed thereby. 3,763,400, 10-2-73, Cl. 317-117.000.

Layton, Jack D., to Layton Manufacturing Company. Hydraulic system for paver. 3,751,174, 8-7-73, Cl. 404-108.000.

Layton, Jack D., to Layton Manufacturing Company. Earth working machine including scrapper blade means. 3,776,318, 12-4-73, Cl. 172-777.000.

Layton, Lawrence Klinge, to Du Pont de Nemours, E. I., and Company. Use of an open-barrel screw press dryer for chain-branching an EPDM copolymer. 3,759,917, 9-18-73, Cl. 260-79.5pr.

Layton Manufacturing Company: *See—*
Layton, Jack D., 3,751,174.
Layton, Jack D., 3,776,318.

Lazar, Ferenc: *See—*
Kapolyi, Laszlo; Lazar, Ferenc; Vamos, Gyorgy; and Galauner, Bela, 3,770,469.
Kapolyi, Laszlo; Lazar, Ferenc; Galauner, Bela; Dzsida, Laszlo; Vamos, Gyorgy; Wagner, Laszlo; and Pogany, Alfred, 3,776,717.

Lazar, Ferenc, to Tatabanyai Szenbanyak. Treatment of aluminate digester liquor. 3,738,411, 6-12-73, Cl. 159-47.00r.

Lazar, John Daniel: *See—*
Glassford, Joseph B.; and Lazar, John Daniel, 3,733,113.

Lazar, Ralph M.: *See—*
Rockwood, Albert M.; Lemieux, Robert W.; Lutz, Allen; and Lazar, Ralph M., 3,738,656.

Lazarek, Andrew H. Demountable car window screen and fastening means therefor. 3,753,458, 8-21-73, Cl. 160-354.000.

Lazarow, Seldan A.: *See—*
Curtiss, Robert H.; Holzman, Richard; and Lazarow, Seldan A., 3,780,648.

Lazarus, Alan R. Headboard support. 3,740,776, 6-26-73, Cl. 5-296.000.

Lazarus, David Mendel: *See—*
Arbuckle, Kenneth Harold; and Lazarus, David Mendel, 3,760,033.

Lazarus, Milton; and Larsen, Nels B. Fire-kindling device and method of using same. 3,759,675, 9-18-73, Cl. 44-38.000.

Lazarus, Stanley David: *See—*
Decaprio, Joseph Donald; Dementi, Brian Armstead; and Lazarus, Stanley David, 3,755,251.

Lazarus, Stokes, to Aeroseal Corporation. Removal of ice by a self-heating mixture. 3,776,775, 12-4-73, Cl. 134-42.000.

Lazarus, Stokes S. Aerosol type dispenser. 3,710,990, 1-16-73, Cl. 222-402.240.

Lazecki, Stanislaw Vincent, to United Aircraft Corporation. Digital symbol generator. 3,713,135, 1-23-73, Cl. 340-324.00a.

Lazenby, Allan William, to Lucas, Joseph, (Industries) Limited. Solenoid for use in an engine starting mechanism. 3,750,066, 7-31-73, Cl. 335-274.000.

Lazenby, Peter G.; and Wondergem, Hendrik M., to Selco Mining Corporation, Limited, mesne. Apparatus for the remote detection of conducting bodies utilizing electromagnetic waveforms exhibiting abrupt discontinuities. 3,737,768, 6-5-73, Cl. 324-3.000.

Lazennec, Yvon: *See—*
Fally, Jacques; Lazennec, Yvon; and Lasne, Claude, 3,748,178.
Fally, Jacques; Richez, Jacques; Lasnf, Claude; and Lazennec, Yvon, 3,758,337.

Lazet, Frank J., to Philadelphia Quartz Company. Apparatus for liquid separation by flash distillation. 3,713,990, 1-30-73, Cl. 202-185.000.

Lazko, Viktor Evgenievich: *See—*
Belenky, Alexandr Mikhailovich; Lazko, Viktor Evgenievich; Toschev, Mikhailovich; Bikmametov, Ilgiz Ganeevich; Vilkov, Vladimir Kirillovich; Mosendz, Nikolai Alexandrovich; Yakushina, Galina Mikhailovna; and Mikhailov, Mikhail Vasilievich Poplavko, 3,770,45.

Lazor, George, to Westinghouse Electric Corporation. Insulating member for transformer coils. 3,710,293, 1-9-73, Cl. 336-198.000.

Lazzari, Jean-Pierre; Melnick, Igar; and Vallet, Jean-Yves, to Commissariat a l'Energie Atomique and Compagnie Internationale pour l'Informatique. Integrated magnetic head having alternate conducting and insulating layers within an open loop of two magneti films. 3,723,665, 3-27-73, Cl. 179-100.20c.

Lazzarini, Louis P.: *See—*
Lazzarini, Louis P., 3,721,145.

Lazzarini, Louis P., to Hanscom, Genevieve I., 1/2 to Hanscom, Genevieve I., Magnuson, Robert, Thomson, Lois J., as Trustees of the estate of and Magnuson, Roy M. Shuffle feed positioner and cutter. 3,721,145, 3-20-73, Cl. 83-732.000.

Lazzarini, Louis P., to Hanscom, Genevieve I.; formerly Magnuson, Genevieve I.,, Magnuson, Robert and Thomson, Lois J.; formerly Duggan, Lois J., trustees of the estate of Magnuson, Roy M.; deceased, mesne. Fresh vegetable processing. 3,754,461, 8-28-73, C. 99-233.700.

Lazzarotti, S. James: *See—*
Wojtowicz, Edward A.; Hunter, James R.; and Lazzarotti, S. James, 3,779,546.

Lazzery, Angelo Gino, to RCA Corporation. Damping means for ultrasonic transmitters. 3,777,700, 12-11-73, Cl. 116-137.00a.





LCC CICE-Compagnie Europeene des Composants Electronique: *See—*
Steenmetser, Jean Louis, 3,778,735.

LCM Corporation: *See—*
Coco, Spencer G., 3,768,530.

LCP Scientific, Inc.: *See—*
Kliott, Leon, 3,726,731.

Le Bar, Philip A., Jr., to General Motors Corporation. Linear governor. 3,757,809, 9-11-73, Cl. 137-47.000.

Le Baron, Theodore, to American Telephone and Telegraph Company. Multicustomer centralized call diverter. 3,736,383, 5-29-73, Cl. 179-18.0ha.

Le Blanc, Dennis G.; and Le Blanc, Norman G. Suspension ceiling erection method and support assembly employed therein. 3,767,008, 10-23-73, Cl. 182-129.000.

Le Blanc, G., Corporation: *See—*
Runde, Robert J., 3,748,946.

Le Blanc, Leo J., Jr.: *See—*
Strom, Charles E.; and Le Blanc, Leo J., Jr., 3,761,256.

Le Blanc, Norman G.: *See—*
Le Blanc, Dennis G.; and Le Blanc, Norman G., 3,767,008.

Le Blanc, Oliver H., Jr.: *See—*
Brown, John F., Jr.; Le Blanc, Oliver H., Jr.; and Grubb, Willard T., 3,767,553.

Le Blanc, Peter Edmund: *See—*
Bolton, Joseph A., III; and Le Blanc, Peter Edmund, 3,726,401.

Le Blanc, Robert: *See—*
Chu, Pe Tsi; Corby, Bernard; James, Andre Ernest; Le Blanc, Robert; and Milewski, Andrzej Tadeusz, 3,761,638.

Le Blanc, Robert B. Portable beer dispenser. 3,712,514, 1-23-73, Cl. 222-146.00c.

Le Blanc, Walter J.; and Rohrlack, Friedrich K. W., to Goodrich, B. F., Company, The. Segmented friction member for brake or clutch. 3,724,624, 4-3-73, Cl. 192-107.00r.

Le Blanc, John R.: *See—*
Huck, Rodney M.; and Le Blanc, John R., 3,756,980.

Le Blond Incorporated: *See—*
Gardner, Louis T., 3,744,124.

Le Boeuf, Joe S., to Continental Carbon Company. Spring hanger. 3,724,178, 4-3-73, Cl. 55-341.000.

Le Bolloch, Rene: *See—*
Guichard, Geoffroy; and Le Bolloch, Rene, 3,717,480.

Le Boulbouech, Jean: *See—*
Tanguy, Pierre; Carre, Pierre; and Le Boulbouech, Jean, 3,714,888.

Le Bourgeois, Andre Edouard Henri. Releasable locking device for immobilizing a member carried by a cable. 3,777,425, 12-11-73, Cl. 52-2.000.

Le Brasse, Gordon J.; and Gallatin, Victor, to Federal-Mogul Corporation. Composite article. 3,732,083, 5-8-73, Cl. 29-197.000.

Le Breton, Albert F., to Westinghouse Electric Corporation. Tandem thrust bearing. 3,734,581, 5-22-73, Cl. 308-160.000.

Le Breton, Ernest: *See—*
Thompson, Robert E.; and Le Breton, Ernest, 3,732,864.

Le Bris, Louis; Michelet, Daniel; and Rakoutz, Michel, to Rhone-Poulenc S.A. Electrochemical oxidation of thallium derivatives. 3,759,804, 9-18-73, Cl. 204-93.000.

Le Carvennec, Francois, to Thomson-CSF. Camera system utilising a pyroelectric target. 3,774,043, 11-20-73, Cl. 250-330.000.

Le Chatelier, Jacques; and Laflaquiere, Regis, to Societe Alsacienne de Constructions Mecaniques de Mulhouse, Societe Francaise. Spinning frame having bowl spindles. 3,760,576, 9-25-73, Cl. 57-34.00r.

Le Cheualier, Pierre; and Blangis, Jacques. Apparatus for positioning and securing a projectile holder on its pad. 3,724,321, 4-3-73, Cl. 89-1.800.

Le Comte, Corstiaan, to N.V. Hollandse Signaalapparaten. Digital sine/cosine generator. 3,735,110, 5-22-73, Cl. 235-197.000.

Le Count, David James; and Squire, Christopher John, to Imperial Chemical Industries Limited. 1-(Cyanoalkoxy) phenoxy-3-amino-2-propanols. 3,780,081, 12-18-73, Cl. 260-465.00e.

Le Cover, Maurice. Film take-up magazine and attachment assembly therefor. 3,715,963, 2-13-73, Cl. 95-31.00c.

Le Creurer, Maurice: *See—*
Regneault, Marcel; and Le Creurer, Maurice, 3,759,239.

Le Diberder, Michel Alain Rene; Ferrieu, Gilbert Marie Marcel; and Hamel, Roger Bernard Jules, to Telecommunications Radioelectriques et Telephoniques T.R.T. Coder-decoder for use in a delta-transmission system. 3,746,990, 7-17-73, Cl. 325-38.00b.

Le Diouron, Raymond, to L'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Method and apparatus for deep-freezing. 3,765,189, 10-16-73, Cl. 62-71.000.

Le Douarec, Jean-Claude: *See—*
Beregi, Laszlo; Hugon, Pierre; and Le Douarec, Jean-Claude, 3,725,432.
Beregi, Laszlo; Hugon, Pierre; and Le Douarec, Jean-Claude, 3,759,979.

Le Douarec, Jean-Claude; Beregi, Laszlo; and Hugon, Pierre, to Societe en nom Collectif Science Union et Cie, Societe Francaise de Recherche Medicale. Pharmaceutical compositions containing 1-benzoyl-3, 5-dimethyl pyrazole in the treatment of inflammation 3,743,739, 7-3-73, Cl. 424-273.000.

Le Doux, Reynold A., Jr.: *See—*
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Le Duc, Jean-Marc: *See—*
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Le Feuvre, Thomas: *See—*
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Le Fevre, Cecil W.: *See—*
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Hunter, Don L.; Woods, William G.; Stone, James D.; and Le Fevre, Cecil W., 3,764,623.
Strong, Philip L.; Hunter, Don L.; and Le Fevre, Cecil W., 3,764,624.
Woods, William G.; Hunter, Don L.; Stone, James D.; and Le Fevre, Cecil W., 3,764,625.

Le Fevre, Clyde E.; Hagan, James P.; and Owens, Ben H., to Micrographic Technology Corporation. Microfiche camera processor. 3,715,158, 2-6-73, Cl. 355-27.000.

Le Fleury, Fontenay: *See—*
Anthony, Anne-Marie, nee Barbier; Dembinski, Krzysztof; Faucher, Michele, nee Dupre; Le Fleury, Fontenay; and Dupont, Lucien, 3,726,984.

Le Fort, Louis A. Braking device including anti-skid means. 3,731,767, 5-8-73, Cl. 188-72.200.

Le Franc, Guy J., to Siemens Aktiengesellschaft. Magnetic lens arrangement. 3,708,772, 1-2-73, Cl. 335-210.000.

Le Gault, Richard L.; and Andersson, Per Lennart, to Heller Roberts Instruments Corporation. High speed number printer. 3,734,010, 5-22-73, Cl. 101-79.000.

Le Grand, Joseph A.; and Fuhrman, Ari. Corneal contact lens. 3,712,718, 1-23-73, Cl. 351-160.000.

Le Grives, Emile: *See—*
Genot, Jeanne, nee Delarbre; Le Grives, Emile; and Berland, Guy, 3,738,771.

Le Jeune, Andrus. Impact tool. 3,762,022, 10-2-73, Cl. 29-275.000.

Le Marchand, Claude, to Societe Anonyme D.B.A. Manual release mechanism for an emergency and parking brake. 3,729,070, 4-24-73, Cl. 188-170.000.

Le Martret, Odile: *See—*
Clemence, Francois; and Le Martret, Odile, 3,714,163.
Clemence, Francois; and Le Martret, Odile, 3,778,504.

Le Master, Harold A. Adjustable fishing lure. 3,727,339, 4-17-73, Cl. 43-42.220.

Le Masters, Paul D.: *See—*
Richards, Roy C.; Le Masters, Paul D.; and Shearer, James E., 3,762,383.

Le Meur, Germain: *See—*
Huvey, Michel; and Le Meur, Germain, 3,744,505.

Le Mieux, Robert W.: *See—*
Crossman, Phillip L.; Kenrick, Robert C.; and Le Mieux, Robert W., 3,773,325.

Le Moyne, Andre, to Union Siderurgique du Nord et l'Est de la France par Abreviation. Pouring vessel-caisson for treating molten metal in a regulated atmosphere. 3,764,124, 10-9-73, Cl. 266-34.00v.

Le Nabour, Marcel: *See—*
Bourgain, Louis; Dreyfus, Gaspard; Le Nabour, Marcel; and Rouquie, Georges, 3,765,735.

Le Page, Jean Francois: *See—*
Derrien, Michel; van Landeghem, Hugo; JeanJean, Pierre; and Le Page, Jean Francois, 3,770,619.
Juguin, Bernard; and Le Page, Jean Francois, 3,758,627.
Juguin, Bernard; Le Page, Jean Francois; Malmaison, Rueil; and Miquel, Jean, 3,769,239.

Le Paliscot, Christian; and Venegas, Juan Quintero. Multiple purpose foldable plastic handle for razors or the like. 3,750,280, 8-7-73, Cl. 30-85.000.

Le Paranthoen, Rene; and Bonjour, Georges, to La Cellophane. Oriented polypropylene resin modified polyethylene polyethylene terephthalate films with improved electrical properties. 3,719,729, 3-6-73, Cl. 260-873.000.

Le Peuvedic, Jean-Pierre: *See—*
Quichaud, Claude; Le Peuvedic, Jean-Pierre; and Tinchon, Jacques, 3,714,831.
Quichaud, Claude; and le Peuvedic, Jean-Pierre, 3,756,076.

Le Peuvedic, Jean-Pierre; and Quichaud, Claude, to Societe Anonyme dite: Societe Nationale des Petroles d'Aquitaine. Hydraulically controlled device for modulating the mud. 3,737,843, 6-5-73, Cl. 340-18.0cs.

Le Poole, Jan Bart: *See—*
Rus, Pieter Jan; Le Poole, Jan Bart; and Kramer, Johannes, 3,767,927.

Le Poole, Jan Bart, to U.S. Philips Corporation. Electron beam apparatus with means for generating a rotation-symmetrical magnetic field. 3,731,094, 5-1-73, Cl. 250-49.50d.

Le Poole, Jan Bart, to U.S. Philips Corporation. Electron beam apparatus comprising a cathode to be heated by an energy beam. 3,745,342, 7-10-73, Cl. 250-49.50a.

Le Roch, Emile Francois Louis; and Troncy, Robert, to Telecommunications Radioelectriques et Telephoniques T.R.T. Repeater fault localization system. 3,758,728, 9-11-73, Cl. 179-175.31r.

Le Rouax, Robert K., to Hydril Company. Blowout preventer with ram support and guide means. 3,744,749, 7-10-73, Cl. 251-1.000.

Le Roux, Louis: *See—*
Konrat, Jean-Paul; and Le Roux, Louis, 3,742,011.

Le Roy, Guy, to Societe Lannionnaise d'Electronique and Compagnie Industrielle des Telecommunications Cit-Alcatel. Variable capacity memory. 3,739,354, 6-12-73, Cl. 340-173.00r.

Le Roy, Guy, to Societe Lannionnaise d'Electronique and Compagnie Industrielle des Telecommunications Cit-Alcatel. Time switch for connecting multiplex systems. 3,773,978, 11-20-73, Cl. 179-51.0ag.

Le Seigneur, Pierre, to Thomson-CSF. Power amplifying device for amplitude modulated high frequency signals. 3,720,880, 3-13-73, Cl. 330-29.000.

Le Suer, William Monroe, to Lubrizol Corporation, The. Reaction products of high molecular weight carboxylic acid esters and certain carboxylic acid acylating reactants. 3,708,522, 1-2-73, Cl. 260-485.00g.

Le Sueur, Joel M.; and Blauvelt, Everet M. Slate trimming machine. 3,741,193, 6-26-73, Cl. 125-23.00t.

Le Tourneau, R. G., Inc.: *See—*
Molby, Lloyd A., 3,720,332.
Molby, Lloyd A., 3,778,174.
Zillman, Rex L., 3,764,149.

Le Vacon, Yannick: *See—*
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Le Van, Wayne P. Method for cooking strips of meat. 3,778,523, 12-11-73, Cl. 426-510.000.

Le Veque, Joseph C.: *See—*
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Le Vesconte, Ivor J. R.: *See—*
Stapleton, Peter L.; and Le Vesconte, Ivor J. R., 3,772,721.

Le Viet, Toai, to Societe d'Assistance Technique pour Produits Nestle S.A. Split folded wave guide with leakage preventive apertures. 3,746,822, 7-17-73, Cl. 219-10.550.

Le von Crow, Morgan, to Dresser Industries, Inc. Lubricant reservoir for rock bits. 3,744,580, 7-10-73, Cl. 175-228.000.

Le Von, Ernest F.: *See—*
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Le Voy's, Inc.: *See—*
Pannier, Karl A., Jr.; Reynolds, Gordon S.; and Sorenson, James L., 3,719,197.
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Lea, Albert: *See—*
Fjermestad, Arnold R.; Lea, Albert; and Nellis, William M., 3,776,189.

Lea, Bernard A., to Minnesota Mining and Manufacturing Company. Use of merocyanine compounds in photothermosensitive systems. 3,719,495, 3-6-73, Cl. 96-114.100.

Lea, Harlan L., to Koneta Rubber Company, Inc. Spray shield for highway vehicle wheels. 3,721,459, 3-20-73, Cl. 280-154.50r.

Lea-Ronal, Inc.: *See—*
Kessler, Richard B.; and Nobel, Fred I., 3,725,220.

Leach, Austin F.; and Sandberg, Gary Karl, to Omark Industries, Inc. Two stage energy absorber. 3,717,224, 2-20-73, Cl. 188-1.00c.

Leach, Austin F.; Sandberg, Gary Karl; and Pierson, William F., to Omark Industries, Inc. Energy absorbing highway barrier. 3,717,326, 2-20-73, Cl. 256-13.100.

Leach, Bruce E., to Continental Oil Company. Removal of residual carbon contaminates from alumina. 3,773,691, 11-20-73, Cl. 252-463.000.

Leach Company: *See—*
Gollnick, Cyril R., 3,739,927.

Leach Corporation: *See—*
Norris, Kermit A., 3,736,582.

Leach, Jack, to Burlington Industries, Inc. Impression fabric made of yarn containing variable shrinkage filaments. 3,749,222, 7-31-73, Cl. 197-172.000.

Leach, Jack, to Burlington Industries, Inc. Fire safe or burn preventive clothing. 3,763,497, 10-9-73, Cl. 2-81.000.

Leach, James A., to Westinghouse Electric Corporation. Automatic resetting timer. 3,736,407, 5-29-73, Cl. 219-492.000.

Leach, John Harold: *See—*
Tolworthy, Robert Theodore; and Leach, John Harold, 3,714,546.

Leach, Raymond B. Hub assembly. 3,711,170, 1-16-73, Cl. 308-184.000.

Leach, Raymond B., to Miracle Hub and Wheel, Inc. Wheel with resilient hub. 3,727,983, 4-17-73, Cl. 301-136.000.

Leach, Rex, Jr., to Horn, Paul, Farms, Inc. Batch weighing machine. 3,738,077, 6-12-73, Cl. 53-59.00w.

Leach, Sam L. Foamed ceramic material. 3,762,935, 10-2-73, Cl. 106-40.00r.

Leacock, Ronald. Automatic machine tool. 3,720,475, 3-13-73, Cl. 408-44.000.

Leadbetter, Orren R. Shelf extender. 3,741,131, 6-26-73, Cl. 108-97.000.

Leader, Adam M.: *See—*
Kipple, Harry P.; Price, Charles E.; and Leader, Adam M., 3,710,437.

Leader, Charles B.: *See—*
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Leader, John Henry: *See—*
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Leader, William M.: *See—*
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Leading Plywood Corporation: *See—*
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Leadore, Toney C.: *See—*
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Leaf, Carol Ann. Exercise game. 3,722,885, 3-27-73, Cl. 273-1.00r.

Leaf, H. Vincent: *See—*
O'Donnell, Paul E.; and Leaf, H. Vincent, 3,735,331.

Leaf, Ronn J.: *See—*
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Leaf, William Benjamin, to Prototypes, Incorporated and Zone Research Incorporated. In situ fluorometer. 3,754,145, 8-21-73, Cl. 250-218.000.

Leaffer, Morris A.: *See—*
Acton, Edward M.; Leaffer, Morris A.; and Stone, Herbert, 3,780,194.
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Leahy, Henry C., to Westinghouse Electric Corporation. Reduced loss phase shifter utilizing Faraday rotator. 3,760,300, 9-18-73, Cl. 333-31.00a.

Leahy, Joseph E.: *See—*
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Leak, Vance G.; and Fine, Morris M., to United States of America, Interior. Recovery of cooper and steel from scrap. 3,776,718, 12-4-73, Cl. 75-63.000.

Leal, Victor Mario: *See—*
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Leal-Diaz, Jaime: *See—*
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Leaman, Graham, to Crescent Toy Company Limited, The. Toy pistols. 3,740,885, 6-26-73, Cl. 42-58.000.

Leaming, Roger M. Oil cleaning device for automotive engines. 3,771,656, 11-13-73, Cl. 210-168.000.

Lean, Eric G.; and Powell, Carl G., to International Business Machines Corporation. Dispersive acoustical deflector for electromagnetic waves. 3,736,044, 5-29-73, Cl. 350-161.000.

Lean, John Barry: *See—*
Swinkels, Dominicus Adrianus Johannes; Scaife, Peter Hansen; and Lean, John Barry, 3,770,868.

Leandri, Raymond. Construction block assembly. 3,707,820, 1-2-73, Cl. 52-436.000.

Leanneret, Jules. Machine tool carriages. 3,710,633, 1-16-73, Cl. 74-107.000.

Leanza, William J.: *See—*
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Learn, Leland L.; and Moreland, William C., II, to Westinghouse Electric Corporation. Flexible mold ice maker control. 3,739,595, 6-19-73, Cl. 62-135.000.

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Leas, Lawrence E.; Leas, Robert L.; and Johnson, Cecil J., to Leas Brothers Development Corporation. Pollution controller. 3,751,906, 8-14-73, Cl. 60-39.020.

Leas, Lawrence E.; Leas, Robert L.; and Johnson, Cecil J., to Leas Brothers Development Corporation. Production of synthetic natural gas and hydrogen from the gasification of carbonaceous materials. 3,753,671, 8-21-73, Cl. 48-210.000.

Leas, Lawrence E.; Leas, Robert L.; and Johnson, Cecil J., to Leas Brothers Development Corporation. Pollution-free fuels. 3,769,197, 10-30-73, Cl. 208-8.000.

Leas, Lawrence E.; Leas, Robert L.; and Johnson, Cecil J., to Leas Brothers Development Corporation. Production of desulfurized liquids and gases from coal. 3,779,893, 12-18-73, Cl. 208-10.000.

Leas, Robert L.: *See—*
Leas, Lawrence E.; Leas, Robert L.; and Johnson, Cecil J., 3,751,906.
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Leas, Vernon E.; and Leas, Jeffrey Alan, 3,768,701.

Leas, Vernon E.; and Leas, Jeffrey Alan, to Diverse Ventures Corporation. Liquid dispensing system and receptacle therefor. 3,768,701, 10-30-73, Cl. 222-129.400.

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Leason, Hayden, to Scovill Manufacturing Company. Method of making self-supporting filter with positioning of a tubular sleeve in a mold. 3,746,595, 7-17-73, Cl. 156-245.000.

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Leatherby, Vincent C., to Fuel Equipment Co., Inc. Gas-fired blast type burner. 3,736,095, 5-29-73, Cl. 431-349.000.

Leatherman, Alfred F., to Heller, William C., Jr., mesne. Apparatus and process for printing. 3,749,015, 7-31-73, Cl. 101-426.000.

Leatherman, Cleown A., to Dow Chemical Company, The. Preparation of matte-surfaced styrene polymer film. 3,743,693, 7-3-73, Cl. 264-340.000.

Leathers, Chester F. Low inductance unit particularly for electric welders. 3,742,334, 6-26-73, Cl. 321-57.000.

Leathers, Clarence H., to Grant Oil Tool Company. Underreamer having variable arm extension. 3,749,187, 7-31-73, Cl. 175-269.000.

Leathers, Clarence H., to Grant Oil Tool Company. Large diameter hole opener for earth boring. 3,757,877, 9-11-73, Cl. 175-269.000.

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Leavitt, Minard A., to Cutler-Hammer, Inc. Film transport. 3,716,177, 2-13-73, Cl. 226-1.000.

Leavitt, Minard A.; and Roulund, Poul B., to Cutler-Hammer, Inc. Film handling method and apparatus. 3,741,650, 6-26-73, Cl. 355-91.000.

Leavitt, Minard A.; and Roulund, Paul B., to Cutler-Hammer, Inc. Apparatus for holding two films in intimate contact with each other. 3,762,619, 10-2-73, Cl. 226-109.000.

Leavitt, Minard A., to Cutler-Hammer, Inc. Method and apparatus for reducing optical interference patterns recorded by contact printers. 3,778,155, 12-11-73, Cl. 355-91.000.

Leavitt, Richard I.: *See—*
Coty, Vernon F.; and Leavitt, Richard I., 3,767,527.
Heilweil, Israel J.; and Leavitt, Richard I., 3,730,894.
Heilweil, Israel J.; and Leavitt, Richard I., 3,756,918.

Leavitt, Richard Irwin, to Mobil Oil Corporation. Method of isolating amino acid producing mutant microorganisms and mutants obtained therefrom. 3,756,916, 9-4-73, Cl. 195-28.00r.

Leavy, Paul M., Jr.: *See—*
Wild, Norman R.; and Leavy, Paul M., Jr., 3,731,225.

LeBaron, Chester A., to Dessau, Maurice S., Co., Inc. Diamond tool. 3,713,431, 1-30-73, Cl. 125-39.000.

Lebeau, Rene D., to Woodworking Engineering & Machinery Co., Inc. Sound reducing unit for machinery. 3,741,335, 6-26-73, Cl. 181-33.00k.

Lebeder, Alexandr Vladimirovich: *See—*
Kildishev, Vasily Semenovich; Kovalkov, Gely Alexeevich; Maznikin, Nikolai Sergeevich; Misjulin, Alexandr Vasilievich; and Lebeder, Alexandr Vladimirovich, 3,746,979.

Lebedev, Oleg Andreevich: *See—*
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Lebedev, Vladimir Konstantinovich: *See—*
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Unigovsky, Mikhail Rakhmilevich; Konovalov, Julian Konstan- Leboutet, Hubert P.; and Bensussan, Andre M., to Thomson-CSF.

Unigovsky, Mikhail Rakhmilevich; Konovalov, Julian Konstantinovich; Rulevsky, Evgeny Vasilievich; Zakrevsky, Petr Ivanovich; Rotenfeld, Veniamin Solomonovich; Chvertko, Anatoly Ivanovich; Lebedev, Vladimir Konstantinovich; Golenzovsky, Tsezar Bronislavovic; Gorbunov, Georgy Vasilievich; Prokofiev, Vladimir Ivanovich; Zaitsev, Konkordy Ivanovich; Lifshits, Viktor Senderovich; Papkov, Oleg Sergeevich; Petrov, Georgy Nikolaevich; and Litvinchuk, Mark Davidovich, 3,745,319.

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Lukhovitsky, Vladimir Isaakovich; Smirnov, Andrei Mikhailovich; Polikarpov, Vladimir Vasilievich; Lebedeva, Alla Mikhailovna; Lagucheva, Raisa Mizovna; and Karpov, Vladimir Lvovich, 3,709,804.

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Lebegue, Maurice K., to National Mine Service Company. Continuous mining machine. 3,774,969, 11-27-73, Cl. 299-76.000.

Lebel, Pierre: *See—*
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Lebender, Rotraud: *See—*
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Lebensfeld, Steven Allen, to Hot Items Incorporated. Pressure-actuated bubble blowing toy. 3,736,694, 6-5-73, Cl. 46-7.000.

Leber, Fritz; Seumel, Karl-Gottfried; and Mohrle, Gunther, to Zahnradfabrik Friedrichshafen Aktiengesellschaft. Control system for hydraulic clutches of reversible gear-shift mechanism. 3,719,102, 3-6-72, Cl. 74-364.000.

Leber, Jean-Pierre; and Lutz, Karl, to Sandoz Ltd.; a/k/a Sandoz AG. Cis-thiophosphoric acid amide esters. 3,758,645, 9-11-73, Cl. 260-941.000.

Leber, Jean-Pierre, to Sandoz Ltd.; a/k/a Sandoz AG. Cis-phosphoric acid amide esters. 3,760,039, 9-18-73, Cl. 260-941.000.

Lebhere, Richard: *See—*
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Lebkucher, Karl Heinz: *See—*
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Leblan, Robert: *See—*
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Leblanc, Conrad L., to Foster Grant Co., Inc. Strap length adjustment device. 3,760,466, 9-25-73, Cl. 24-200.000.

Leblanc, Edward A. Rough terrain pack vehicle. 3,764,157, 10-9-73, Cl. 280-127.00b.

LeBlanc, Oliver H., Jr.: *See—*
Brown, John F., Jr.; Slusarczuk, George M. J.; and LeBlanc, Oliver H., Jr., 3,743,588.

Leblon, Emile: *See—*
Hermans, Jean Pierre; Leblon, Emile; and Lejeune, Marcel, 3,732,335.

Leblond, Christian, to Pont-A-Mousson S.A. Valve having an eccentric butterfly member and sealing element for said valve. 3,776,509, 12-4-73, Cl. 251-306.000.

Leblond, Christian Georges; and Oger, Jacques Francois Marie, to Centre de Recherches de Pont-a-Mousson. Linings or casings for tunnels, galleries, mine pits and the like. 3,707,846, 1-2-73, Cl. 61-45.00r.

LeBlond, Inc.: *See—*
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Hentz, Thomas E.; and Burroughs, Robert K., 3,766,460.

Leblond, Jean, to Uniroyal Englebert France S.A. Tire building drum. 3,718,520, 2-27-73, Cl. 156-400.000.

Leblond, Jean, to Uniroyal Englebert France S.A. Tire building machine. 3,740,292, 6-19-73, Cl. 156-396.000.

Leblond, Jean. Tire building drum having a carcass ply support and foldover mechanism. 3,772,125, 11-13-73, Cl. 156-402.000.

Leblond, Jean R., to Uniroyal Societe Anonyme. Method of tire shaping and vulcanizing. 3,776,999, 12-4-73, Cl. 264-315.000.

LeBlond, R. K., Machine Tool Company: *See—*
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Lebo, William H.: *See—*
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Lebocey Industrie, Societe Anonyme: *See—*
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Lebourg, Pierre, to Thomson-CSF. System for magnetic recording and reproducing of a signal by means of a frequency-modulated retangular wave. 3,725,609, 4-3-73, Cl. 179-100.20k.

Leboutet, Hubert, to Thomson-CSF. Vacuum tube for generating a wide beam of fast electrons. 3,780,334, 12-18-73, Cl. 313-299.000.

Leboutet, Hubert P.; and Bensussan, Andre M., to Thomson-CSF. Particle preaccelerator arrangement. 3,769,599, 10-30-73, Cl. 328-233.000.

Lebovitz, Bernard, to United States of America, Air Force. Missile launcher. 3,771,412, 11-13-73, Cl. 89-1.807.

Lebowitz, Samuel, to Tieco Products, Inc., mesne. Space divider system. 3,735,794, 5-29-73, Cl. 160-135.000.

Lebras, Louis R.; Christenson, Roger M.; and Zwack, Robert R., to PPG Industries, Inc. Treatment of electrodeposition rinse water. 3,749,657, 7-31-73, Cl. 204-181.000.

LeCan, Claude Jan Principe Frederic; and Steinmaier, Walter, to U.S. Philips Corporation. Semiconductor device with isolated circuit elements. 3,777,230, 12-4-73, Cl. 317-235.00r.

Lecarpentier, Louis Jules Desire. Tilting chair. 3,774,961, 11-27-73, Cl. 297-260.000.

Lech, Richard J.; and Reinebach, Lawrence R., to International Harvester Company. Variable displacement pump. 3,712,758, 1-23-73, Cl. 417-214.000.

Lech, Richard J.; Ziskal, Joseph F.; Jennings, Marvin D.; Orth, Harold R.; and Virtue, Eugene P., to International Harvester Company. Closed center hydraulic system. 3,750,405, 8-7-73, Cl. 60-422.000.

Lechevallier, Andre: *See—*
Casalta, Jean Pierre; Dubs, Claude; and Lechevallier, Andre, 3,729,172.

Lechner, Hadrian B., to Bausch & Lomb Incorporated. Inverted telephoto projection lenses. 3,719,413, 3-6-73, Cl. 350-214.000.

Lechner, Hadrian B.; and Van Orden, Lynn L., to Bausch & Lomb Incorporated. Six component inverted telephoto projection lens. 3,773,403, 11-20-73, Cl. 305-215.000.

Lechner, Karl: *See—*
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Masson, Narinder; Korenicki, William John; and Lechner, Walter Ludwig, 3,720,229.

Lechot, Andre. Automatic lathes. 3,714,853, 2-6-73, Cl. 82-2.500.

Lechtenberg, Leo J., to Briggs & Stratton Corporation. Manufacture of foam air filter elements. 3,766,629, 10-23-73, Cl. 29-412.000.

Lecinski, Frank H., to Continental Can Company, Inc. Childproof closure and container. 3,730,370, 5-1-73, Cl. 215-9.000.

Leckenby, Robert Edwin: *See—*
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LeClair, Albert W.; and Benbrook, Charles H., to Nachua Corporation. Thermographic copy sheet containing 2-phenyl 1,3-indanedetone. 3,764,333, 10-9-73, Cl. 96-88.000.

Leclerc, Pierre, to Thomson-CSF. Mosaic of M. O. S. type semiconductor elements. 3,775,646, 11-27-73, Cl. 317-235.00r.

Leclercq, Jacques; and Reide, Louis, to Societe Hispano-Suiza/Lallemant. Retractable landing gear. 3,713,608, 1-30-73, Cl. 244-102.00r.

Leclercq, Francis. Yarn feed mechanism with constant throughput and pneumatic tension regulation. 3,746,226, 7-17-73, Cl. 226-25.000.

Leclercq, Jean-Paul. Decorative facing for walls, facades, ceilings and the like. 3,733,766, 5-22-73, Cl. 52-480.000.

Leclercq, Robert: *See—*
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Leclou, Andre, to Commissariat a l'Energie Atomique. Liquid-cooled nuclear reactor. 3,719,558, 3-6-73, Cl. 176-65.000.

Leco Industries Limited: *See—*
St. Eve, Daniel R.; and Bose, Ajit Kumar, 3,754,067.

Lecoeur, Jacques, to Eclair International. Detachable film magazine for motion picture camera. 3,719,417, 3-6-73, Cl. 352-78.00r.

Lecoeur, Jacques, to Eclair International. Reflex motion picture camera mechanism. 3,736,052, 5-29-73, Cl. 352-166.000.

Lecoeur, Jacques, to Eclair International. Camera film moving mechanism. 3,740,129, 6-19-73, Cl. 352-193.000.

Lecompte, Robert A., to National Starch and Chemical Corporation, mesne. Heat curing adhesive. 3,723,223, 3-27-73, Cl. 156-313.000.

Lecomte, Alexandre, to Regie Nationale des Usines Renault and Automobiles Peugeot. Methods of manufacturing steering wheels. 3,738,885, 6-12-73, Cl. 156-172.000.

Lecomte, Claude M., to Entreprise d'Equipements Mecaniques et Hydrauliques E.M.H. Floating systems, especially mooring buoys, for anchoring to the sea-bed. 3,774,253, 11-27-73, Cl. 9-8.00p.

Lecouffe, Yves Jacques Felix, to Societe des Accumulateurs Fixes et de Traction (Societe Anonyme). Process for the fixing of the relative charging states of the electrodes of an alkaline storage cell. 3,713,889, 1-30-73, Cl. 136-6.000.

Lecourt, Jean Albert, to Saint-Gobain Industries. Flotation process and apparatus for making glass. 3,765,857, 10-16-73, Cl. 65-91.000.



Lecraw, Roy Conway: *See—*
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Lectra Data, Inc.: *See—*
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Lectrasearch Corporation: *See—*
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Lectric Lites Company: *See—*
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Lectro Magnetics Inc.: *See—*
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Lectro Precision Tolls, Inc.: *See—*
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Lectrolarm Custom Systems, Inc.: *See—*
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Lectromelt Corporation: *See—*
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Lectron Corporation: *See—*
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Lectron Industries, Inc.: *See—*
Branz, Weldon K.; Pennington, John C.; and Terpening, Leslie E., 3,738,660.
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Lectron Products Inc.: *See—*
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Lectus AB: *See—*
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Lecuit, Paul; and Demilie, Paul, to Solvay & Cie. Hydromagnesite having a modified morphology and method for the preparation thereof. 3,723,596, 3-27-73, Cl. 423-430.000.

Ledbetter, Harvey D.: *See—*
Beck, Henry N.; Ledbetter, Harvey D.; and Schmitt, John A., 3,769,269.

Ledeen Flow Control Systems, Inc.: *See—*
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Ledeen, Kenneth S.; and Kahn, William M. Multiplexing system. 3,742,148, 6-26-73, Cl. 179-15.0ba.

Leder, Gustav, to USM Corporation. Multipane structure. 3,772,843, 11-20-73, Cl. 52-616.000.

Lederer, George H. Lid inspection means. 3,760,929, 9-25-73, Cl. 198-19.000.

Lederer, Gerald: *See—*
Edgar, Owen Burchell; Hughes, William; Lawrence, Derek R.; Lederer, Gerald; and Ritchie, Colin Foster, 3,709,710.

Lederer, Hans: *See—*
Stroezel, Reinhold; Vogel, Eberhard; Hettich, Alfred; Bartholoma, Karl; Hahner, Reinhard; and Lederer, Hans, 3,747,280.

Lederer, Josef, to Agfa-Gevaert Aktiengesellschaft. Apparatus for guiding the marginal portions of wide and narrow strips of photosensitive material or the like. 3,712,732, 1-23-73, Cl. 355-72.000.

Lederer, Michael: *See—*
Jastrow, Horst; Lederer, Michael; and Heiskel, Elmar, 3,758,425.

Lederer, Milton Ronald, Jr. Alarm system. 3,781,804, 12-25-73, Cl. 340-147.0md.

Ledergerber Alfred; and Plassmeier, Walter, to Werkzeugmaschinenfabrik Gildemeister & Comp. Aktiengesellschaft. Method of controlling a cycle of operations for machining a rotary workpiece. 3,715,938, 2-13-73, Cl. 82-1.00c.

Ledergerber, Alfred; and Jacoby, Hans, to Werkzeugmaschinenfabrik Gildemeister & Comp., Aktiengesellschaft. Method of machining work-pieces on opposite side in a machine tool. 3,762,035, 10-2-73, Cl. 29-558.000.

Lederman, Peter B.: *See—*
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Ledewitz, William; and Twigg, Robert W., to Polytube Inc. Flexible cylinder for collapsible squeeze tube. 3,730,393, 5-1-73, Cl. 222-106.000.

Ledex, Inc.: *See—*
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Summer, William F., 3,753,180.
Williamson, Burch A., 3,737,593.
Yost, Betty Jane, 3,743,987.

Ledford, Adele Kórry. Stringed musical instrument. 3,736,830, 6-5-73, Cl. 84-285.000.

Ledges, George E.: *See—*
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Ledig, Kurt W.: *See—*
Wendt, Gerhard R.; Ledig, Kurt W.; and Oliver, Donald W., 3,721,688.

Ledinsky, Ronald R., to Middougy, W. Vance, & Associates. Lid lifter and drop sleeve mechanism. 3,774,787, 11-27-73, Cl. 214-35.00r.

Ledner, Albert C. Thermal-gravity fluid pumping method and apparatus. 3,765,799, 10-16-73, Cl. 417-53.000.

Lednicer, Oliver: *See—*
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LeDonne, Daniel A., to Plessey Incorporated. Coaxial transmission line RF switch. 3,750,053, 7-31-73, Cl. 333-7.000.

Leduc, Joseph-Adrien; Konrad, Peter; and Troemel, Gerhard, 1/2 to Pullman Incorporated and 1/2 to Farbenfabriken Bayer Aktiengesellschaft. Electrochemical oxidation of olefinic compounds. 3,723,264, 3-27-73, Cl. 204-80.000.

Leduc, Robert D.: *See—*
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Hubert, Helmut; Jung, Anton L.; Lapczyna, Manfred; Ledwon, Erhard; Rock, Wilfried; and Schmidt-Burbach, Gerhard, 3,710,077.

Lee, Alex Y.: *See—*
Gershberg, David N.; and Lee, Alex Y., 3,735,409.

Lee, Alex Y.; and Gershberg, David N., to Mosler Safe Company, The. Differential doppler detection for RF intruder alarm systems. 3,728,721, 4-17-73, Cl. 343-5.0pd.

Lee, Allan Yook Foo, to Northern Electric Company Limited. Hold circuit for multi-line key telephone system. 3,733,442, 5-15-73, Cl. 179-99.000.

Lee, Alwyne. Fluid control valve. 3,776,271, 12-4-73, Cl. 137-595.000.

Lee, Andrew, to Hypaco, Incorporated. Cutoff and routing device. 3,757,838, 9-11-73, Cl. 144-3.00r.

Lee, Arlin E.: *See—*
Ahearn, Thomas P.; Capowski, Robert S.; Christensen, Neal T.; Gannon, Patrick M.; Lee, Arlin E.; and Liptay, John S., 3,781,808.

Lee, Art: *See—*
Finnegan, Cyril Owen; and Lee, Art, 3,728,606.

Lee, Art, to General Electric Company. Housing assembly of modular construction for solid state relays with plurch external terminals. 3,714,515, 1-30-73, Cl. 317-118.000.

Lee, Art, to General Electric Company. Time delay after de-energization circuit. 3,721,832, 3-20-73, Cl. 307-141.000.

Lee, Art, to General Electric Company. Solid state unipole relay. 3,740,587, 6-19-73, Cl. 307-252.00b.

Lee, Arthur: *See—*
Schrack, Frank C.; and Lee, Arthur, 3,776,369.

Lee, Ayleen Ito; and Yoder, Jean Marie. Musical game puzzle. 3,750,524, 8-7-73, Cl. 84-476.000.

Lee, Barry T.; Wimmer, Gunther W.; and Hyatt, Gilbert P. Adaptive illumination source intensity control device. 3,738,242, 6-12-73, Cl. 95-12.000.

Lee, Bert J.: *See—*
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Lee, Billy R. Automated paving machine. 3,743,432, 7-3-73, Cl. 404-84.000.

Lee, Bong Kuk: *See—*
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Lee, Charles A.; and Furbeck, Warren R., to International Paper Company, mesne. Method of and an apparatus for automatically compressing and banding a stack of articles. 3,710,536, 1-16-73, Cl. 53-24.000.

Lee, Charles A.; and Furbeck, Warren R., to International Paper Company, mesne. Method of and apparatus for bias laying with flat mandrel. 3,715,255, 2-6-73, Cl. 156-189.000.

Lee, Charles A., to International Paper Company, mesne. Adhesive application system. 3,718,115, 2-27-73, Cl. 118-203.000.

Lee, Charles A.; and Sorrells, Frank D., to International Paper Company, mesne. Method of removing condensate from a rotary dryer. 3,721,016, 3-20-73, Cl. 34-125.000.

Lee, Charles A., to International Paper Company, mesne. Method of continuously forming a pad of fibrous material. 3,726,734, 4-10-73, Cl. 156-62.200.

Lee, Charles A.; and Sorrells, Frank D., to International Paper Company, mesne. Disposable diaper. 3,729,005, 4-24-73, Cl. 128-287.000.

Lee, Charles A.; and Furbeck, Warren R., to International Paper Company, mesne. Method of making a bias laid ribbon. 3,749,624, 7-31-73, Cl. 156-195.000.

Lee, Charles A., to International Paper Company. Cutting system having improved anvil means. 3,753,380, 8-21-73, Cl. 83-315.000.

Lee, Charles A.; and Granberg, Frederick M., to International Paper Company, mesne. Method for converting plastic-containing broke to fluff. 3,773,613, 11-20-73, Cl. 162-191.000.

Lee, Charles D., Jr., to Parks-Cramer Company. Traveling pneumatic cleaner and method. 3,754,992, 8-28-73, Cl. 134-21.000.

Lee, Charles Dixon, Jr.: *See—*
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Lee, Charleston R.: *See—*
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Lee, Chen-Hsiung; Lominac, Harold R.; Ross, Charles O.; and Wolfe, Bruce A., to International Business Machines Corporation. Fluid droplet printer. 3,769,624, 10-30-73, Cl. 346-1.000.

Lee, Chi-Hang, to General Foods Corporation. Meat-type aromas and their preparation. 3,741,775, 6-26-73, Cl. 99-140.00r.

Lee, Chi-Hang, to General Foods Corporation. Method for producing sugar acetals. 3,751,409, 8-7-73, Cl. 260-210.00r.

Lee, Chune: *See—*
Nixen, David; and Lee, Chune, 3,714,370.

Lee, Clarence M., to Zenith Radio Corporation. Multiple input voltage source power supply. 3,720,868, 3-13-73, Cl. 321-47.000.

Lee, Dae-Woo, to Honeywell Information Systems, Inc. Address marker encoder in three frequency recording. 3,750,121, 7-31-73, Cl. 340-174.160.

Lee, David A.: *See—*
Platus, David L.; Lee, David A.; and Klein, Gernot Harold, 3,735,952.

Lee, David Ernest: *See—*
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Lee, David G. Lock decoder and decoding method. 3,735,496, 5-29-73, Cl. 33-174.00f.

Lee, David M.: *See—*
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Lee, Davis S.: *See—*
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Lee, Ernest O., Jr.: *See—*
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Lee, James Tri, to RCA Corporation. Coupling circuit. 3,755,693, 8-28-73, Cl. 307-237.000.

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Lee, Joseph K. Ignition code override device. 3,755,777, 8-28-73, Cl. 340-64.000.

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Lee, Richard J.; and Harris, Samuel W., to Standard Oil Company. Reaction products of nitro-nitrito alkanes with alkylene polyamines and sulfur; and compositions containing the same. 3,740,387, 6-19-73, Cl. 260-132.000.

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Leeming, Peter Rodway; Cross, Peter Edward; Cox, David Alexander; and Augstein, Joachim, to Pfizer Inc. Alkylphenoxy-alkylamines as gastric anti secretory agents. 3,767,819, 10-23-73, Cl. 424-330.000.

Leenaards, Antoine Joseph, to Crown Cork and Seal Company Inc. Receptacle with an externally threaded neck closed by a crown cork. 3,774,795, 11-27-73, Cl. 215-39.000.

Leenders, Luc: *See*—
De Schrijver, Frans Carolus; and Leenders, Luc, 3,729,405.

Leeney, Timothy John: *See*—
Brown, Edward Douglas; and Leeney, Timothy John, 3,778,461.

Leenhoots, Donald D., to Eastman Kodak Company. Apparatus for cleaning a residual image from a photosensitive member. 3,780,391, 12-25-73, Cl. 15-1.500.

Leenhousts, Albert C., to Superior Electric Company, The. Motor control for a stepping motor. 3,746,958, 7-17-73, Cl. 318-696.000.

Leenhouts, Albert C., to Superior Electric Company, The. Method and apparatus for producing digital contour movement on at least three axes. 3,749,995, 7-31-73, Cl. 318-570.000.





Leenhouts, Albert C., to Superior Electric Company, The. Backlash compensation circuit for numerically controlled stepping motor driven machine. 3,766,461, 10-16-73, Cl. 318-630.000.

Leeper, Charles G. Truss transporting body. 3,724,696, 4-3-73, Cl. 214-512.000.

Leeper, Harold M.: *See*—
Higuchi, Takeru; and Leeper, Harold M., 3,710,795.
Higuchi, Takeru; and Leeper, Harold M., 3,732,865.
Higuchi, Takeru; and Leeper, Harold M., 3,760,804.

Leeper, Harold M.; and Ramwell, Peter W., to ALZA Corporation. Novel device coated with a prostaglandin and preparation thereof. 3,730,835, 5-1-73, Cl. 195-1.700.

Leeper, Harold M., to Alza Corporation. Helical osmotic dispenser with non-planar membrane. 3,760,806, 9-25-73, Cl. 128-260.000.

Leeper, Henry P., Jr., to United Aircraft Corporation. Repair process for aluminum and magnesium articles. 3,711,310, 1-16-73, Cl. 117-2.000.

Lees, J. W., & Company (Brewers) Limited: *See*—
Cole, Samuel Peter, 3,744,537.

Lees, Nathaniel P., to Singer Company, The. Thread-cutting mechanism for sewing machines. 3,710,743, 1-16-73, Cl. 112-252.000.

Lees, Norman G. Curling broom and cover. 3,768,111, 10-30-73, Cl. 15-210.00r.

Leeson, David B., to California Microwave, Inc. Digital tuned microwave oscillator. 3,755,758, 8-28-73, Cl. 331-101.000.

Leeson, Patrick George. Speed changing mechanism. 3,765,253, 10-16-73, Cl. 74-55.000.

Leesona Corporation: *See*—
Allam, James N.; and Bense, William M., 3,733,034.
Barney, John J.; and Flanagan, James L., 3,743,143.
Brouwer, Charles W.; and Nelson, John, 3,774,859.
Cowan, Larry Clyde, 3,779,267.
Cruickshank, David G.; and Tata, Raymond V., 3,757,992.
Erbstein, Robert Stephen, 3,772,524.
Ford, Michael D., 3,751,896.
Franko, John; and Ryan, William J., 3,753,779.
Goodhue, William V.; and Pitts, Thomas E., 3,751,893.
Kilduff, Herbert, 3,747,314.
Nelson, John; and Stoppard, William E., 3,727,852.
Nelson, John, 3,735,576.
Nelson, John; and Pitts, Thomas E., 3,768,241.
Palmer, Nigel I., 3,759,748.
Perrino, Thomas W., 3,767,130.
Richter, Hans H., 3,727,855.
Richter, Hans H., 3,774,384.
Richter, Hans Heinrich, 3,741,491.
Stoppard, William E., 3,708,134.
Swinehart, Robert L., 3,722,807.

Leete, Bernard D.: *See*—
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Leetma, Juri G.: *See*—
Gramm, Herman W.; Gorby, Clifford L.; and Leetma, Juri G., 3,777,286.

Leeuwerik, Cornelis Jan; Huntjens, Johannes Franciscus; and Vrouenraets, Cornelis Martinus Franciscus, to AKZO N.V. Hydrolysis-resistant polyesterurethane threads and preparation thereof. 3,753,953, 8-21-73, Cl. 260-75.0nk.

Leeuwestein, Kurt, to Kocks, Friedrich. Wire manufacture. 3,737,050, 6-5-73, Cl. 214-1.0bd.

Leevers, Jack E., to National Building Industries. Interior marine door and frame. 3,777,693, 12-11-73, Cl. 114-117.000.

Lefcort, Malcolm D.: *See*—
Vermilion, Everette F.; Seeley, Eugene B.; and Lefcort, Malcolm D., 3,711,646.

Lefebvre, Denis. Flame retention head assembly. 3,733,169, 5-15-73, Cl. 431-265.000.

Lefebvre, Gerard, to Produits Chimiques Pechiney-Saint-Gobain, mesne. Binders for mortars. 3,725,335, 4-3-73, Cl. 260-40.00r.

Lefebvre, Henri: *See*—
Marechal, Freddy; and Lefebvre, Henri, 3,780,086.

Lefebvre, Henri, to Solvay & Cie. Process for the treatment of the crude mixture resulting from the preparation of an adiponitrole by dimerization. 3,711,078, 1-16-73, Cl. 260-465.80a.

Lefebvre, Henri; and Van Bost, Jacques. Process for eliminating insoluble residues formed during the production of adiponitrile by dimerization. 3,772,388, 11-13-73, Cl. 260-465.80a.

Lefebvre, Jean Henri: *See*—
Chatourel, Pierre Rene; and Lefebvre, Jean Henri, 3,727,674.

Lefebvre, Michel S. M.; and Hennion, Jean-Claude M. L., to Omnium de Prospective Industrielle. Process for the continuous treatment of threads using shock waves. 3,724,088, 4-3-73, Cl. 34-16.000.

Lefebvre, Simon, to Akzo Belge S.A. Process and apparatus for fluid-liquid contacting. 3,748,828, 7-31-73, Cl. 55-2.000.

Lefebvre, Yvon, to American Home Products Corporation. Derivatives of 2H-pyran-3(6H)-ones. 3,751,434, 8-7-73, Cl. 260-345.900.

Lefeevre, Jean: *See*—
Baldwin, Francis Paul; Sartori, Guido; and Lefeevre, Jean, 3,745,143.

Lefeuvre, Andre: *See*—
Bouthors, Pierre; and Lefeuvre, Andre, 3,741,024.

Lefeuvre, Andre, to Regie Nationale des Usines Renault and Automobiles Peugeot. Frangible shock absorbing bumper. 3,751,089, 8-7-73, Cl. 293-1.000.

LeFeuvre, Thomas, to Thermo Electron Corporation. Throttle valve. 3,727,406, 4-17-73, Cl. 60-108.000.

Lefever, Kenneth W. Transmission of mixed petroleum products through a frozen medium. 3,730,201, 5-1-73, Cl. 137-13.000.

Lefever, Kenneth W., to Valdez-Lefever Arctic Gas and Oil Transportation Corporation. Pipeline contents igniter. 3,734,136, 5-22-73, Cl. 138-103.000.

Lefever, Kenneth W.; and Campbell, Ronald J. Method and apparatus for transporting petroleum products through a frozen medium. 3,756,268, 9-4-73, Cl. 137-340.000.

LeFevre, Cecil W.: *See*—
Strong, Philip L.; Hunter, Don L.; and LeFevre, Cecil W., 3,716,585.

Lefevre, Claude: *See*—
Dolbachian, Raymond; and Lefevre, Claude, 3,769,555.

Lefevre, George; and Angelie, Philippe, to Societe d'Etudes Recherches et Constructions Electroniques (S.E.R.C.E.L.). Sample amplifiers having automatic regulation of the amplification factor by discrete values. 3,742,489, 6-26-73, Cl. 340-347.0ad.

Lefevre, Georges; and Menard, Jean Paul, to Societe d'Etudes Recherches et Constructions Electroniques (S.E.R.C.E.L.). Electronic circuit for predetermining the amplitude of samples of analogue signals. 3,781,694, 12-25-73, Cl. 328-150.000.

Leff, Martin J.: *See*—
Olney, Nathaniel M.; Hurkmans, Antoon M.; Barrett, Edward E.; and Leff, Martin J., 3,758,016.

Lefferdink, Theodore B.: *See*—
Anorga, Carlos J.; Chess, Samuel; and Lefferdink, Theodore B., 3,738,953.

Lefferis, Peter, to Hienemann Electric Company. Temperature control circuits. 3,745,308, 7-10-73, Cl. 219-499.000.

Leffers, Hans Ulrik, to Danfoss A/S. Connecting-rod and method for its manufacture. 3,736,639, 6-5-73, Cl. 29-156.50a.

Leffert, Charles B., to General Motors Corporation. Vapor-cooled internal combustion engine. 3,731,660, 5-8-73, Cl. 123-41.420.

Leffingwell, John Charles, to Reynolds, R. J., Tobacco Company. Process for the preparation of dimetric imines and pyrroles. 3,709,890, 1-9-73, Cl. 260-283.00r.

Leffingwell, John Charles, to Reynolds, R. J., Tobacco Company. Tobacco product. 3,746,010, 7-17-73, Cl. 131-17.00r.

Leffler, Donald E.; and Dempster, William B., to Dayco Corporation. Magnetic printing cylinder. 3,742,852, 7-3-73, Cl. 101-378.000.

Leffler, Edward K.; and Kraft, Kenneth A., to Mohr, John, & Sons. Clip fastener apparatus with magazine feed. 3,748,717, 7-31-73, Cl. 29-211.00d.

Leffler, Nils Gustav, to Sunds Aktiebolag. Apparatus for the washing of preferably cellulosic pulp. 3,729,961, 5-1-73, Cl. 68-181.00r.

Lefforge, John William; and Keller, George Crawford, to Grace, W. R., & Co. Extruded disc gasket for alcoholic beverage bottle caps. 3,779,965, 12-18-73, Cl. 260-28.50b.

Lefkowftz, Elliot J.: *See*—
Klein, Larry; and Lefkowftz, Elliot J., 3,763,621.

Lefkowitz, Issai; Ralph, William J.; Lenton, Donald R.; Nabreski, Benjamin D.; and Fox, David, to United States of America, Army. Means for converting impulse linear acceleration to rotational inertia. 3,732,824, 5-15-73, Cl. 102-78.000.

Lefkowitz, Issai, to Princeton Materials Science, Inc. Display apparatus and chronometer utilizing optically variable liquid. 3,772,874, 11-20-73, Cl. 508-50.00r.

Lefkowitz, Michael: *See*—
Campbell, Robert Riddle; Honnold, George Herbert; and Lefkowitz, Michael, 3,715,518.

Lefort, Marcel: *See*—
Bakassian, Georges; and Lefort, Marcel, 3,755,395.
Bazouin, Andre; and Lefort, Marcel, 3,728,368.

Lefort, Marcel; and Robin, Jean, to Rhone-Poulenc S.A. Polymers with silylurea units which can be converted into polyurea elastomers. 3,711,442, 1-16-73, Cl. 260-75.0nh.

Lefort, Pierre: *See*—
Llop, Helenio; and Lefort, Pierre, 3,737,617.
Llop, Helenio; and Lefort, Pierre, 3,751,168.

Lefrancois, Christian: *See*—
Bronca, Gaston; Lefrancois, Christian: Hlasnik, Ivan; and Pouillange, Jean-Paul, 3,766,502.

Lefrancois, Louis Alfred Auguste. Sewage disposal method. 3,730,883, 5-1-73, Cl. 210-7.000.

Leftheris, Basil P., to Grumman Aerospace Corporation. Method and apparatus for deforming a metal workpiece for upsetting rivets and for blind riveting. 3,731,370, 5-8-73, Cl. 29-509.000.

Legal, Casimer C., Jr., to Grace, W. R., & Co. Purification of waste water. 3,725,265, 4-3-73, Cl. 210-45.000.

Legalprint: *See*—
Cornell, Clark; Himler, Gary J.; and Ahlstrom, John F., 3,735,348.

Legato, Gerard J.: *See*—





Nowak, Frank A.; Micchelli, Albert L.; and Legato, Gerard J.

Nowak, Frank A.; Micchelli, Albert L.; and Legato, Gerard J., 3,726,288.
Legeche, Nikolai Leontievich: *See—*
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Leger, Andre: *See—*
de Lavenne, Hubert; and Leger, Andre, 3,758,911.
Leger, Andre; and Mauron, Gerard, to Automobiles Peugeot and Regie Nationale des Usines Renault. Device simultaneously controlling the locking and release of a plurality of doors. 3,751,950, 8-14-73, Cl. 70-264.000.
Leger, Lucien: *See—*
Plumat, Emile; and Leger, Lucien, 3,755,684.
Leger, Lucien, to Glaverbel S.A. Surface treatment of glass and similar materials. 3,711,263, 1-16-73, Cl. 65-31.000.
Leger, Marc Jean Pierre; Lerouge, Claude Paul Henri; and Regnier, Marc Andre, to International Standard Electric Corporation. Marker circuit for a switching stage equipped with integrated dynamic memory switches. 3,760,361, 9-18-73, Cl. 340-166.00r.
Leger, Roland E. Method and apparatus for transferring electrical energy to high speed apparatus. 3,730,312, 5-1-73, Cl. 191-66.000.
Legg (Industries) Limited: *See—*
Clayton, Dennis Albert; and Foster, George William, 3,761,795.
Foster, George William, 3,746,884.
Legg, Brian C.; and Cowie, Eric G. Tap changing current regulator. 3,743,921, 7-3-73, Cl. 323-4.000.
Legg, James C.: *See—*
Gray, Joe W.; Hartnell, Geoffrey W.; and Legg, James C., 3,761,720.
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Hoeg, Donald F.; Legg, Leo V.; and Tijunelis, Donatas, 3,710,009.
Leggett & Platt, Incorporated: *See—*
Hougland, Oscar, 3,713,181.
Smith, Richard A.; Higgins, Larry; and King, John, 3,725,965.
Leggett, Edward Eric, to Teco Supplies Pty. Ltd. Dispenser having sequentially operated valves. 3,744,683, 7-10-73, Cl. 222-446.000.
Leggingwell, James W.; Thies, Curt; and Werkmeister, Dennis W., to National Cash Register Company, The. Process for etching polymeric films. 3,765,968, 10-16-73, Cl. 156-7.000.
Leghorn, George R. Continuous centrifugal tube casting apparatus using a liquid mold. 3,781,158, 12-25-73, Cl. 425-435.000.
Legille, Edouard; and Mailliet, Pierre, to S.A. des Anciens Etablissements Paul Wurth. Clay guns for blast furnaces. 3,765,663, 10-16-73, Cl. 266-72.000.
Legler, Ernst, to Fernseh GmbH. Variable reactance circuit. 3,717,826, 2-20-73, Cl. 331-117.00r.
Legler, Ernst, to Bosch, Robert, Fernsehanlagen G.m.b.H. Linearly controlled amplifier. 3,737,796, 6-5-73, Cl. 330-29.000.
Legler, Ernst, to Fernseh G.m.b.H. Television signal blanking. 3,739,092, 6-12-73, Cl. 178-7.100.
Legorreta-Sanchez, Gildardo. Method and apparatus for automatically classifying complex, microscopic particles such as human cells. 3,770,349, 11-6-73, Cl. 356-73.000.
Legrand, Donald G.: *See—*
Gaines, George L.; and Legrand, Donald G., 3,715,639.
LeGrand, Jesse S., to International Telephone and Telegraph Corporation. Navigation system utilizing pulse timing. 3,716,857, 2-13-73, Cl. 343-6.8lc.
Legrand, Michel: *See—*
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Legrandgerard, Jean Marcel, to ADAR (Hauts-de-Seine). Valves with replaceable packing. 3,779,271, 12-18-73, Cl. 137-315.000.
Leguijt, Jacob, to Mannesmann (Nederland) N.V. Impervious membrane oil storage system. 3,735,721, 5-29-73, Cl. 114-.50t.
Lehari, Eckmar; and Schwarztrauber, Manfred, to Siemens Aktiengesellschaft. Method of and apparatus for representing measured values on the screen of a video apparatus. 3,725,901, 4-3-73, Cl. 340-324.00a.
Lehberger, Erich: *See—*
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Lehe, Russell B.; and Torbett, Richard L., to Norandex, Inc. Slatted flooring connector system. 3,742,911, 7-3-73, Cl. 119-28.000.
Lehe, Russell B., to Norandex, Inc. Slatted flooring connector system. 3,757,743, 9-11-73, Cl. 119-28.000.
Leheny, Robert Francis; and Shaklee, Kerry Lee, to Bell Telephone Laboratories, Incorporated. Method of determining the presence of stimulated emission or of measuring the net gain in materials for lasers. 3,719,423, 3-6-73, Cl. 356-36.000.
Leheny, Robert Francis; Logan, Ralph Andre; Nahory, Robert Edward; and Shaklee, Kerry Lee, to Bell Telephone Laboratories, Incorporated. Lasers in indirect-bandgap semiconductive crystals doped with isoelectronic traps. 3,761,837, 9-25-73, Cl. 331-94.50h.
Lehman, Donald Gregory, to Inmont Corporation. Lacquer emulsion composition for lithographic plates. 3,759,850, 9-18-73, Cl. 260-17.4st.
Lehman, Ivan L., to International Equipment Company. Flexible shaft stabilizer. 3,779,451, 12-18-73, Cl. 233-23.00a.
Lehman, Jaime: *See—*
Napor, Carl A.; Lehman, Jaime; and Milana, Anthony A., 3,761,806.
Lehman, Walter R. Ground effect vehicle with integrated forward thrust means. 3,718,203, 2-27-73, Cl. 180-120.000.
Lehman, William F.: *See—*
Ng, Wahling H.; Lehman, William F.; and Young, John P., 3,715,231.
Lehmann, Aribert J. Device for tying the ends of bags. 3,729,896, 5-1-73, Cl. 53-198.00a.
Lehmann, Claude: *See—*
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Lehmann, Claude; and Renk, Ernest, to Ciba-Geigy Corporation. Certain furazan derivatives in therapeutic compositions and methods. 3,711,609, 1-16-73, Cl. 424-272.000.
Lehmann, Frank-Dieter: *See—*
Bornfleth, Ulrich; Selonke, Fritz; Koehn, Jurgen; and Lehmann, Frank-Dieter, 3,726,383.
Lehmann, Frank-Dieter, to Hauni-Werke Korber & Co., KG. Apparatus for separating selected cigarettes or analogous rod-shaped articles from a series of rapidly moving equidistant articles. 3,720,310, 3-13-73, Cl. 209-74.000.
Lehmann, Gunter; Neunhoeffer, Otto; Roselius, Wilhelm; and Vitzthum, Otto, to HAG Aktiengesellschaft. Treatment of polyamide granules with formic acid. 3,749,698, 7-31-73, Cl. 260-78.00s.
Lehmann, Hans-Gunter; and Zollner, Georg, to Schering A.G. 14,15-Beta-epoxycardenolides. 3,738,984, 6-12-73, Cl. 260-239.570.
Lehmann, Hans-Jurgen: *See—*
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Lehmann, Helmut: *See—*
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Lehmann, Herbert G. Method and apparatus for more slowly telecasting live sports events instantly as they take place. 3,726,995, 4-10-73, Cl. 178-6.60a.
Lehmann, Horst; and Curts, Julius, to Beiersdorf Aktiengesellschaft. Process for the preparation of self-adhesive tapes and foils. 3,729,338, 4-24-73, Cl. 117-122.00p.
Lehmann, Joachim: *See—*
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Lehmann, Kenneth G., to Norco, Inc. Eccentric-actuated hook-type fastening device. 3,712,653, 1-23-73, Cl. 287-20.924.
Lehmann, Kenneth G. Anti-friction bearing assemblage with centrifugal film lubrication on cage surfaces. 3,753,605, 8-21-73, Cl. 308-187.000.
Lehmann, Klaus; and Conte, Apollonio, to Rohm GmbH. Resin-bound, protein-like active agents prepared by reacting a protein with a water insoluble polymer of acrylic or methacrylic acid anhydride. 3,764,477, 10-9-73, Cl. 195-63.000.
Lehmann, Klaus; and Pennewiss, Horst, to Rohm G.m.b.H. Copolymer coatings for pharmaceuticals. 3,775,537, 11-27-73, Cl. 424-21.000.
Lehmann, Roger, to Compagnie Generale d'Automatisme. System, method and apparatus for locating movable objects on a fixed path. 3,757,112, 9-4-73, Cl. 246-122.00r.
Lehmann, Walter, to Mirabed A.G. Apparatus for making molded articles from foamed synthetic material. 3,771,770, 11-13-73, Cl. 259-7.000.
Lehmann, Werner: *See—*
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Lehment, Klaus-Friedrich: *See—*
Kuhlthau, Hans-Peter; and Lehment, Klaus-Friedrich, 3,759,902.
Lehment, Klaus-Friedrich; and Raue, Roderich, to Farbenfabriken Bayer Aktiengesellschaft. Process for the quaternization of basic dyestuffs. 3,718,642, 2-27-73, Cl. 260-165.000.



Lehment, Klaus-Friedrich; Schmitt, Ernst; and Raue, Roderich, to Bayer Aktiengesellschaft. Hydrazone dyestuffs. 3,773,764, 11-20-73, Cl. 260-240.00g.
Lehmkuhl, Herbert: *See—*
Ziegler, Karl; and Lehmkuhl, Herbert, 3,775,270.
Lehmkuhl, Herbert, to Studiengesellschaft Kohle mbH. Electrochemical production of transition metal organometallic complexes. 3,773,632, 11-20-73, Cl. 204-59.0qm.
Lehmkuhl, Robert A., to Carlton Machine Tool Company, The. Spindle depth control. 3,723,016, 3-27-73, Cl. 408-3.000.
Lehmler, Hansfriedrich: *See—*
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Lehneis, Hans Richard, to New York University. Serrated resilient joint orthotic device. 3,732,861, 5-15-73, Cl. 128-80.00e.
Lehner, Francis E.; and Miller, Wayne F., to California Institute of Technology. Remotely operated seismometer. 3,713,088, 1-23-73, Cl. 340-17.000.
Lehner, Harry, to Stoba AG. Suspension shield. 3,721,028, 3-20-73, Cl. 40-22.000.
Lehner, Heinz: *See—*
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Lehner, Karl, to Vickers-Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen. Process and apparatus for the continuous production of synthetic threads. 3,720,382, 3-13-73, Cl. 242-35.50r.
Lehner, William L.: *See—*
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Dohmann, Fritz; Gulden, Karl; and Lehner, Willy, 3,731,516.
Lehnert, Bo Peter. Device for causing particles to move along curved paths. 3,722,677, 3-27-73, Cl. 209-144.000.
Lehnert, Gunter, to General Motors Corporation. Rheostats. 3,764,953, 10-9-73, Cl. 338-145.000.
Lehnert, Gunther, to Hackethal Draht- und Kabil-Werke Aktiengesellschaft. Coilable waveguide. 3,772,772, 11-20-73, Cl. 29-600.000.
Lehnhoff, Richard N., to General Motors Corporation. Generator field coil energizing reversing circuit. 3,713,016, 1-23-73, Cl. 322-28.000.
Lehoux, Ronald: *See—*
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Fedotowsky, Andre; and Lehovec, Kurt, 3,728,009.
Fedotowsky, Andre; and Lehovec, Kurt, 3,763,372.
Lehovec, Kurt. Arrays of electro-optical elements and associated electric circuitry. 3,748,479, 7-24-73, Cl. 250-208.000.
Lehr, Sheila Berkley, to Sheila Berkley, Inc. Playground equipment. 3,756,593, 9-4-73, Cl. 272-60.000.
Lehrer, Ronald G.: *See—*
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Lehrer, Stanley; Robertson, Raymond A.; and Holme, John C., to Electro-Optics Devices Corporation. Automated optical comparator. 3,737,856, 6-5-73, Cl. 340-146.30q.
Lehrheuer, Werner; and Lison, Rudolf, to Kernforschungsanlage Julich Gesellschaft mit beschrankter Haftung. Method of joining metals of different melting points. 3,766,633, 10-23-73, Cl. 29-470.500.
Lehuen, Christian: *See—*
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Lehuen, Christian; and Gillet, Roger, to Societe Generale de Constructions Electriques et Mecaniques (Alsthom). Rotor winding for electrical machines with grooved conductors. 3,778,649, 12-11-73, Cl. 310-61.000.
Lehuen, Christian; and Gillet, Roger, to Societe Generale de Constructions Electriques et Mecaniques (Alsthom). Internal arrangement of rotor slots of electric machines. 3,781,581, 12-25-73, Cl. 310-215.000.
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Leibensperger, Robert Lee; and Norris, Glen Ray, to Timken Company, The. Bearing construction with preload compensation. 3,716,280, 2-13-73, Cl. 308-207.00a.
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Leiber, Heinz, to Teldix GmbH. Hydraulic brake system with anti-locking control. 3,767,272, 10-23-73, Cl. 303-21.0af.
Leiber, Heinz; and Rodi, Anton, to Teldix GmbH. Accelerometer. 3,772,567, 11-13-73, Cl. 317-5.000.
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Leiboff, Teague N.; and Powers, Joseph W., Jr., to Northrop Corporation. Digital system for band width reduction of video signals. 3,739,083, 6-12-73, Cl. 178-6.000.
Leibovich, Grigory Abramovich: *See—*
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Leibowitz, Lawrence M., to United States of America, Navy. Pulse width coded signal detector. 3,735,271, 5-22-73, Cl. 328-112.000.
Leibowitz, Lawrence M., to United States of America, Navy. Self synchronous serial encoder/decoder. 3,765,013, 10-9-73, Cl. 340-347.0dd.
Leibowitz, Marshall, to Olivetti, Ing., C., & C., S.p.A. Liquid crystal display. 3,753,609, 8-21-73, Cl. 350-160.20c.
Leibowitz, Marshall, to Olivetti, Ing., C., & C., S.p.A. Liquid crystal display. 3,781,085, 12-25-73, Cl. 350-150.000.
Leibundgut, James A., to Applied Power Industries, Inc. Vibrator apparatus. 3,736,843, 6-5-73, Cl. 91-234.000.
Leich, Robert A., to Camdex Inc. Primer metering apparatus for ammunition loading machines. 3,714,860, 2-6-73, Cl. 86-23.000.
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Leichliter, Wayne K., to Eaton Corporation. Viscous coupling having an improved coolant system. 3,749,214, 7-31-73, Cl. 192-58.00b.
Leidich, Arthur John; and Malchow, Max Edward, to RCA Corporation. High frequency power transistor support. 3,710,202, 1-9-73, Cl. 317-234.00r.
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Leidy, Harold T.; Kerrigan, Charles M.; and Byble, Duane C., to General Foods Corporation. Freeze-thaw cycle for juicy sausage analog. 3,713,837, 1-30-73, Cl. 99-17.000.
Leidy, Harold T.; Kerrigan, Charles M.; Tewey, Robert T.; and Bartenbach, Louis, to General Foods Corporation. Sausage analog process. 3,719,498, 3-6-73, Cl. 99-17.000.

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Takritti, Nassir; Quoos, Kurt; Leifeld, Ferdinand; and Appenzeller, Valentin, 3,726,640.
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Leifheit, Gunter, to Leifheit International Gunter Leifheit KG. Cleaning apparatus. 3,750,223, 8-7-73, Cl. 15-50.00c.
Leifheit, Gunter, to Leifheit International Gunter Leifheit KG. Cleaning device for producing and applying a cleansing foam. 3,761,985, 10-2-73, Cl. 15-50.00c.
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Leighty, Allen J. Portable anchor unit. 3,754,525, 8-28-73, Cl. 114-206.000.
Leighty, Clifford A.; Sliwkowski, Joseph J.; and Sullivan, Bernard J., to Bausch & Lomb Incorporated. Apparatus for locating a variable optical focal point. 3,715,166, 2-6-73, Cl. 356-125.000.
Leijon, Tage Nils Wihelm. Hydraulic driving system. 3,744,373, 7-10-73, Cl. 91-178.000.
Leimbach, John George, to Sporlan Valve Company. Thermostatic expansion valve for refrigeration systems. 3,742,722, 7-3-73, Cl. 62-225.000.
Leimbach, Richard C., to Eaton Corporation. Tiltable aerosol dispensing. 3,749,360, 7-31-73, Cl. 254-348.000.
Leimbach, Wendell B.; Marshall, James W.; and Abbratozzato, Salvatore R., to Black and Decker Manufacturing Company, The. Field sub-assembly for universal electric motors. 3,725,707, 4-3-73, Cl. 310-71.000.
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Leimgruber, Willy; and Weigele, Manfred, to Hoffmann-La Roche Inc. Process for the preparation of aminomethylene malononitrile. 3,742,015, 6-26-73, Cl. 260-465.50r.
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Leinfelt, Karl Eric, to Aktiebolaget Electrolux. Self-sealing end closure for disposable dust bag. 3,724,179, 4-3-73, Cl. 55-367.000.
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Leinoff, David. Composite fur pelt and method of making same and fur coat. 3,760,424, 9-25-73, Cl. 2-65.000.
Leinonen, Aarno Olavi; and Riekkinen, Asko Sakari. Wire catching device for a continuous wire spooler. 3,761,030, 9-25-73, Cl. 242-25.00a.
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Leis, Michael D.; and Gray, Robert C., to Digital Equipment Corporation. Control circuit for a tape reader. 3,743,839, 7-3-73, Cl. 260-219.00d.
Leisenberg, Manfred. Conveying- and drying-apparatus for ceramic members. 3,777,407, 12-11-73, Cl. 34-105.000.
Leiser, Leo; and Darcy, Emile A., to Columbia Broadcasting System, Inc. Selective excitation of a gaseous region. 3,774,063, 11-20-72, Cl. 313-73.000.
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Leissner, Paul H.; and Janson, Karl A., to Rain Bird Sprinkler Mfg. Corporation. Deflector spoon for rotary sprinklers. 3,726,479, 4-10-73, Cl. 239-233.000.
Leister, Heinrich; and Wolf, Karl-Heinz, to Farbenfabriken Bayer Aktiengesellschaft. Phthalocyanine organic pigments. 3,729,330, 4-24-73, Cl. 106-288.00q.
Leistner, Rudolf; Roth, Johann; and Renndorfer, Alfred, to Niezoldi & Kramer GmbH. Motion picture camera. 3,724,936, 4-3-73, Cl. 352-91.000.
Leistner, Rudolf, to Braun Aktiengesellschaft. Camera with automatically operating exposure means. 3,738,244, 6-12-73, Cl. 95-31.0fs.
Leistner, Walter Hermann. Method of forming a nailing strip by applying a hot melt liquid plastic. 3,736,198, 5-29-73, Cl. 156-65.000.
Leistner, Werner, to Siemens Aktiengesellschaft. Electric salient-pole machine. 3,778,647, 12-11-73, Cl. 310-54.000.
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Leitl, Lorraine M., 25% to Leitl, Kenneth G. and 25% to Leitl, Jimmy M. Pull-down mirror. 3,740,123, 6-19-73, Cl. 350-305.000.
Leitnaker, James M.; and Spear, Karl E., II, to United States of America, Atomic Energy Commission. Stabilized uranium or uranium-plutonium nitride fuel. 3,708,433, 1-2-73, Cl. 252-301.10r.
Leitnaker, James M.; and Spear, Karl E., II, to United States of America, Atomic Energy Commission. Stabilized uranium or uranium-plutonium nitride fuel. 3,746,616, 7-17-73, Cl. 176-67.000.
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Leitz, Ludwig; Heitmann, Knut; and Schneider, Eckart, to Leitz, Ernst, G.m.b.H. Optical range finding system. 3,781,110, 12-25-73, Cl. 356-4.000.
Leitzer, Edward K., to Eastman Kodak Company. Color printer. 3,756,718, 9-4-73, Cl. 355-32.000.
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Lejeune, Daniel, to Compagnie Generale des Etablissements Michelin raison sociale Michelin & Cie. Mounting of very large tires. 3,779,301, 12-18-73, Cl. 157-1.170.
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Leloux, Arnoldus Willem, to Industriele Onderneming Wavin N.V. Device for removing two thin layers situated on each other. 3,755,049, 8-28-73, Cl. 156-584.000.
Lely, Cornelis Van Der. Spreading implements. 3,767,126, 10-23-73, Cl. 239-661.000.
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Lemanchec, Francis. Guide strip and nail combination. 3,731,723, 5-8-73, Cl. 145-129.000.
Lemanski, Chester G., to Mobil Oil Corporation. Thiadiazole hydrazones as fungicides. 3,714,358, 1-30-73, Cl. 424-270.000.
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Lemelson, Jerome H. Document scanning apparatus and method. 3,710,078, 1-9-73, Cl. 235-61.11e.
Lemelson, Jerome H. Information system. 3,712,956, 1-23-73, Cl. 178-6.60a.
Lemelson, Jerome H. Reflex reflective sheeting. 3,716,445, 2-13-73, Cl. 161-2.000.
Lemelson, Jerome H. Flying model airplane. 3,724,123, 4-3-73, Cl. 46-78.000.
Lemelson, Jerome H. Code scanning system. 3,735,350, 5-22-73, Cl. 340-146.3sy.
Lemelson, Jerome H. Method of making a ducted sheet assembly and composite article. 3,743,493, 7-3-73, Cl. 65-54.000.
Lemelson, Jerome H., to Triax Company, The. Load handling mechanism and automatic storage system. 3,750,804, 8-7-73, Cl. 214-16.40a.
Lemelson, Jerome H. Communication system. 3,751,583, 8-7-73, Cl. 178-6.000.
Lemelson, Jerome H.; and Nutting, William. Activity doll. 3,758,982, 9-18-73, Cl. 46-119.000.

Lemelson, Jerome H. Molded container with internal support means. 3,774,812, 11-27-73, Cl. 222-211.000.
Lemelson, Jerome H. Apparatus for working moldable material. 3,774,890, 11-27-73, Cl. 259-185.000.
Lemelson, Jerome H. Container and retaining means. 3,776,372, 12-4-73, Cl. 206-7.00h.
Lemelson, Jerome H. Game apparatus. 3,776,552, 12-4-73, Cl. 273-130.00r.
Lemelson, Jerome H. Welding apparatus. 3,779,446, 12-18-73, Cl. 228-15.000.
Lemery, Douglas J. Saw chain. 3,745,870, 7-17-73, Cl. 83-833.000.
Lemery, Jean-Paul, to Carpano & Pons. Fishing reel. 3,718,291, 2-27-73, Cl. 242-219.000.
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Lemieux, Raymond Urgel; and Chin, Clinton Gordon, to R & L Molecular Research Ltd. 7-[O-,M-and P-(2'-amino-ethoxy) phenylacetamide]-3-(substituted methyl)-ceph-3-em-4-carbohydrates. 3,759,905, 9-18-73, Cl. 260-243.00c.
Lemieux, Raymond Urgel; and Raap, Rintoe, to R & L Molecular Research Ltd. Certain 7-(o-aminomethyl-phenylacetamido) -3-[heterocyclylthio)methyl]ceph-3-em-4-carboxylic acids. 3,766,175, 10-16-73, Cl. 260-243.00c.
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Lemieux, Robert W.: *See—*
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Lemieux, William L. Bullet casting machine. 3,709,288, 1-9-73, Cl. 164-325.000.
Lemin, Alan J.; Steinhards, Arnolds; and Swank, George, to Upjohn Company, The. Herbicidal method and compositions comprising diphenamid and 2,4-D. 3,776,716, 12-4-73, Cl. 71-117.000.
Lemke, Charles H., to Du Pont de Nemours, E. I., and Company. Process for safely reacting active metals. 3,729,548, 4-24-73, Cl. 423-371.000.
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Lemmens, Alphonse A. A., to Societe Hamon Sobelco S.A. Cooling tower. 3,751,017, 8-7-73, Cl. 261-111.000.
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Lemoine, Marcel, to General Motors Corporation. Refrigerator door liners. 3,709,576, 1-9-73, Cl. 312-138.00a.
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Lemonds, Gary J.; and Hanson, Ivor G., to Creative Metals Inc. Explosive bonding device. 3,726,460, 4-10-73, Cl. 228-3.000.
Lemons, Carl Robert, to McDonnell Douglas Corporation. Fabrication of three-dimensional reinforced insulation blocks. 3,778,492, 12-11-73, Cl. 264-45.000.
Lemons, Thomas M.; and Neenan, Charles, to Metropolitan Life Insurance Co. Sky projector. 3,762,083, 10-2-73, Cl. 40-130.00b.
Lemont, Harold E., to Fairchild Industries, Inc. Reverse velocity rotor and rotorcraft. 3,729,272, 4-24-73, Cl. 416-114.000.
Lemor, Pierre C., to SKF Industrial Trading and Development Company N.V. Adjustable screw and nut device. 3,726,151, 4-10-73, Cl. 74-424.80a.
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Lender, Adam, to GTE Automatic Electric Laboratories Incorporated. Digital method of generating a continuous phase FSK linesignal in response to an asynchronous binary input signal. 3,746,787, 7-17-73, Cl. 178-6.00a.
Lender, Adam, to GTE Automatic Electric Laboratories, Incorporated. Data transmission employing correlative nonbinary coding where the number of bits per digit is not an integer. 3,750,021, 7-31-73, Cl. 325-38.00a.
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Leneveu, Louis; and Desmeserets, Frank Pierre Antoine Villey, to Etat Francais represente par le Ministre d'Etat Charge de la Defense Nationale-Delegation Ministrevielle pour l'Armement-Direction des Poudres. $NH_4NO_3$-nitrocellulose coated with nitrocellulose and $A_1$. 3,753,810, 8-21-73, Cl. 149-8.000.



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Lengnick, Guenther Fritz, to Stauffer-Wacker Silicone Corporation. Room temperature curable organopolysiloxanes. 3,719,632, 3-6-73, Cl. 260-46.50g.
Lengnick, Guenther Fritz; and Martin, Eugene Ray, to Stauffer Chemical Company, mesne. Curable organopolysiloxanes. 3,770,847, 11-6-73, Cl. 260-827.000.
Lengsfeld, Karl. Electric-motor with built-in electromagnetic disk clutch and brake. 3,750,781, 8-7-73, Cl. 192-18.00b.
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Lentz, Robert C.; and Turley, Royal K., to International Business Machines Corporation. Document card transport mechanism. 3,773,162, 11-20-73, Cl. 197-127.00r.
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Lenz, George R.; and Pappo, Raphael, to Searle, G. D., & Co. Hydrolysis of 3-oximino-delta 5(10) steroids. 3,751,438, 8-7-73, Cl. 260-397.400.
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Lenz, Henry George, to General Electric Company. Dynamoelectric machine having enhanced cooling. 3,749,950, 7-31-73, Cl. 310-45.000.
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Lenzkes, Herbert H., to General Dynamics Corporation. Electronic system for the stimulation of biological systems. 3,727,616, 4-17-73, Cl. 128-422.000.
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Leon, Henry. Band safety lock for watch bands and the like. 3,711,906, 1-23-73, Cl. 24-265.0ws.
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Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,391, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,392, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,393, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,394, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,395, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,396, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,397, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,398, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,399, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,400, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,401, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,402, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,403, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,404, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,405, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,406, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,407, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,408, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,409, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,410, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,411, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,412, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,413, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,414, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,415, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,416, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,417, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,418, 7-24-73, Cl. 62-256.000.
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Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,421, 7-24-73, Cl. 62-256.000.
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Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,423, 7-24-73, Cl. 62-256.000.
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Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,426, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,427, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,428, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,429, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,430, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,431, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,432, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,433, 7-24-73, Cl. 62-256.000.
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Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,435, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,436, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,437, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,438, 7-24-73, Cl. 62-256.000.
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Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,440, 7-24-73, Cl. 62-256.000.
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Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,453, 7-24-73, Cl. 62-256.000.
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Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,463, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,464, 7-24-73, Cl. 62-256.000.
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Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,467, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,468, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,469, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,470, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,471, 7-24-73, Cl. 62-256.000.
Leonard, Jack E., to Leonard Refrigeration Company. Refrigerated display case. 3,747,472, 7-24-73, Cl.

Leonard, Gordon Harris; Sobecki, Zygmunt; and Lomas, Peter Robert, to C.A.V. Limited. Vehicle battery charging systems. 3,723,817, 327-73, Cl. 317-31.000.
Leonard, Gordon Harris, to C.A.V. Limited. Control device for use with a fuel injection pump. 3,774,467, 11-27-73, Cl. 74-469.000.
Leonard, Henry K.: *See—*
Gach, Peter P.; and Leonard, Henry K., 3,770,153.
Leonard, James H.; and Quick, Richard C., to Square D Company. Key operated electric circuit breaker. 3,714,383, 1-30-73, Cl. 200-44.000.
Leonard, James H., to Square D Company. Electrical contact assembly. 3,723,940, 3-27-73, Cl. 339-64.00m.
Leonard, Jerome A.: *See—*
Purcell, Jack A., Jr.; Leonard, Jerome A.; and Juratovic, John S., 3,741,429.
Leonard, John P., to United States of America, Army. Tridirectional actuator. 3,726,496, 4-10-73, Cl. 244-3.220.
Leonard, Kenneth R., to Cryogenic Engineering Company. Low-loss closed-loop supply system for transferring liquified gas from a large container to a small container. 3,710,584, 1-16-73, Cl. 62-54.000.
Leonard, Loren W. Measuring and servicing the drilling fluid in a well. 3,729,986, 5-1-73, Cl. 73-155.000.
Leonard, Louis H., Jr., to Carrier Corporation. Rotary pump for heating and cooling system. 3,734,636, 5-22-73, Cl. 415-88.000.
Leonard, Louis H., Jr., to Carrier Corporation. Magnetically driven pump for absorption refrigeration system. 3,734,651, 5-22-73, Cl. 417-420.000.
Leonard, Louis H., Jr., to Carrier Corporation. Absorption refrigeration system. 3,745,780, 7-17-73, Cl. 62-141.000.
Leonard, Merrill G., to Westinghouse Electric Corporation. Quick make and break plug-in connector for a high voltage and high current circuit. 3,713,077, 1-23-73, Cl. 339-111.000.
Leonard, Morton J., Jr.: *See—*
Lynah, Francis P., Jr.; and Leonard, Morton J., Jr., 3,744,187.
Leonard, Paul L., to TRW Inc. Operational amplifier. 3,760,288, 9-18-73, Cl. 330-30.00d.
Leonard, Richard J.: *See—*
Balling, Theodore Thomas; Leonard, Richard J.; Ponzoni, George Bernard; Protomastro, Michael Gabriel; and Stefanucci, Arthur, 3,715,215.
Leonard, Richard L.: *See—*
Carey, Donald F.; Leonard, Richard L.; and Orofino, Thomas A., 3,760,949.
Horres, Charles Russell, Jr.; and Leonard, Richard L., 3,730,959.
Leonard, Richard L.; and Carey, Donald F., to United States of America, Interior, mesne. Fiber bundle assembly. 3,734,989, 5-22-73, Cl. 264-135.000.
Leonard, Richard Lloyd; and Bashaw, John Darrell. Asymmetric hollow fiber membranes and method of fabrication. 3,724,672, 4-3-73, Cl. 210-500.000.
Leonard, Robert M.: *See—*
Swanke, Roy L.; and Leonard, Robert M., 3,768,152.
Leonard, Ronald J., to Baxter Laboratories, Inc. Envelope oxygenator for blood having inflatable portions and process of using same. 3,729,377, 4-24-73, Cl. 195-1.800.
Leonard, Ronald James, to Baxter Laboratories, Inc. Multi-layer membrane type mass transfer device and process. 3,757,955, 9-11-73, Cl. 210-321.000.
Leonard, Silvester C., to Phillips Petroleum Company. Output control for steam heated heat exchanger. 3,766,713, 10-23-73, Cl. 55-21.000.
Leonard, Stephen C., to General Electric Company. Testing apparatus having improved means for measuring permeability and specific loss in a moving strip of metal. 3,723,859, 3-27-73, Cl. 324-34.00r.
Leonard, Stephen C.; and Dilick, Maurice D., to General Electric Company. Testing apparatus having improved means for maintaining a constant density of magnetic flux induced in a moving strip of metal. 3,725,778, 4-3-73, Cl. 324-34.00r.
Leonard, Verna M. Holder and guide for writing and reading music. 3,728,462, 4-17-73, Cl. 84-471.000.
Leonard, Verna M. Scale intervalometer. 3,728,931, 4-24-73, Cl. 84-471.000.
Leonard, Verna M. Quick finder for chords. 3,728,932, 4-24-73, Cl. 84-473.000.
Leonard, Verna M. Scale fingering sliderule. 3,733,956, 5-22-73, Cl. 84-471.000.
Leonard, Verna M. Rhythm practice console. 3,771,407, 11-13-73, Cl. 84-484.000.
Leonard, Wilbur Valentine, to Bell Bryant Pty. Ltd. Apparatus for use in processing curd in the manufacture of cheese. 3,772,786, 11-20-73, Cl. 99-456.000.
Leonard, William J., Jr.; and Holler, Howard V., to Shell Oil Company. Process for preparing a supported catalyst. 3,758,418, 9-11-73, Cl. 252-464.000.
Leonard, William J., Jr., to Shell Oil Company. Metal-polymer matrices and their preparation. 3,775,352, 11-27-73, Cl. 260-2.50b.
Leonard, William J., Jr., to Shell Oil Company. Metal-containing polymers. 3,779,952, 12-18-73, Cl. 260-2.50r.
Leonardi, Samuel S. Device for raising sunken ships and other objects. 3,722,448, 3-27-73, Cl. 114-55.000.
Leone, Louis William; Morange, Theodore Adam; Reilly, Donald Francis; and Schram, Paul James, to International Business Machines Corporation. Ungated FET method for measuring integrated circuit passivation film charge density. 3,750,018, 7-31-73, Cl. 324-18.00t.
Leonhard, Fritz: *See—*
Andra, Wolfhart; Beyer, Erwin; Leonhard, Fritz; Thul, Heribert; and Winter-Gerst, Louis, 3,728,752.
Leonhardt, Joseph H., Jr.; Lunsford, Jack I., Jr.; Sharpe, Bynum B.; and Templin, Charles T., to Western Electric Company, Incorporated. Digital rack wiring station. 3,711,926, 1-23-73, Cl. 29-203.00b.
Leonhardt, William O., to Crook, Dale E. Hydraulically expanded hand tool for rescue purposes. 3,762,688, 10-2-73, Cl. 254-93.00r.
Leonhart, Charles J.; and Larsen, Johnny, to Nuarc Company, The. Photographic developing sink. 3,732,798, 5-15-73, Cl. 95-89.000.
Leonhart, Charles J.; and Lewandowski, Edward W., to Nuarc Company, The. Copy camera. 3,765,761, 10-16-73, Cl. 355-62.000.
Leonhauser, Senta: *See—*
Bircher, Johannes; Weidenhagen, Rudolf; Mainz, Uber; Reinicke, Hans; Leonhauser, Senta; and Bauer, Ingeborg, 3,772,433.
Leoni, Aldo: *See—*
Lampredi, Aurelio; Leoni, Aldo; Ghilardi, Francesco; Degiorgis, Francesco; and Joli, Luigi, 3,728,990.
Leoni, Primo; and Cattini, Isabella, to Nuova L.A.P.I. Pneumatic screwdriver. 3,741,314, 6-26-73, Cl. 173-93.600.
Leoni, Primo, to Nuova L.A.P.I. Pneumatic screw-drivers. 3,768,577, 10-30-73, Cl. 173-93.000.
Leonov, Gennady Mikhailovich: *See—*
Krikorov, Vadim Sergeevich; Krasov, Vladimir Grigorievich; Sukhodaev, Boris Alexandrovich; Kokin, Vitaly Kazimirovich; Zhelninsky, Valentin Danilovich; Sukhanov, Nikolai Mefodievich; Leonov, Gennady Mikhailovich; Likholetov, Nikolai Ivanovich; Kovalev, Igo Tikhonovich; Gusev, Vladimir Vladimirovich; and Medvedev, Andrei Petrovich, 3,728,436.
Leontaritis, Lambis; Schon, Nikolaus; and Hoffmann, Hans, to Farbenfabriken Bayer Aktiengesellschaft. Pretreatment of metal surfaces. 3,723,162, 3-27-73, Cl. 117-71.00m.
Leontiev, Alexandr Semenovich: *See—*
Minachev, Khabib Minachevich; Mortikov, Evgeny Sergeevich; Leontiev, Alexandr Semenovich; Masloboev-Shvedov, Alexei Alexeevich; and Kononov, Nikolai Fedorovich, 3,764,563.
Leopiktie, Stephanus F.; and Flier, Ronald Jacob, to Ralston Purina Company. Process of making a textured, expanded food product. 3,759,715, 9-18-73, Cl. 426-351.000.
Leopold, Karl M.: *See—*
Karabinos, Joseph V.; Leopold, Karl M.; and Doherty, William P., 3,709,867.
Leopold, Wilbur R.; Hackman, Frank C.; Floren, Carl E.; and Gould, Wallace E., to Mueller Co. Method of making a coupling joint. 3,715,800, 2-13-73, Cl. 29-506.000.
Leopold, Wilbur R.; Hackman, Frank C.; Floren, Carl E.; and Gould, Wallace E., to Mueller Co. Tool for making service pipe coupling joint. 3,723,043, 3-27-73, Cl. 425-393.000.
Leopold, Wilbur R.; and Smith, John J.; deceased (by Smith, Beatrice A., executor), to Mueller Co. Gas meter setting or the like. 3,746,371, 7-17-73, Cl. 285-30.000.
Leopold, Wilbur R., Jr.; Smith, John J.; Hackman, Frank C.; Luckenbill, Lawrence F.; and Daghe, Joseph L. Gate valve structure. 3,763,880, 10-9-73, Cl. 137-316.000.
Leopoldi, Norbert; and Rolin, Kenneth C., Sr. Umbrella. 3,709,238, 1-9-73, Cl. 135-20.00r.
Leopoldi, Norbert. Steel measuring tape holder. 3,774,309, 11-27-73, Cl. 33-138.000.
Lepage, Marc D. Drying device. 3,711,958, 1-23-73, Cl. 34-88.000.
Lepar, Edwin. Equipment for rectally administering enemas. 3,765,413, 10-16-73, Cl. 128-245.000.
Leparskas, Romas, to Borg-Warner Corporation. Flow control valve. 3,768,522, 10-30-73, Cl. 138-40.000.
Lepelletier, Pierre Andre Georges, to Societe Anonyme Francaise du Ferodo. Hydraulic system for controlling the changing of gear ratios in automotive vehicle transmissions. 3,748,930, 7-31-73, Cl. 74-864.000.
Lepere, Louis Jules. Enamel to be applied on natural or artificial teeth. 3,770,473, 11-6-73, Cl. 106-220.000.
Lepinay, Gerard: *See—*
Heiniger, Wilfred; and Lepinay, Gerard, 3,781,098.
Lepine, Rene. Rotary internal combustion engine. 3,716,033, 2-13-73, Cl. 123-8.410.
L'Eplattenier, Francois; and Calderazzo, Fausto, to American Cyanamid Company. Homogeneous ruthenium-catalyzed reduction of nitro compounds. 3,729,512, 4-24-73, Cl. 260-580.000.
Lepley, James W.: *See—*
Stauffer, Aaron Z.; Herr, John H.; Lepley, James W.; and Zimmerly, James C., 3,710,960.



Lepley, James W. Safety enclosure for silos. 3,710,986, 1-16-73, Cl. 222-185.000.
Lepley, Larry K. Azimuthal positioning system. 3,710,335, 1-9-73, Cl. 343-112.00r.
Lepley, Russell L.; and Motyl, Werner J. Emergency mine elevator. 3,757,701, 9-11-73, Cl. 104-242.000.
Lepola, Aimo Emil, to Yhtyneet Paperitehtaat Osakeyhtio. Arrangement for fixing the grinding stone in a pump grinder. 3,721,391, 3-20-73, Cl. 241-293.000.
LePone, John J.: *See—*
Kulicke, Frederick W., Jr.; and LePone, John J., 3,738,560.
Lepor, Meyer. Noise protective device. 3,728,741, 4-24-73, Cl. 2-209.000.
Lepor, Meyer, to United States of America, Navy. Method for applying an acoustic barrier. 3,748,167, 7-24-73, Cl. 117-72.000.
Lepore, Anthony: *See—*
Riedel, Rogers; and Lepore, Anthony, 3,755,827.
Lepore, Donald A.; Puttbach, Richard C.; and De Stefano, Richard J., to Litton Systems, Inc. Simulated emerald gemstone. 3,761,292, 9-25-73, Cl. 106-42.000.
Leposavic, Wayne V., to Lematex, Inc. System for preventing erroneous data output signals from an electrical keyboard. 3,720,938, 3-13-73, Cl. 340-365.00s.
Leposavic, Wayne V., to Lamatex, Inc. Keyboard switch assembly with improved movable contact. 3,742,157, 6-26-73, Cl. 200-5.00a.
Lepp, Jacob H., to International Harvester Company. Stabilizer attachment-duplex-chisel plow. 3,766,989, 10-23-73, Cl. 172-605.000.
Lepper, Herbert; Umbach, Wilfried; and Stein, Werner, to Henkel & Cie G.m.b.H. Novel thia-alkanols. 3,729,518, 4-24-73, Cl. 260-609.00a.
Leppert, Dale V. High frequency ferroresonant transformer. 3,739,255, 6-12-73, Cl. 321-16.000.
Leprino Cheese Mfg. Co.: *See—*
Kielsmeier, lester O.; and Leprino, James G., 3,713,220.
Leprino, James G.: *See—*
Kielsmeier, lester O.; and Leprino, James G., 3,713,220.
Lepselter, Martin P., to Bell Telephone Laboratories, Incorporated. Schottky barrier diodes as impedance elements and method of making same. 3,770,606, 11-6-73, Cl. 204-192.000.
Lepselter, Martin Paul: *See—*
Andrews, John Marshall, Jr.; and Lepselter, Martin Paul, 3,719,797.
Basseches, Harold; Gerstenberg, Dieter; Lepselter, Martin Paul; Macrae, Alfred Urquhart; and Scholn, Joel Mark, 3,737,343.
Lepselter, Martin Paul; and MacRae, Alfred Urquhart, to Bell Telephone Laboratories, Incorporated. High resolution shadow masks and their preparation. 3,713,922, 1-30-73, Cl. 156-16.000.
Lequin, Doris S.: *See—*
Schoolar, Richard B.; Lequin, Doris S.; Mathews, Harry E., Jr.; and Culpepper, Ronald N., 3,770,565.
L'Equipement General Electrique "Egelec": *See—*
Auchapt, Rene; and Gerard, Michel Jullien, 3,710,053.
Lerch, Adolph Felix; Otis, Nick C.; and Montgomery, John D., to Advance Housing Corporation. Prefabricated building and roof panel for same. 3,771,269, 11-13-73, Cl. 52-93.000.
Lerch, Joseph B., to RCA Corporation. Threshold gate circuits employing field-effect transistors. 3,715,603, 2-6-73, Cl. 307-211.000.
Lerch, Rolf: *See—*
Held, Walter; and Lerch, Rolf, 3,758,808.
Lerch, Wolfgang: *See—*
Greiner, Hermann; and Lerch, Wolfgang, 3,751,707.
Lerche, Franz: *See—*
Buchfuhrer, Gerhard; Dudszus, Alfred; Milles, Wilhelm; Lerche, Franz; Feyer, Gunter; Krause, Manfred; Grunwald, Josef; Hensel, Ulrich; Aust, Ingo; Ewald, Gunter; Langer, Walter; Ludke, Gunther; Mohle, Karl-Georg; Oberlander, Joachim; Kowalski, Horst; Gatzk, Eckard; Pernaux, Gerd; Schwank, Otto; Leschnewski, Konrad; Brose, Reinhard; Hartwig, Gunter; and Ploetz, Ulrich, 3,708,100.
Lerche-Svendsen, Flemming, to Aktieselskabet Fibertex. Method for producing a non-woven fabric. 3,713,931, 1-30-73, Cl. 156-148.000.
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Leri, Mario. Line marking apparatus. 3,707,942, 1-2-73, Cl. 118-1.000.
Lerich, Lester. Expansion bolt. 3,744,367, 7-10-73, Cl. 85-79.000.
Lerich, Lester, to Wej-It Expansion Products, Inc. Anchor bolt with expansion sleeve. 3,750,519, 8-7-73, Cl. 85-77.000.
Lerich, Lester, to Wej-it Expansion Products, Inc. Expansion bolt with unitary wedge assembly. 3,750,526, 8-7-73, Cl. 85-79.000.
Lerman, Frank, to National Distillers and Chemical Corporation. Process for the purification of beryllium metal. 3,719,472, 3-6-73, Cl. 75-84.000.
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Lerner, David S., to Lockheed Electronics Company, Inc. Power distribution network. 3,728,648, 4-17-73, Cl. 333-6.000.
Lerner, George: *See—*
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Lerner, Hershey, to Automated Packaging Systems, Inc. Apparatus for packaging articles. 3,774,367, 11-27-73, Cl. 53-67.000.
Lerner, Irwin; and McGrath, Robert Paul, to Hoffmann-La Roche Inc. Medazepam and propantheline composition. 3,714,355, 1-30-73, Cl. 424-244.000.
Lerner, Irwin S., to Robins, A. H., Company, Incorporated. Intrauterine contraceptive device. 3,750,662, 8-7-73, Cl. 128-130.000.
Lerner, Irwin S., to Robins, A. H., Company, Incorporated. Intrauterine contraceptive device with large appendages. 3,756,228, 9-4-73, Cl. 128-130.000.
Lerner, Irwin S., to Robins, A. H., Company, Incorporated. Intrauterine device inserter. 3,771,520, 11-13-73, Cl. 128-127.000.
Lerner, Julius; and Mayer, Robert, to Sun Oil Company, mesne. Arrangement for multiplexing of a plurality of remotely-located capacitive probes. 3,735,371, 5-22-73, Cl. 340-177.0ca.
Lerner, Julius; and Mayer, Robert, to Sun Oil Company of Pennsylvania. Unsoldering tool for printed circuit board use. 3,766,623, 10-23-73, Cl. 29-203.00b.
Lerner, Julius O., 50% to Herman, David. Signal-responsive control system. 3,710,336, 1-9-73, Cl. 343-225.000.
Lerner, Leonard J., to Squibb, E. R., & Sons, Inc. Pharmaceutical compositions. 3,755,575, 8-28-73, Cl. 424-240.000.
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Lerner, Martin L., to Zenith Radio Corporation. Method and apparatus for detecting halogen group gas. 3,748,097, 7-24-73, Cl. 23-232.00e.
Lerner, Nathan B., to Braun, W., Company. Multi-product dispenser package. 3,768,697, 10-30-73, Cl. 222-80.000.
Lerner, Robert, to Formulette Company, Inc. Infant dressing table. 3,756,680, 9-4-73, Cl. 312-237.000.
Lerner, Robert Wendell; Hayati, Hossein; and Flasch, John Robert, to Stauffer Chemical Company. Coating composition. 3,776,881, 12-4-73, Cl. 260-37.0sb.
Lerner, Sidney I., to Ethyl Corporation. Reducing abnormally high plasma lipid levels in mammals with phenals. 3,714,365, 1-30-73, Cl. 424-330.000.
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Leroy, Marcel; and Thiebaut, Albert. Rotary-piston engine. 3,760,777, 9-25-73, Cl. 123-8.450.
Leroy, Pierre; Gombert, Marcel; Queuleu, Metz; and Sprunck, Emile, to Creusot-Loire a Societe Anonyme. Device for cooling a tuyere of a refining converter. 3,779,534, 12-18-73, Cl. 266-41.000.
Leroy, Vincent: *See—*
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Lerris, Hans Otto, to Danfoss A/S. Reserve switch for diving equipment. 3,731,704, 5-8-73, Cl. 137-612.100.
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Lesher, George Y.; and Carabateas, Philip M., to Sterling Drug Inc. 1,4-Dihydro-4-oxo-7-pyridyl-3-quinolinecarboxylic acid derivatives. 3,753,993, 8-21-73, Cl. 260-286.00r.
Lesher, George Y., to Sterling Drug Inc. N,N'-alkylenebic (4-substituted benzamides). 3,761,509, 9-25-73, Cl. 260-471.00c.
Lesher, Godwin F. Probe. 3,722,604, 3-27-73, Cl. 175-19.000.
Lesher, Herbert, to Du Pont de Nemours, E. I., and Company. Tube and package making methods. 3,778,961, 12-18-73, Cl. 53-28.000.
Lesher, Tommy G., to Hughes Aircraft Company. Magnetic wire electropolishing process improvement. 3,740,324, 6-19-73, Cl. 204-129.700.
Leshin, Richard; and Cox, William L., to Goodyear Tire & Rubber Company, The. Process of preparing an amino thiazolyl disulfide using wet 2-mercaptobenzothiazole. 3,780,038, 12-18-73, Cl. 260-247.100.
Lesicecki, Gerald, to Allis-Chalmers Manufacturing Company. Trapped bushing seal. 3,724,861, 4-3-73, Cl. 277-25.000.
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Lesk, Norman, to Treadwell Corporation. Casting wheel welded steel hub. 3,744,553, 7-10-73, Cl. 164-326.000.
Leska, Joseph P. Simultaneous multiple side punching apparatus. 3,709,082, 1-9-73, Cl. 83-618.000.
Leskin, Morton B. Lamp flashing circuit. 3,772,564, 11-13-73, Cl. 315-200.00a.
Lesko, Frank J., to Reynolds Metals Company. Apparatus for and method of forming a tubular metal blank into a tapered tube on a tapered mandrel. 3,713,318, 1-30-73, Cl. 72-283.000.
Lesko, Frank J., to Reynolds Metals Company. Die assembly. 3,715,904, 2-13-73, Cl. 72-276.000.
Lesko, Frank J., to Reynolds Metals Company. Method of and apparatus for forming a tubular metal blank into a tapered tube on a tapered mandrel and stripping the tube from the mandrel. 3,717,458, 2-20-73, Cl. 72-276.000.
Lesley, Arthur M., to Hughes Aircraft Company. Circuit module providing high density interconnections. 3,726,989, 4-10-73, Cl. 174-68.500.
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Leslie, Victor Jeffrey; and Rose, John Brewster, to Imperial Chemical Industries Limited. Aromatic sulphones. 3,726,927, 4-10-73, Cl. 260-607.00a.
Leslie, Victor Jeffrey; and Rose, John Brewster, to Imperial Chemical Industries Limited. Aromatic sulphones. 3,770,832, 11-6-73, Cl. 260-607.00a.
Leslie, Victor Jeffrey; Newton, Alan Branford; and Rose, John Brewster, to Imperial Chemical Industries Limited. Aromatic polymers of 2-bromo-8-hydroxy-5,5-dioxodibenzothiophen. 3,775,368, 11-27-73, Cl. 260-49.000.
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Lestrade, Marguerite Elise; and Herret, Jean, to Etat Francais. Anodic oxidation of aluminum and alloys thereof to form hard anodized coatings thereon. 3,738,921, 6-12-73, Cl. 204-58.000.
LeSuer, William M., to Lubrizol Corporation, The. Barium-containing dispersions and process. 3,779,922, 12-18-73, Cl. 252-34.00f.
Lesuer, William Monroe, to Lubrizol Corporation, The. Basic barium-containing compositions. 3,773,664, 11-20-73, Cl. 252-40.700.
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Lesueur, Gilbert, to Alsthom-Savoisienne. Current reducers utilizing the Faraday effect. 3,743,929, 7-3-73, Cl. 324-96.000.
Lesueur, Gilbert, to Alsthom-Savoisienne. Magnetic-optical generator. 3,754,143, 8-21-73, Cl. 250-204.000.



Lesyk, Joseph N.; Ludwig, David P.; and Monahan, Jack J., to Western Electric Company, Incorporated. Compliant bonding. 3,771,711, 11-13-73, Cl. 228-4.000.
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Letchworth, Peter E., to Stauffer Chemical Company. Synergists insecticidal mixtures of O,O-dimethyl-O-(2-methoxy-4-cyanophenyl) phosphorathiate and 3, 4-methylene dioxyphenyl propynyloxy carbamates. 3,720,766, 3-13-73, Cl. 424-210.000.
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Letosky, Vincent H., to General Motors Corporation. Zero crossover detector circuit. 3,768,024, 10-23-73, Cl. 328-150.000.
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Letson, George M.; Whitman, Robert J.; and Scott, James J., Jr., to Eastman Kodak Company. Sensitometer for photoconductive materials. 3,713,021, 1-23-73, Cl. 324-32.000.
Lettan, Richard H., to Eastman Kodak Company. Microfilm reader and multifunctional control means therefor. 3,756,709, 9-4-73, Cl. 353-27.000.
Letter, Eugene C., to Bausch & Lomb Incorporated. Electrosensitive recording media. 3,713,996, 1-30-73, Cl. 204-2.000.
Letter, Eugene C., to Bausch & Lomb Incorporated. Optical device. 3,745,044, 7-10-73, Cl. 117-211.000.
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Lettieri, John; and Pett, Roger H., to International Business Machines Corporation. Accumulator for a key entry device. 3,746,839, 7-17-73, Cl. 235-61.80r.
Lettieri, John, to International Business Machines Corporation. Word backspace circuit for buffered key entry device. 3,764,993, 10-9-73, Cl. 340-172.500.
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Letzer, Edward K., to Eastman Kodak Company. Masking printer. 3,758,207, 9-11-73, Cl. 355-80.000.
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Leuthold, Dale H., to Signetics Corporation. Exclusive-or ECL logic circuit. 3,743,856, 7-3-73, Cl. 307-216.000.
Leutner, Bernd; Schwarzmann, Matthias; and Ohlinger, Manfred, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Ferromagnetic chromium dioxide crystals. 3,769,087, 10-30-73, Cl. 117-234.000.
Leutner, Volkmar; and Romes, Romand, to Bosch, Robert, G.m.b.H. Fluidic regulating apparatus for a reversible hydraulic pump or motor. 3,750,534, 8-7-73, Cl. 91-506.000.
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Levardon, Raymond, to Tractel S.A. Endless jaw chain self-clamping winch. 3,729,173, 4-24-73, Cl. 254-175.500.
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Levenberg, Kay W. Exercise device adaptable to permit the performance of a plurality of different exercises. 3,735,979, 5-29-73, Cl. 272-58.000.
Levenberg, Nat. Tubular rigid angled joint. 3,726,551, 4-10-73, Cl. 287-54.00a.
Levenberg, Nathan. Apparatus for transportation and segregated emptying of vessels containing fluids of different density. 3,757,813, 9-11-73, Cl. 137-172.000.
Levenhagen, Alvin W., to North American Rockwell Corporation. Nestable and stackable container. 3,734,341, 5-22-73, Cl. 220-97.000.
Levenson, Michael K. Detonable explosive containing dissolved fluorescer. 3,737,349, 6-5-73, Cl. 149-89.000.
Levenson, Nathan S. Housing assembly on a hillside. 3,724,147, 4-3-73, Cl. 52-169.000.
Leventhal, Jack. Suspension means for automobile mufflers. 3,746,127, 7-17-73, Cl. 181-72.000.
Leventhal, Ruth Lee. Plastic back absorption pad sheet assembly. 3,761,973, 10-2-73, Cl. 5-335.000.
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Leverett, Glen Frederick, to Du Pont de Nemours, E. I., and Company. Stabilization of polyoxymethylene. 3,718,630, 2-27-73, Cl. 260-67.0fp.
Leverich, Charles T., to Cooke Engineering Company, The. Multiconductor switch for developing patch fields and test boards. 3,714,385, 1-30-73, Cl. 200-51.100.
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Levin, Gilbert V.; and Topol, George J., to Biospherics Incorporated. Sewage treatment process. 3,756,946, 9-4-73, Cl. 210-6.000.
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Levin, Igor Anatolievich. Electric system of a device for deicing the surface of thinwalled structures. 3,779,488, 12-18-73, Cl. 244-134.00a.
Levin, Martin E., to Varian Associates. Apparatus for loading cavity resonators of tunable velocity modulation tubes. 3,725,721, 4-3-73, Cl. 315-5.430.
Levin, Martin E., to Varian Associates. High frequency beam tube having an R.F. shielded and insulated collector. 3,748,513, 7-24-73, Cl. 313-30.000.
Levin, Maxine G. Flexible moustache cup. 3,733,021, 5-15-73, Cl. 229-1.50b.
Levin, Maxine G. Cup having illusion of emptying contents. 3,733,071, 5-15-73, Cl. 272-8.00r.
Levin, Myron M., to E-Z POR Corporation. Attachment to rim of a paint can or the like. 3,727,792, 4-17-73, Cl. 220-90.000.
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Levin, Nathan D., to Varian Associates. Input screen for image devices having reduced sensitivity in the central region. 3,716,713, 2-13-73, Cl. 250-80.000.
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Levine, Arnold M., to International Telephone and Telegraph Corporation. Optical system for television camera. 3,780,224, 12-18-73, Cl. 178-7.200.
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Levinsohn, Richard; and Jervis, James E., to Raychem Corporation. Hydraulic coupling with metallic sealing member. 3,759,552, 9-18-73, Cl. 285-175.000.
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Levinson, Gerald S., to Shell Oil Company. Hydroconversion process with a catalyst having a hydrogenation component composited with a high density alumina. 3,779,903, 12-18-73, Cl. 208-254.00h.
Levinson, Leo, to Singer Company, The. Inking device for a planar printing die plate. 3,721,187, 3-20-73, Cl. 101-359.000.
Levinson, Melvin L. Microwave kiln to cook food. 3,731,037, 5-1-73, Cl. 219-10.550.
Levinson, Melvin L. Power supply circuit for a heating magnetron. 3,732,504, 5-8-73, Cl. 331-86.000.
Levinson, Melvin L. Power supply for heating magnetron. 3,760,291, 9-18-73, Cl. 331-86.000.
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Levitt, Semond, to Gilbert Flexi-Van Corporation. Freight container transfer mechanism. 3,780,877, 12-25-73, Cl. 212-8.00b.
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Levy, Joseph; and Walker, William, to Universal Oil Products Company. Catalytic reduction process. 3,728,376, 4-17-73, Cl. 260-472.000.
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Levy, Leon B., to Celanese Corporation. Oxidation of olefins to unsaturated acids and aldehydes. 3,755,434, 8-28-73, Cl. 260-533.00n.
Levy, Leon M., to Condecor, Inc. Easel back having integral supporting structure. 3,707,791, 1-2-73, Cl. 40-124.100.
Levy, M. Frank; and Schmitt, George P., to International Business Machines Corporation. Photosensitive dielectric composition and process of using the same. 3,776,729, 12-4-73, Cl. 96-35.100.
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Levy, Raymond L., to Varian Associates. Imaging device having a pivoting pressure pad for engaging and disengaging a web medium. 3,715,156, 2-6-73, Cl. 355-16.000.
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Lewicki, George W.: *See—*
United States of America, National Aeronautics and Space Administration, 3,781,549.
Lewicki, George W.; and Guisinger, John E., to California Institute of Technology. Magneto-optic detection system with noise cancellation. 3,775,570, 11-27-73, Cl. 179-100.2ch.
Lewicki, George W.; and Gotsinger, John E., to United States of America, National Aeronautics and Space Administration. Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control. 3,778,791, 12-11-73, Cl. 340-17.10m.
Lewicki, Walter J., Jr.: *See—*
Culp, Charles R.; Eyman, Douglas R.; and Lewicki, Walter J., Jr., 3,762,101.
Lewicki, Walter J., Jr., to Armstrong Cork Company. Grooved rod coater. 3,718,117, 2-27-73, Cl. 118-414.000.
Lewicki, Walter John, Jr.: *See—*
Culp, Charles Richard; and Lewicki, Walter John, Jr., 3,717,524.
Lewin, Ian, to Holophane Company, Inc. Refractive grid. 3,763,369, 10-2-73, Cl. 240-106.000.
Lewiner, Jacques; and Biquard, Pierre, to Agence Nationale de Valorisation de la Recherche (ANVAR). Ultrasonic transducers. 3,742,152, 6-26-73, Cl. 179-111.00e.
Lewis, Albert D., to Owens-Illinois, Inc. Method of opening ampules in a non-contaminating manner. 3,719,463, 3-6-73, Cl. 65-113.000.
Lewis, Alvin; and Destito, Anthony J., to Embosograf Corporation of America. Frictionless cam-operated apparatus. 3,745,841, 7-17-73, Cl. 74-107.000.
Lewis, Armand Francis: *See—*
Elder, Gerald Brent; and Lewis, Armand Francis, 3,770,560.
Lewis, Arthur M.: *See—*
Schmitz, Lawrence S.; Lambright, John E.; and Lewis, Arthur M., 3,760,388.
Lewis, Beverley W.: *See—*
United States of America, National Aeronautics and Space Administration, 3,751,913.
Lewis, Brynley; Miller, George Langham; Brooks, Kenneth John; and Goss, Arthur George, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Flame shield for a gas turbine engie. 3,779,006, 12-18-73, Cl. 60-39.110.
Lewis, Charles A.; Homza, John; Volkmer, Eldon A.; Kalaf, George P.; Coddington, Carl D.; and Zablocki, Charles J., to United States of America, Navy. Antimine pistol. 3,721,190, 3-20-73, Cl. 102-16.000.
Lewis, Charles B.: *See—*
Cranston, Albert E., III; and Lewis, Charles B., 3,727,965.
Lewis, Charles Edward, to American Cyanamid Company. Boron complexes of O,O'-dihydroxyphenylazonaphthyl. 3,726,854, 4-10-73, Cl. 260-197.000.
Lewis, Charles T., Jr.: *See—*
Lewis, Ralph M.; Lewis, Charles T., Jr.; and Goldsby, Arthur R., 3,773,917.
Lewis, Charles W.; and Hann, Everette O., to United States of America, Army. Continuous process for manufacture of nitrocellulose. 3,714,143, 1-30-73, Cl. 260-220.000.
Lewis, Chas. S., & Co., Inc.: *See—*
Johnson, Thomas E., 3,758,296.
Lewis, Clifford J.; and Bruski, Richard S., to Flintkote International Licensing Company, mesne. Acceleration of the dissolution of lime in the basic oxygen furnace process. 3,744,991, 7-10-73, Cl. 75-53.000.
Lewis, Dan, Jr., to National Distillers and Chemical Corporation. Printing process for plastic containers. 3,752,873, 8-14-73, Cl. 264-78.000.
Lewis, Daniel A. Vehicle overhead console. 3,773,378, 11-20-73, Cl. 296-37.00r.
Lewis, Daniel W., to Westinghouse Electric Corporation. Fluorescent lamp having titania-doped glass envelope with transparent buffer film of titania. 3,748,518, 7-24-73, Cl. 313-109.000.
Lewis, David, to Chrysler United Kingdom Limited. Press tool assemblies. 3,713,574, 1-30-73, Cl. 228-3.000.
Lewis, David E. Multiple outlet fluid distribution apparatus. 3,730,208, 5-1-73, Cl. 137-119.000.
Lewis, David O.: *See—*
Brooks, Everett G.; and Lewis, David O., 3,764,994.
Lewis, David W.: *See—*
Berry, Holland J.; and Lewis, David W., 3,739,845.
Lewis, Donald J.; Gordan, William; and Wulbrecht, Robert W., to Allied Chemical Corporation. Diagnostic system for inflatable safety bag firing circuit. 3,745,523, 7-10-73, Cl. 340-52.00r.
Lewis, Donald J.; and Bishop, Robert J., to Allied Chemical Corporation. Argon compressed gas supply. 3,756,621, 9-4-73, Cl. 280-150.0ab.
Lewis, Donald J., to Allied Chemical Corporation. Inflation time control for safety device. 3,767,228, 10-23-73, Cl. 280-150.0ab.
Lewis, Donald J., to Allied Chemical Corporation. Magnetic buckle switch. 3,770,919, 11-6-73, Cl. 200-61.58b.



Lewis, Donald J.; and McMillin, Charles J., to Allied Chemical Corporation. Diagnostic firing circuit adapted for use with inflatable restraint systems in vehicles. 3,774,151, 11-20-73, Cl. 340-61.000.
Lewis, Donald Richard, to Shell Oil Company. Method for measuring the concentration of sand in a fluid stream. 3,767,916, 10-23-73, Cl. 250-303.000.
Lewis, Ebert E.: *See—*
Brown, Harry D., 3,770,419.
Lewis, Edgar R. Self securing socket for fishing rod. 3,745,690, 7-17-73, Cl. 43-21.200.
Lewis, Edward L.: *See—*
Berkovits, Barouh V.; Denouter, Pieter J.; and Lewis, Edward L., 3,760,332.
Lewis Engineering Company, The: *See—*
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Edwards, Harrison F.; and Bottorf, Stewart F., 3,767,992.
Edwards, Harrison F.; and Bottorf, Stewart F., 3,770,965.
Lewis, Ernest E.: *See—*
Harben, Grover S., Jr.; Lewis, Ernest E.; Sloan, Lloyd E.; and Lawson, William J., 3,767,044.
Lewis, Ernest E., to Gainesville Machine Company, Inc. Apparatus for killing poultry or other fowl. 3,724,029, 4-3-73, Cl. 17-11.000.
Lewis, Ernest E., to Gainesville Machine Company, Inc. Method and apparatus for killing poultry or other fowl. 3,765,055, 10-16-73, Cl. 17-11.000.
Lewis, Eugene W.: *See—*
Warden, Fuller; Lewis, Eugene W.; McNickle, Bernard F.; and Mills, Jack H., 3,715,806.
Lewis, Fred; and Useldinger, Ronald E., to Useldinger, Ronald E. Friction type exercising device mounted on a collapsible structure. 3,741,538, 6-26-73, Cl. 272-58.000.
Lewis, G. B., Company: *See—*
Olson, Elmer E., 3,760,934.
Lewis, Geoffrey, to Lucas, Joseph, (Industries) Limited. Fuel control apparatus for gas turbine engine. 3,777,483, 12-11-73, Cl. 60-39.28r.
Lewis, Geoffrey Arthur: *See—*
Bottoms, Harry Simister; and Lewis, Geoffrey Arthur, 3,723,028.
Lewis, Geoffrey Arthur, to Lucas, Joseph, (Industries) Limited. Fuel control system for gas turbine engines. 3,721,088, 3-20-73, Cl. 60-39.28r.
Lewis, Geoffrey Arthur, to Lucas, Joseph, (Industries) Limited. Fuel supply systems for gas turbine engines. 3,768,249, 10-30-73, Cl. 60-39.140.
Lewis, Geoffrey Arthur, to Lucas, Joseph, (Industries) Limited. Fuel supply systems for gas turbine engines. 3,769,791, 11-6-73, Cl. 60-39.28r.
Lewis, Geoffrey Arthur, to Lucas, Joseph, (Industries) Limited. Control apparatus for a gas turbine engine. 3,780,527, 12-25-73, Cl. 60-39.16r.
Lewis, George E.: *See—*
Murman, Fernando; Lewis, George E.; Dunn, Allen I.; and O'Brien, Charles E., 3,741,295.
Murman, Fernando; Lewis, George E.; Dunn, Allen I.; and O'Brien, Charles E., 3,741,296.
Lewis, George E.; and Murman, Fernando, to Hydril Company. Rotary plug valve assembly. 3,729,170, 4-24-73, Cl. 251-315.000.
Lewis, George R.: *See—*
Crawford, Jack A.; Lewis, George R.; and Woodworth, William H., 3,725,576.
Lewis, Gordon Manns; and Hooker, Stanley George, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Gas turbine engines. 3,779,486, 12-18-73, Cl. 244-53.00r.
Lewis, Harold Loyd, to Cotton, Incorporated. Control of fungi on cotton plants. 3,778,509, 12-11-73, Cl. 424-343.000.
Lewis, Harry R., to United States of America, Navy. Low heat generation turbine engine bearing. 3,722,967, 3-27-73, Cl. 308-187.000.
Lewis, Herbert H., to Jacksonville Blow Pipe Company. Wooden article and like destroyer. 3,752,409, 8-14-73, Cl. 241-60.000.
Lewis, Herbert H. Solid state video reproducing system. 3,752,910, 8-14-73, Cl. 178-5.4el.
Lewis, Herman L., Jr.: *See—*
Schleutermann, Carl W.; and Lewis, Herman L., Jr., 3,719,319.
Lewis, Homer D.: *See—*
Baker, Richard D.; Hayter, Sidney W.; and Lewis, Homer D., 3,778,380.
Lewis, Howard B., to Bell & Howell Company. Temperature indicating apparatus using oppositely varying capacitors. 3,774,089, 11-20-73, Cl. 317-247.000.
Lewis, Howard M.: *See—*
Martin, James C.; Meen, Ronald H.; and Lewis, Howard M., 3,772,292.
Lewis, Ian Edward: *See—*
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Lewis, Ian John: *See—*
Defontenay, Paul; and Lewis, Ian John, 3,732,741.
Lewis Industries, Inc.: *See—*
Lewis, Jerome A., 3,779,376.
Lewis, Ivor J., to Westinghouse Electric Corporation. Quick operating device for a valve. 3,746,299, 7-17-73, Cl. 251-25.000.
Lewis, Ivor James, to Westinghouse Electric Corporation. Servo-actuator mechanism. 3,726,187, 4-10-73, Cl. 91-468.000.
Lewis, J. Stephen: *See—*
Sapkus, Jurgis; Lewis, J. Stephen; Leidtke, Ronald R.; and Villasana, Armando P., 3,745,696.
Lewis, J. Stephen; Benson, John T.; Bosley, Denis V.; and Sapkus, Jurgis, to Mattel, Inc. Shape-changing figure toy. 3,731,426, 5-8-73, Cl. 46-119.000.
Lewis, J. Stephen; Sapkus, Jurgis; and Villasana, Armando P., to Mattel, Inc. Object-holding hands for dolls. 3,731,427, 5-8-73, Cl. 46-239.000.
Lewis, James G.; and Hughes, Thomas A., to United States of America, Interior. Automatic stereoscopic profiling system. 3,738,746, 6-12-73, Cl. 355-22.000.
Lewis, James H.: *See—*
Duck, James; and Lewis, James H., 3,720,260.
Lewis, James Marvin; and Wainer, Eugene, to Horizons, Incorporated. Light sensitive reproduction and electron beam sensitive material. 3,769,023, 10-30-73, Cl. 96-115.00p.
Lewis, James T.: *See—*
Fountain, Gerald F.; Pringle, John P.; and Lewis, James T., 3,755,112.
Lewis, Jay L., to Robertshaw Controls Company. Control device with concealed selector means and method of making the same. 3,771,387, 11-13-73, Cl. 74-566.000.
Lewis, Jerome A., to Lewis Industries, Inc. Shipping and storage container for casket interiors. 3,779,376, 12-18-73, Cl. 206-65.00r.
Lewis, Jerry M.: *See—*
Hanson, Ivor G.; Herbst, George; and Lewis, Jerry M., 3,744,119.
Hanson, Ivor G.; Herbst, George; and Lewis, Jerry M., 3,761,004.
Lewis, Jesse M., to Thermo-Chem Corporation. Tow hitch. 3,756,618, 9-4-73, Cl. 280-489.000.
Lewis, John A., to Ford Motor Company. Engine exhaust gas recirculating control. 3,768,452, 10-30-73, Cl. 123-119.00a.
Lewis, John B.; and Hendick, Glen W., to United States of America, Agriculture. Elastomeric polyester-derived polyurethanes containing 12-hydroxymethyl-tetrahydroabietanol. 3,708,450, 1-2-73, Cl. 260-26.000.
Lewis, John B.; and Hedrick, Glen W., to United States of America, Agriculture. Process for preparing polyurethanes from hydroxymethylated derivatives of resin acids. 3,732,179, 5-8-73, Cl. 260-24.000.
Lewis, John C., to Park-Ohio Industries, Inc. Method and apparatus for inductively heat treating elongated workpieces. 3,720,803, 3-13-73, Cl. 219-10.690.
Lewis, John C., to Growth International, Inc. High frequency induction heating apparatus. 3,755,644, 8-28-73, Cl. 219-10.790.
Lewis, John C., Jr., to Tucel Industries, Inc. Machinery for handling synthetic filament. 3,774,782, 11-27-73, Cl. 214-6.00d.
Lewis, John G., to Emerson Electric Co. Method of assembling a dynamo-electric machine. 3,714,705, 2-6-73, Cl. 29-596.000.
Lewis, John Hopkins, to Columbia Pictures Industries, Inc. Film advancing and positioning apparatus. 3,776,626, 12-4-73, Cl. 352-194.000.
Lewis, John, Inc.: *See—*
Tremblay, Theodose, 3,730,661.
Lewis, John R.: *See—*
Silberg, Paul A.; and Lewis, John R., 3,715,539.
Lewis, John R., to Harnessed Energies, Inc. Faraday effect speedometer. 3,777,561, 12-11-73, Cl. 73-181.000.
Lewis, John R., to Harnessed Energies, Inc. Fluid level monitoring system. 3,781,858, 12-25-73, Cl. 340-244.00a.
Lewis, Joseph D., Jr., to Universal Packaging, Inc. Strap tensioner. 3,742,558, 7-3-73, Cl. 24-68.00d.
Lewis, Jules. Case for removably carrying a wrist watch. 3,777,953, 12-11-73, Cl. 224-4.00c.
Lewis, Karl D.; Hasselwander, Ray W.; and Amann, William Leon. Agitator for facilitating flow from hopper. 3,747,811, 7-24-73, Cl. 222-233.000.
Lewis, Keith, to Lucas, Joseph, (Industries) Limited. Electric switch contacts. 3,717,738, 2-20-73, Cl. 200-166.0bh.
Lewis, Keith, to Lucas, Joseph, (Industries) Limited. Electric switches. 3,746,359, 7-17-73, Cl. 200-67.00g.
Lewis, Keith; and Gleeson, Robert Leonard, to Lucas, Joseph, (Industries) Limited. Safety arrangements for road vehicles. 3,777,175, 12-4-73, Cl. 307-10.0sb.
Lewis, Keith B.: *See—*
Alm, Gerald F.; Alm, Donald S.; Harvey, Ralph R.; Harvey, Robert L.; Andrews, Ray L.; and Lewis, Keith B., 3,749,376.
Lewis, Melvin A., to Loral Corporation. Microwave frequency memory device. 3,710,256, 1-9-73, Cl. 325-6.000.
Lewis, Morton, to Swift & Company. Urethane composition prepared from polyisocyanates and phosphonated polyoxyalkylene ester. 3,741,919, 6-26-73, Cl. 260-2.5ar.



Lewis, Morton, to Swift & Company. Phosphonated polyoxyalkylene ethers. 3,760,038, 9-18-73, Cl. 260-932.000.
Lewis, Thomas John, to United Kingdom of Great Britain and

Lewis, Morton, to Swift & Company. Phosphonated polyoxyalkylene ethers. 3,760,038, 9-18-73, Cl. 260-932.000.
Lewis, Oliver G.: *See—*
Heigl, John J.; and Lewis, Oliver G., 3,740,156.
Lewis, Owen, to United States of America, Air Force. Vertical tapeline microwave coupler for paramagnetic spin resonance. 3,742,399, 6-26-73, Cl. 333-82.00r.
Lewis, Peter Frederick, to English Electric Valve Company Limited. Magnetrons. 3,731,140, 5-1-73, Cl. 315-39.610.
Lewis, Peter McHigh: *See—*
Cain, Maurice Edward; Knight, Geoffrey Thomas; Gazeley, Keith Frederick; and Lewis, Peter McHigh, 3,721,659.
Lewis, Philip W.: *See—*
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Lewis, Ralph M.: *See—*
Francis, James O.; Lewis, Ralph M.; Trammell, Lawrence R.; and Vachuda, George W., 3,726,792.
Lewis, Ralph M.; Lewis, Charles T., Jr.; and Goldsby, Arthur R., to Texaco Inc. Recovery of used sulfuric acid alkylation catalyst. 3,773,917, 11-20-73, Cl. 423-525.000.
Lewis, Richard A., to Addressograph-Multigraph Corporation. Direct image composing machine having means to prevent pressure overload of printing characters. 3,768,619, 10-30-73, Cl. 197-6.400.
Lewis, Richard B.: *See—*
Maksymiak, John; and Lewis, Richard B., 3,759,222.
Lewis, Richard L.: *See—*
Bach, Lloyd G.; and Lewis, Richard L., 3,729,235.
Mizen, Walter J.; Lewis, Richard L.; and Hendrickson, Richard T., 3,768,606.
Lewis, Richard L., to Bendix Corporation, The. Load sensing control device for a vehicle hydraulic braking system. 3,734,574, 5-22-73, Cl. 303-22.00r.
Lewis, Richard L.; Ewald, Jerome T.; and Shields, Martin A., to Bendix Corporation, The. Hydraulically actuated adaptive braking system using a single fluid. 3,761,140, 9-25-73, Cl. 303-21.00f.
Lewis, Richard L., to Bendix Corporation, The. Hydraulic brake booster. 3,768,370, 10-30-73, Cl. 91-391.00r.
Lewis, Richard L., to Bendix Corporation, The. Proportioning valve with load sensing blend back. 3,768,876, 10-30-73, Cl. 303-22.00r.
Lewis, Richard L., to Bendix Corporation, The. Proportioning valve with pressure limiting. 3,773,362, 11-20-73, Cl. 303-6.00c.
Lewis, Richard Newton, to Stauffer-Wacker Silicone Corporation. Organopolysiloxane-polyvinyl chloride blends. 3,711,570, 1-16-73, Cl. 260-827.000.
Lewis, Robert B. Learning center. 3,715,815, 2-13-73, Cl. 35-60.000.
Lewis, Robert E.; and Tenorio, Joseph I., to General Electric Company. Stable solutions containing molybdenum-99 and process of preparing same. 3,752,769, 8-14-73, Cl. 252-301.10r.
Lewis, Robert R.: *See—*
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Lewis, Roger G. Digitally controlled phase shifter. 3,714,589, 1-30-73, Cl. 328-155.000.
Lewis, Roger N.; and Friedman, Ronald L., to Argus Chemical Corporation. Polymerization method employing t-alkyl peresters of t-hydroperoxides. 3,726,847, 4-10-73, Cl. 260-92.80r.
Lewis, Roger N.; and Friedman, Ronald L., to Argus Chemical Corporation. Low molecular weight acyl peroxycarbonic esters. 3,736,344, 5-29-73, Cl. 260-463.000.
Lewis, Roger N.; and Friedman, Ronald L., to Argus Chemical Corporation. Novel co-initiator systems. 3,763,128, 10-2-73, Cl. 260-89.100.
Lewis, Roy D., to Mateer, G. Diehl, Co. Apparatus for filling containers. 3,730,235, 5-1-73, Cl. 141-172.000.
Lewis, Roy F.: *See—*
Starr, Arthur T.; Sewell, Brian C.; and Lewis, Roy F., 3,708,751.
Lewis, Scott C.: *See—*
Blount, Frederick T.; Geller, Henry A.; Moore, Richard D.; Leung, Howard; Lewis, Scott C.; and Redmond, Joseph M., 3,736,573.
Lewis, Sheldon N.; and Frank, George A., to Rohm & Haas Company. Air-dried coatings compositions comprising polyester resins and a saturated aliphatic aldehyde. 3,716,508, 2-13-73, Cl. 260-22.00a.
Lewis Sheldon N.; Miller, George A.; and Law, Andrew B., to Rohm & Haas Company. 3-Isothiazolones. 3,761,488, 9-25-73, Cl. 260-302.00a.
Lewis, Sheldon N.; and Yunaska, Matthew R., to Rohm & Haas Company. Nitrocellulose-modified urethane coating compositions and their use in finishing leather. 3,763,061, 10-2-73, Cl. 260-13.000.
Lewis, Terence E., to Powerlite Devices Limited. Frangible lighting pole. 3,755,977, 9-4-73, Cl. 52-98.000.
Lewis, Theras Gordon; and Vachon, Patrick Alban, to Bell Telephone Laboratories, Incorporated. Time division signal transfer network. 3,761,624, 9-25-73, Cl. 179-15.0aa.
Lewis, Theras Gordon, to Bell Telephone Laboratories, Incorporated. Time division switching system bridging circuit. 3,769,461, 10-30-73, Cl. 179-15.0at.
Lewis, Thomas John, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty, Government of the. Manufacture of silicon carbide. 3,758,672, 9&11-73, Cl. 423-345.000.
Lewis, Thomas John, to National Research Development Corporation. Manufacture of silicon carbide. 3,773,899, 11-20-73, Cl. 423-346.000.
Lewis, Thomas L.; and Cohn, Robert B., to United States of America, National Aeronautics and Space Administration. Acoustical transducer calibrating system and apparatus. 3,744,294, 7-10-73, Cl. 73-1.0dv.
Lewis, Thomas W., to Rexham Corporation, mesne. Mounting base material for rubber printing plates and method of manufacturing the same. 3,718,531, 2-27-73, Cl. 161-116.000.
Lewis, Tony E.; and Rodriguez, George, said Lewis assor. to said Rodriguez, George. Rotary stamping machine. 3,714,809, 2-6-73, Cl. 72-326.000.
Lewis, William L., to Roberts Company. Variable speed pulley assembly. 3,739,651, 6-19-73, Cl. 74-230.17m.
Lewkowitz, Bernard, to Rimar Manufacturing, Inc. Self locking door light molding. 3,750,358, 8-7-73, Cl. 52-400.000.
Lewyckyj, Roman, to Scott Paper Company. Thread-reinforced laminated structure having lines of weakness and method and apparatus for creating lines of weakness. 3,716,132, 2-13-73, Cl. 206-58.000.
Lexsuco, Inc.: *See—*
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Ley, Erich Josef. Tape recorder for teaching, particularly for language teaching. 3,733,719, 5-22-73, Cl. 35-35.00c.
Ley, Kurt: *See—*
Jautelat, Manfred; Kabbe, Hans-Joachim; and Ley, Kurt, 3,752,808.
Oertel, Harald; Roos, Ernst; and Ley, Kurt, 3,778,409.
Ley, Kurt; Eholzer, Ulrich; Nast, Roland; Metzger, Karl Georg; and Fritsche, Dieter, to Bayer Aktiengesellschaft. 2-Halomethyl-3-carboxylic acid amido-quinoxaline-1,4-di-N-oxides as antibacterial agents and pharmaceutical comprising said oxides. 3,754,087,8-21-73, Cl. 424-250.000.
Ley, Ralph M.; Alyea, Harold M.; and Holloway, Thomas M., to Johnson Service Company. Environmental air distribution control system powered by system pressure. 3,779,275, 12-18-73, Cl. 137-505.180.
Ley, William H.: *See—*
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Leybold-Heraeus-Verwaltung G.m.b.H.: *See—*
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Ermold, Edgar; Schwartz-Domke, Hans F. W.; Scheidig, Helmut; and Redel, Karl-Georg, 3,739,066.
Heimerl, Joseph, 3,748,070.
Thorn, Gernot; and Sturmer, Johann, 3,752,973.
Wilmanns, Ingo; and Barz, Alfred, 3,721,910.
Leybourne, Allen E., III, to Monsanto Company. Tire with belt having scalloped edges. 3,719,218, 3-6-73, Cl. 152-361.000.
Leyburn, Derek; Ahmad, Khurshid; and Thomas, Robert, to Bell Telephone Company of Canada, The. Telephone message accounting system. 3,739,097, 6-12-73, Cl. 179-7.10r.
Leyde, Warren L.: *See—*
Maxey, Carl; Montague, Grant R.; Leyde, Warren L.; and Bryan, Eugene L., 3,760,667.
Leyde, Warren L.; and Marker, Delbert E., to Republic Industries, Inc. Automatic door-opening system using an acoustic object detection system. 3,742,434, 6-26-73, Cl. 340-1.00r.
Leyde, Warren L.; and Marker, Delbert E., to Pacific Technology, Inc. Acoustic object detection system. 3,742,442, 6-26-73, Cl. 340-15.000.
Leydon, Arthur J.: *See—*
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Leydon, Arthur J.; Brenner, Mannie; and Chase, Fred L., to Chase, W. R., & Co. Composition for sealing contained sterilized foods. 3,708,331, 1-2-73, Cl. 117-95.000.
Leyh, Harold F. Spud clamping device. 3,720,435, 3-13-73, Cl. 294-88.000.
Leyland, Boris Nicholas: *See—*
Dodman, David; Laithwaite, Peter; Leyland, Boris Nicholas; and Quan, Peter Michael, 3,734,886.
Leyland, Boris Nicholas; and Wood, Neil Frederick, to Imperial Chemical Industries Limited. Rubber-polyester compositions. 3,756,906, 9-4-73, Cl. 161-231.000.
Leyland, Boris Nicholas; and Wood, Neil Frederick, to Imperial Chemical Industries Limited. Rubber-polyester compositions. 3,758,374, 9-11-73, Cl. 161-231.000.
Leyland Gas Turbines Limited: *See—*
Barnard, Mark Gary Sedgwick; and Airey, Leslie, 3,719,041.
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Leymonerie, Paul, to U.S. Philips Corporation. Method of opening a closed vacuum vessel in a vacuum space. 3,722,069, 3-27-73, Cl. 29-427.000.
Leyrat, Pierre J., to Societe Anonyme: Poclain. Public works machines. 3,771,610, 11-13-73, Cl. 173-46.000.
Leyrer, Lowell J.: *See—*
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Lezberg, Melvin G. Control for a slitter. 3,748,934, 7-31-73, Cl. 82-48.000.
Lezhen, Iosif Solomonovich; Ulyanov, Mikhail Grigorievich; Barilchenko, Vitaly Sergeevich; and Mokritsky, Pavel Sergeevich. Method of producing fur products and a device for carrying out the method. 3,772,108, 11-13-73, Cl. 156-68.000.
Lezy, Renee: *See—*
Alexandre, Pierre; and Lezy, Renee, 3,768,599.
LFE Corporation: *See—*
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LFE Corporation (formerly Laboratory for Electronics Inc.): *See—*
Eakman, Stephen L.; and Wood, David F., 3,742,217.
Lhomore, Pierre; Cohen, Guy; and Jacquinot, Bernard, to Societe Chimique de la Grande Paroisse, Azote et Produits Chimiques. Process for producing nitroparaffins. 3,780,115, 12-18-73, Cl. 260-644.000.
Lhonore, Pierre; Quibel, Jacques; and Senes, Michel, to Societe Chimique de la Grande Paroisse, Azote et Produits Chimiques. Process for reforming heavy hydrocarbons. 3,737,291, 6-5-73, Cl. 48-214.000.
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Liepins, Janis. Mechanical power assist apparatus. 3,715,948, 2-13-73, Cl. 83-573.000.

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Liesch, Jean; and Removille, Jacques, to Acieries Reunies de Burbach-Eich-Dudelange S.A., ARBED and Gradel S.A., Societe Luxembourgloise pour l'Industrie Nucleaire. Relatively short air lock for transfer of relatively long objects. 3,711,993, 1-23-73, Cl. 9-68.000.

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Lifson, Burton S., to Continental-Wirt Electronics Corporation. Insulated wire wound resistor. 3,760,323, 9-18-73, Cl. 338-174.000.

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Liggett, Robert W., to Cotton Producers Institute. Wet fixation of modifying agents on fibrous systems by heating in aqueous salt solution. 3,709,716, 1-9-73, Cl. 117-63.000.

Ligh, David R. Refuse compactor. 3,731,616, 5-8-73, Cl. 100-126.000.

Light, Arthur, to Curtis Noll Corporation. Abrasion-resistant alloy steel. 3,761,320, 9-25-73, Cl. 148-3.000.

Light, Cordell. Wheel supported turntable for trailers and the like. 3,762,785, 10-2-73, Cl. 308-230.000.

Light, Douglas J. N., to Pollution Control Systems (International) Limited. Liquid filter. 3,780,863, 12-25-73, Cl. 210-97.000.

Light, George S. System for preventing scale formation when heating fluids containing scale-forming ingredients. 3,739,839, 6-19-73, Cl. 165-1.000.

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Light, Rupert E., Jr., to Pennwalt Corporation. Polymerization of vinyl chloride with blends of peroxide initiators. 3,736,306, 5-29-73, Cl. 260-87.100.

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Lindholm, Robert Derwood; and Hollister, Kenneth Robert, to Eastman Kodak Company. Preparation of silver salts in an organic liquid medium. 3,713,833, 1-30-73, Cl. 96-114.000.
Lindlar, Herbert; and Dubuis, Robert, to Hoffmann-La Roche Inc. Process for selective hydrogenation. 3,715,404, 2-6-73, Cl. 260-642.000.
Lindley, John M. Rotary cutter assembly. 3,740,848, 6-26-73, Cl. 30-319.000.
Lindlof, James A., to Minnesota Mining and Manufacturing Company. Atomizing method. 3,716,190, 2-13-73, Cl. 239-2.00s.
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Lindner, Gustav, to Hulter, Heinrich, Jr., Firma. Permutation lock, for example, for suitcases, briefcases or the like. 3,707,861, 1-2-73, Cl. 70-74.000.
Lindner, Heinz; and Roscher, Georg. Device for producing double-sided looped cloth upon crochet galloon machines. 3,707,853, 1-2-73, Cl. 66-84.000.
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Lindner, Paul, to Witco Chemical Company, Inc. Water-in-oil emulsions. 3,776,857, 12-4-73, Cl. 252-308.000.
Lindner, Ronald J.; Lindner, Allen J.; and Adams, Nicholas S. Fish hook for use with a plastic worm. 3,724,116, 4-3-73, Cl. 43-42.240.
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Lindquist, Jonas T., to Oxy-Dry Sprayer Corporation. Apparatus for supplying powder. 3,760,990, 9-25-73, Cl. 222-371.000.
Lindquist, Julius A.; and Sommers, Jay R., to Johnson & Johnson. Non-slip instrument pad. 3,738,359, 6-12-73, Cl. 128-132.00d.
Lindquist, Oiva Herbert, to Honeywell Inc. Rate of change of energy indicator. 3,748,900, 7-31-73, Cl. 73-178.00r.
Lindquist, Steven M.; Baker, Kenneth A.; Harris, Elmer E.; and Wineberg, Kenneth W., to Heinz, H. J., Company. Method and apparatus for aseptically filling drums. 3,765,142, 10-16-73, Cl. 53-11.000.
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Lindsay, Anthony; Imperati, Ronald Lee; and Becker, Philipp, to Sperry Rand Corporation. Power transmission. 3,778,202, 12-11-73, Cl. 418-206.000.
Lindsay, Frederick H. Unified floor-frame assembly with skirt for a mobile building. 3,716,267, 2-13-73, Cl. 296-23.00r.
Lindsay, Harold W. Cutting tools. 3,757,397, 9-11-73, Cl. 29-105.00a.
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Lindsay, Roger; Thomas, Alun; Finlay, Ian C.; and Wilson, John L., to Shell Oil Company. Carburetor having a heat pipe for vaporizing fuel. 3,763,838, 10-9-73, Cl. 123-122.0aa.
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Lindsey, John L., Jr. Ice fishing tip-up apparatus. 3,727,342, 4-17-73, Cl. 43-17.000.
Lindsey, Richard V.: *See—*
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Lindsey, Richard W. Optical data processing system. 3,777,154, 12-4-73, Cl. 250-227.000.
Lindsey, Royce D.; and Smith, Larry G., to International Business Machines Corporation. Data flow in a machine log system. 3,753,239, 8-14-73, Cl. 340-172.500.
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Lindskog, Per Folke; Bengtsson, Anders Eric; Grek, Sven-Erik; and Lagerholm, Lennart Yngve, to Hoganas AB. Method of manufacturing low-alloy steel powder having a low content of oxidic constituents. 3,764,295, 10-9-73, Cl. 75-.5ba.
Lindsley, John Francis, to American Cyanamid Company. Strike incorporation of molecular sieves for fluid cracking catalysts. 3,753,929, 8-21-73, Cl. 252-451.000.
Lindsley, Thayer. Nuclear powered energy conversion system. 3,755,076, 8-28-73, Cl. 176-39.000.
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Lindstaedt, Horst Karl; and Webb, Edwin James, to Masson Scott Thrissell Engineering Limited. Curl corrector apparatus for operating on a continuous web. 3,779,138, 12-18-73, Cl. 93-1.00r.
Lindstedt, Charles I., Jr., to United States of America, Army. Security method and device. 3,732,830, 5-15-73, Cl. 109-36.000.
Lindstedt, Sven; Treiber, Laszlo; Frolunda, Vastra; Stollnberger, Peter; and Tausch, Walter, to Zeiss-Stiftung, Carl. Method of photometrically plotting light scattering objects. 3,746,869, 7-17-73, Cl. 250-218.000.
Lindstol, Anders, to Ecodyne Corporation, mesne. Self-backwashing filter apparatus. 3,709,362, 1-9-73, Cl. 210-108.000.
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Lindstrom, Bert A., to Elco Industries, Inc. Method of manufacturing a self-drilling and self-tapping fastener. 3,780,389, 12-25-73, Cl. 10-10.00r.
Lindstrom, Harold Richard: *See—*
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Lindstrom, Nils Folke Rune, to Boliden Aktiebolag. Elimination of floating slime during electrolytic refining of copper. 3,755,111, 8-28-73, Cl. 204-108.000.
Lindstrom, Olle B. Disposal of oil spill at sea. 3,749,667, 7-31-73, Cl. 210-36.000.
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Line Fast Corporation: *See—*
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Line, Lawrence L.: *See—*
Butler, Eugene B.; Fak, Ivan A.; and Line, Lawrence L., 3,778,332.
Linecker, Josef. Pneumatically supported structure. 3,751,862, 8-14-73, Cl. 52-2.000.
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Linemaster Switch Corporation, The: *See—*
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Linenfelser, Carl J., to Brooklyn Products, Inc. Aerodynamic toy. 3,710,505, 1-16-73, Cl. 46-74.00d.
Liner, Robert T., Jr.: *See—*
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Linfield, Robert F.; Farstad, Arnold J.; Allen, James W.; and Ball, Lawrence, to Westinghouse Electric Corporation. Communication system. 3,740,488, 6-19-73, Cl. 179-82.000.

Ling, Andrew T., to Xerox Corporation. Operating conditions monitoring in digital computers. 3,771,131, 11-6-73, Cl. 340-172.500.

Ling, Bernt: *See—*
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Ling, Bernt; and Persson, Anders, to Allmanna Svenska Elektriska Aktiebolaget. Means for determining the existence of an object within a predetermined range interval. 3,741,655, 6-26-73, Cl. 356-5.000.

Ling, Bernt; and Karlsson, Sven, to Allmanna Svenska Elektriska Aktiebolaget. Means for determining distance. 3,775,012, 11-27-73, Cl. 356-172.000.

Ling, Charles Che: *See—*
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Ling, Kingso Chingtsung, to Hooker Chemical Corporation. Process for producing methyl phosphine oxides. 3,732,316, 5-8-73, Cl. 260-606.50p.

Ling, Ting H.; Wade, Robert M.; and Solomon, Marwick H., to Anaconda Wire and Cable Company. Semiconducting composition and cable jacketed therewith. 3,735,025, 5-22-73, Cl. 174-120.0sc.

Lingenfelter, Robert C.; and Sabella, Andrew, to Westinghouse Electric Corporation. Tap changing apparatus with prevention of floating tapped winding. 3,764,891, 10-9-73, Cl. 323-43.50r.

Lingens, Paul; and Martin, Gerhard, to Dynamit Nobel Aktiengesellschaft. Effect of the shock pressure of explosive charges. 3,777,662, 12-11-73, Cl. 102-23.000.

Linger, Harrison K. Artist's tool and brush receptacle and conditioner. 3,776,371, 12-4-73, Cl. 206-1.700.

Lingert, Ralph E.: *See—*
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Lingg, Gerhard; Gottstein, Norbert; and Rostock, Joachim, to Mannesmann Aktiengesellschaft. System for distributing pieces of load such as baggage, parcels etc. 3,735,853, 5-29-73, Cl. 198-20.000.

Lingg, Gerhard, to Mannesmann Aktiengesellschaft. Conveyor track for pallets. 3,756,436, 9-4-73, Cl. 214-41.000.

Lingg, Gerhard; and Hellermann, Eberhard, to Mannesmann Aktiengesellschaft. Conveyor system with pallets, preferably for airport baggage handling. 3,776,395, 12-4-73, Cl. 214-6.0ba.

Lingl, Hans, Jr., to Lingl-Bell Corporation. Machine for unloading and blending layered stacks of bricks of similar articles. 3,717,264, 2-20-73, Cl. 214-8.50c.

Lingl-Bell Corporation: *See—*
Lingl, Hans, Jr., 3,717,264.

Lingle, Cleo M. Cooler door for use in an offset door opening. 3,768,206, 10-30-73, Cl. 49-486.000.

Lingley, Ronald, to Robertson Seals, Inc. Mechanical shaft seal. 3,749,412, 7-31-73, Cl. 277-81.00r.

Lingrand, Michel: *See—*
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Linhardt Hans D.; Kirk, James A.; and Lancaster, Raymond E., to Airco, Inc. Integrated system for vaporizing cryogenic liquids. 3,770,048, 11-6-73, Cl. 165-1.000.

Linhart, Heinz: *See—*
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Linick, Richard. Treatment apparatus for the eye and orbit area. 3,768,485, 10-30-73, Cl. 128-402.000.

Link, Edwin A. Under-ground vented non-metallic transformer assembly. 3,710,002, 1-9-73, Cl. 174-18.000.

Link, Edwin A., to RTE Corporation. Shielded high voltage connector. 3,753,203, 8-14-73, Cl. 339-41.00r.

Link, Edwin A., to RTE Corporation. Self contained interrupting apparatus for an electric power distribution system. 3,755,714, 8-28-73, Cl. 317-29.00r.

Link, Edwin A., to RTE Corporation. Fluid fuse. 3,771,089, 11-6-73, Cl. 337-277.000.

Link, Gustav A. Automatic timing of watering control systems. 3,780,766, 12-25-73, Cl. 137-624.200.

Link, Helmut, to Index-Werke KG Hahn & Tessky. Hydraulically operated friction clutch. 3,750,787, 8-7-73, Cl. 192-85.0ab.

Link, Manfred, to Triumph Werke Nuernberg A.G. Typewriter escapement and control devices therefor. 3,752,289, 8-14-73, Cl. 197-82.000.

Link, Manfred, to Triumph Werke Nuernberg A.G. Carriage return and line space mechanism. 3,759,361, 9-18-73, Cl. 197-65.000.

Link, Martin, to Johnson & Johnson. Peelable surgical package. 3,724,651, 4-3-73, Cl. 206-56.0aa.

Link, Ottmar: *See—*
Lesk, Adolf; and Link, Ottmar, 3,773,221.

Link, Waldemar. Artificial limb for the knee joint. 3,715,763, 2-13-73, Cl. 3-1.000.

Link, William T.; and Hatch, Laurie G., to Applied Radiation Corporation. Method and apparatus for irradiation treatment of elongate materials. 3,714,416, 1-30-73, Cl. 250-49.5te.

Link, William T., to Andros Incorporated. Fluorescent source nondispersive infrared gas analyzer. 3,725,701, 4-3-73, Cl. 250-43.500.

Link, William T.; and Portner, Peer M., to Arkon Scientific Laboratories. Solenoid actuators and generators and method of using same. 3,778,697, 12-11-73, Cl. 322-3.000.

Linka, Adolf, to Fouquet-Werk Frauz & Planck. Apparatus forming sheds in looms having continuously progressing sheds. 3,749,135, 7-31-73, Cl. 139-13.000.

Linke, Horst; and Beyer, Herbert, to Gewerkschaft Eisenhutte Westfalia. Conveyor guiding and anchoring props for mining installations. 3,726,097, 4-10-73, Cl. 61-45.00d.

Linke, Horst; Karsten, Werner; and Albrecht, Helmut, to Gewerkschaft Eisenhutte Westfalia. Mining apparatus. 3,739,587, 6-19-73, Cl. 61-45.00d.

Linke, Siegfried. Four-track magnetic head for tape recording devices. 3,763,329, 10-2-73, Cl. 179-100.20c.

Linke, Werner: *See—*
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Linke, Wolfgang Gerd, to Gillette Company, The. Cap. 3,768,688, 10-30-73, Cl. 220-23.000.

Linkel, John E.: *See—*
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Linker Machines, Inc.: *See—*
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Linkewich, Alexander. Fire bombing method and apparatus. 3,754,601, 8-28-73, Cl. 169-1.00a.

Linkletter, Robert P. Safety closure cap. 3,738,523, 6-12-73, Cl. 215-9.000.

Linkoping, Paul Edholm; and Jacobson, Nils Bertil, to Midinova AB. Exposure compensating device for radiographic apparatus. 3,755,672, 8-28-73, Cl. 250-650.00r.

Linkow, Leonard I.; Weiss, Charles M.; Weiss, Lillian Bishop; and Liwerant, Abram, to Oratronics, Inc. Oral implant. 3,729,825, 5-1-73, Cl. 32-10.00a.

Linkroum, Irving E.: *See—*
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Phinney, Earl M.; and Linkroum, Irving E., 3,721,886.

Linkroum, Irving E., to Bendix Corporation, The. Three electrode spark gap apparatus. 3,715,614, 2-6-73, Cl. 313-183.000.

Links, Heinz, to Bosch, Robert, GmbH. Control device for hydraulically operated tappet valves of internal combustion engines. 3,727,595, 4-17-73, Cl. 123-90.120.

Linkus, Joseph A., to Warner & Swasey Company, The. Unloader assembly. 3,747,920, 7-24-73, Cl. 271-85.000.

Linkus, Joseph Anthony: *See—*
Dietrick, Eugene Lewis; and Linkus, Joseph Anthony, 3,733,944.

Linley, Francis M., Jr. Ultra-accurate gauging apparatus. 3,750,297, 8-7-73, Cl. 33-174.001.

Linn, Bruce O.: *See—*
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Linn, Richard L., to Underwriters Safety Device Co. Connector for high amperage applications. 3,725,851, 4-3-73, Cl. 339-198.00n.

Linn, Richard L.; and Shea, Gerald J., to Underwriters Safety Device Co. Connector for high amperage applications. 3,732,530, 5-8-73, Cl. 339-198.00n.

Linn, Stephen; and Bardsley, Robert F., to General Foods Corporation. Apparatus for agglomeration. 3,729,327, 4-24-73, Cl. 99-467.000.

Linn, Wallace L.; and Voland, Elmo W., to Mallory, P. R., & Co., Inc. Periodic switch with deflectable kinetic energy storage cam operator and attached microswitch ramp. 3,710,043, 1-9-73, Cl. 200-31.00r.

Linn, Wallace L., to Mallory, P. R., & Co., Inc. Means for aiding fuel atomization. 3,711,257, 1-16-73, Cl. 48-180.00r.

Linn, Wallace L.; Kilmer, Bill G.; and Weber, Richard H., to Mallory, P. R., & Co., Inc. Drive arrangement including a synchronous motor. 3,735,164, 5-22-73, Cl. 310-41.000.

Linnenbank, Charles D., to Baldt Corporation. Anchor. 3,774,569, 11-27-73, Cl. 114-208.00r.

Linner, Leslie Richard, to Honeywell Inc. Radiation detector. 3,781,563, 12-25-73, Cl. 250-362.000.

Linnerooth, John D.; and Rosen, Erhardt W., to International Business Machines Corporation. Test bit pattern generator for pattern recognition machines. 3,713,097, 1-23-73, Cl. 340-146.3ed.

Linnett, David T. Multi-component refrigerant for the liquefaction of natural gas. 3,729,945, 5-1-73, Cl. 62-40.000.





Linokvist, Erik Allan. Devices for evacuation of impurities forming in welding processes. 3,775,587, 11-27-73, Cl. 219-130.000.

Linoli, Gianni; and Mannucci, Enzo Sergio, to Miles Laboratories, Inc. Insoluble polymeric diazonium salt chromogen. 3,715,325, 2-6-73, Cl. 260-2.20r.

Linotype, G.m.b.H.: *See—*
Knoll, Alois; Mattern, Dietrich; and Volcker, Hans-Werner, 3,766,838.

Linotype-Paul Limited: *See—*
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Lins, Stanley J.; and Hanson, David G., to Sperry Rand Corporation. Magnetoresistive keyboard. 3,768,095, 10-23-73, Cl. 340-365.001.

Linsay, Michael: *See—*
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Linschitz, Henry: *See—*
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Linse, Richard C.: *See—*
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Linsig, Andre, to UNELEC. Device for detecting the thermal overloads of a rotating member. 3,738,175, 6-12-73, Cl. 73-362.0cp.

Linskey, John R. Smoker's pipe. 3,779,254, 12-18-73, Cl. 131-198.00r.

Linsmeier, Howard T. Harvesting machine equipped with stone guard. 3,766,721, 10-23-73, Cl. 56-10.300.

Linstead, Robert S., to King-Sceley Thermos Co. Barbecue grill assembly. 3,714,937, 2-6-73, Cl. 126-25.00r.

Linstromberg, William J.: *See—*
Nichols, Duane C.; and Linstromberg, William J., 3,771,319.

Linstromberg, William J.; and Nichols, Duane C., to Whirlpool Corporation. Drive motor-defrost timer for refrigerator. 3,714,794, 2-6-73, Cl. 62-137.000.

Linstromberg, William J., to Whirlpool Corporation. Twist tray ice maker with removable tray. 3,727,428, 4-17-73, Cl. 62-300.000.

Linstromberg, William J., to Whirlpool Corporation. Adjustable weight control for a domestic ice maker. 3,736,766, 6-5-73, Cl. 62-137.000.

Linstromberg, William J.; and Nichols, Duane C., to Whirlpool Corporation. Refrigerator or the like with externally mounted water valve. 3,775,994, 12-4-73, Cl. 62-177.000.

Linteris, Lino L., to Lever Brothers Company. Milk-free margarine. 3,721,570, 3-20-73, Cl. 99-123.000.

Linthicum, Harley E.: *See—*
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Linthicum, Harley E.; Linthicum, William A.; and Bronne, William B., to Carrier Corporation. Tool chuck. 3,767,218, 10-23-73, Cl. 279-75.000.

Linthicum, William A.: *See—*
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Linton, Denton C.: *See—*
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Linton, Richard H.: *See—*
Donofrio, Nicholas M.; and Linton, Richard H., 3,718,826.

Linton, Richard H.; and Sonoda, George, to International Business Machines Corporation. Data regeneration scheme for stored charge storage cell. 3,713,114, 1-23-73, Cl. 340-173.00r.

Linton, Robert W.: *See—*
Miller, James R.; Pierce, Richard H.; Linton, Robert W.; and Wills, John H., 3,714,068.

Linton, Walter Lindsay: *See—*
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Lintvedt, Vernon L.: *See—*
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Linville, Creath W. Connector. 3,760,468, 9-25-73, Cl. 24-261.00c.

Linville, Roy Norman: *See—*
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Linz, Albert, to Bopparder Maschinenbaugesellschaft mbH. Vibration tamper. 3,756,735, 9-4-73, Cl. 404-133.000.

Linz, Georg; and Sommer, Lothar. Ball-point pens. 3,781,123, 12-25-73, Cl. 401-216.000.

Linz, Hans: *See—*
Martin, Horst G.; Glutz, Bernhard; and Linz, Hans, 3,715,421.

Linzmeier, Leonard J.; and Kowing, Loren D. Apparatus for fabricating wall panels and the like for buildings. 3,735,464, 5-29-73, Cl. 29-200.00a.

Lion Fat & Oil Co., Ltd.: *See—*
Nagayama, Masuzo; and Okada, Hiroshi, 3,714,238.
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Tomiyama, Shinichi; Susuki, Rinnosuke; Hoshi, Hiroshi; Saito, Jiro; Goto, Hiro; Umehara, Kenji; and Murakami, Keiichi, 3,739,060.
Yamane, Izumi; Nagayama, Masuzo; and Takai, Makoto, 3,741,909.
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Lion Hamigaki Kabushiki Kaisha: *See—*
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Lionello, Marini. Apparatus for acting of and reshaping the damaged bodywork of automobile vehicles. 3,776,022, 12-4-73, Cl. 72-455.000.

Liong Ho, Joseph Ping: *See—*
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Lions, Noel, to Commissariat a l'Energie Atomique. Device for remote positioning of thermocouples in a nuclear reactor. 3,716,450, 2-13-73, Cl. 176-19.00r.

Lionweld Limited: *See—*
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Liotta, Domingo S.: *See—*
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Liotta, Lance A. Method and device for determining the concentration of a material in a liquid. 3,723,064, 3-27-73, Cl. 23-230.00r.

Liou, Shu-Lien, to Chuang, Chin-Chih. Fire escape apparatus. 3,754,621, 8-28-73, Cl. 182-49.000.

Liou, Weg-Yuan, to Vaclovas Plioplys. Automated sack opening and feeding apparatus. 3,740,922, 6-26-73, Cl. 53-188.000.

Lipchik, Harold; and Racicot, Ernest G., to Halco Industries, Inc. Eyeglasses frame construction. 3,758,203, 9-11-73, Cl. 351-98.000.

Lipchutz, Paul, to Societe d'Exploitation des Brevets Neiman S.A. Safety lock. 3,722,242, 3-27-73, Cl. 70-364.00a.

Lipcon, Jesse B.; and Horn, James N., to Industrial Nucleonics Corporation. Cigarette dense end monitoring and controlling apparatus. 3,742,795, 7-3-73, Cl. 83-13.000.

Lipe, Gordon C. Attachment for hand drills. 3,746,460, 7-17-73, Cl. 408-112.000.

Lipe-Rollway Corporation: *See—*
Bush, Carl D.; and Root, Robert S., 3,749,217.
Lanphere, Gerald B.; Bart, Seymour H.; and Armstrong, Jack W., 3,710,922.
Mead, Dennis E., 3,754,638.

Lipfert, Donald E., to General Foods Corporation. Disposable cook-in package for frozen food products. 3,717,478, 2-20-73, Cl. 99-192.00r.

Lipha Lyonnaise Industrielle Pharmaceutique: *See—*
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Boschetti, Eugene; Molho, Darius; and Fontaine, Louis, 3,764,693.

Lipinski, Johann, to Friedmann, Alex. Apparatus for regulating the depth of penetration of a plough. 3,731,744, 5-8-73, Cl. 172-7.000.

Lipinsky, Frederick C. Conveyance for transporting objects with protruding legs. 3,712,638, 1-23-73, Cl. 280-79.100.

Lipkin, Martin. Concealed pneumatic safety system. 3,778,085, 12-11-73, Cl. 280-150.0ab.

Lipoma, Phillip C.: *See—*
United States of America, National Aeronautics and Space Administration, 3,778,786.

Lipoma, Samuel P. Apparatus for continuous electromagnetic sterilization. 3,718,082, 2-27-73, Cl. 99-470.000.

Lipow, Joseph H. Earth anchor. 3,754,401, 8-28-73, Cl. 61-39.000.

Lipowski, Stanley A.; and Miskel, John J., Jr., to Diamond Shamrock Corporation. Quaternized oligomers based on ureas, guanidine and guanylurea. 3,734,889, 5-22-73, Cl. 260-77.50c.

Lipp, James, to International Business Machines Corporation. Method of making an electro-optic switch. 3,709,586, 1-9-73, Cl. 350-320.000.

Lipp, James P., to General Electric Company. High density data recording and error tolerant data reproducing system. 3,713,123, 1-23-73, Cl. 340-174.10g.

Lippacher, Wolfgang: *See—*
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Lippe, Robert J.: *See—*
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Lippel, Bernard, to United States of America, Army. Ordered dither system. 3,739,082, 6-12-73, Cl. 178-6.000.

Lippens, Bernardus Cornelis: *See—*
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Lipper, Kurt; and Lipper, Uri Chaim. Oil burner system. 3,732,057, 5-8-73, Cl. 431-19.000.





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Lippi, Dominic M. Adjustable mounting bracket for fowl cage mounted watering cups. 3,707,949, 1-2-73, Cl. 119-18.000.
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Lippke, Paul. Apparatus for ascertaining and evaluating the transverse profile of the moisture content of moved webs of paper and the like. 3,713,966, 1-30-73, Cl. 162-263.000.
Lippman, Robert L.; and Sunderland, John C., to Capintec, Inc. Radiation indicator. 3,748,476, 7-24-73, Cl. 250-388.000.
Lippmann, Hans-Joachim; and Schenk, Horst, to Siemens Aktiengesellschaft. Method of manufacture of short-circuit rings. 3,733,688, 5-22-73, Cl. 29-523.000.
Lippmann, Henry E.: *See—*
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Lippmann, Jean Pierre, to Creusot-Loire. Method and apparatus for controlling the degree of preparation of raw material for cement. 3,761,582, 9-25-73, Cl. 423-659.000.
Lippmann, Wilbur, to Ayerst, McKenna and Harrison Limited. Method of treating hyperchlorhydria and/or associated conditions. 3,773,944, 11-20-73, Cl. 424-285.000.
Lippy Can Co., Ltd.: *See—*
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Lipschutz, Paul, to Societe d'Exploitation des Brevets Neiman S.A. Safety belts with deceleration release control. 3,713,506, 1-30-73, Cl. 180-82.000.
Lipschutz, Paul, to Societe d'Exploitation des Brevets Neiman S.A. Electric switch assembly and combination thereof with safety locks. 3,742,161, 6-26-73, Cl. 200-44.000.
Lipschutz, Paul, to Societe d'Exploitation des Brevets Neiman S.A. Electric rotary switch. 3,757,062, 9-4-73, Cl. 200-44.000.
Lipschutz, Paul, to Societe d'Exploitation des Brevets Neiman S.A. Protecting device for an access orifice to a tank. 3,759,075, 9-18-73, Cl. 70-159.000.
Lipschutz, Paul, to Societe d'Exploitation des Brevets Neiman S.A. Tumbler plate lock. 3,777,521, 12-11-73, Cl. 70-364.00r.
Lipscomb, Marion M. Toy race track. 3,744,795, 7-10-73, Cl. 273-86.00b.
Lipscomb, Walter Peter; and Shelburne, Eli Bently, Sr., to Allied Chemical Corporation. Apparatus for splaying and depositing nonwoven filamentary structures. 3,734,803, 5-22-73, Cl. 156-441.000.
Lipscomb, Walter Peter; and Turner, Garland Linwood, to Allied Chemical Corporation. Two-planar deflector for dispersing and depositing nonwoven filamentary structures. 3,736,211, 5-29-73, Cl. 156-441.000.
Lipscomb, Walter Peter; and Turner, Garland Linwood, to Allied Chemical Corporation. Foraminal apparatus for splaying and depositing nonwoven filamentary structures. 3,738,894, 6-12-73, Cl. 156-441.000.
Lipscomb, Walter Peter; and Turner, Garland L., to Allied Chemical Corporation. Process and apparatus for production of a nonwoven web. 3,776,796, 12-4-73, Cl. 156-181.000.
Lipscomb, William T.: *See—*
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Lipscombe, John Alfred, to Walton Engineering Company, Limited. Valves. 3,763,892, 10-9-73, Cl. 137-625.470.
Lipsey, Elmer M.; and Swagerty, Arnold, to A-T-O Inc. Loran-C receiver. 3,736,590, 5-29-73, Cl. 343-103.000.
Lipshaw, Julius. Automatic tissue processor. 3,762,362, 10-2-73, Cl. 118-5.000.
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Lipsicas, Max; and Mattis, Daniel C., to Yeshiva University. Polyconducting device and applications therefor. 3,731,249, 5-1-73, Cl. 338-325.000.
Lipskin, Ronald I. Remote controlled switching and indicator device. 3,719,828, 3-6-73, Cl. 307-115.000.
Lipsky, Philip: *See—*
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Lipsky, Seymour R.: *See—*
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Lipson, Herbert G.; and Spada, Bartholomew J. Glide assembly. 3,744,487, 7-10-73, Cl. 128-83.500.
Lipson, Menzie: *See—*
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Lisiecki, Robert E., to Ex-Cell-O Corporation. Aseptic packaging machine. 3,723,060, 3-27-73, Cl. 21-91.000.
Lisinski, Joseph Edmund, to International Business Machines Corporation. Magnetic mechanical amplifier. 3,754,199, 8-21-73, Cl. 335-275.000.
Lisitsyn, Konstantin Mikhailovich: *See—*
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Liska, John W.; and Beckman, Joseph A., to Firestone Tire & Rubber Company, The. Reinforced by scrap rubber char. 3,772,242, 11-13-73, Cl. 260-41.50r.
Liska, Manfred: *See—*
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Lisle, Lorraine, to Dolphis Industries Pty. Ltd. Treatment device. 3,774,617, 11-27-73, Cl. 128-402.000.
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Liss, Donald H.; and Geiger, Gilbert W., to Textron, Inc. Ball-bearing retainer. 3,749,461, 7-31-73, Cl. 308-201.000.
Lissalde, Henri Robert, to Papeteries Navarde. Production of a fibrous web between an endless belt and an endless permeable belt. 3,729,374, 4-24-73, Cl. 162-203.000.
Lissant, Kenneth J., to Petrolite Corporation. Process of cleaning wells with carbon disulfide emulsions. 3,732,166, 5-8-73, Cl. 166-304.000.
Lissarrague, Maurice, to Boussois Souchon Neuvesel. Opening with sliding leaf and especially a glazed opening. 3,750,338, 8-7-73, Cl. 49-413.000.
Lissberger, Paul Hans, to Plessey Handel und Investments A.G. Direction-sensitive projection systems for light-diffraction gratings. 3,730,610, 5-1-73, Cl. 350-162.0sf.
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List, Ferdinand; Dodt, Johann; and Alfs, Helmut, to Chemische Werke Huls Aktiengesellschaft. Process for the preparation of o-phthalic acid. 3,721,708, 3-20-73, Cl. 260-524.00r.
List, Hans: *See—*
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List, Hans. Discrete article separating and dispensing apparatus, particularly for measured counts of pills, capsules and the like. 3,722,740, 3-27-73, Cl. 221-7.000.
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Liston, Carol A.: *See—*
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Liston, Max D., to Abbott Laboratories. Digital chemical analysis apparatus. 3,748,044, 7-24-73, Cl. 356-180.000.
Liston, Max David. Single path, dual source radiant energy analyzer. 3,745,349, 7-10-73, Cl. 250-218.000.
Liston, Paul. Board game apparatus comprising play programming means. 3,709,498, 1-9-73, Cl. 273-131.0ab.
Liston, Thomas V.: *See—*
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Litchfield, Mason R., to B & L Machine Company, Incorporated. Pressure balanced connection. 3,762,438, 10-2-73, Cl. 137-515.500.
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Litchford, George B., to Litchstreet Co. Common azimuth sector indicating system. 3,735,408, 5-22-73, Cl. 343-112.0ca.
Litchford, George B. Aircraft instrument landing system. 3,757,337, 9-4-73, Cl. 343-106.00r.
Litchford, George Barrett, to Litchstreet Co. Proximity indication with range and bearing measurements. 3,757,324, 9-4-73, Cl. 343-6.50r.
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Litke, Alvin Carl, to Allied Chemical Corporation. Water-soluble benzothiazolylphenylazo-barbituric acid dyestuffs. 3,726,851, 4-10-73, Cl. 260-154.000.
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Litt, Donald; Jaroff, David; and Shamir, Amos, to Techmation Corporation. Disposable diaper. 3,731,688, 5-8-73, Cl. 128-287.000.
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Little, Carl H., to Weber-Knapp Company. Lid counterbalance mechanism. 3,766,600, 10-23-73, Cl. 16-190.000.
Little, Carl H., to Weber-Knapp Company. Cover mounting hinge and counter balance mechanism and method of mounting same. 3,771,194, 11-13-73, Cl. 16-190.000.
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Livingston, William L., to Factory Mutual Research Corporation. Self-extinguishing flammable mixtures. 3,728,258, 4-17-73, Cl. 252-8.100.
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Ljung, Hans Glorg; Barrner, Dan Johannes; and Grellsson, Karl Gustav, to Aktiebolaget Electrolux. Vacuum cleaner having signal for indicating absence of dust bag. 3,745,965, 7-17-73, Cl. 116-112.000.
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Llacer, Jorge; and Kraner, Hobart W., to United States of America, Atomic Energy Commission. Method of improving high-purity germanium radiation detectors. 3,781,612, 12-25-73, Cl. 317-234.00r.
Llames, Emil C. Automatic water closet. 3,769,637, 11-6-73, Cl. 4-64.000.
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Lloyd, Gerald A., to Jaybee Manufacturing Corporation. Self-latching hinge. 3,728,757, 4-24-73, Cl. 16-142.000.
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Lloyd, Kenneth R. Fishing lead. 3,714,730, 2-6-73, Cl. 43-17.200.
Lloyd, Lester John, to Decision Consultants. Document scanner. 3,752,558, 8-14-73, Cl. 350-6.000.
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Lloyd, Richard E.; and Wallgren, Linus E., to Pace, Incorporated. Electrical connector. 3,715,708, 2-6-73, Cl. 339-177.00e.
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Lloyd, William E.; Fuller, William J.; Fuller, William S.; and Hazen, William R., to Aqua Fem, Inc. Power aerated douche. 3,762,411, 10-2-73, Cl. 128-230.000.
Lloyd, William J., to Hewlett-Packard Company. Moving coil motor. 3,745,386, 7-10-73, Cl. 310-13.000.
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Lobunez, Walter, to FMC Corporation. Production of methyl chloroform from ethylene and chlorine. 3,776,969, 12-4-73, Cl. 260-668.00r.
Lobur, Walter, to Electronic Removal of Metals, Inc. Servomechanism feed system. 3,721,795, 3-20-73, Cl. 219-69.00g.
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LoCascio, Jack J.; and Astor, Edward, to International Playtex Corporation. Brassiere. 3,746,008, 7-17-73, Cl. 128-498.000.
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Lochridge, Joe C., to Brown & Root, Inc. Pipeline laying operations with diverse penetration angles. 3,728,865, 4-24-73, Cl. 61-72.300.
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Lofquist, Robert Alden, to Allied Chemical Corporation. Esterification of terephthalic acid with an alkylene glycol in the presence of an alkaline salt of a glycine compound. 3,734,892, 5-22-73, Cl. 260-75.00r.
Lofredo, Anthony; and Goldschmidt, David H., to Airco, Inc. Process for recovery and containment of radioactive gases. 3,748,864, 7-31-73, Cl. 62-22.000.
Lofredo, Antony; and Biava, Domenick R., to Airco, Inc., mesne. Liquefaction of natural gas with product used as absorber purge. 3,780,534, 12-25-73, Cl. 62-28.000.
Loft, Arne: *See*—
Johnson, Daniel; and Loft, Arne, 3,753,128.
Loft, John T.; McTaggart, John A.; and Plovan, Steven G., to Celanese Corporation. Sterilizable packages and desiccant and fumigant packages of open cell microporous film. 3,745,057, 7-10-73, Cl. 161-159.000.
Loftfield, Richard E., to Diamond Shamrock Corporation. Electrolytic cell for the manufacture of oxyhalogens. 3,779,889, 12-18-73, Cl. 204-268.000.
Loftin, William E. Apparatus for coping a wall. 3,776,501, 12-4-73, Cl. 249-2.000.
Loftis, James B.: *See*—
Moody, David L.; Loftis, James B.; and Boyle, James E., 3,766,996.
Loftis, James B.; Moody, David L.; and Phillips, James H., to Robbins Machinery Company. Apparatus for settling drill dust. 3,716,108, 2-13-73, Cl. 175-205.000.
Lofton, John T.: *See*—
Harper, Robert J., Jr.; Blanchard, Eugene J.; Lofton, John T.; and Gautreaux, Gloria A., 3,775,046.
Loftus Engineering Corporation: *See*—
Suydam, Walter, 3,749,550.
Loftus, Peter J., to Alcotronics Corporation. Inertia type switch with coaxial conductive springs. 3,731,022, 5-1-73, Cl. 200-61.490.
Log Etronics Inc.: *See*—
McIntosh, Walter L.; and Schmidt, Dale M., 3,734,630.
Logan, Arthur D.: *See*—
Duckett, John C.; Ensley, Rufus Neal; Williams, Leland E.; and Logan, Arthur D., 3,739,675.
Logan Co.: *See*—
Hilger, Edwin T.; and Miller, James S., 3,746,148.
Logan, David J.; and Gerber, Heinz Joseph, to Gerber Scientific Instrument Company, The. Method and apparatus for translating an article and a tool relative to one another. 3,752,098, 8-14-73, Cl. 112-121.120.
Logan, J. Robert, to Litton Systems, Inc. Apparatus for multiplying binary signals based on the Binomial Theorem. 3,749,898, 7-31-73, Cl. 235-164.000.
Logan, John F.: *See*—
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Logan, John S.: *See*—
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Colovas, Denny D.; Logan, John S.; and Skruch, Richard R., 3,730,583.
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Logan, John W.: *See*—
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Logan, Jonathan: *See*—
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Logan, Joseph S.: *See*—
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Logan, Lewis J.; and Sandoval, Dante J., to Tru-Fit Products Corporation. Stud welding apparatus. 3,723,698, 3-27-73, Cl. 219-98.000.
Logan, Lloyd L. Longitudinally adjustable trailer kingpin with hydraulic lock. 3,770,296, 11-6-73, Cl. 280-407.000.
Logan, Lloyd M.: *See*—
Hunt, Graham R.; and Logan, Lloyd M., 3,765,779.
Logan, Malcolm. Beverage brewing apparatus. 3,721,176, 3-20-73, Cl. 99-280.000.
Logan, Ralph Andre: *See*—
Leheny, Robert Francis; Logan, Ralph Andre; Nahory, Robert Edward; and Shaklee, Kerry Lee, 3,761,837.
Logan, Ralph W.: *See*—
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Logemann, George H.; and Voelz, Gerhardt G., Jr., to EKCO Products, Inc. Container closure apparatus. 3,712,021, 1-23-73, Cl. 53-329.000.
Logemann, Heino: *See*—
Suling, Carlhans; and Logemann, Heino, 3,729,531.
Suling, Carlhans; and Logemann, Heino, 3,732,339.
Logemann, Heino, to Bayer Aktiengesellschaft. Containing a polymer of vinyl methyl formamide. 3,718,717, 2-27-73, Cl. 260-898.000.
Logemann, Heino; and Bruckmann, Paul-Gunther, to Bayer Aktiengesellschaft. Production of dental prostheses. 3,758,642, 9-11-73, Cl. 260-885.000.
Logemann, Johan D.: *See*—
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Lauria, Francesco; Vecchietti, Vittorio; and Logemann, Willy, 3,708,482.
Logerquist, John R. Truck for tool box. 3,711,110, 1-16-73, Cl. 280-43.240.
Logetronics Inc.: *See*—
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Logging Development Corporation: *See*—
Hamilton, Douglas D.; Boivin, Joseph J. R.; and Benedetto, Domenico, 3,763,905.
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Basse, Philip; and Sposato, Frank J., 3,710,274.
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Loginov, Vladimir Ivanovich: *See*—
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Logsdon, Hillard Glenn; and Werder, Ernest August, to Aeronca, Inc. Apparatus for determining fluid flow in a conduit. 3,759,098, 9-18-73, Cl. 73-205.00r.
Logue, George E. Combined loader bucket and fines separator. 3,765,490, 10-16-73, Cl. 171-132.000.
Logue, James A., to Owens-Illinois, Inc. Television bulb with improved strength. 3,720,345, 3-13-73, Cl. 220-2.10a.
Logue, Leland H. Method and means for froth flotation concentration utilizing an aerator having a venturi passage. 3,722,679, 3-27-73, Cl. 209-164.000.
Logue, Russell F.; and Kolath, William. Car key holder. 3,744,281, 7-10-73, Cl. 70-58.000.
Logvinenko, Dmitry Danilovich; Chugai, Alexei Dmitrievich; Tsantker, Karl Lazarevich; Chechik, Ljudmila Efimovna; Shelyakov, Oleg Parfirovich; Belonozhko, Alla Mikhailovna; Morozko, Ekaterina Alexandrovna; and Kuzmina, Ljudmila Nikolaevna. Method for prepaing liquid mixtures in manufacture of latex articles. 3,774,885, 11-27-73, Cl. 259-1.00r.
Logvist, Kaj Ragnar, to Fagersta Bruks Aktiebolag. Composite wheel. 3,772,749, 11-20-73, Cl. 29-130.000.
Loh, Jack C.; and Lu, Chih-Shun, to Inficon Inc. Solid state sensor. 3,751,968, 8-14-73, Cl. 73-23.000.
Lohbauer, Kenneth R.: *See*—
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Bianchetta, Donald L.; and Lohbauer, Kenneth R., 3,771,564.
Bridwell, John W.; and Lohbauer, Kenneth R., 3,774,707.
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Cryder, John R.; Erickson, Rodney R.; Lohbauer, Kenneth R.; and Scheidt, James E., 3,771,310.
Lohbauer, Kenneth R., to Caterpillar Tractor Company. High pressure relief valve. 3,710,824, 1-16-73, Cl. 137-596.000.
Lohberg, Peter; Katte, Hans Jorgen; and Blieske, Herbert, to Braun Aktiengesellschaft. Circuit arrangement for producing a high voltage pulse. 3,736,464, 5-29-73, Cl. 315-209.00t.
Lohberg, Peter, to Braun Aktiengesellschaft. Circuit arrangement for producing a high voltage spark. 3,751,713, 8-7-73, Cl. 315-209.00t.
Lohberg, Peter, to Braun Aktiengesellschaft. Circuit arrangement for producing a high voltage spark. 3,758,820, 9-11-73, Cl. 315-209.00t.
Lohe, Konrad: *See*—
Mundlos, Eberhard; Mohr, Reinhard; and Lohe, Konrad, 3,713,770.
Lohest, Hans, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Textile machines with uniform deceleration of its drive motors. 3,738,095, 6-12-73, Cl. 57-100.000.
Lohikoski, Timo J. J.; Rantanen, Mauri V.; and Hocksell, Heimo H., to Outokumpu Oy. Apparatus for upward casting. 3,746,077, 7-17-73, Cl. 164-281.000.
Lohkamp, Carl W., to United States of America, Navy. Near infrared illuminating composition. 3,733,223, 5-15-73, Cl. 149-19.000.
Lohkamp, Carl W., to United States of America, Navy. Illuminating round having dual range capability. 3,750,574, 8-7-73, Cl. 102-34.100.
Lohman, John H., to Alamo Iron Works. Jig for setting resistance stops in a rotary bending machine. 3,777,527, 12-11-73, Cl. 72-36.000.
Lohman, Klaus: *See*—
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Lohmann & Stolterfoht Aktiengesellschaft: *See*—
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Lohmer, Karl, to Agfa-Gevaert Aktiengesellschaft. Polymeric acid containing gelatin interlayer for color photographic film. 3,765,893, 10-16-73, Cl. 96-74.000.
Lohmer, Karl; and Verburg, Werner, to Agfa-Gevaert Aktiengesellschaft. Photographic material of emulsions of different gamma and sensitivity. 3,776,733, 12-4-73, Cl. 96-68.000.
Lohne, William E.; Montgomery, John R.; Carley, Jay L.; Darling, Richard; and Smith-Vaniz, William R., to American Cyanamid Company. Method and apparatus for automatically retrieving information from a succession of luminescent coded documents with means fr segregating documents. 3,760,161, 9-18-73, Cl. 235-61.11e.
Lohneis, Earl R.: *See*—
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Lohneis, Earl R., to Kearney & Trecker Corporation. Clamping tool changer mechanism and actuating mechanism for a machine tool. 3,760,958, 9-25-73, Cl. 214-1.0bd.
Lohninger, Wilhelm J.; and Matt, Joseph J., to United States of America, Army. Density integrating fuze head. 3,726,228, 4-10-73, Cl. 102-73.00r.
Lohnstein, Burton, to United States of America, Army. Compartmented bag for automatic loading. 3,771,459, 11-13-73, Cl. 102-97.000.
Lohoff, Virgil Allan, to Memorex Corporation. Magnetic coating composition. 3,781,210, 12-25-73, Cl. 252-62.540.
Lohoff, Virgil Allan, to Memorex Corporation. Magnetic coating composition. 3,781,211, 12-25-73, Cl. 252-62.540.
Lohr, Ernest F.: *See*—
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Lohr, Herb R.; and Magos, Toby, Jr., to Akron Standard; division of Eagle-Picher, Industries, Inc. Building drum. 3,779,835, 12-18-73, Cl. 156-417.000.
Lohr, James E., to Du Pont de Nemours, E. I., and Company. Primer composition containing epoxide resins, phenol formaldehyde resin, tetraalkyl silicates, and silane coupling agents. 3,780,132, 12-18-73, Cl. 260-831.000.
Lohr, Manfred, to Hoesch Aktiengesellschaft. Hydro-pneumatic spring. 3,720,405, 3-13-73, Cl. 267-64.000.
Lohr, Manfred, to Hoesch Aktiengesellschaft. Hydropneumatic shock absorbing arrangement for automotive vehicles or the like. 3,734,478, 5-22-73, Cl. 267-34.000.
Lohr, Raymond J.: *See*—
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Lohr, Raymond J.; and Cook, Calvin S., to Marx, Louis, & Co., Inc. Occupant-propelled vehicle. 3,718,344, 2-27-73, Cl. 280-261.000.
Lohr, Raymond J., to Marx, Louis, & Co., Inc. Shuffleboard type of game with steps and sliding gamepieces. 3,767,200, 10-23-73, Cl. 273-126.000.
Lohr, Raymond J.; Smith, James; and Bennett, Lowell L., to Marx, Louis, & Co., Inc., mesne. Roller coaster. 3,780,665, 12-25-73, Cl. 104-69.000.
Lohr, Thomas E., to Allied Chemical Corporation. Pyrotechnic gas generator. 3,711,115, 1-16-73, Cl. 280-150.0ab.
Lohr, Thomas E., to Allied Chemical Corporation. Safety belt buckle. 3,760,467, 9-25-73, Cl. 24-230.0al.
Lohr, Thomas E., to Allied Chemical Corporation. Pressure sensing apparatus. 3,771,121, 11-6-73, Cl. 340-52.00r.
Lohr, Torbjorn, to Scania Dental AB. Saliva ejector. 3,777,756, 12-11-73, Cl. 128-276.000.
Lohrbach, Werner, to Siemens Aktiengesellschaft. Production apparatus for nuclear reactor fuel rods. 3,757,396, 9-11-73, Cl. 29-33.00t.
Lohrenz, Victor: *See*—
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Lohrman, Ronald E.: *See*—
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Lohse, Friedrich; Schmid, Rolf; and Batzer, Hans, to Ciba-Geigy AG. Heat-curable polyurethane foams and elastomers based on aromatic polyesters. 3,718,623, 2-27-73, Cl. 260-75.0np.
Lohse, Hans-Heinrich, to Contrans Gesellschaft fur Containerwerkela m.b.H. Energy supply unit for freight containers. 3,781,139, 12-25-73, Cl. 417-313.000.
Lohse, Horst: *See*—
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Lohwasser, Kurt. Beaker and closure therefor. 3,774,800, 11-27-73, Cl. 220-315.000.
Loichen, Erwin, to Zargun Fabrik fur Spezialkunstsoffmaschinen GmbH. Injection molding machine. 3,771,698, 11-13-73, Cl. 222-413.000.
Loichen, Erwin. Injection molding apparatus. 3,771,935, 11-13-73, Cl. 425-146.000.
Loichinger, Fred A., to Stoelting Brothers Company. Support for knife assembly in cheese processing equipment. 3,744,405, 7-10-73, Cl. 31-48.000.
Loiseau, Gerard Paul Marie Henri: *See*—
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Nordmann, Joseph; Mattioda, Georges Dominique; and Loiseau, Gerard Paul Marie Henri, 3,708,544.
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Loiseau, William C. Folding cover for pickup truck. 3,773,379, 11-20-73, Cl. 296-107.000.
Loison, Robert. Heads for hydrocyclonic separators. 3,724,674, 4-3-73, Cl. 210-512.000.
Loitiere, Alain: *See*—
Bourgoin, Gerard; Kumurdjian, Pierre; Loitiere, Alain; and Pere, Jean-Francois, 3,725,685.
Loitzl, Rozica; and Schueler, Claus, to Brown Boveri & Company, Limited. Method for producing intermettallic connections. 3,759,691, 9-18-73, Cl. 75-.5ba.
Loix, Gilbert. Prefabricated metal staircase. 3,765,137, 10-16-73, Cl. 52-182.000.
Lojinger, Robert I. Self-adjusting shirt collar support. 3,738,548, 6-12-73, Cl. 223-83.000.
Lok, Harmannus Henderikus, to Nereid N.V. Coupling submersible to service craft. 3,724,410, 4-3-73, Cl. 114-16.00r.
Lolkema, Jan: *See*—
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Lolkema, Jan, to Scholten-Honig Research N.V. Process for the manufacture of redispersible hydrophobic starch derivatives. 3,746,690, 7-17-73, Cl. 260-77.5as.
Lollos, John S., to National Talent Service, Inc. Multi-directional video display console. 3,727,000, 4-10-73, Cl. 178-7.900.
Lomachenko, Gennady Nikolaevich: *See*—
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Lomasney, Henry Louis; and Lomasney, William Joseph. Weld thru primer. 3,759,756, 9-18-73, Cl. 148-22.000.
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Lomax, George F., to Mosley, Fred E. Smoke and fumes abatement apparatus. 3,736,888, 6-5-73, Cl. 110-8.00a.
Lombard, Claude; and Piret, Jean, to Regie Nationale des Usines Renault and Automobiles Peugeot. Governor unit for automatic transmission. 3,709,070, 1-9-73, Cl. 74-866.000.
Lombardi, Charles A., to United States of America, Army. Temperature discriminating dual igniter rocket ignition system. 3,731,629, 5-8-73, Cl. 102-49.700.
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Lombardi, Louis J.; Coyne, Roy J.; and Green, Charles E. Electrical substrates. 3,781,275, 12-25-73, Cl. 260-227.000.
Lombardi, Raymond P., to Dravo Corporation. Pelletizing apparatus. 3,749,533, 7-31-73, Cl. 425-73.000.
Lombardino, Joseph G., to Pfizer Inc. Certain 8,9-dihydro-[3,4,7,8]cyclooctа[1,2-d] imidazoles. 3,711,489, 1-16-73, Cl. 260-296.00p.
Lombardino, Joseph G., to Pfizer Inc. Certain dibenzo(b,f) thiepin(4,5-d) imidazoles. 3,781,294, 12-25-73, Cl. 260-294.80a.
Lombardino, Joseph George, to Pfizer Inc. Anti inflammatory imidazoles. 3,772,441, 11-13-73, Cl. 424-273.000.
Lombardo, Daniel F.; and Splain, Walter E., to Picker Corporation. Protective circuit for X-ray tube and method of operation. 3,746,862, 7-17-73, Cl. 250-93.000.
Lombardo, Giovanni: *See—*
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Lombardo, Joseph. Variable speed toy transmission. 3,735,527, 5-29-73, Cl. 46-206.000.
Lombardo, Joseph S., Sr. Quick detachable seat for automobile. 3,779,503, 12-18-73, Cl. 248-429.000.
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Lonardo, Robert. Arm splint. 3,776,225, 12-4-73, Cl. 128-77.000.
Lonardo, Vincent P. Air actuated vacuum pump. 3,730,647, 5-1-73, Cl. 417-122.000.
Lonati, Francesco. Pushing device in double cylinder circular knitting machines. 3,750,426, 8-7-73, Cl. 66-149.00r.
Lonati, Francesco, to Construzioni Meccaniche Lonati di Lonati Francesco. Thread cutting and retaining device for circular knitting machines. 3,760,608, 9-25-73, Cl. 66-240.00s.
Lonczak, William F., to Scott Paper Company. Photosensitive medium comprising a cyclic acetal of furfural, a lower haloalkane, and silica. 3,753,718, 8-21-73, Cl. 96-88.000.
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Davies, John; Lones, Emyr Gwyn; Hodgson, William Henry; Young, John Dixon; and Llewellyn, David Thomas, 3,726,724.
Long, Alan Gibson; and Weir, Niall Galbraith, to Glaxo Laboratories, Limited. Preparation of $\Delta^3$-4 carboxy cephalosporins having a 3-vinyl or substituted 3-vinyl group. 3,769,277, 10-30-73, Cl. 260-243.00c.
Long, Alden Owen, Jr.; and Shughart, Mervin Leonard, to AMP Incorporated. Apparatus for inserting terminals into panel members. 3,739,446, 6-19-73, Cl. 29-203.00b.
Long, Alden Owen, Jr., to AMP Incorporated. Apparatus for inserting electrical terminals into printed circuit boards. 3,763,540, 10-9-73, Cl. 29-203.00b.
Long, Arthur H.; and Seidel, Joseph, to Westinghouse Electric Corporation. Method for optimizing the making of a laminated fibrous strip. 3,710,430, 1-16-73, Cl. 29-419.000.
Long, Bernard C.: *See—*
Lee, Wooyoung; Long, Bernard C.; and Weekman, Vern W., Jr., 3,753,893.
Long, Bobby R., 25% to Guerriero, Joe D. Lead sleeve cutter. 3,713,216, 1-30-73, Cl. 30-90.400.
Long, Charles A.: *See—*
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Long, Clive Beech Ansley: *See—*
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Long, Delmar D.; Rust, Edgar C., Jr.; and Lawrence, Stanley L., to Crompton & Knowles Corporation. Apparatus for vibration welding of sheet materials. 3,733,238, 5-15-73, Cl. 156-580.000
Long, Delmer B.; and Shelton, Lewis E. Truck load bed boat loader and carrier. 3,734,321, 5-22-73, Cl. 214-450.000.
Long, Donald V.; Derby, Norwin Cedric; and Chorak, Peter P., to Dalpak Corporation, The. Shipping bag. 3,770,189, 11-6-73, Cl. 229-53.000.
Long, Edward M., to Ampex Corporation. Acoustic lens. 3,735,336, 5-22-73, Cl. 340-8.001.
Long, Eric L., to Cherry Electrical Products Corporation. Momentary push button switch with improved non-conductive cam for normally retaining movable leaf spring contacts in a non-operative position. 3,715,545, 2-6-73, Cl. 200-159.00a.
Long, Eric L.; and Cherry, Walter L., to Cherry Electrical Products Corporation. Keyboard pulse switch. 3,739,127, 6-12-73, Cl. 200-160.000.
Long, Ernest L.: *See—*
Davis, William F.; Russell, Ronald W.; Frederiksen, Thomas M.; and Long, Ernest L., 3,735,240.
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Long, Geoffrey, to United Kingdom Atomic Energy Authority. Apparatus for carbon content analysis. 3,769,189, 10-30-73, Cl. 204-195.00r.
Long, George Ernest, III: *See—*
Brown, Malcolm George, Jr.; Guille, Gilbert James, Jr.; and Long, George Ernest, III, 3,708,622.
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Long, Gordon D., to Tektronix Inc. Feedback amplifier circuit. 3,769,605, 10-30-73, Cl. 330-30.00d.
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Long, Jasper J.; and Justus, Ben, to Optoelectronics, Inc. Vacuum tight lead throughs for dewar mounted infrared detectors. 3,719,990, 3-13-73, Cl. 29-628.000.
Long, Joe E. Method for lining a continuous concrete pipe. 3,773,874, 11-20-73, Cl. 264-32.000.
Long, John Albert, to Longford Equipment International Limited. Card scoring device. 3,748,937, 7-31-73, Cl. 83-12.000.
Long, John B., to Marmon Group, Inc., The. Apparatus having an operator carrying and protective device. 3,737,006, 6-5-73, Cl. 182-112.000.
Long, John B., to Marmon Group, Inc., The. Roof drilling and bolting apparatus having an operator carrying and protective device. 3,768,574, 10-30-73, Cl. 173-23.000.
Long, John H.: *See—*
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Long, John H. Lead screw control for linear drive system. 3,764,741, 10-9-73, Cl. 178-7.600.



Long, John V.: *See—*
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Long, Marshall; Alley, Lewis F.; and Reynolds, William A., to Marlen Research Corporation. Machine for and method of severing meat slabs. 3,777,600, 12-11-73, Cl. 83-39.000.
Long, Marvin B.; and Crown, William A. Rotary lawnmower attachment. 3,724,182, 4-3-73, Cl. 56-10.400.
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Long, Olan L., to Westinghouse Electric Corporation. Dishwashing tank having integral handling means. 3,731,839, 5-8-73, Cl. 220-74.000.
Long, Olan L., to Westinghouse Electric Corporation. Dishwasher tub gasket surface and method of making same. 3,732,835, 5-15-73, Cl. 113-120.00m.
Long, Olan L., to Westinghouse Electric Corporation. Fluid coupling with sink retainer. 3,747,893, 7-24-73, Cl. 251-148.000.
Long, Raymond E.; and Boles, Ralph C., Jr. Apparatus for producing super heated fluids. 3,778,578, 12-11-73, Cl. 219-10.550.
Long, Richard H. Refractometer and reflectometer. 3,751,162, 8-7-73, Cl. 356-30.000.
Long, Richard W. Hot water heater system for divers. 3,762,392, 10-2-73, Cl. 126-210.000.
Long, Robert Alvin: *See—*
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Long, Robert B.; Horowitz, Hugh H.; and Savage, David W., to Esso Research and Engineering Company. Low volatile complexing solutions for olefin recovery. 3,754,047, 8-21-73, Cl. 260-677.00a.
Long, Robert C.: *See—*
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Long, Walt C.; and Middleton, Joan H., to United States of America, National Aeronautics and Space Administration. Technique for extending the frequency range of digital dividers. 3,764,790, 10-9-73, Cl. 235-152.000.
Long, Wendell P., to Hercules Incorporated. Polymerization of olefins with tetrakis (bicycloheptyl) vanadium compounds as catalysts. 3,753,964, 8-21-73, Cl. 260-88.20r.
Long, William C.: *See—*
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Long, William D., to Hesston Corporation. Motor driven knife grinder for forage harvester cutters. 3,726,047, 4-10-73, Cl. 51-249.000.
Long, William D.; Fell, Ferol S.; Wells, Bernard L.; and Prichard, John P., 1/2 to Hesston Corporation and 1/2 to Field Queen, Incorporated. Transmission for forage harvesters and the like. 3,739,559, 6-19-73, Cl. 56-13.900.
Long, William P.; Sawyer, Walter M.; and Arias, Lionel J. De Paula, to Foster Wheeler Corporation. Erosion resistant sensing device. 3,780,584, 12-25-73, Cl. 73-349.000.
Long, William T. Wrecker sling pin lock. 3,747,783, 7-24-73, Cl. 214-86.00a.
Long, William W., III, to Carborundum Company, The. Workpiece treating apparatus. 3,735,532, 5-29-73, Cl. 51-9.000.
Long, William W., III, to Carborundum Company, The. Work handling apparatus. 3,738,521, 6-12-73, Cl. 214-658.000.
Long, Willis F.; and Lian, Kenneth T., to Hughes Aircraft Company. Circuit breaker and method. 3,781,606, 12-25-73, Cl. 317-11.00a.
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Longacre, Andrew, Jr., to United States of America, Navy. Precision voltage bias for Josephson oscillators. 3,736,527, 5-29-73, Cl. 331-107.00s.
Longarzo, Roland, to Consolidated Foods Corporation. Convertible pad and writing implement holder. 3,764,167, 10-9-73, Cl. 281-15.00b.
Longato, Giuseppe. Multi-purpose article of furniture. 3,726,535, 4-10-73, Cl. 280-34.00r.
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Longefellow, Earl. Gas appliance connector. 3,743,328, 7-3-73, Cl. 285-226.000.
Longenecker, Ernst A. Trailer hitch lock. 3,780,546, 12-25-73, Cl. 70-58.000.
Longenecker, John G.; Rubio, Manuel J.; and Robustelli, Ciro M., to Ael Food Automation, Inc. Continuous pre-cooking process for the production of cooked dough foodstuffs. 3,773,520, 11-20-73, Cl. 426-502.000.
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Longpre, Mose Walter. Belly protective pan for tractor engine. 3,779,330, 12-18-73, Cl. 180-69.100.
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Longstaff-Tyrrell, John, to Lucas, Joseph, (Industries) Limited. Fuel injection systems. 3,724,434, 4-3-73, Cl. 123-117.00r
Longsworth, Ralph C., to Air Products and Chemicals, Inc. Cryogenic refrigeration system with dual circuit heat exchanger. 3,714,796, 2-6-73, Cl. 62-514.000.
Longsworth, Ralph C., to Air Products and Chemicals, Inc. Cryogenic refrigeration system. 3,728,868, 4-24-73, Cl. 62-222.000.
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Lonnemo, Kurt R., to Sperry Rand Corporation. Power transmission. 3,742,820, 7-3-73, Cl. 91-497.000.

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Loomans, Bernard A., to Baker Perkins Inc. Self-cleaning venting section for continuous mixers. 3,719,350, 3-6-73, Cl. 259-6.000.

Loomans, Bernard A., to Baker Perkins Inc. Coupling structure for twin mixer shafts. 3,779,522, 12-18-73, Cl. 259-192.000.

Loomans, David C. Orthopedic apparatus for legs to enable standing. 3,750,659, 8-7-73, Cl. 128-80.00r.

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Loomis, Charles M. Pre-assembled unitarily-insertable hanger-attached elevator shaft entrance construction. 3,771,268, 11-13-73, Cl. 52-30.000.

Loomis, Clifford R., Jr.; Wiles, Jerald R.; and Newton, Russell A., to Rexham Corporation, mesne. System for handling and accumulating articles. 3,722,656, 3-27-73, Cl. 198-19.000.

Loomis, Clifford R., Jr.; Wiles, Jerald R.; and Newton, Russell A., to Rexham Corporation. Dual lane packaging machine. 3,762,253, 10-2-73, Cl. 83-102.000.

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Lopez, Arnelson Norvaldo. Mold assembly to form a container. 3,743,467, 7-3-73, Cl. 425-387.000.

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Smith, Arthur A.; Christensen, Dean E.; Campbell, Billy H.; Strickland, Raymond I.; Lopez, Bennie F.; Eckstein, Herbert P.; and Litchfield, Hart S., 3,765,752.

Lopez, John, to Koppers Company, Inc. Stacker assembly for corrugated sheets and the like. 3,712,486, 1-23-73, Cl. 214-6.00s.

Lopez, John, to Koppers Company, Inc. Stacker apparatus for multiple corrugated sheet. 3,717,075, 2-20-73, Cl. 93-93.00m.

Lopez, Juan M.: *See—*
Poliak, John M.; and Lopez, Juan M., 3,713,071.

Lopez, Manuel, to Roberk Company, The. Clip for windshield wiper blade refill. 3,769,653, 11-6-73, Cl. 15-250.420.

Lopez, Oscar: *See—*
Lopez, Oscar; and Valdes, Juan C., 3,738,006.

Lopez, Oscar; and Valdes, Juan C., to Lopez, Oscar. Dental impression material injecting syringe. 3,738,006, 6-12-73, Cl. 32-17.000.

Lopez, Vicente: *See—*
Brieva, Antonio Mario; Lopez, Vicente; and Soulages, Nestor Luis, 3,753,653.

Lopez, Walfrido R. Double loaded spear gun. 3,741,190, 6-26-73, Cl. 124-22.000.

Lopez-Batiz, Manlio, to Hatch Incorporated. Polyphase electric system protective apparatus. 3,743,889, 7-3-73, Cl. 317-27.00r.

Lopic, Franz: *See—*
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Lopin, Michael. Electrical adaptor. 3,774,143, 11-20-73, Cl. 339-61.00r.

Loporcaro, Lawrence John: *See—*
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Loprest, Frank J.; and Barr, Donald E., to GAF Corporation. Transparent photographic masks. 3,744,904, 7-10-73, Cl. 355-125.000.

Loquai, John R.: *See—*
Rutherford, Robert C.; and Loquai, John R., 3,745,637.

Lorah, Lawrence D.: *See—*
Brisk, Richard A.; Fougere, Guy L.; Lorah, Lawrence D.; and Pastan, Harvey L., 3,778,768.

Lorain Electronics Corporation: *See—*
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Lorain Products Corporation: *See—*
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Brown, Harold J., 3,745,437.
Butler, Luther C., Jr.; and Jamieson, Robert S., 3,708,686.
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Dolamore, Charles D., 3,749,941.
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Loral Corporation: *See—*
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Paley, Alfred I.; Newman, Leonard; Seats, Peter; and Waxenbaum, Bernard M., 3,715,618.
Schwartz, Jacob H., 3,772,566.

Lorber, Harold; and Duboff, Irving. Precision distributed parameter delay line. 3,768,046, 10-23-73, Cl. 333-31.00r.

Lorber, Leslie H. Process for reproducing a full-color picture in one impression. 3,752,072, 8-14-73, Cl. 101-211.000.

Lorber, Leslie H., to Olcott, Bernard. Process for single-impression multicolor printing plate. 3,752,073, 8-14-73, Cl. 101-211.000.

Lorbon Manufacturing Co., Inc.: *See—*
Graham, Philip G.; and Reich, Lawrence, 3,769,463.

Lorch, Hugh Olaf, to English Electric Company Limited, The. Supercooled dynamo electric machines. 3,745,389, 7-10-73, Cl. 310-52.000.

Lord, Bernard W.: *See—*
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Lord Corporation: *See—*
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Herbst, Paul T.; and Bergman, Lawrence A., 3,765,631.
Leingang, Charles J., 3,747,878.
Owston, William J., 3,725,504.
Skala, Dennis P.; and Thorn, Richard P., 3,721,417.

Lord, Donald S., to Ashland Oil, Inc. Process and apparatus for backing tufted carpet. 3,732,136, 5-8-73, Cl. 156-72.000.

Lord, George Harry: *See—*
King, John; and Lord, George Harry, 3,720,690.

Lord, Harold Wilbur, to Litton Systems, Inc. Electrical inverter-rectifier circuit and inductor apparatus therefor. 3,745,440, 7-10-73, Cl. 321-26.000.

Lord, John Garvin, to Cotton, Incorporated. Method of making a durable press garment. 3,778,913, 12-18-73, Cl. 38-144.000.

Lord, Michael Robert, to International Standard Electric Corporation. Loop current detector. 3,781,571, 12-25-73, Cl. 307-235.00r.

Lord, Thomas J.: *See—*
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Lordel Manufacturing Services, Inc.: *See—*
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Lore, Raymond J.; and Draudt, Carl W., Jr. Destructive distillation of domestic sewage. 3,721,346, 3-20-73, Cl. 210-121.000.

L'Oreal: *See—*
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Kalopissis, Gregoire; and Bugaut, Andree, 3,738,799.
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Lorenc, Walter F.; and Hyde, James A., to Nalco Chemical Company. Oil removal from waste waters. 3,767,571, 10-23-73, Cl. 210-30.000.

Lorence, Ervin W., to Lorence Manufacturing Corporation. Speed reducing transmission. 3,738,194, 6-12-73, Cl. 74-805.000.

Lorence Manufacturing Corporation: *See—*
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Lorentz, Guido Max Rudolf: *See—*
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Lorentzen, Jurgen; Christiansen, Christian Verner; and Carlsen, Carl. Apparatus for freezedrying material with loading and discharging means. 3,769,717, 11-6-73, Cl. 34-92.000.

Lorenz, Allan A.: *See—*
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Landwer, Donald C.; and Lorenz, Allan A., 3,779,321.

Lorenz, Dietrich: *See—*
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Lorenz, Edward E. Carburetor idle limiter tool. 3,729,802, 5-1-73, Cl. 29-254.000.

Lorenz, Eldon L., to Michigan Wheel Corporation. Folding blade propeller. 3,709,634, 1-9-73, Cl. 416-142.000.

Lorenz, Ewald; and Soring, Holger, to Koh-I-Noor Rapidograph, Inc. Tube writing pen, particularly for automatic drawing machines. 3,711,861, 1-16-73, Cl. 346-140.000.

Lorenz, Gunter; Rinkler, Heinrich; and Nischk, Gunther, to Bayer Aktiengesellschaft. Process for the production of methallyl sulfonate. 3,755,430, 8-28-73, Cl. 260-513.00b.

Lorenz, Hans Peter: *See—*
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Lorenz, Harald: *See—*
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Lorenz, Henry; and Scholz, Hans-Joachim, to VEB Spinnereimaschinenbau. Cleaning device for circular combs on a combing machine. 3,735,446, 5-29-73, Cl. 19-218.000.

Lorenz, Horst; and Weck, Karl Gustav, to Kieserling, Th., & Albrecht. Drive mechanism for the clamping carriages of peeling machines. 3,747,822, 7-24-73, Cl. 226-162.000.

Lorenz, Howard I.; and Rosser, Eugene P., to Nobel Drilling Corporation. Guide and protector arrangement incorporating fill-up float valve means. 3,718,196, 2-27-73, Cl. 175-307.000.

Lorenz, Jerome L., to Ranco Incorporated. Zero voltage switch means for control of electric load circuit. 3,708,696, 1-2-73, Cl. 307-252.00b.

Lorenz, Jerome L., to Ranco Incorporated. Condition responsive A.C. phase angle control circuitry. 3,746,887, 7-17-73, Cl. 307-252.00b.

Lorenz, Jerome L., to Ranco Incorporated. Malfunction indicator for exhaust gas recirculation valve. 3,779,222, 12-18-73, Cl. 123-119.00a.
Lorenz, Joachim, to Ciba-Geigy Marienberg GmbH. Process for the production of epoxide polyadducts with phosphine oxide accelerators. 3,759,872, 9-18-73, Cl. 260-47.0ec.
Lorenz, Joachim, to Ciba-Geigy Marienberg GmbH. Process for producing epoxide polyadducts in presence of phosphoric acid triamide accelerators. 3,764,582, 10-9-73, Cl. 260-47.0ec.
Lorenz, John: *See—*
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Lorenz, Klaus: *See—*
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Lorenz, Max R.; and Srinivasan, Rangaswamy, to International Business Machines Corporation. Low energy thermochromic image recording device. 3,761,942, 9-25-73, Cl. 346-1.000.
Lorenz, Richard L.: *See—*
Chaffee, William H.; Rubio, Alfred M.; and Lorenz, Richard L., 3,777,613.
Lorenz, Robert H. Adjustable pipe groover and cut-off. 3,732,618, 5-15-73, Cl. 30-97.000.
Lorenz, Walter; and Hammann, Ingeborg, to Farbenfabriken Bayer Aktiengesellschaft. 2,4'Dioxo-1,3-benzoxazinothionophosphonic acid esters. 3,717,631, 2-20-73, Cl. 260-244.00r.
Lorenz, Walter; and Hammann, Ingeborg, to Farbenfabriken Bayer Aktiengesellschaft. 2-Oxodihydroquinolinethiono-phosphoric (phosphonic) acid esters. 3,734,914, 5-22-73, Cl. 260-268.00p.
Lorenz, Walter; Boshagen, Horst; Hammann, Ingeborg; and Stendel, Wilhelm, to Bayer Aktiengesellschaft. 3-Oxo-benzisoxazolemethyl-(thiono) thiolphospheric (phosphonic) acid esters. 3,755,344, 8-28-73, Cl. 260-307.00a.
Lorenz, Walter; Hammann, Ingeborg; Behrenz, Wolfgang; and Stendel, Wilhelm. O-(N-Alkoxy-benzimidoyl)-(thiono) phosphoric(phosphonic) acid esters. 3,760,041, 9-18-73, Cl. 260-944.000.
Lorenz, Wilfred: *See—*
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Lorenzen, Gunter: *See—*
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Lorenzen, Heinz-Christen, to Hauni-Werke Korber & Co. KG. Apparatus for evaluating the output of machines for the production and/or processing of smokers products. 3,720,815, 3-13-73, Cl. 235-151.130.
Lorenzen, John C.: *See—*
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Lorenzen, Robert K. Powered mechanical shaker device. 3,735,964, 5-29-73, Cl. 259-75.000.
Lorenzen, Walter C., to Anzen Products, Inc. Multiple solutes additive apparatus. 3,710,817, 1-16-73, Cl. 137-268.000.
Lorenzi, Dodds and Gunnill: *See—*
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Lorenzi, Silvio J.; Dodds, Robert M.; and Gunnill, Edward F., to Lorenzi, Dodds and Gunnill. Building construction and method. 3,748,794, 7-31-73, Cl. 52-79.000.
Lorenzini, Raymond; and Klinkert, Helmuth J., to Eastman Kodak Company. Apparatus for winding a plurality of web rolls of various widths and radii at a single winding station. 3,712,554, 1-23-73, Cl. 242-56.200.
Lorenzini, Raymond; and Kinsella, Richard I., to Eastman Kodak Company. Misaligned end cap detecting mechanism for a capping device. 3,724,162, 4-3-73, Cl. 53-78.000.
Lorenzini, Raymond; Vieira, Thomas L.; and Wallace, Robert G., to Eastman Kodak Company. Tray loading and indexing mechanism. 3,727,371, 4-17-73, Cl. 53-246.000.
Lorenzino, Paul: *See—*
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Lorenzo, John L. Job time recording and calculating method and apparatus. 3,775,752, 11-27-73, Cl. 340-172.500.
Lores, Carlos; and Moore, Ralph Bishop, to Du Pont de Nemours, E. I., and Company. Process for removing dissolved lead compounds from aqueous media. 3,770,423, 11-6-73, Cl. 75-108.000.
Lorette, Nicholas B., to Dow Chemical Company, The. Preparation of norbornenes. 3,766,283, 10-16-73, Cl. 260-666.0py.
Lorette, Nicholas Bernard, to Dow Chemical Company, The. Production of alkyl benzenes. 3,758,599, 9-11-73, Cl. 260-668.00d.
Loria, Anthony: *See—*
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Loria, Anthony, to Eastman Kodak Company. 4-Imido-substituted-1-hydroxy-2-naphthamides. 3,749,735, 7-31-73, Cl. 260-326.00n.
Loricchio, Domingos, to Carborundum Company, The. Additives for production of cast irons. 3,728,107, 4-17-73, Cl. 75-130.00r.
Loricchio, Domingos, to Carborundum Company, The. Additives for controlling the physical and structural characteristics of cast iron. 3,744,998, 7-10-73, Cl. 75-130.00r.
Loriers, Jean; and Heindl, Rudolf, to Etablissement Public Agence Nationale de Valorisation de la Recherche. Vitreous compounds with bistable electrical characteristics. 3,779,948, 12-18-73, Cl. 252-521.000.
Lorinder, Hans Goran: *See—*
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Lorinet, Jean-Paul Philippe, to Merlin Gerin, Societe Anonyme. Standstill-positioning and restartng arrangement for a linear induction motor driven vehicle. 3,736,881, 6-5-73, Cl. 104-148.01m.
Lorinet, Jean-Paul Philippe; Lagier, Francois; and Bobineau, Bernard, to Merlin Gerin, Societe Anonyme, mesne. Speed synchronizing control arrangement for transport systems. 3,769,914, 11-6-73, Cl. 104-148.01m.
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Loro, Alberto, to Microsystems International Limited. Semiconductor switching device. 3,739,236, 6-12-73, Cl. 317-235.00r.
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Lory, John S.; and Purrington, Suzanne T., to Lory Industries, Inc. Nitrocellulose combustible composition having salt of polyethylenimine as oxidizer. 3,734,793, 5-22-73, Cl. 149-100.000.
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Los, Marinus, to American Cyanamid Company. Ethylenedioxy derivatives of substituted naphthalenone compounds. 3,714,195, 1-30-73, Cl. 260-340.900.
Los, Marinus, to American Cyanamid Company. Substituted naphthalenone and naphthalenedione compounds. 3,723,533, 3-27-73, Cl. 260-590.000.
Los, Marinus, to American Cyanamid Company. Steroid-like compounds and method of synthesis. 3,736,345, 5-29-73, Cl. 260-465.00d.
Los, Marinus, to American Cyanamid Company. 2-Dodecahydro-8β-(t-butoxy or benzyloxy)-8aβ-lower alkyl-2-oxo-phenanthrene-alkanoic acids. 3,761,514, 9-25-73, Cl. 260-514.500.
Losacker, Paul; Schwerdtel, Wulf; and Swodenk, Wolfgang, to Bayer Aktiengesellschaft. Process for the preparation of isoprene from isobutene and formaldehyde. 3,773,847, 11-20-73, Cl. 260-681.000.
Losch, Heinz; and Mecklenbrauck, Heinrich, to Gewerkschaft Eisenhutte Westfalia. Apparatus for extracting and transferring materials. 3,710,963, 1-16-73, Cl. 214-17.00d.
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Loshbough, Richard C., to Reliance Electric Company. Computer weigher system with intermediate calculation and display. 3,770,069, 11-6-73, Cl. 177-1.000.
Losier, Joseph Gustave, 50% to Losier, Joseph Renald and Dellelce, Nicholas. Retractable under slide panel for disabled snowmobiles. 3,719,243, 3-6-73, Cl. 180-5.00r.
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Loss, Michael. Cervical dilator. 3,742,956, 7-3-73, Cl. 128-341.000.
Loss, Michael. Tape cassette holder. 3,764,003, 10-9-73, Cl. 206-.830.
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Lostumon, Arthur J., to Motorola, Inc. Apparatus for laterally correcting the position of the blue beam in a CRT. 3,713,057, 1-23-73, Cl. 335-212.000.
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Lotfy, Mohamed Hussein. Tethered ball apparatus including paddle and wear resistant tether connection to ball. 3,764,140, 10-9-73, Cl. 273-95.00a.
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Lotspeich, Joseph A., to Coin Acceptors, Inc. Coin pay-out means for coin changers. 3,738,377, 6-12-73, Cl. 133-2.000.
Lott, George T.; and Little, Francis H., to Lott Tool Company. Parts conveyor pallet and means for supporting same on an initial pair of rails and switching same to a second pair of rails. 3,777,669, 12-11-73, Cl. 104-130.000.
Lott, Gesrge T.; and Little, Francis H., to Lott Tool Corporation. Parts conveyor pallet and means for supporting same on an initial pair of rails and switching same to a pair of rails. 3,717,102, 2-20-73, Cl. 104-130.000.
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Lott, Walter E., to Westinghouse Air Brake Company. Resiliently mounted elevator drive housing. 3,738,031, 6-12-73, Cl. 37-8.000.
Lottridge, Neil M.; and Momsen, Marc F., to General Motors Corporation. Disc brake assembly. 3,780,834, 12-25-73, Cl. 188-18.00a.
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Louboutin, Robert; and Daudenarde, Claude, to Degremont Societe Generale d'Epuration et d'Assainissement. Apparatus for automatically determining the optimum amounts of reagents to be added to a liquid for its clarification. 3,731,807, 5-8-73, Cl. 210-96.00.
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Loucheur, Rene; Hommerin, Michel; and Louche, Jean Claude Paul, to Compagnie Generale de Radiologie. X-ray film handling apparatus. 3,710,106, 1-9-73, Cl. 250-66.000.
Louckes, Theodore N.; Haas, Ronald H.; and Duer, Morris J., to General Motors Corporation. Locking type differential gear mechanism. 3,732,752, 5-15-73, Cl. 74-710.500.
Loudas, Basil L.; and Vogel, Herward A., to Minnesota Mining and Manufacturing Company. Fluorocarbon cyanates. 3,733,349, 5-15-73, Cl. 260-453.0al.
Loudas, Basil L.; and Vogel, Herward A., to Minnesota Mining and Manufacturing Company. Cyanurates of cyanatophenyl-terminated polyarylene ethers. 3,738,962, 6-12-73, Cl. 260-47.00r.
Loudas, Basil L., to Minnesota Mining and Manufacturing Company. Spot and stain removing composition. 3,748,268, 7-24-73, Cl. 252-90.000.
Louder, Kenneth E., to Sun Oil Company of Pennsylvania. Production of gasoline components including 2-methyl-2-methoxypropane. 3,726,942, 4-10-73, Cl. 260-683.610.
Louder, Nevitt M.; and Ferrie, Ronald, to Fisher Scientific Company. Method and apparatus for analyzing blood properties. 3,772,591, 11-13-73, Cl. 324-30.00r.
Louderback, Allan L.; and Owen, Robert P., to Baxter Laboratories, Inc., mesne. Probe photometer with fluid sensing device. 3,727,066, 4-10-73, Cl. 250-218.000.
Louderback, Allan L., to Baxter Laboratories, Inc. Blood serum analytical control standard. 3,728,226, 4-17-73, Cl. 195-103.50r.
Louderback, Allan L., to Baxter Laboratories, Inc. Neutral density solutions containing nigrosin dye and carbon black. 3,729,427, 4-24-73, Cl. 252-300.000.
Louderback, Allan L.; and Fontana, Anthony J., to Baxter Laboratories, Inc. Cerebrospinal fluid control standard. 3,753,925, 8-21-73, Cl. 252-408.000.
Louderback, Allan L.; Youhne, Young; and Fontana, Anthony J., to Baxter Laboratories, Inc. Sickle-cell diagnostic test. 3,761,226, 9-25-73, Cl. 23-230.00b.
Louderback, Charles R. Golf practice device. 3,721,447, 3-20-73, Cl. 273-186.00e.
Loudermilk, Michael R. Retractable spike for golf shoe. 3,716,931, 2-20-73, Cl. 36-61.000.
Loudon, Donald C.; and Bernhardt, Herman E., to Bendix Corporation, The. Solid state breakerless ignition system for internal combustion engines. 3,765,390, 10-16-73, Cl. 123-148.00e.
Louet, Jean Marie Augustin Jacques. Barge for ferrying a trailer. 3,745,954, 7-17-73, Cl. 114-.50r.
Lougeay, Edmund L., Jr.; and Garner, Charles, 25% to Winston, Ronald E. and Oliver, Glen S. Automatic message controller. 3,775,569, 11-27-73, Cl. 179-100.20s.
Loughead, Robert G. Shrubbery lifter for lawn mowers. 3,753,339, 8-21-73, Cl. 56-119.000.
Lougheridge, Frederick A.: *See—*
Biggs, Orrick Howard; Homer, Horace H.; Lougheridge, Frederick A.; and Westlund, Arnold, Jr., 3,737,653.
Loughlin, James E.: *See—*
Snider, Orvill E.; Loughlin, James E.; and Ortheil, Hans, 3,738,804.
Loughner, James W. Separating apparatus and method. 3,773,176, 11-20-73, Cl. 209-459.000.
Loughridge, Frederick A.; and Finch, William A., to Sylvania Electric Products Inc. Furnace for manufacture of striation-free quartz tubing. 3,717,450, 2-20-73, Cl. 65-145.000.
Loughridge, Frederick A., to GTE Sylvania Incorporated. Press seal for lamp having fused silica envelope. 3,742,283, 6-26-73, Cl. 313-318.000.
Loughry, Don J., to Avco Corporation. Vertical synchronization time base error corrector. 3,777,054, 12-4-73, Cl. 178-6.6sf.
Louis, Anthony, to Aquaria, Inc. Method of connecting two members with an elastomeric hinge. 3,741,843, 6-26-73, Cl. 156-244.000.
Louis, George A.: *See—*
Shekerjian, Hart; and Louis, George A., 3,748,538.
Louis, Heinrich: *See—*
Wegener, Otto; Louis, Heinrich; Oberkobusch, Rudolf; and Collin, Gerd, 3,761,387.
Louis, Joseph E.; and Schauer, George A., to Sundstrand Corporation. Hydrostatic-differential transmission. 3,714,846, 2-6-73, Cl. 74-687.000.
Louis, Thomas C., to N L Industries, Inc. Independent transfer means for conveyor systems. 3,767,025, 10-23-73, Cl. 198-19.000.

Louis, Yves: *See—*
Tariel, Henri; Guyon, Roger; Gagneux, Yves; Muller, Franck; and Louis, Yves, 3,769,118.
Louise, Jean: *See—*
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Louisiana State University Foundation, The: *See—*
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Louisot, Pierre: *See—*
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Loukes, David Gordon: *See—*
Robinson, Albert Sidney; Loukes, David Gordon; and Lawrenson, Jack, 3,770,406.
Loukes, David Gordon, to Pilkington Brothers Limited. Manufacture of glass having desired surface characteristics. 3,762,898, 10-2-73, Cl. 65-30.000.
Loukidis, Panayotis Coroneou. Self-controlled differential sectionaliser for the protection of low voltage electric power consumers. 3,780,348, 12-18-73, Cl. 317-18.00d.
Louks, Robert A. Insulation piercing device for testing continuity of electrical circuit. 3,768,005, 10-23-73, Cl. 324-51.000.
Lounsbury, Donald Mack: *See—*
Vantill, Martinus Pieter Richard; Laing, Graham Stirling; and Lounsbury, Donald Mack, 3,708,634.
Loupere, Andre, to Commissariat a l'Energie Atomique. Lightweight cellular structure. 3,716,955, 2-20-73, Cl. 52-227.000.
Lourigan, George Henry: *See—*
Readshaw, Ronald Louis; and Lourigan, George Henry, 3,765,836.
Lourigan, Ronald F., to Webster Electric Company, Inc. Combustion control circuit for a fuel burner. 3,732,433, 5-8-73, Cl. 307-117.000.
Loustalet, Pierre, to Etat Francais represente par le Ministre Charge de la Defense Nationale Delegation Ministerielle pour l'Armement. Apparatus for selective engagement and disengagement between a traction means and a mechanical unit. 3,738,693, 6-12-73,Cl. 287-119.00r.
Louthan, Jean H.; Helm, Arlow D.; Wynne, Ralph A.; McElroy, Arthur H.; Roush, Gale S.; and Conkling, Donald R., to Phillips Petroleum Company. Apparatus for joining a plastic fitting to a plastic pipe. 3,743,566, 7-3-73, Cl. 156-499.000.
Louthan, Rector P.: *See—*
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Louthan, Rector P., to Phillips Petroleum Company. Removal of odor-causing materials from sulphur-containing plasticizers by distillation with a hydrocarbon. 3,730,850, 5-1-73, Cl. 203-52.000.
Louton, James C., Jr.: *See—*
Augunas, Algis G.; Louton, James C., Jr.; and Rafalik, Roman, 3,727,943.
Louvar, James J., to Universal Oil Products Company. Process for preparing cycloalkenones. 3,723,532, 3-27-73, Cl. 260-586.00b.
Louvar, Joseph F.; and Nichols, Newlin S., to BASF Wyandotte Corporation. Removal of catalysts from polyols. 3,715,402, 2-6-73, Cl. 260-613.00b.
Louvat, Jules: *See—*
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Louvel, Guy, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Wide band polarizing T-connection. 3,777,287, 12-4-73, Cl. 333-84.00m.
Loux, Harvey M., to Du Pont de Nemours, E. I., and Company. Herbicidal 3-(substituted ureido)crotonamides. 3,719,467, 3-6-73, Cl. 71-120.000.
Louys, Georges, to Fischer, Georg, Aktiengesellschaft. Arrangement for disengaging threading dies in a threading die head. 3,735,436, 5-29-73, Cl. 10-96.00r.
Louzon, Theodore John, to Western Electric Company, Incorporated. Method of encapsulating an electrical device in insulating and metal materials. 3,772,079, 11-13-73, Cl. 117-217.000.
Lovald, Roger A.: *See—*
Glaser, David W.; and Lovald, Roger A., 3,776,865.
Lovald, Roger A.; and Glaser, David W., to General Mills Chemicals, Inc. Fatty acid polyamide modified with a rosin adduct. 3,778,394, 12-11-73, Cl. 260-18.00n.
Lovatt, Alan Felix, to Code Designs Limited. Reversible sash windows. 3,728,818, 4-24-73, Cl. 49-192.000.
Love, Addison N., to Brown, Harold, Company. Timing valves. 3,722,851, 3-27-73, Cl. 251-54.000.
Love Controls Corporation: *See—*
Kohn, Mitchell I., 3,777,187.
Love, Fred W.; and Hunt, William J., to Aeroquip Corporation. Method of making wire braid hydraulic hose. 3,725,167, 4-3-73, Cl. 156-143.000.
Love, John J.: *See—*
Kinsella, Howard R.; Love, John J.; Smith, Carl A.; and Visos, Charles D., 3,711,236.
Visos, Charles D.; Love, John J.; and Banes, Ralph E., 3,721,263.
Visos, Charles D.; Love, John J.; Smith, Carl A.; and Banes, Ralph E., 3,727,836.
Visos, Charles D.; Love, John J.; and Smith, Carl A., 3,776,268.
Love, John J.; and Smith, Carl A., to Emerson Electric Co. Diaphragm gas valve with adjustable opening speed. 3,749,120, 7-31-73, Cl. 137-489.500.
Love, Roy E.; and Westwig, Ralph A., to Corning Glass Works. Photochromic fiber optic plate. 3,715,150, 2-6-73, Cl. 350-96.00b.
Love, Roy E.; and Westwig, Ralph A., to Corning Glass Works. Photochromic fiber optic plate. 3,774,173, 11-20-73, Cl. 340-173.0cr.
Love, Wesley. Thermoelectric generator. 3,757,146, 9-4-73, Cl. 310-4.000.
Loveall, George A.; and Jacobson, Bernhard E. Distributor drive mechanism. 3,762,525, 10-2-73, Cl. 193-23.000.
Lovecy, Albert Leonard: *See—*
Dedman, Arthur John; and Lovecy, Albert Leonard, 3,726,217.
Lovecy, Albert Leonard, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Electroexplosive devices. 3,713,385, 1-30-73, Cl. 102-28.00r.
Loveday, George Christopher, to Pye Limited. Indicating or detecting apparatus for nuclear radiation such as gamma rays. 3,723,734, 3-27-73, Cl. 250-71.50r.
Loveday, Harry Winston: *See—*
Whittaker, Jack Dearden; Loveday, Harry Winston; Barbour, Denis Rigby; Tweedie, William; and Stein, George, 3,762,067.
Lovejoy, Curtis N.: *See—*
Kosowsky, Leo N.; Lovejoy, Curtis N.; Cunniff, John G.; and Groom, Robert T., 3,745,105.
Kosowsky, Leo N.; Lovejoy, Curtis N.; Cunniff, John G.; and Groom, Robert T., 3,746,630.
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Giegerich, Raymond W., 3,736,804.
Lovelace, Roy C.: *See—*
Godbee, Herschel W.; and Lovelace, Roy C., 3,764,552.
Loveland, Malcolm W., to Atlas Pacific Engineering Company, mesne. Means for peeling pineapples. 3,734,002, 5-22-73, Cl. 99-543.000.
Loveless, Barry Ian, 50% to Send Engineering, Ltd. and Myers, M., & Sons, Limited, mesne. Apparatus for cutting paper and the like. 3,766,816, 10-23-73, Cl. 83-489.000.
Loveless, Donald E., to Diebold, Incorporated. Pneumatic tube system swing tube diverter construction. 3,762,664, 10-2-73, Cl. 243-31.000.
Loveless, Stanley M., to General Gas Light Company. Reset operator for pressure fluid valve. 3,712,577, 1-23-73, Cl. 251-23.000.
Loveless, Stanley M., to General Gas Light Company. Gas light with built-in mixing chamber. 3,737,652, 6-5-73, Cl. 240-11.000.
Lovell, Calvin H., to Searle, G. D., & Co. 2,2-Disubstituted omega-(1,4-diazabicyclo (4.4.0)-decane)alkanamides and related compounds. 3,772,300, 11-13-73, Cl. 260-268.0bc.
Lovell, Clarence A.: *See—*
Fleming, James Evans; Lovell, Clarence A.; and Bendle, Janes M., 3,774,209.
Lovell, John A.; and Harris, Philip G., to Goodyear Tire & Rubber Company, The. Composite of fabric with flexible backing. 3,730,822, 5-1-73, Cl. 161-66.000.
Lovell, John A.; and Hillegass, Donald V., to Goodyear Tire & Rubber Company, The. Reflective surface and method of production. 3,764,455, 10-9-73, Cl. 161-162.000.
Lovell, Patrick A. Mine ventilation control system. 3,747,503, 7-24-73, Cl. 98-50.000.
Lovelock, James E.: *See—*
Josias, Conrad S.; Bowman, Lloyd D.; and Lovelock, James E., 3,714,421.
Lovelock, James Ephraim: *See—*
Brittan, Kenneth Walter; and Lovelock, James Ephraim, 3,731,539.
Lovelock, James Ephraim. Detection of trace gases utilizing an electron capture detector. 3,725,009, 4-3-73, Cl. 23-232.00c.
Lovely, John D.; and Wong, Sam Q., to Electrohome Limited. Automatic color saturation control responsive to ambient light level. 3,755,619, 8-28-73, Cl. 178-5.4ac.
Lovendahl, Norman H. Cutting tools. 3,739,442, 6-19-73, Cl. 29-105.00r.
Lovendahl, Norman H. Tool holder arrangement. 3,747,179, 7-24-73, Cl. 29-96.000.
Lovendale, Mark R. Billfold. 3,712,354, 1-23-73, Cl. 150-38.000.
Lovendusky, Charles Michael, to AMP Incorporated. Card reader transport device. 3,748,442, 7-24-73, Cl. 235-61.11d.
Lovens Kemiske Fabrik Produktionsaktieselskab: *See—*
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Feit, Peter Werner; and Nielsen, Ole Bent Ivaermose, 3,758,522.
Frederiksen, Erling Knud; and Godtfredsen, Wagn Ole, 3,719,668.
Lund, Frantz Johannes, 3,755,588.
Lover, Seth E., to Columbia Broadcasting System, Inc. Loudspeaker cabinet assembly and method. 3,715,008, 2-6-73, Cl. 181-31.00b.
Lovett, Jack R. Shrimp separating methods. 3,750,233, 8-7-73, Cl. 17-45.000.



Lovett, John R. Shipboard winch with retract reel actuator. 3,733,052, 5-15-73, Cl. 254-150.00r.
Lovett, Stanley L., Jr., to Rochester Corporation, The. Method and apparatus for attaching fairing strips to cables. 3,707,836, 1-2-73, Cl. 57-1.0un.
Lovett, Terence Oliver: *See—*
Cottrell, Arnold George; Bradford, Nevin Dornan; and Lovett, Terence Oliver, 3,776,843.
Lovett, William E., to Economation, Inc. Conveyor roller assembly method and apparatus. 3,772,751, 11-20-73, Cl. 29-148.40d.
Lovgren, Ernest G., to Johnson & Johnson. Web forming apparatus. 3,772,739, 11-20-73, Cl. 19-156.300.
Lovig, Jack Dean. Earth boring apparatus. 3,746,103, 7-17-73, Cl. 173-24.000.
Lovin, Joseph R.: *See—*
Christian, Donald K.; and Lovin, Joseph R., 3,771,201.
Loving, Robert O., Jr., to Motorola, Inc. Temperature compensated amplifying circuit. 3,740,658, 6-19-73, Cl. 330-23.000.
Lovingham, Joseph J., to Thiokol Chemical Corporation. Injector for rocket motors using high viscosity fuel. 3,740,945, 6-26-73, Cl. 60-204.000.
Lovitz, David D., to Sternco Industries, Inc. Adjustable bracket and filter for various sizes of home aquariums. 3,717,253, 2-20-73, Cl. 210-169.000.
Lovitz, David D., to Sternco Industries, Inc. Turtle tank. 3,747,566, 7-24-73, Cl. 119-5.000.
Lovness, Donald E., to Ringer, Judd, Corporation. Insect killer. 3,747,260, 7-24-73, Cl. 43-131.000.
Lovrenich, Rodger T. Junction block and method of making same. 3,723,950, 3-27-73, Cl. 339-198.00r.
Lovrenich, Rodger T., to Renko Associates. On-off detection device. 3,732,443, 5-8-73, Cl. 307-308.000.
Lovrich, John. Solar distillation apparatus. 3,775,257, 11-27-73, Cl. 202-234.000.
Low, Emery M.: *See—*
Woodie, Paul W.; and Low, Emery M., 3,774,530.
Low, George M. Suppression of flutter. 3,734,432, 5-22-73, Cl. 244-77.00g.
Low, William H., Jr.; and Schaller, David R., to Horizons Incorporated; a division of Horizons Research Incorporated. Apparatus for thermally fixing a non-silver free radical photosensitive composition. 3,727,534, 4-17-73, Cl. 95-89.00r.
Low, William W.: *See—*
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Lowdenslager, John R., to Singer Company, The, mesne. Digital nuclear gyroscopic instrumentation and digital phase locked loop therefor. 3,729,674, 4-24-73, Cl. 324-.50r.
Lowe, Barrie. Audio-sensitive devices. 3,749,483, 7-31-73, Cl. 353-15.000.
Lowe, Charles Bertie, to Universal Oil Products Company. Suspension seats for vehicles. 3,774,963, 11-27-73, Cl. 297-338.000.
Lowe, Donald F.: *See—*
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Lowe, Edison; and Durkee, Everett L., to United States of America, Agriculture. Process for reconditioning spent olive-processing brines. 3,732,911, 5-15-73, Cl. 159-47.000.
Lowe, Edward A., to General Electric Company. Electronic dead band device. 3,768,033, 10-23-73, Cl. 330-84.000.
Lowe, Edward G.: *See—*
Pepmeier, Carl R.; and Lowe, Edward G., 3,775,936.
Lowe, Frederick George, to Universal Oil Products Company. Vehicle seats. 3,752,432, 8-14-73, Cl. 248-400.000.
Lowe, Harold V.: *See—*
Blakeney, Hurley J.; Lowe, Harold V.; and Ottens, Gunther W., 3,753,280.
Lowe, James Franklin. Combination pie crust and pan. 3,773,522, 11-20-73, Cl. 99-92.000.
Lowe, James H. C., to Airco, Inc. High strength iron-chromium-nickel alloy. 3,723,102, 3-27-73, Cl. 75-128.00r.
Lowe, James U., Jr.: *See—*
Chang, Marguerite S.; and Lowe, James U., Jr., 3,756,874.
Lowe, Paul E.; and Pool, Byron K., to Natmar, Inc. Apparatus for bonding materials with heat settable adhesive. 3,738,898, 6-12-73, Cl. 156-498.000.
Lowe, Peter R., to Honeywell Inc. Trace identifying means for multiple trace recorder. 3,754,277, 8-21-73, Cl. 346-23.000.
Lowe, Peter R., to Honeywell Inc. Apparatus for producing recorded traces of uniform density. 3,754,280, 8-21-73, Cl. 346-110.00r.
Lowe, Richard B.; and Enabnit, Robert S., to Goodyear Tire & Rubber Company, The. Belt damage detector. 3,731,113, 5-1-73, Cl. 307-119.000.
Lowe, Richard Douglas, to Electronic Associates Inc. RF/DC generator for quadrupole mass analyzer. 3,735,287, 5-22-73, Cl. 331-106.000.
Lowe, Richard Douglas, to Electronic Associates Inc. Multichannel programmer. 3,761,826, 9-25-73, Cl. 328-105.000.
Lowe, Robert A. Adjustable nozzle assembly. 3,765,317, 10-16-73, Cl. 98-40.00a.
Lowe, Warren: *See—*
Kennedy, Brian R.; and Lowe, Warren, 3,755,173.
Lowe, Warren, to Chevron Research Company. Lubricating oil containing an hydroxylated amine and an overbased sulfonate or phenate. 3,711,406, 1-16-73, Cl. 252-33.400.
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Lowell Corporation: *See—*
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Lowell, Francis C., to Research Frontiers Incorporated. Method for maintaining the separation of plates. 3,742,600, 7-3-73, Cl. 29-592.000.
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Lowell, Ross. Portable soft-light assembly. 3,712,978, 1-23-73, Cl. 240-1.300.
Lowell, Rudolph L. Vehicle headlight washing system. 3,719,819, 3-6-73, Cl. 240-7.100.
Lowell, Seymour; and Kapp, Stewart. Method of determining desorption isotherm curve and of scanning hysteresis. 3,771,367, 11-13-73, Cl. 73-432.0ps.
Lowen, Michael David; and Mountford, Allan Reginald, to Laing, John, Research & Development, Limited. Laying of concrete kerbs, haunches and the like. 3,750,063, 7-31-73, Cl. 335-206.000.
Lowenfeld, Rudolf; and Kosubek, Uwe, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the dyeing of textile material made from mixtures of polyester and cellulosic fibers. 3,708,257, 1-2-73, Cl. 8-21.00c.
Lowenfeld, Rudolf; and Kosubek, Uwe, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for dyeing of textile material of mixtures of polyester fibers and cellulose fibers. 3,713,767, 1-30-73, Cl. 8-21.00c.
Lowenhaupt, Edward Harris, III; and Edmunds, Edward, Jr., to S.E.C. Corporation. Metal recovery process. 3,743,585, 7-3-73, Cl. 204-112.000.
Lowenschuss, Oscar: *See—*
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Lowenson, Jeffrey, to AMF Incorporated. Controlled work performing apparatus having control system with record making capability. 3,727,198, 4-10-73, Cl. 340-174.10k.
Lowenstein, John M., to Hoffmann-La Roche Inc. Method of treating obesity. 3,764,692, 10-9-73, Cl. 424-279.000.
Lower, Donald W. Combination optical and radio apparatus. 3,761,815, 9-25-73, Cl. 325-16.000.
Lowery, Dennis J.; and Merchant, Robert E., to Dixson, Inc. Lighting unit arrangements for needed and/or decorative lighting using definite forms such as light blocks. 3,745,327, 7-10-73, Cl. 240-9.00r.
Lowery, Dennis J.; and Merchant, Robert E. Written message receiving and signaling holder. 3,781,844, 12-25-73, Cl. 340-281.000.
Lowey, Francis J.; and Gerding, John E., to Friction Products, Co. Rivetless friction pad for aircraft brakes. 3,710,914, 1-16-73, Cl. 192-107.00r.
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Lowicki, Norbert; and Hanig, Gerndt, to Grillo-Werke Aktiengesellschaft. Process for removing sulfur compounds from gas. 3,761,570, 9-25-73, Cl. 423-225.000.
Lown, Ellsworth H., 1/2 to Charles, Alfred. Apparatus for sensing combustible gases of differing densities. 3,744,289, 7-10-73, Cl. 73-23.000.
Lownes, Irvin S., Jr.: *See—*
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Lowrance, Byron R.: *See—*
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Lowrance, Darrell J., to Lowrance Electronics Mfg., Corporation. Submerged object warning apparatus for ships. 3,740,705, 6-19-73, Cl. 340-3.00r.
Lowrance, Darrell J., to Lowrance Electronics, Inc. Apparatus for providing an indication of the depth of objects in water. 3,781,777, 12-25-73, Cl. 340-3.00c.
Lowrance Electronics, Inc.: *See—*
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Barrett, Burton M.; and Franks, Buyrl A., 3,747,413.
Cramer, Howard A., 3,723,839.
Kriege, Richard P., 3,778,677.

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Lowrance, William W., Jr., to Eastman Kodak Company. Process for the synthesis of phenyl esters. 3,772,389, 11-13-73, Cl. 260-465.00d.
Lowrey, Dean R.: *See—*
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Lowrey, Ernest C. Digger tooth and mounting therefor. 3,755,933, 9-4-73, Cl. 37-142.00r.
Lowrey, Maurice H.: *See—*
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Lowrie, Neely E., to Combustion Engineering Inc. Separator. 3,726,068, 4-10-73, Cl. 55-421.000.
Lowrie, Walter B. Vehicular chock. 3,722,631, 3-27-73, Cl. 188-4.00r.
Lowry, Denis E.: *See—*
Campbell, Jesse L.; Klein, Walter F.; and Lowry, Denis E., 3,730,602.
Lowry, John D., to Ellanin Investments, Ltd. Comb effect elimination. 3,716,670, 2-13-73, Cl. 178-6.70a.
Lowry, John D., to Ellanin Investments, Ltd. Video-to-film conversion process. 3,752,906, 8-14-73, Cl. 178-5.4cd.
Lowry, John D.; and Holland, Kenneth F., to Ellanin Investments, Ltd. Method and apparatus for improving the horizontal of electronically scanned images. 3,752,916, 8-14-73, Cl. 178-7.30r.
Lowry, John D., to Ellanin Investments, Ltd. Predictive-retrospective method for bandwidth improvement. 3,778,543, 12-11-73, Cl. 178-5.40r.
Lowry, Ralph W. Apparatus for the prevention of theft of electrically operated articles. 3,765,008, 10-9-73, Cl. 340-280.000.
Lowry, Ray H., to United States of America, Navy. Backscatter reduction apparatus. 3,766,478, 10-16-73, Cl. 325-65.000.
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Lucas, Raymond Louis Roger. Paper strip processing equipment. 3,718,298, 2-27-73, Cl. 242-58.600.

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Lucci, Joseph A. Trigger and bait arrangement for mouse trap. 3,757,456, 9-11-73, Cl. 43-81.000.

Lucci, Roberto; and Orlandini, Paolo, to S.p.A. VELCA. Portable, folding stepladder. 3,744,591, 7-10-73, Cl. 182-156.000.

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Luce, Nunzio A., to Optel Corporation. Liquid crystal driving and switching apparatus utilizing multivibrations and bidirectional switches. 3,744,049, 7-3-73, Cl. 340-336.000.

Luce, Robert L.; and Schlegel, Earl S., to General Instrument Corporation. Integrated IGFET circuits with increased inversion voltage under metallization runs. 3,766,448, 10-16-73, Cl. 317-235.00r.

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Lucero, Frank J. Cable laying apparatus with off-center inclined earth-penetrating blade. 3,744,260, 7-10-73, Cl. 61-72.600.

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Lucey, George K., Jr., to United States of America, Army. Stress-free rod and eyelet assembly for plastic-to-metal interfaces. 3,773,427, 11-20-73, Cl. 403-165.000.

Luchaco, David G., to Bendix Corporation, The. Circuit for controllably driving a Schmitt trigger in response to preselected variations in an analog input signal and in a digitalized input signal. 3,736,444, 5-29-73, Cl. 307-290.000.

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Lucid, Michael F., to Kerr-McGee Corporation. Vanadium extraction using mixture of alkyl phosphine oxides and fluorinated β-diketones. 3,764,274, 10-9-73, Cl. 423-63.000.

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Lucker, Wilhelm; and Vietz, Helmut, to Dentsche Texaco Aktiengesellschaft. Thermosetting pulverulent binder. 3,755,240, 8-28-73, Cl. 260-33.60r.

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Luckett, Christopher Hawthorn; Cosgrove, John Travers; and Holland, Gordon Christopher, to British Railways Board. Sorting conveyors. 3,750,879, 8-7-73, Cl. 214-1.00r.

Luckett, Gary C.; and Sonoda, George, to International Business Machines Corporation. FET interface circuit. 3,772,607, 11-13-73, Cl. 330-35.000.

Luckey, George W., to Eastman Kodak Company. Silver-dye-bleach photographic materials. 3,708,300, 1-2-73, Cl. 96-73.000.

Luckey, George W.; and De Boer, Charles D., to Eastman Kodak Company. Photosensitive element containing a photosensitive crystalline polyacetylenic compound and a photoconductive inorganic metal salt. 3,772,027, 11-13-73, Cl. 96-88.000.

Luckey, George W., to Eastman Kodak Company. Mixed alkaline earth sulfate phosphor fluorescent screens and radiographic elements. 3,778,615, 12-11-73, Cl. 250-475.000.

Luckey, George Wilson: *See—*
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Luckey, William A. Frieze vent. 3,777,649, 12-11-73, Cl. 98-37.000.

Lucki, Stanley J.: *See—*
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Luczak, Terrence L.; Pudlick, Leonard K.; and Richie, Carlton A., to Owens-Illinois, Inc. Vented closure. 3,717,276, 2-20-73, Cl. 215-40.000.

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Ludeman, Harold H. Cheese package and packaging process. 3,734,750, 5-22-73, Cl. 99-178.000.





Luder, Ernst, and Buzzi, Gunther, to Grohe, Hans, KG, Firma. Rod supported shower slide with eccentric clamp. 3,749,345, 7-31-73, Cl. 248-230.000.

Luderer, Fred: *See—*
Gebhardt, Otto; Luderer, Fred; and Stahlschmidt, Karl-Heinz, 3,709,434.

Luderer, Manfred H.; and Ettenhofer, Anton, to Atlas Copco Aktiebolag. Spray gun for pulverulent material entrained in a gaseous stream. 3,750,949, 8-7-73, Cl. 239-15.000.

Luders, Davis John. Grain storage. 3,727,656, 4-17-73, Cl. 150-1.000.

Luders, Walter; Steppan, Hartmut; and Klupfel, Kurt-Walter, to Kalle Aktiengesellschaft. Polymeric N-carbonyl sulfonamides in photopolymerizable compositions and process for preparation. 3,725,356, 4-3-73, Cl. 260-77.5ch.

Ludewig, Frederick A., Jr., to Environment/One Corporation. Fluid sampling valve. 3,757,583, 9-11-73, Cl. 73-421.50r.

Ludi, R., AG: *See—*
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Ludi, Roger, to Ludi, R., AG. Control apparatus equipped with a relay. 3,727,158, 4-10-73, Cl. 335-145.000.

Ludin, Ludwig: *See—*
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Ludington, Robert L.; and Holloway, Robert M. Brake mechanisms. 3,716,119, 2-13-73, Cl. 188-195.000.

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Ludloff, Wolfgang, to Multiblitz, Dr. Ing. D. A. Mannesmann GmbH. Circuit arrangement for charging a storage capacitor. 3,723,849, 3-27-73, Cl. 321-18.000.

Ludlow Corporation: *See—*
Keck, Jerry L.; and Rowley, James Robert, 3,719,548.

Ludlow, David L. Collision warning indicator. 3,725,934, 4-3-73, Cl. 343-112.0ca.

Ludlow, John L.: *See—*
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Ludlow, Thomas B.; and Champlin, Keith S., to Johanna Plastics, Inc. Liquid testing device for measuring changes in dielectric properties. 3,753,092, 8-14-73, Cl. 324-61.00r.

Ludman, Jacques E., to United States of America, Air Force. Window for high power gaseous lasers. 3,750,048, 7-31-73, Cl. 331-94.500.

Ludoph, Hemmo Hermannes Johannes: *See—*
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Ludueni, Froilan P., to Sterling Drug Inc. Method of producing nasal vasoconstriction. 3,725,552, 4-3-73, Cl. 424-330.000.

Ludvigsen, Hans Thorkil. Tesselation or paving element. 3,722,162, 3-27-73, Cl. 52-608.000.

Ludwick, Lawrence M.; and Maisio, Elmer E., to United States of America, Army, mesne. Missile launching mechanism. 3,732,777, 5-15-73, Cl. 89-1.807.

Ludwig, Arthur C.: *See—*
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Ludwig, Bernard J.: *See—*
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Ludwig, Clarence H. Slicing blade. 3,745,869, 7-17-73, Cl. 83-788.000.

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Ludwig, David P., to Western Electric Company, Incorporated. Method of complaint bonding. 3,743,558, 7-3-73, Cl. 156-73.000.

Ludwig, Frank; Bannehr, Konrad; Rothe, Dieter; and Tschischke, Werner, to VEB Wirkmaschinenbau Karl-Marx-Stadt. Apparatus for controlling pattern drums particularly in circular knitting machine. 3,748,871, 7-31-73, Cl. 66-50.00b.

Ludwig, George C., to Bendix Corporation, The. Thermal control valve. 3,729,132, 4-24-73, Cl. 236-101.000.

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Ludwig, Gustav. Protective shelter installation. 3,709,168, 1-9-73, Cl. 109-1.00s.

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Ludwig, Jerome H.; and Witsken, Kenneth J., to Emery Industries, Inc. Caged boron-nitrogen compounds containing ester substitution. 3,755,388, 8-28-73, Cl. 260-404.000.

Ludwig, Lawrence P., to United States of America, National Aeronautics and Space Administration. Spiral groove seal. 3,767,212, 10-23-73, Cl. 277-25.000.

Ludwig, Louis. Apparatus for improving the grounding connection for an electrical unit. 3,714,614, 1-30-73, Cl. 339-14.00r.

Ludwig, Maier, to Monsanto Company. Polyphosphinic acids and salts thereof. 3,734,954, 5-22-73, Cl. 260-502.40p.

Ludwig, Milton; deceased (by Cline, Gina L.; executrix). Dynamic damper for offshore structures. 3,733,834, 5-22-73, Cl. 61-46.000.

Ludwig, Philip, to Deknatel, Inc. Portable pump. 3,776,666, 12-4-73, Cl. 417-411.000.

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Ludwig, Reinhard, to Electroacustic G.m.b.H. Method and device for evaluating echo signals with echo sounding systems having digital indication. 3,739,325, 6-12-73, Cl. 340-3.00r.

Ludwig, Robert L. Puzzle. 3,758,114, 9-11-73, Cl. 273-159.000.

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Ludwig, Walter, to Schweizerische Industrie-Gesellschaft. Safety device for the firing pin of hand firearms or small arms. 3,724,113, 4-3-73, Cl. 42-70.00f.

Ludwig, William F., Jr., to Ludwig Industries. Bass drum suspension. 3,780,613, 12-25-73, Cl. 84-421.000.

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Luebbe, Ray H., Jr., to Xerox Corporation. Manifold imaging method wherein the activator carries a plastic coating material. 3,723,112, 3-27-73, Cl. 96-1.200.

Luebbe, Ray H., Jr.; Byrne, John F.; and Greeno, Thomas M., to Xerox Corporation. Manifold imaging member and process. 3,741,762, 6-26-73, Cl. 96-1.500.

Luebbe, Ray H., Jr., to Xerox Corporation. Manifold imaging machine. 3,748,034, 7-24-73, Cl. 355-3.000.

Lueben, Robert Q., to Swift & Company. Vented poultry container. 3,735,913, 5-29-73, Cl. 229-6.00r.

Luebrecht, Richard E., to Westinghouse Electric Corporation. Undervoltage sensing circuit. 3,749,944, 7-31-73, Cl. 307-235.00r.

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Luedorf, Carl, & Company: *See—*
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Luft, Robert G., to International Harvester Company. Dual station throttle and service brake control means. 3,743,064, 7-3-73, Cl. 192-3.00r.

Luft, Robert G., to International Harvester Company. Steering system. 3,750,834, 8-7-73, Cl. 180-79.20c.

Luft, Robert G., to International Harvester Company. Steering cylinder. 3,765,306, 10-16-73, Cl. 92-117.00a.





Luft, Walter: *See—*
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Lugosy, Laszlo; Grossa, Mario; and Pistor, Wolfgang, to Du Pont de Nemours, E. I., and Company. Silver halide photographic images. 3,762,922, 10-2-73, Cl. 96-56.000.
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Luiten, Peter H.; and Regus, John U., to Aerojet-General Corporation. Charging valve for pneumatic transport system. 3,773,392, 11-20-73, Cl. 302-52.000.
Luiz, Joseph W. Claw assembly for milking machines. 3,776,196, 12-4-73, Cl. 119-14.360.
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Lukach, Jury Efimovich; Senatos, Vladimir Alexeevich; and Petukhov, Arkady Demyanovich. Disk extruder for processing polymeric materials. 3,781,153, 12-25-73, Cl. 425-207.000.
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Lukas, Josef; and Illig, Dietmar, to Patent-Treuhand-Gesellschaft fur elektrische Gluhlampen m.b.H. Multiflash device, particularly flashcube, with mechanical striking mechanism. 3,737,643, 6-5-73, Cl. 240-1.300.
Lukas, Joseph. Hand mounted eraser. 3,735,442, 5-29-73, Cl. 15-227.000.
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Lukaschewitz, Heinz Kurt; Buchmann, Johannes Walter; and Walther, Bernard Lpu, to VEB Filmfabrik Wolfen-Fotochemisches Kombinat. Plastic magazine for photosensitive sheet materials. 3,721,364, 3-20-73, Cl. 220-41.000.
Lukasik, John A.; and McCarthy, Patrick J., to Ford Motor Company. Adjustable connection. 3,764,158, 10-9-73, Cl. 280-124.00r.
Lukaszczyk, Alfons; and Pissiotas, Georg, to Ciba Limited. Herbicidal method employing chloro-methane sulfonanilides. 3,734,710, 5-22-73, Cl. 71-103.000.
Lukaszek, Theodore J., to United States of America, Army. Crystal plating monitoring system. 3,732,846, 5-15-73, Cl. 118-8.000.
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Lukes, Stephen M.; and Caton, Robert L., to Carpenter Technology Corporation. Process for making thermally hardened wrought stainless steel shaped member having a duplex ferritic/martensitic microstructure. 3,729,344, 4-24-73, Cl. 148-12.400.
Lukhovitsky, Vladimir Isaakovich; Smirnov, Andrei Mikhailovich; Polikarpov, Vladimir Vasilievich; Lebedeva, Alla Mikhailovna; Lagucheva, Raisa Mizovna; and Karpov, Vladimir Lvovich. Method of polymerization of vinyl chloride and producing its copolymers. 3709,804, 1-9-73, Cl. 204-159.220.
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Lukjan, Serge. Bolt and damper construction. 3,722,499, 3-27-73, Cl. 126-292.000.
Lukoshnikov, Valentin Mikhailovich. Horizontal coordinate boring machine. 3,749,509, 7-31-73, Cl. 408-234.000.
Luksas, Anthony J.; and Williams, Wilmore, to Beatrice Foods Co. Production of soy sauce. 3,711,303, 1-16-73, Cl. 99-145.000.
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Lummus, James L.; and Edwards, Carl D., to Amoco Production Company. Inert low-solids drilling fluid. 3,723,311, 3-27-73, Cl. 252-8.50a.
Lumoprint Zindler KG: *See—*
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Lumsden, Alexander D., to Hoyt Wire Cloth Company. Screen. 3,716,138, 2-13-73, Cl. 209-401.000.
Lunardini, Alipio. Road vehicle benches for straightening indentations in vehicle bodies. 3,729,978, 5-1-73, Cl. 72-457.000.
Lunas, Francis J.; Burroughs, Edward E.; and Smith, Franklin G., said Burroughs and Smith assors. to said Lanas, Frances J. Breast pump. 3,738,363, 6-12-73, Cl. 128-281.000.
Lund, Basil Gilbert Alfred. Extracting water from the atmosphere. 3,777,456, 12-11-73, Cl. 55-32.000.
Lund, Carl H.: *See—*
Hockin, John; Lund, Carl H.; and Danesi, Wilbert P., 3,753,697.
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Hockin, John; Lund, Carl H.; and Woulds, Michael J., 3,765,879.
Lund, Carl H., to Martin Marietta Corporation, mesne. Nickel-base alloy. 3,753,698, 8-21-73, Cl. 75-171.000.
Lund, Charles M.: *See—*
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Lund, Donald F.: *See—*
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Lund, Egon, to Danfoss A/S. Method of and apparatus for drying motor compressors. 3,729,832, 5-1-73, Cl. 34-34.000.
Lund, Frantz Johannes, to Lovens Kemiske Fabrik Produktionsaktieselskab. Penicillanic acid in dosage-unit form. 3,755,588, 8-28-73, Cl. 424-271.000.
Lund, Harold E.; and Ericson, John F. E., to Marvel Industries, Inc. Multiple drum clamping unit. 3,718,228, 2-27-73, Cl. 214-620.000.
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Lund, Kerry G., to Pic-A-Tent-Top Carrier, Inc. Boat carrier for use on recreational vehicles. 3,737,083, 6-5-73, Cl. 224-42.10h.
Lund, Norman S.; and Lund, Norman W. Ozone generator and method of making same. 3,739,440, 6-19-73, Cl. 29-25.130.
Lund, Norman W.: *See—*
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Lund, Robert S., to Pettibone Corporation. Apparatus for the continuous mixing of granular materials. 3,730,487, 5-1-73, Cl. 259-6.000.
Lundahl, Ezra C., Inc.: *See—*
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Lundahl, Ezra Cordell, to Lundahl, Ezra C., Inc. Suspension system. 3,715,129, 2-6-73, Cl. 280-104.50r.
Lundahl, Ezra Cordell, to Hesston Corporation. Hay loader. 3,728,849, 4-24-73, Cl. 56-1.000.
Lundahl, Ezra Cordell, to Lundahl, Ezra C., Inc. Air delivery system. 3,734,568, 5-22-73, Cl. 302-47.000.
Lundahl, Ezra Cordell, to Lundahl, Ezra C., Inc. Compacting system for stacking bulk hay. 3,744,228, 7-10-73, Cl. 56-344.000.
Lundahl, Ezra Cordell, to Lundahl, Ezra C., Inc. Accumulating chamber for compacting hay wagon. 3,768,679, 10-30-73, Cl. 214-519.000.
Lundback, Bertil, to Allmanna Svenska Elektriska Aktiebolaget. Die for hydrostatic extrusion of sections having elongated projections. 3,765,222, 10-16-73, Cl. 72-467.000.
Lundberg, Borje Oskar, to AB Grindex. Machine for the sharpening of impact rock drills with chisel cutting edges. 3,739,529, 6-19-73, Cl. 51-92.00r.
Lundberg, Charles A., Jr.; and Engelhart, John E., to Esso Research and Engineering Company. N-[2-(4,5,6,7-Tetrahydrobenzothienyl)]-ureas. 3,776,924, 12-4-73, Cl. 260-332.20r.
Lundberg, Derek Anthony, to Elliott Brothers (London) Limited. Neutron beam collimators. 3,781,564, 12-25-73, Cl. 250-505.000.
Lundberg, George, to Brooks, E. J., Company Incorporated. Seal manufacturing machine. 3,752,633, 8-14-73, Cl. 425-343.000.
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Lunde, Thomas I. Container fastener means. 3,734,442, 5-22-73, Cl. 248-361.000.
Lunde, Thomas Trygve. Log barge. 3,757,724, 9-11-73, Cl. 114-27.000.
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Lunden, Sidney L., to Moore-lem, Inc. Lumber stacking apparatus. 3,737,053, 6-5-73, Cl. 214-6.0dk.
Lunden, Walter W.: *See—*
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Lundergan, Robert Graham, to AMP Incorporated. Square post connector. 3,748,633, 7-24-73, Cl. 339-217.00s.
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Lundgren, Ken C. Cartridge catcher. 3,739,685, 6-19-73, Cl. 89-33.00f.
Lundin, Charles E., to Colorado Springs National Bank. Method and composition for incorporating additives into molten metal. 3,713,813, 1-30-73, Cl. 75-135.000.
Lundin, Charles E.; and Turkisher, Robert, to Colorado Springs National Bank. Copper-lead alloys. 3,719,477, 3-6-73, Cl. 75-135.000.
Lundin, Charles E., to Colorado Springs National Bank. Copper-lead alloy. 3,720,507, 3-13-73, Cl. 75-135.000.
Lundin, Erik L., to Hansson, Sven, & Co. AB. Method of folding and bundling large sacks. 3,712,018, 1-23-73, Cl. 53-21.0fw.
Lundin, Eva. Neck band. 3,778,847, 12-18-73, Cl. 2-146.000.
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Lunt, Wilbur B., to United States of America, Navy. Electrostatic

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Lundman, Oskar Sigurd; and Nilsson, Karl Aston, to Renholmens Mekaniska Verkstad AB. Striking machine. 3,747,691, 7-24-73, Cl. 173-119.000.
Lundman, Philip L. Conduit flusher. 3,714,951, 2-6-73, Cl. 134-167.00c.
Lundmark, Lars-Erik; and Larsson, Evald, to AB Krima Maskinfabrik. Machine for converting wooden pieces into chips. 3,759,304, 9-18-73, Cl. 144-180.000.
Lundquist, Ingemar H. Automatic card reading push button telephone system utilizing fluid pressure and technique. 3,723,664, 3-27-73, Cl. 179-90.0cs.
Lundquist, Ingemar H.; and Pastrone, John, to Memorex Corporation, mesne. Typewriter dual feed apparatus. 3,753,483, 8-21-73, Cl. 197-127.00r.
Lundquist, Jerry R.: *See—*
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Lundquist, Richard E.; and Kerr, William J., to Motorola, Inc. Thick film feed-through capacitor. 3,745,430, 7-10-73, Cl. 317-256.000.
Lundquist, Robert L.; and Mathey, Charles J., to Motorola, Inc. Multi-band radio receiver. 3,745,467, 7-10-73, Cl. 325-304.000.
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Lundsgart, Henning Borge, to Dansk Industri Syndikat A/S. Machine for producing moulds consisting of identical mould parts. 3,744,552, 7-10-73, Cl. 164-187.000.
Lundstedt, Erik, to Hood, H. P., Sons, Inc. Method of drying acid whey and sweet skim milk solids in combination. 3,708,307, 1-2-73, Cl. 99-57.000.
Lundstedt, Erik; and Lo, Frank Yau-Yee, to Hong Kong Soya Bean Products Co. Ltd., The. Preparation of soybean blue cheese from milk. 3,743,515, 7-3-73, Cl. 99-116.000.
Lundstedt, Erik; and Lo, Frank Yau-Yee, to Hong Kong Soya Bean Products Co., Ltd., The. Preparation of cheese from soybean milk. 3,743,516, 7-3-73, Cl. 99-116.000.
Lundstrom, Jan-Horje; Nyberg, Ake; Hamlin, Roland; and Astberg, Ake, to Svenska Rotor Maskiner Aktiebolag. Rotary internal combustion engine. 3,777,723, 12-11-73, Cl. 123-8.470.
Lundstrom, Jerry E., to General Electric Company. Method for production casting of ultrathin polymer membranes. 3,767,737, 10-23-73, Cl. 264-41.000.
Lundvall, Elmer E.; and Lundvall, Roy. Drive for the towers of a self-propelled sprinkler. 3,766,937, 10-23-73, Cl. 137-344.000.
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Lunn, John Gilmer; and Helgeson, Gerald Loren, to Hormel, Geo. A., & Co. Hinged suspension device. 3,766,604, 10-23-73, Cl. 17-44.200.
Lunney, Helen P., to Lee, Raymond, Organization, Inc., The. Bag with collapsible umbrella. 3,730,197, 5-1-73, Cl. 135-16.000.
Lunsford, Carl D.: *See—*
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Lunt, Wilbur B., to United States of America, Navy. Electrostatic contact fuze. 3,722,415, 3-27-73, Cl. 102-70.20r.
Lunt, Wilbur B.; and Brown, Maurice H., to United States of America, Navy. Fuze function selection and firing system. 3,722,416, 3-27-73, Cl. 102-70.20r.
Lunts, Lawrence H. C.; and Toon, Paul, to Allen & Hanburys Limited. Phenylaminoethanol derivatives. 3,732,300, 5-8-73, Cl. 260-559.00s.
Luo, Zong S.: *See—*
Beery, Jack; and Luo, Zong S., 3,751,025.
Luo, Zung-Shyung, to Burroughs Corporation. Progammably variable capacitor for use in a capacitive function generator. 3,777,226, 12-4-73, Cl. 317-249.00r.
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Lupert, Rosemarie. Apparatus for proportionally dosing a plurality of liquids. 3,737,073, 6-5-73, Cl. 222-134.000.
Luperti, Harry E.; Reid, Robert R.; and Waber, Anthony, to Pitney-Bowes, Inc. Method and apparatus for handling tape. 3,712,527, 1-23-73, Cl. 226-136.000.
Lupinski, John H., to General Electric Company. Electroconductive coatings on non-conductive substrates. 3,764,280, 10-9-73, Cl. 29-195.000.
Lupinsky, Pesach. Modified L furniture structure. 3,743,353, 7-3-73, Cl. 297-445.000.
Lupke, Kurt; Ragg, Uban; and Diessel, Gunter. Method and apparatus for converting digital input signals into distinct output positions or velocities. 3,732,027, 5-8-73, Cl. 415-51.000.
Lupton Brothers Limited: *See—*
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Luquain, Jean Claude, to Societe Lucien Ferraz & Cie. Indicator circuits for electric fuse devices. 3,729,656, 4-24-73, Cl. 317-40.00a.
Luraschi, Marisa. Manufacturing process and machine for producing an extruded thermoplastic laminate with multishaped variegation. 3,718,413, 2-27-73, Cl. 425-130.000.
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Luschen, Fred H.; and Piccony, Raymond C. Removable infant seat. 3,743,321, 7-3-73, Cl. 280-202.000.
Luscher, Paul; Hudson, Ben A.; and Childers, Billie W. Apparatus for coating and impregnating texturized yarn. 3,730,137, 5-1-73, Cl. 118-325.000.
Luscher, Werner P.; and Schoenman, Leonard, to Aerojet-General Corporation. Cooling passages wafer blade assemblies for turbine engines, compressors and the like. 3,778,183, 12-11-73, Cl. 415-115.000.
Luse, Joe R. Pickup camper loading arrangement. 3,738,517, 6-12-73, Cl. 214-515.000.
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Lusk, George E.; and Nicholas, James H., to G & W Electric Specialty Company. Apparatus and method for dynamically cooling a cable termination. 3,758,699, 9-11-73, Cl. 174-19.000.
Lusk, Grady L. Transportable vehicle. 3,738,684, 6-12-73, Cl. 280-491.00r.



Lusk, Harold B.; Cooke, Herbert E.; and Pryor, Leon D., to Beaunit Corporation. Method for treating yarn. 3,729,916, 5-1-73, Cl. 57-34.0hs.
Lusk, Joe F.; Rood, William H.; and Feldman, Herbert L., to General Public Utilities Corporation, mesne. Meter interrogation system having strobe logic control. 3,733,586, 5-15-73, Cl. 340-151.00r.
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Lussling, Theodor; Theissen, Ferdinand; and Weigert, Wolfgang, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of malononitrile. 3,729,499, 4-24-73, Cl. 260-465.80r.
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Lustig, Claude D.; and Baird, Albert W., III, to Sperry Rand Corporation. Digitally addressable gas discharge display apparatus. 3,753,041, 8-14-73, Cl. 315-169.0tv.
Lustig, Claude D., to Sperry Rand Corporation. D.C. gas discharge display apparatus with pulse train memory sustaining potential. 3,778,674, 12-11-73, Cl. 315-169.00r.
Lustig, Claude D.; and Baird, Albert W., III, to Sperry Rand Corporation. Gas discharge display apparatus. 3,781,587, 12-25-73, Cl. 313-217.000.
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Lute, Lawrence R. Electrical indicator. 3,750,130, 7-31-73, Cl. 340-267.00c.
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Luther, Klaus; and Schmid, Franz, to Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Liquid cooling system for exhaust valves of internal combustion engines. 3,719,175, 3-6-73, Cl. 123-41.140.
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Luthi, Oscar, to Improved Machinery Inc. Pump having discharge baffle means. 3,746,482, 7-17-73, Cl. 418-201.000.
Luthi, Oscar; and Carlsmith, Lawrence A., to Improved Machinery, Inc. Apparatus and method for thickening and washing suspensions containing fibrous material. 3,772,144, 11-13-73, Cl. 162-210.000.
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Luton, James N., Jr., to United States of America, Atomic Energy Commission. Passive energy dump for superconducting coil protection. 3,711,744, 1-16-73, Cl. 317-13.00d.
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Lutts, Carlton G.; and Brennan, John W., to USM Corporation. Fabric pick-up mechanism. 3,756,587, 9-4-73, Cl. 271-20.000.
Lutz, Albert William, to American Cyanamid Company. Certain 6-tri fluoromethylcytosines and thiocytosines, their synthesis, and their use in the synthesis of uracils and thiouracils. 3,781,324, 12-25-73, Cl. 260-465.00d.
Lutz, Alfons; and Kandler, Georg, to Webasto-Werk W. Baier KG. Lifting and clamping device for rigid sliding roofs of automobiles. 3,737,194, 6-5-73, Cl. 296-137.00e.
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Lutz, David E., to Minicube System, Inc. Mobile cargo storage unit. 3,727,785, 4-17-73, Cl. 217-12.00r.
Lutz, David E., to Minicube System, Inc. Container. 3,760,970, 9-25-73, Cl. 220-4.00f.
Lutz, David E. Article handling system. 3,777,916, 12-11-73, Cl. 214-519.000.
Lutz, David Edward. Traveling walking beam conveyor. 3,767,064, 10-23-73, Cl. 214-1.00r.
Lutz, David L., to Kenco Engineering, Incorporated. Shroud for asphalt mixer paddle. 3,773,436, 11-20-73, Cl. 416-210.000.
Lutz, Dieter, to Fichtel & Sachs AG. Vehicular suspension system having pneumatic springs. 3,726,517, 4-10-73, Cl. 267-64.00r.
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Lutz, Herbert; Marhoff, Paul; Pfeiler, Manfred; Frunn, Klaus; and Goering, Ulrich, to Siemens Aktiengesellschaft. Inscribing device. 3,749,868, 7-31-73, Cl. 346-23.000.
Lutz, Jean, to Societe Nationale des Petroles d'Aquitaine. Process for measuring wear on a drilling tool. 3,714,822, 2-6-73, Cl. 73-104.000.
Lutz, John T., Jr.; and Lane, Constance A., to Rohm & Haas Company. Vinyl halide resins plasticized with an acylated polyester of a dibasic acid and a mixture of glycols. 3,723,369, 3-27-73, Cl. 260-22.0cb.
Lutz, John T., Jr., to Rohm & Haas Company. Biocide for plasticized PVC. 3,755,224, 8-28-73, Cl. 260-23.0ep.
Lutz, Karl: *See—*
Leber, Jean-Pierre; and Lutz, Karl, 3,758,645.
Lutz, Karl; and Schuler, Max, to Sandoz Ltd.; a/k/a Sandoz AG. O-lower alkyl-O-[2 alkoxycarbonyl-methyl] vinyl-monoalkylamido phosphates. 3,709,960, 1-9-73, Cl. 260-941.000.
Lutz, Karl Anton, to Siemens Aktiengesellschaft. Switching center for PCM-time multiplex telephone network. 3,708,626, 1-2-73, Cl. 179-18.00j.
Lutz, Kenneth V. Asphalt mixer tip and shank assembly. 3,738,774, 6-12-73, Cl. 416-210.000.
Lutz, Kenneth V. Replaceable shoe for auger. 3,762,537, 10-2-73, Cl. 198-213.000.
Lutz, Manfred, to Fichtel & Sachs AG. Coupling element for a cone coupling. 3,735,849, 5-29-73, Cl. 192-108.000.
Lutz, Michael A., to Hughes Aircraft Company. Voltage-dividing DC circuit breaker and method. 3,777,179, 12-4-73, Cl. 307-136.000.
Lutz, Paul D.; and Booth, William M., to Carlon Meter Company, Inc. Fluid flow meter. 3,772,917, 11-20-73, Cl. 73-231.00r.



Lutz, Robert E.; and Lutz, Robert E., Jr., to Lutz Industries, Inc. Method and apparatus for forming a cylindrical container. 3,722,251, 3-27-73, Cl. 72-347.000.
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Lutz, Pierre. Inflatable emergency device. 3,735,723, 5-29-73, Cl. 116-124.00b.
Lutz, Rober Clare; and Bernacchi, Jerald R., to Advanced Memory Systems. High speed sense amplifier. 3,760,194, 9-18-73, Cl. 307-235.00r.
Lutz, Robert J.: *See—*
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Lutz, Russell L. Hydraulic brake mechanism. 3,739,579, 6-19-73, Cl. 60-54.60r.
Lutz, Virgil L., to International Paper Company. Carton slicer. 3,741,081, 6-26-73, Cl. 93-36.00r.
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Luvisi, Fred P.; Filachione, Edward M.; and Hopkins, William J., to United States of America, Agriculture. Lubricants for hides and leather. 3,749,669, 7-31-73, Cl. 252-8.570.
Luvisi, Fred P.; Filachione, Edward M.; and Hopkins, William J., to United States of America, Agriculture. Process for lubricating leather. 3,770,372, 11-6-73, Cl. 8-94.230.
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Lux, George K.; Ellis, James B.; and Schulze, John J., to Addressograph-Multigraph Corporation. Photoelectrostatic copying machine. 3,708,161, 1-2-73, Cl. 271-9.000.
Lux, Philip G., to Lux Company, Inc. Telescopic support and improved means of locking the same. 3,734,441, 5-22-73, Cl. 248-354.00c.
Lux, William J., to Honeywell Inc. Method of providing axially aligned molded parts in non-aligned apertured walls of a performed member. 3,716,613, 2-13-73, Cl. 264-254.000.
Luxair Inc.: *See—*
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Luxembourg, Henry. Wrist watch shield. 3,712,049, 1-23-73, Cl. 58-105.000.
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Lybecker, Robert W.; and Wahrmund, Kermit A. Hydraulic driven piston pump. 3,779,671, 12-18-73, Cl. 417-393.000.
Lyco Manufacturing, Inc.: *See—*
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Lyczko, Felix J., to Inter-Probe, Inc. Cooling apparatus. 3,747,284, 7-24-73, Cl. 51-267.000.
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Lyday, Richard W.: *See—*
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Lyder, Alfred W. Wheel chair locking arrangement. 3,752,265, 8-14-73, Cl. 188-2.00f.
Lyengar, Madhur Srinivas; Hague, Rezaul; Chakrabarty, Banjit Kumar; and Singh, Abhay Kumar, to Council of Scientific & Industrial Research. Process for the production of carbon black from coal. 3,773,904, 11-20-73, Cl. 423-449.000.
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Lykken, Lowell O.; and Shah, Naren M., to Lear Siegler, Inc. Aircraft flight control apparatus. 3,743,221, 7-3-73, Cl. 244-77.00a.
Lykken, Lowell O.; and Schulze, Erwin E., Jr., to Lear Siegler, Inc. Dead reckoning back-up navigational system for a drone. 3,749,333, 7-31-73, Cl. 244-3.150.
Lyles, George Albert, to Trendmark Limited. Display device. 3,739,508, 6-19-73, Cl. 40-10.000.
Lyman, Frank, Jr., to Cambridge Thermionic Corporation. Stepping motor. 3,757,147, 9-4-73, Cl. 310-49.000.
Lyman, George F., to Data Packaging Corporation. Tape reel. 3,753,533, 8-21-73, Cl. 242-55.19a.
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Lyman, John B.; and Turner, Phillip H., to Whirlpool Corporation. Water control for ice maker. 3,740,963, 6-26-73, Cl. 62-66.000.
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Lyman, Merton C., Jr., to North American Rockwell Corporation. Weft yarn control device. 3,731,714, 5-8-73, Cl. 139-302.000.
Lyman, Richard E., to United States Steel Corporation. Method of feeding continuous-casting machines using controlled gas pressure head. 3,743,138, 7-3-73, Cl. 222-1.000.
Lyman, Richard E., to United States Steel Corporation. Method and apparatus for initiating pouring from a blocked opening of a bottom pour vessel. 3,743,139, 7-3-73, Cl. 222-1.000.
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Lynch, Charles Andrew, Jr.; and Orwoll, Edward Francis, to FMC Corporation. Fireproofing cellulose with complexes of heavy metal salts of acid phosphate esters. 3,740,264, 6-19-73, Cl. 117-136.000.
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Lynch Communication Systems, Inc.: *See—*
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Lynch, David D., to General Motors Corporation. Rotating-wave rotation detector and method of operating same. 3,719,074, 3-6-73, Cl. 73-505.000.
Lynch, Edward J.; and Gray, Darwyn T., to United States of America, National Aeronautics and Space Administration. Three-axis, adjustable loading structure. 3,776,028, 12-4-73, Cl. 73-88.00r.
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Lynch, George W.; and Zarowin, Charles B., to International Business Machines Corporation. Inverter power supply employing series connected multi-transistor switches. 3,716,777, 2-13-73, Cl. 321-27.00r.
Lynch, James Edward, to AMP Incorporated. Method of making an electrical connection using a coined post with solder stripe. 3,780,433, 12-25-73, Cl. 29-628.000.
Lynch, John C., to McGraw-Edison Company. Auxiliary means for completing current transformer secondary winding circuit. 3,723,812, 3-27-73, Cl. 317-14.00a.
Lynch, John F., to National Beryllia Corporation. Composite ceramic articles. 3,725,186, 4-3-73, Cl. 161-109.000.
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Lynch, Ralph Sylvester; and Ayache, Haled Bou, to RCA Corporation. Nutation damper. 3,716,206, 2-13-73, Cl. 244-15.00a.
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Lynch, Robert P. Underwater pipeline and cable trenching apparatus. 3,732,700, 5-15-73, Cl. 61-72.400.
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Lynd, Langtry E.; and Miklebust, Olav, to N L Industries, Inc. Process for continuously leaching titaniferous materials. 3,719,468, 3-6-73, Cl. 75-1.000.
Lynde, Edward A. Safety lock assemhly. 3,740,090, 6-19-73, Cl. 296-35.00r.
Lyne, Cornelius M.; Kasak, August; and Stasko, William, to Crucible Steel Company of America. Ultra-high strength steel. 3,778,253, 12-11-73, Cl. 75-123.00r.
Lynes, Dennis Joseph, to Bell Telephone Laboratories, Incorporated. Two-terminal NPN-PNP transistor memory cell. 3,715,732, 2-6-73, Cl. 340-173.00r.
Lynes, Dennis Joseph; and Panousis, Peter Theodore, to Bell Telephone Laboratories, Incorporated. Two-terminal nondestructive read JFET-NPN transistor semiconductor memory. 3,753,248, 8-14-73, Cl. 340-173.00r.
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Lyness, Warren I., to Procter & Gamble Company, The. Mono- and diphthalimido derivatives and their use in detergent and bleach compositions. 3,714,151, 1-30-73, Cl. 260-240.0ca.
Lyng, Bjorn, to Lyng Industrier A/S. Annular expanding ring structure. 3,732,054, 5-8-73, Cl. 425-393.000.
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Lynn, James B.; and Singleton, Alan H., to Bethlehem Steel Corporation. Process for recovering carvon monoxide from fuel gas. 3,716,619, 2-13-73, Cl. 423-247.000.
Lynn, James D. Refuse can holder. 3,749,414, 7-31-73, Cl. 280-47.190.
Lynn, John D.: *See—*
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Lynn, John D.; and Sloughfy, James L., to Bethlehem Steel Corporation. Process for separating carbon from iron-bearing fines in blast furnace flue dusts. 3,770,213, 11-6-73, Cl. 241-24.000.
Lynn, John R.; and Tate, George W., Jr. Automatic visual examination including fixation monitoring and compensation. 3,718,386, 2-27-73, Cl. 351-39.000.
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Lynott, John J.; and Stevens, Louis D., to International Business Machines Corporation. Continuous spiral, rotating head and disk video buffer system. 3,757,030, 9-4-73, Cl. 179-100.20t.
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Lyon, Claude Bernard, to Agence Nationale de Valorisation de la Recherche (ANVAR). Crop harvesting machines. 3,768,240, 10-30-73, Cl. 56-330.000.
Lyon, Clifford R. Motor mount. 3,750,988, 8-7-73, Cl. 248-4.000.
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Lyon, John Bennett; and Yang, Hung Han, to Du Pont de Nemours, E. I., and Company. Apparatus for extruding thermoplastic tubing. 3,765,808, 10-16-73, Cl. 425-72.000.
Lyon, John Jeffrey; Lyon, Merrill K.; and Stipkovich, L. Noel, to Medical Engineering Development Company. Multi-articulated table. 3,754,749, 8-28-73, Cl. 269-325.000.
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Lyon, Richard H.; and Robertson, John A., to Mead Corporation, The. Apparatus and method for generation of drops using bending waves. 3,739,393, 6-12-73, Cl. 346-1.000.
Lyon, Richard K., to Esso Research and Engineering Company. Thermal alkylation with low paraffin to ethylene mole ratio. 3,764,637, 10-9-73, Cl. 260-683.470.
Lyon, Richard L. Alloy for dental use. 3,749,570, 7-31-73, Cl. 75-171.000.
Lyon, Robert B.: *See—*
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Lyon, Robert J., to United States of America, Navy. Destructor sterilizer. 3,745,922, 7-17-73, Cl. 102-16.000.
Lyon, Russell P.; and Koenig, Paul W., to General Electric Company. Rectifier bridge. 3,754,169, 8-21-73, Cl. 317-234.00r.



Lyon, T. Goodwin, to Relaxaway Corporation. Combination bath

Lyon, T. Goodwin, to Relaxaway Corporation. Combination bath aerator and hair dryer. 3,750,657, 8-7-73, Cl. 128-66.000.
Lyon, Thomas R. Method and service kit for revitalizing shock absorbers. 3,751,786, 8-14-73, Cl. 29-401.000.
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Lyon, Zeno G., to International Telephone and Telegraph Corporation. Non-cooperative collision avoidance system. 3,714,651, 1-30-73, Cl. 343-9.000.
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Lyons, James A., Jr.: *See—*
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Lyons, James Francis; and De Filippis, Tullio, to Control Data Corporation, mesne. Beam former. 3,723,955, 3-27-73, Cl. 340-5.00r.
Lyons, James Wilfred, to Hawker Siddeley Aviation Limited. Cassegrain antenna mounted in aircraft nose cone. 3,708,795, 1-2-73, Cl. 343-708.000.
Lyons, John Alexander, to Creative Engineering Limited. Extensible structural members. 3,751,863, 8-14-73, Cl. 52-111.000.
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Lyons, Raymond T.; and Pladek, Max, to Textile Cutting Corporation. Web cutting process. 3,772,112, 11-13-73, Cl. 156-88.000.
Lyons, Richard J.; and Egger, Luis G., to United Merchants and Manufacturers, Inc. Tone-on-tone resin bonded pigmenting of flock printed fabric with low temperature air drying. 3,751,284, 8-7-73, Cl. 117-28.000.
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MacDuff, Stanley I., to Bendix Corporation, The. Hydraulic pressure modulator. 3,724,915, 4-3-73, Cl. 303-21.00f.
MacDuff, Stanley I., to Bendix Corporation, The. Adaptive braking system with hydraulically powered modulator. 3,729,169, 4-24-73, Cl. 251-129.000.
MacDuff, Stanley I., to Bendix Corporation, The. Emergency pump system with duplicate fluid lines. 3,733,817, 5-22-73, Cl. 60-405.000.
MacDuff, Stanley I., to Bendix Corporation, The. Auxiliary electric motor drive for power steering pum. 3,734,226, 5-22-73, Cl. 180-79.20r.
Mace, Irving. Combination cleat and bumper. 3,709,183, 1-9-73, Cl. 114-220.000.
MacEwen, George E., to Phillips Petroleum Company. Gable topped container and paperboard blank. 3,722,780, 3-27-73, Cl. 229-17.00g.
Macey, Anne M.: *See—*
Macey, James G., 3,773,471.
Macey, Frank G.; and Reif, Robert H., to Sylvania Electric Products, Inc. Information processing system. 3,714,397, 1-30-73, Cl. 235-61.11e.
Macey, Frank G., to Servo Corporation of America, mesne. Amplifier circuit having a controllable gain. 3,714,602, 1-30-73, Cl. 330-86.000.
Macey, James G., 50% to Prestininzi, Pete, 50% to Macey, Ruth G. and Macey, Anne M. Apparatus for making anhydrous magnesium chloride. 3,773,471, 11-20-73, Cl. 23-277.00r.
Macey, Ruth G.: *See—*
Macey, James G., 3,773,471.
MacFarland, Charles H., to Scott & Fetzer Company, The. Hand held vibrator with flexible drive shaft. 3,735,757, 5-29-73, Cl. 128-36.000.
MacFarlane, Iain Mackay, to Fiber Industries, Inc. Yarn process. 3,708,970, 1-9-73, Cl. 57-140.00r.
MacFarlane, John, to Bross, Theodore D., Line Construction Corporation, The. A.C. powered surveillance system. 3,766,537, 10-16-73, Cl. 340-276.000.
MacGeorge, William D., to Testing Technology Corporation. Force measuring apparatus. 3,713,333, 1-30-73, Cl. 73-141.00a.
MacGinitie, Gordon F.: *See—*
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Macgregor, Douglas J. H.: *See—*
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Macguire-Cooper, Richard Terence. Nozzles. 3,743,189, 7-3-73, Cl. 239-579.000.
Mach Chemical Company: *See—*
Andersen, Marinus Leland, 3,774,104.
Mach, Jan; and Rybap, Vaclav, to Hutni druhovgroba, generalni reditelstvi. Method of and apparatus for heating of liquids. 3,777,717, 12-11-73, Cl. 122-156.000.
Mach, Lumir: *See—*
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Mach, Richard L.; Studley, Edward; and Haas, Thomas W., to American Standard, Inc. Plastic molding process. 3,766,186, 10-16-73, Cl. 264-269.000.
Machacek, Jiri: *See—*
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Machacek, Joseph F.: *See—*
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Machado, Joseph, to Avid Corporation. Self retractable sound plug. 3,721,313, 3-20-73, Cl. 181-31.00r.
Machala, John M. Concrete pit and deck construction for platform scales and method of making the same. 3,727,707, 4-17-73, Cl. 177-134.000.
Machatsch, Adalbert. Roller Skates. 3,774,924, 11-27-73, Cl. 280-11.280.
Macheboeuf, Guy R., to Office de Radiodiffusion-Television Francaise. Method and apparatus for replacing a part of a first television image by a part of a second television image. 3,764,732, 10-9-73, Cl. 178-5.40r.
Macheel, Gary W., to Hydril Company. Remote station address verification using address conditioned encoding. 3,735,351, 5-22-73, Cl. 340-146.10c.
Machek, John A., to Wagner Electric Corporation. Anti-rattle device for a disc brake. 3,710,896, 1-16-73, Cl. 188-73.500.
Machek, John A., to Wagner Electric Corporation. Anti-skid mechanism. 3,752,536, 8-14-73, Cl. 303-21.00f.
Machek, John A., to Wagner Electric Corporation. Brake anti-lock mechanism. 3,758,167, 9-11-73, Cl. 303-40.000.
MacHenry, Richard; and Chang, Pei Tsing, to FMC Corporation. Method and apparatus for space dyeing strand material. 3,779,704, 12-18-73, Cl. 8-149.000.
Machenschalk, Rudolf A.: *See—*
Sedlatschek, Karl; Machenschalk, Rudolf A.; and Natter, Bernd, 3,719,854.
Machida, Hazime; Tsurugi, Akira; and Okuno, Zenjiro, to Kabushiki Kaisha Ricoh. Liquid developer for electrostatic latent image. 3,729,418, 4-24-73, Cl. 252-62.100.
Machida, Kanji: *See—*
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Machida, Katsutoshi: *See—*
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Machida, Takayasu: *See—*
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Machin, James Robert; Colston, John Matthew; and Jibb, David John, to Elliott Brothers (London) Limited. CRT display system with circle drawing. 3,761,765, 9-25-73, Cl. 315-23.000.
Machinami, Tomoya: *See—*
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Machine Ice Co.: *See—*
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Machlanski, Henry T. Capacitance difference measuring circuit. 3,775,687, 11-27-73, Cl. 324-60.00c.
Machlanski, Sigmund H. Orchard heating system and burner. 3,750,642, 8-7-73, Cl. 126-59.500.
Machleidt, Hans: *See—*
Kruger, Gerd; Zipp, Otmar; Keck, Johannes; Nickl, Josef; Machleidt, Hans; Ohnacker, Gerhard; Engelhorn, Robert; and Puschmann, Sigfrid, 3,712,924.
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Landgraf, Claus-Adolf; Seeger, Ernst; Engel, Wolfhard; Teufel, Helmut; and Machleidt, Hans, 3,769,299.
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Holland, William P.; and Bavor, Gordon F., 3,743,836.
Langer, Helmut; and Fengler, William W., 3,735,176.
Merritt, William H., 3,758,801.
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Randmer, Jacob A., 3,770,934.
Singer, Barry M., 3,766,422.
Machmiller, Alfred A., to International Business Machines Corporation. Vertical centrifugal spin coating method. 3,730,760, 5-1-73, Cl. 117-101.000.
Machner, Peter: *See—*
Holzgruber, Wolfgang; Machner, Peter; Schneihofer, Adolf; Kleinhagauer, Otmar; and Cerwenka, Peter, 3,781,448.
Plockinger, Erwin; Holzgruber, Wolfgang; and Machner, Peter, 3,767,831.
Machon, Raymond; Flechet, Jean; and Hugo, Etienne. Method for scouring and dyeing silk in a single operation. 3,721,522, 3-20-73, Cl. 8-19.000.
Machova, Helena: *See—*
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Maci, Raymond J., to General Motors Corporation. Transmission control and steering arrangement with senser switch assembly. 3,773,990, 11-20-73, Cl. 200-61.540.
Macidull, John C. Fruit harvesting apparatus. 3,756,001, 9-4-73, Cl. 56-328.000.
Maciejewski, Mieczyslaw. Anticorrosive hot-dip strippable coating material and method for producing same. 3,752,779, 8-14-73, Cl. 260-23.00h.
Maciel, Richard W., to Lee, Raymond, Organization, Inc., The. Fisherman's pouch. 3,747,258, 7-24-73, Cl. 43-57.50r.
Macielinski, Jerzy Witold, to GKN Birfield Transmissions Limited. Constant velocity universal joints. 3,714,798, 2-6-73, Cl. 64-21.000.
MacIndoe, Robert C.: *See—*
Roerty, Dennis F.; and MacIndoe, Robert C., 3,778,712.
MacInnes, Hamish, to Trevor Peck Climbing Equipment Limited. Ice axes. 3,719,179, 3-6-73, Cl. 125-36.000.
MacInnes, John M.; and Saumsiegle, Robert W., to Owens-Illinois, Inc. Machine for assembling groups of containers. 3,714,756, 2-6-73, Cl. 53-48.000.
MacInnes, Richard D.: *See—*
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MacInnes, William F.: *See—*
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Macinnis, Joseph Beverly. Small portable underwater observation and communication chamber. 3,712,070, 1-23-73, Cl. 61-69.000.
MacInnis, Martin B.: *See—*
Kim, Tai K.; Paganozzi, L. Rita; MacInnis, Martin B.; and Laferty, John M., 3,770,869.
Macintosh, Charles. Foldable grandstand. 3,748,798, 7-31-73, Cl. 52-10.000.
Macintyre, John S.: *See—*
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Macioge, Frank Anthony; and Ingersoll, Henry Grant, to Cantebury Tales, Inc. Modular showcase. 3,721,484, 3-20-73, Cl. 312-245.000.
Maciolek, Joseph R., to United Aircraft Corporation. Direct lift, drag and heading improvement for multi-lift aircraft control system. 3,743,214, 7-3-73, Cl. 244-2.000.
Maciolek, Joseph R.; and Wallace, John J., to United Aircraft Corporation. Multi-lift aircraft control system. 3,746,279, 7-17-73, Cl. 244-2.000.
Maclorowski, Anthony E. Offset key punch key and verifier machine for encoding punch cards. 3,743,175, 7-3-73, Cl. 234-30.000.
Maciorowski, Anthony E. Method for encoding punch cards. 3,776,452, 12-4-73, Cl. 234-1.000.
MacIsaac, John T., Jr.; and Troy, James E., to Fieldcrest Mills, Inc. Tufted pile fabrics and method of making same. 3,722,442, 3-27-73, Cl. 112-410.000.
Maciula, Andrew; Tiederman, William G.; and Reed, Robert E., to Oklahoma State University. Hydroclone for simultaneously separating immiscible heavier liquids and solids from a liquid medium. 3,776,385, 12-4-73, Cl. 210-304.000.
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Mack, Frank J., to Drackett Company, The. Safety closure for containers. 3,758,000, 9-11-73, Cl. 222-143.000.
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Mack, Ingham A. G.; and Mack, Frank J., 3,758,002.
Mack, Ingham A. G.; and Mack, Frank J., 3,758,003.
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White, Marvin H.; McCann, David H., Jr.; Mack, Ingham A. G.; and Blaha, Franklyn C., 3,781,574.
Mack, Michael E.; and Mongeon, Robert J., to United States of America, Navy, mesne. Ultrafast multiple flashlamp. 3,725,733, 4-3-73, Cl. 315-228.000.
Mack, Michael E., to United Aircraft Corporation. Light amplification using absorbing medium. 3,745,476, 7-10-73, Cl. 330-4.300.
Mack, Richard B.: *See*—
Sletten, Carlyle J.; Schell, Allan C.; Mack, Richard B.; Goggins, William B., Jr.; and Blacksmith, Philipp, 3,725,917.
Mack, Richard J., to Richardson-Merrell, Inc. Process and composition for botfly larvae elimination. 3,754,082, 8-21-73, Cl. 424-33.000.
Mack Trucks, Inc.: *See*—
Greathouse, Jack F., 3,777,984.
Pekar, Frank J., Jr.; and Eisenberg, Eugene, 3,745,980.
Pelizzoni, Winton J.; Baumbaugh, Charles R.; and Calliss, William A., 3,712,420.
Mack, William T. Liquid confining and collecting apparatus. 3,720,062, 3-13-73, Cl. 61-1.00f.
Mack, William T.; and Quinn, Thomas. Storm choke. 3,735,813, 5-29-73, Cl. 166-183.000.
Mack-Wayne Plastics Company: *See*—
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Mackal, Glenn H.; and Lardner, George E., to Halkey-Roberts Corporation. Inflation manifold valve and flange assembly. 3,754,731, 8-28-73, Cl. 251-145.000.
Mackal, Henry H.; and Lardner, George E., to Halkey-Roberts Corporation. Grommet sealing apparatus and method. 3,716,438, 2-13-73, Cl. 156-253.000.
Mackay, Byron R. Silver recovery. 3,744,995, 7-10-73, Cl. 75-109.000.
MacKay, John A.; and Doran, John A., III, to Unison Corporation. Centerless grinder. 3,729,300, 4-24-73, Cl. 51-103.000.
Mackay, John A., to Unison Corporation. Grinding machine. 3,768,212, 10-30-73, Cl. 51-82.00r.
MacKay, John Dennis. Protective cover for plaster cast. 3,735,759, 5-29-73, Cl. 128-82.000.
MacKay, Patrick W.: *See*—
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MacKay, Stanley: *See*—
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Macke, Thomas F. Method and apparatus for folding paper. 3,729,186, 4-24-73, Cl. 270-68.00a.
Mackechnie, Laurence Kenneth, to Commonwealth of Australia, Cl-Postmaster-Generalis Department Research Laboratories. Self adaptive filter and control circuit therefor. 3,732,410, 5-8-73, Cl. 235-181.000.
MacKellar, Donald G.: *See*—
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MacKelvie, Philip A., to Multi-Point Tool Co., Inc. Tool holder assembly. 3,724,301, 4-3-73, Cl. 82-36.000.
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MacKenzie, Elbert K., to Electro-Mechanical Instrument Co., Inc. Weatherproof electric almeter. 3,739,275, 6-12-73, Cl. 324-156.000.
MacKenzie, Fred T.: *See*—
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Mackenzie, Harold B. Discrete material transporting and dumping apparatus. 3,720,328, 3-13-73, Cl. 214-38.00d.
Mackenzie, Harold B. Method of and means for classification of heterogeneous shredded refuse materials. 3,738,483, 6-12-73, Cl. 209-12.000.
Mackenzie, John, 1/2 to Sinclair, Jack. Juice extracting device. 3,715,977, 2-13-73, Cl. 100-117.000.
MacKenzie, Raymond W.: *See*—
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MacKenzie, Robert Carl, to Polymer Corporation Limited. Sludge concentration. 3,729,412, 4-24-73, Cl. 210-52.000.
MacKenzie, Robert P.: *See*—
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MacKeown, Graeme J. Detachable adjustable drive belt. 3,725,976, 4-10-73, Cl. 24-31.00c.
Macker, John Arthur; and Keenan, William Francis, to Burroughs Corporation. Programmatically controlled interrupt system for controlling input/output operations in a digital computer. 3,728,693, 4-17-73, Cl. 340-172.500.
Mackes, Ronald C.: *See*—
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Mackey, Charles R.; and Stein, Harold A., to Carborundum Company, The. Free cutting internal diamond grinding wheel. 3,765,132, 10-16-73, Cl. 51-206.00r.
Mackey, E. Scudder, to GAF Corporation. Coating formulations containing phosphate ester of glycidol polyethers. 3,725,079, 4-3-73, Cl. 96-114.500.
Mackey, E. Scudder, to GAF Corporation. Coating formulations containing the reaction product of glycidol polyethers and sulfating agents. 3,725,080, 4-3-73, Cl. 96-114.500.
Mackey, James: *See*—
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Mackey, James, Jr.: *See*—
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Mackie, Walter Blair: *See*—
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Mackie, William L., to United States of America, Navy. Moistureproof microwave antenna. 3,715,756, 2-6-73, Cl. 343-873.000.
Mackin, Michael H.: *See*—
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MacKinnon, Alan G.; and Brode, Robert M.; deceased (by Brode, Joyce Wallis; executrix), to Foundation Equipment Corporation, The. Joint construction for sectional lead. 3,768,575, 10-30-73, Cl. 173-43.000.
Mackinnon, Allan A., to Associated Manufacturers International, S.A. Avenida Justo Arosemena y Calle Treinta y Dos. Turning control signal. 3,750,627, 8-7-73, Cl. 119-44.000.
MacKinnon, Ian Malcolm: *See*—
Hamblyn, Stephen Mark; Money, Anthony Patrick; and MacKinnon, Ian Malcolm, 3,723,290.
MacKinnon, Malcolm, to Shell Oil Company. Venting for molten sulphur tankcars. 3,760,977, 9-25-73, Cl. 220-39.00r.
MacKinnon, Malcolm Lain K.; and Syltebo, Bjarne E., to Boeing Company, The. Exit nozzle assemblies for gas turbine power plants. 3,721,389, 3-20-73, Cl. 239-265.190.
Mackiw, Vladimir N.: *See*—
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Mackles, Leonard, to Bristol-Myers Company. Anhydrous aerosol foam. 3,770,648, 11-6-73, Cl. 252-305.000.
Mackness, Frederich Vincent Summersford; Cheetham, John Norman; and Watson, Victor Jack, to Ronson Corporation. Article and method for preventing escape of pyrophoric material. 3,712,168, 1-23-73, Cl. 86-1.000.
MacLachlan, Donald Fulton Alexander, to Micro-Electric AG. Potentiometer. 3,717,837, 2-20-73, Cl. 338-160.000.
Maclaine, Ian A.; and Semeniw, Orest T., to Domco Industries Limited. Surface coating compositions comprising blends of vinyl chloride hompolymers. 3,723,576, 3-27-73, Cl. 260-899.000.
MacLaren, Owen Finlay. Folding wheel chair. 3,736,021, 5-29-73, Cl. 297-42.000.
MacLaren, Richard O.; and Breazeale, Jack D., to United Aircraft Corporation. Method for generating a noncondensible gaseous fluid compatible with interhalogen oxidizers using phosphonitrilic chloride. 3,765,174, 10-16-73, Cl. 60-220.000.
MacLaren Snow Limited: *See*—
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MacLean, Alexander F.; Hobbs, Charles C., Jr.; and Dougherty, Edward F., to Celanese Corporation of America. Preparation of dihaloalkanes and related products. 3,725,487, 4-3-73, Cl. 260-659.00r.
MacLean, Alexander Fiske: *See*—
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MacLean, Roderick Campbell, to Bell Telephone Laboratories, Incorporated. Adjustable equalizer control apparatus. 3,736,530, 5-29-73, Cl. 333-18.000.



MacLean, Roderick Campbell, to Bell Telephone Laboratories, Incorporated. Adjustable equalizer control apparatus. 3,736,531, 5-29-73, Cl. 333-18.000.
MacLean-Fogg Lock Nut Co.: *See*—
Grube, William L., 3,728,933.
Grube, William L., 3,740,818.
Grube, William L., 3,766,628.
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Sheppard, Chester Stephen; and MacLeay, Ronald Edward, 3,755,288.
Sheppard, Chester Stephen; and MacLeay, Ronald Edward, 3,755,443.
Macleay, Ronald Edward, to Pennwalt Corporation. Method of curing polymers with azo compound. 3,776,885, 12-4-73, Cl. 260-46.50g.
MacLennan, Alastair S., to Ford Motor Company. Variable pumping system for a propeller fan. 3,760,779, 9-25-73, Cl. 123-41.050.
MacLeod Company: *See*—
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Macleod, David E., to Carrier Corporation. Self-contained air conditioning unit. 3,729,952, 5-1-73, Cl. 62-428.000.
MacLeod, David E., to Carrier Corporation. Self-contained air conditioning unit. 3,733,843, 5-22-73, Cl. 62-262.000.
Macleod, David M. Synthetic petrolatum composition. 3,764,537, 10-9-73, Cl. 252-56.00r.
MacLeod, Norman M. Bag forming filling, and sealing apparatus. 3,727,373, 4-17-73, Cl. 53-183.000.
Maclin, Ernest; and Perle, Abe J., to Electro-Nucleonics Inc. Temperature control for centrifugal analyzer. 3,727,832, 4-17-73, Cl. 233-11.000.
MacManus, John. Whipping apparatus and method. 3,713,841, 1-30-73, Cl. 99-60.000.
MacManus, John. Machines for producing and depositing aerated emulsion products. 3,724,417, 4-3-73, Cl. 118-24.000.
MacManus, John. Machine for producing aerated products. 3,758,080, 9-11-73, Cl. 259-4.000.
MacManus, John. Turntable device. 3,760,745, 9-25-73, Cl. 108-139.000.
Macmartin, Malcolm P.: *See*—
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MacMaster, George H.: *See*—
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MacMaster, Malcolm D.; Henry, James; Morris, Herbert R.; and Schumacher, Neal P., to Emhart Corporation. Refrigerated display equipment. 3,756,038, 9-4-73, Cl. 62-256.000.
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MacMillan, Kenneth T., to MacMillan Mold Company, Inc. Method of manufacturing a conduction heater. 3,709,280, 1-9-73, Cl. 164-112.000.
MacMillan, Kenneth T. Matrix assembly with segmented matrices. 3,778,203, 12-11-73, Cl. 425-20.000.
MacMillan Mold Company, Inc.: *See*—
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MacNiel, Douglas K., to U.S. Divers Co. Reserve and fill valve for self-contained underwater breathing apparatus. 3,744,526, 7-10-73, Cl. 137-599.200.
Macoicz, Edward L., to General Electric Company. Trash compactor having means facilitating trash removal therefrom. 3,747,518, 7-24-73, Cl. 100-218.000.
Macomber, Franklin S.; and Hunnicutt, Wayne E., to Kearney, A. T., & Company, Inc. Automatic freight handling apparatus for highway trailers. 3,749,268, 7-31-73, Cl. 214-516.000.
Macomber, Louis Everett. Equine semen extender. 3,766,008, 10-16-73, Cl. 195-1.800.
Macomber, Ray Marvin, 50% to Torrey, Edwin A. Retractable pier. 3,747,354, 7-24-73, Cl. 61-48.000.
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Macovei, Nicolae, to Uzina Constructii Masini Agricole "7 NOEMBRIE". Hardening machine. 3,763,682, 10-9-73, Cl. 72-46.000.
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Macovski, Albert, to American Express Investment Management Company. Hologram reproduction system using an optical grating. 3,733,512, 5-15-73, Cl. 315-18.000.
Macovski, Albert, to American Express Investment Management Company. Real time interferometry contour mapping system. 3,735,036, 5-22-73, Cl. 178-6.800.
Macovski, Albert, to Stanford Research Institute. Method and apparatus for producing a contour map of a surface area. 3,749,493, 7-31-73, Cl. 356-2.000.
Macovski, Albert, to American Express Investment Management Company. Sonic image transducer using a storage camera. 3,772,457, 11-13-73, Cl. 178-6.800.
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MacPhee, John; Mowbray, James H.; Noonan, Daniel C.; Remillard, Joseph A.; Scott, Robert; and Deninger, Henri M.; deceased (by Deninger, Barbara N.; administratrix), to Corning Glass Works. Method and apparatus for electrochemical analysis of small samplesof blood. 3,763,422, 10-2-73, Cl. 324-30.00r.
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MacPherson, Herbert G.: *See*—
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MacPherson, Roger; and Alsina, Pierre A. Method and apparatus for testing front wheel alignment of automotive vehicles. 3,758,213, 9-11-73, Cl. 356-155.000.
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Macrander, Max S., to GTE Automatic Electric Laboratories, Incorporated. D.C. Compensation circuit for miniature transformers. 3,714,548, 1-30-73, Cl. 323-48.000.

MacRander, Max S., to GTE Automatic Electric Laboratories Incorporated. D.C. Compensated subscriber interface transformer circuit for telephone system. 3,723,662, 3-27-73, Cl. 179-18.0hb.
Macrander, Max S., to GTE Automatic Electric Laboratories Incorporated. Subscriber interface circuit for unbalanced semiconductor switching system. 3,729,638, 4-24-73, Cl. 307-254.000.
Macrander, Max S., to GTE Automatic Electric Laboratories, Incorporated. Amplifying junctor circuit. 3,749,856, 7-31-73, Cl. 179-170.00g.
Macrander, Max S., to GTE Automatic Electric Laboratories, Incorporated. Path selection technique for electronic switching network. 3,781,484, 12-25-73, Cl. 179-18.0gf.
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Macula, Andrew J.; Macula, John T.; and Schwartz, Benno A., Jr. Brush electroplating metal at increased rates of deposition. 3,751,343, 8-7-73, Cl. 204-15.000.
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MacVicar, Margaret L. A.; Freake, Stuart M.; and Adkins, Clement J., to Massachusetts Institute of Technology. Electrode-carbon-electrode junctions. 3,731,158, 5-1-73, Cl. 317-234.00r.
Madachy, John F., to Loopco Industries, Inc. Expansible mandrel assembly. 3,747,868, 7-24-73, Cl. 242-72.000.
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Maddalena, John, to Cities Service Company. Sealing method. 3,767,503, 10-23-73, Cl. 156-244.000.
Maddalozzo, Raymond J., to International Harvester Company. Engine oil cooling and filtering method and apparatus. 3,741,342, 6-26-73, Cl. 184-6.400.
Madden, Baxter C., Jr. Method and apparatus for fabricating gas pressurized hollow spheres. 3,767,890, 10-23-73, Cl. 219-137.000.
Madden, Baxter C., Jr. Structure incorporating pressurized spheres. 3,773,475, 11-20-73, Cl. 29-192.000.
Madden, Bernard G. Attitude controlled valve. 3,734,113, 5-22-73, Cl. 137-40.000.
Madden, Bill C.: *See—*
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Madden, Gilbert F., to United States of America, Air Force. Differential velocity meter. 3,774,866, 11-27-73, Cl. 244-32.000.
Madden, John; and Bye-Jorgensen, Hans-Jorgen, to Robinson Sacks Limited. Crushing machines for glass articles. 3,750,965, 8-7-73, Cl. 241-36.000.
Madden, Michael J.; Murray, Robert L.; Lemon, Stephen C.; and Ostand, Paul R., to Dover Corporation. Fluid handling apparatus. 3,753,453, 8-21-73, Cl. 141-387.000.
Madden, Michael J. Anti-polluting filling and vapor recovery system. 3,770,028, 11-6-73, Cl. 141-59.000.
Madden, Richard; and Madden, Donald A., to Interrelated Industries Inc. Whirling sound-producing toy. 3,772,821, 11-20-73, Cl. 46-52.000.
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Bayha, Charles Edward; and Madden, Thomas Raymond, 3,714,258.
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Maddock, Bruce H., to Union Carbide Corporation. Mixing of thermoplastic materials. 3,730,492, 5-1-73, Cl. 259-193.000.
Maddock, Bruce H., to Union Carbide Corporation. Thermoplastic material mixing. 3,756,574, 9-4-73, Cl. 259-193.000.
Maddock, Edwin A. Lubricant dispensing means and system. 3,759,424, 9-18-73, Cl. 222-309.000.
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Maddux, Kenneth Carl, to N L Industries, Inc. Tool holder. 3,774,730, 11-27-73, Cl. 188-1.00b.
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Madejczyk, Leopold A., to Ford Motor Company. Catholyte rinse of electrocoat. 3,730,866, 5-1-73, Cl. 204-181.000.
Mader, Fred. Process for producing a dried split pea or dried lentil product. 3,738,848, 6-12-73, Cl. 99-204.000.
Mader, Fritz, to Maten AG. Sheet-like element made of plastics materials. 3,737,366, 6-5-73, Cl. 161-48.000.
Mader, Heinz Bernhard; and Hochreutiner, Roger Maurice, to International Standard Electric Corporation. Phase locked loop. 3,731,219, 5-1-73, Cl. 331-14.000.
Mader, Heinz Bernhard, to International Standard Electric Corporation. Amplitude stabilized D.C. oscillator with output circuits for producing semi-sinusoidal clock pulses. 3,761,833, 9-25-73, Cl. 331-45.000.
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Madert, Franz Peter, to United States of America, Army. Frequency discriminator with variable center frequency. 3,715,681, 2-6-73, Cl. 331-11.000.
Madey, Marion J.; and Groneman, Norman A., to Poster Products, Inc. Structural units and method of assembling them. 3,765,541, 10-16-73, Cl. 211-182.000.
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Madigan, Thomas S.; Stone, Richard F.; Dunn, David C.; Holzer, William F.; and Sweet, Robert H., to Cubic Corporation. Optical distance measuring equipment. 3,728,025, 4-17-73, Cl. 356-5.000.
Madison, George L. Exercise for paraplegic patients. 3,730,174, 5-1-73, Cl. 128-25.000.
Madison, Grace L. C. Empathy game. 3,764,135, 10-9-73, Cl. 273-1.00r.
Madland, Robert C., to Illinois Tool Works, Inc. Solid state switch construction. 3,714,611, 1-30-73, Cl. 335-229.000.
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Madonia, Anthony F. Dough conditioning apparatus. 3,752,448, 8-14-73, Cl. 259-186.000.
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Madonna, Michael A. Insect guard for sewer and drain openings. 3,714,733, 2-6-73, Cl. 43-121.000.



Madonna, Oronzo. Apparatus for the micrometric tuning of the keyboards and similar instruments with elimination of the wooden support of the pegs and the pegs same. 3,777,611, 12-11-73, Cl. 84-204.000.
Madono, Osamu, to Riken Piston Ring Kogyo Kabushiki Kaisha. Method of joining consumable electrode in electroslag melting. 3,727,300, 4-17-73, Cl. 29-483.000.
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Madsen, Bernhardt; Pozsony, Edward R.; and Collin, Everett E., to U.S. Packaging Corporation, mesne. Apparatus and method for skin packaging article. 3,745,739, 7-17-73, Cl. 53-22.00a.
Madsen, Bernhardt; Pozsony, Edward R.; and Collin, Everett E., to U.S. Packaging Corporation, mesne. Apparatus and method for skin packaging articles. 3,762,251, 10-2-73, Cl. 83-39.000.
Madsen, Curt; Johansen, Bent Georg; and Bolsen, Lars, to Bristol-Myers Company. Vapor treatment hair curler. 3,766,930, 10-23-73, Cl. 132-33.00r.
Madsen, Ditlev P.; and Rybicki, Norman, to Chemetron Corporation. Press with semi-automatic cycle. 3,727,545, 4-17-73, Cl. 100-53.000.
Madsen, Rud Frik; and Jensen, Jens Herman, to Aktieselskabet de Danske Sukkerfabrikker. Pressure transducer. 3,713,341, 1-30-73, Cl. 73-406.000.
Madsen, Thomas Lund. Apparatus for measuring the degree of thermal discomfort and a system comprising such an apparatus. 3,751,634, 8-7-73, Cl. 219-497.000.
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Maeda, Haruo; and Miyazaki, Eiichi, to Matsushita Electric Industrial Co., Ltd. Electronic printing device. 3,738,266, 6-12-73, Cl. 101-153.000.
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Maeda, Katsutoshi; and Kobayashi, Norio, to Kabushiki Kaisha Daini Seikosha. Watch movement construction. 3,754,390, 8-28-73, Cl. 58-7.000.
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Maeda, Noriyuki, to Honda Giken Kogyo Kabushiki Kaisha. Apparatus for insuring automatic closure of an engine throttle valve upon release of the accelerator pedal. 3,722,491, 3-27-73, Cl. 123-198.00d.
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Maeda, Taketora, to Entex Industries Inc. Simulated volleyball game. 3,743,291, 7-3-73, Cl. 273-85.00c.
Maeda, Taketora, to Epoch Company, Ltd. Bowling game amusement device. 3,756,598, 9-4-73, Cl. 273-38.000.
Maeda, Teruyuki. Vibration producing apparatus. 3,759,283, 9-18-73, Cl. 137-106.000.
Maeda, Yoshinobu; Takamori, Kazumi; and Kanno, Tadao, to Matsushita Electric Industrial Co., Ltd. Component mounting apparatus. 3,777,350, 12-11-73, Cl. 29-203.00b.
Maeda, Yoshio, to Mitsubishi Denki Kabushiki Kaisha. Induction type telemetering system. 3,750,122, 7-31-73, Cl. 340-196.000.
Maeda, Yoshio, to Mitsubishi Denki Kabushiki Kaisha. Induction type telemetering system. 3,760,408, 9-18-73, Cl. 340-347.00p.
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Maeder, Roger A.; Oster, Frederick W.; and Soderman, Richard J., to International Business Machines Corporation. Semiconductor and integrated circuit device yield modeling. 3,751,647, 8-7-73, Cl. 235-151.110.
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Maekawa, Kenichi: *See—*
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Maffitt, Kent N., to Minnesota Mining and Manufacturing Company.

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Maennchen, Joachim Klauss: *See—*
Gross, Werner Johann; Lanzerath, Gunter Franz; Patzer, Helmut Karl; Maennchen, Joachim Klauss; Rieger, Helmuth; and Weiberg, Horst, 3,776,562.
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Maercklein, Charles D., to Isotopes, Inc. Differential pressure regulator. 3,762,430, 10-2-73, Cl. 137-98.000.
Maerfeld, Charles: *See—*
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Miyazaki, Toshio; Omura, Etuzou; Katakabe, Kyoku; Yotsumoto, Takashi; Ikeda, Fumiaki; Takashima, Yoshiro; Makita, Minoru; Iwase, Kenji; Tsutsumiuti, Hideo; Sueyoshi, Hiromu; and Maesaka, Tomio, 3,765,818.
Maeshiba, Sozaburo. Flow meter for measuring small quantities of liquid fuel. 3,738,170, 6-12-73, Cl. 73-217.000.
Maestrelli, Gino. Equipment for pre-filtering the solvent, particularly in dry-cleaning machines. 3,722,684, 3-27-73, Cl. 210-167.000.
Maestri, Bruno. Tool for driving and setting headless nails or metal tacks. 3,720,364, 3-13-73, Cl. 227-109.000.
Maeusezahl, Dieter: *See—*
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Maez, Philbert Jay; Thompson, Richard D.; and Beeley, Michael G., to McGraw-Edison Company. Garment finishing hanger and loader therefor. 3,739,960, 6-19-73, Cl. 223-73.000.
Maezawa, Shiro; Yoshikawa, Hiroshi; Sakamoto, Kenji; Fujii, Jun; and Hashimoto, Makoto, to Nippon Kayaku Co., Ltd. Process for purification of acrylic acid from aldehydes by distillation with a reagent. 3,725,208, 4-3-73, Cl. 203-8.000.
Maezawa, Yoshihiko: *See—*
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Akiyama, Hisao; Okano, Shigeru; Suzuki, Hiroyuki; Maezima, Kaoru; Komatsu, Toshiaki; and Katsura, Toyozo, 3,740,411.
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Maffett, William C. Fishing tackle box. 3,780,468, 12-25-73, Cl. 43-54.05r.
Maffii, Giulio: *See—*
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Maffitt, Kent N., to Minnesota Mining and Manufacturing Company. Beam addressable memory apparatus. 3,723,978, 3-27-73, Cl. 340-173.0cr.
Mafli, Reinald W., to Kumag A.-G. Driving units for producing a reciprocatory and oscillatory motion simultaneously. 3,771,644, 11-13-73, Cl. 198-220.0ca.
Mag-ar Optikai Muvek: *See—*
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Magakuni, Masahiko: *See—*
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Magdars, John T., to General Fire Extinguisher Corporation. Swivel assembly. 3,736,986, 6-5-73, Cl. 169-31.00r.
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Magder, Jules, to Princeton Organics, Inc. Cellular foamed material and method for the manufacture thereof. 3,729,328, 4-24-73, Cl. 106-87.000.
Magdhuber, Kurt; and Kattentidt, Hinrich, to Frankfurter Maschinenbau Aktiengesellschaft vormals Pokarny & Whittekind. Drive system for a plurality of worm driven compressors. 3,779,675, 12-18-73, Cl. 418-199.000.
Magdo, Steven: *See—*
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Magee, Harry H. Resilient cattle identification tag. 3,765,113, 10-16-73, Cl. 90-300.000.
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Magee, John E. Automatic elevator car positioning monitor. 3,720,292, 3-13-73, Cl. 187-29.00r.
Magee, Philip S., to Chevron Research Company. N-acyl derivatives of phosphoroamidothioates. 3,716,600, 2-13-73, Cl. 260-959.000.
Magee, Vincent, to Perranti, Limited. Semiconductor devices. 3,772,077, 11-13-73, Cl. 114-212.000.
Mageli, Orville Leonard: *See—*
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D'Angelo, Antonio Joseph; Mageli, Orville Leonard; and Sheppard, Chester Stephen, 3,725,455.
Mageli, Orville Leonard; and McKellin, Wilbur H., to Pennwalt Corporation. Certain peroxyesters having a defined substituent positioned on a carbon atom at least beta to a peroxy carbon atom. 3,770,770, 11-6-73, Cl. 260-327.00h.
Magendans, Frederik; and van Rheenen, Bernard Josef Pieter, to U.S. Philips Corporation. Method of manufacturing rotary anodes for use in X-ray tube and rotary anodes manufactured by said method. 3,735,458, 5-29-73, Cl. 29-25.180.
Mageoh, Nelson H., to Cordis Corporation. Low-friction catheter guide. 3,731,671, 5-8-73, Cl. 128-205.00r.
Mager, Donald V., to Sperry Rand Corporation. Temperature controlled clocking of logic circuits. 3,725,789, 4-3-73, Cl. 328-3.000.
Mager, Leon A.: *See—*
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Magerle, Karl, to Fubmatic Inter AG. Machine for producing hollow bodies of plastics material. 3,711,230, 1-16-73, Cl. 425-126.000.
Magerle, Karl, to Tubmatic Inter AG. Device for closing a mould cavity. 3,751,189, 8-7-73, Cl. 425-258.000.
Magerle, Otto, to Fa Tukien Trust. Apparatus for continuously conveying semisolid material by the action of circulating squeeze rollers on a flexible conductor. 3,768,934, 10-30-73, Cl. 417-477.000.
Magerle, Rudolf; and Datwyler, Fritz, to Cerberus AG. Electrical installation for protecting movable items. 3,760,402, 9-18-73, Cl. 340-280.000.
Magerlein, Barney J.: *See—*
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Magerlein, Barney J., to Upjohn Company, The. Intermediates for making lincomycins and process for preparing the same. 3,719,659, 3-6-73, Cl. 260-210.00r.
Magerlein, Helmut: *See—*
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Magers, Paul E.; and Simons, Earl J., to Alpha Industries, Inc. Surgical suction pump assembly. 3,742,952, 7-3-73, Cl. 128-278.000.
Magester, Earl H.: *See—*
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Maggio, Joseph P.; and Richter, Herbert, to Elastic Systems Corporation. Multi-ply belt for waistband construction. 3,735,424, 5-29-73, Cl. 2-221.000.
Maggio, Joseph P., to Elastic Systems Corporation. Festooning machine. 3,735,554, 5-29-73, Cl. 53-116.000.
Maggio, Joseph P., to Elastic Systems Corporation. Machine for making multi-ply belts for waistband construction. 3,762,980, 10-2-73, Cl. 156-461.000.
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Magic Circle Corporation, The: *See—*
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Larson, Willis A.; and Tell, Stephen R., 3,728,501.
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Magid, Louis, to Hoffmann-La Roche Inc. Vitamin complexes of niacinamide, riboflavin and sodium ascorbate. 3,740,432, 6-19-73, Cl. 424-252.000.
Magid, Louis, to Hoffmann-La Roche Inc. Chewable multivitamin tablets containing aluminum nitrotinate. 3,777,029, 12-4-73, Cl. 424-266.000.
Magidson, Herbert. Insole structure. 3,724,106, 4-3-73, Cl. 36-44.000.
Magill, Peter J.; McCurry, Robert E.; and Speicher, Charles A., to International Business Machines Corporation. Method and apparatus for generating electrostatic images using ionized fluid stream. 3,715,762, 2-6-73, Cl. 346-74.0es.
Magill, Robert J.: *See—*
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Magilton, James H.; and Swift, Curran S., to Iowa State University Research Foundation, Inc. System and method for controlling vascular responses. 3,776,241, 12-4-73, Cl. 128-400.000.
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Maglio, Ralph; and Peterson, Arnold G., to Stevens, J. P., & Co. Inc. Pin fastening for segmented snowmobile tracks. 3,726,569, 4-10-73, Cl. 305-35.00r.
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Anderson, Clarence L., 3,757,736.
Magnan, Regis Marie Albert, to Societe Anonyme Ciments la Farge. Hydration of silicates. 3,717,488, 2-20-73, Cl. 106-97.000.
Magnanelli, George, to Consoles Unlimited, Inc. Coin operated washer-dryer control module. 3,774,742, 11-27-73, Cl. 194-1.000.
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Magnante, Frank A.; and Toman, Donald J., to Tull Aviation Corporation. Receiver for pulse modulated signals. 3,733,553, 5-15-73, Cl. 325-321.000.
Magnasco, Peter L. Pool chlorinator. 3,712,511, 1-23-73, Cl. 222-52.000.
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Magne, Frank C.; Mod, Robert E.; Sumrell, Gene; and Parker, Winfred E., to United States of America, Agriculture. N-substituted fatty acid amide lubricants. 3,733,275, 5-15-73, Cl. 252-46.300.
Magne, Frank C.; Mod, Robert R.; Sumrell, Gene; and Parker, Winfred E., to United States of America, Agriculture. N-Substituted fatty acid amide lubricants. 3,746,644, 7-17-73, Cl. 252-47.500.
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Magnien, Walter. Paint trimming device. 3,722,019, 3-27-73, Cl. 15-114.000.
Magnier, Roger, to Regie Nationale des Usines Renault and Automobiles Peugeot. Synchronizers. 3,741,358, 6-26-73, Cl. 192-53.00f.
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Magnus, Bruno E., to GAF Corporation. Granule applicator. 3,730,397, 5-1-73, Cl. 222-254.000.
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Magnusson, Olov Tage: *See—*
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Magoon, Eugene F., to Shell Oil Company. Production of methanol. 3,709,919, 1-9-73, Cl. 260-449.500.
Magoon, Eugene F.; and Slaugh, Lynn H., to Shell Oil Company. N-alkyl amine production. 3,739,029, 6-12-73, Cl. 260-585.00a.
Magoon, Eugene F.; and Slaugh, Lynn H., to Shell Oil Company. Copper, zinc, didymium oxide-containing catalysts. 3,758,417, 9-11-73, Cl. 252-462.000.
Magoon, Eugene F.; and Slaugh, Lynn H., to Shell Oil Company. N-Alkyl alcohol production. 3,775,488, 11-27-73, Cl. 260-640.000.
Magorian, William R., to United States of America, Navy. Coded induction rocket motor ignition system. 3,728,935, 4-24-73, Cl. 89-1.811.
Magorien, Vincent G.; and Huffman, John A., to Seaton-Wilson, Incorporated. System for fluid decontamination. 3,726,063, 4-10-73, Cl. 35-194.000.
Magorien, Vincent G., to Seaton-Wilson, Incorporated. Front end loading-self locking female coupling. 3,778,092, 12-11-73, Cl. 285-316.000.
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Maguire, Mary Helen; Gough, Geoffrey; and Michal, Frank, to University of Sydney, The. 2-Methylthioadenosine-5'-monophosphate. 3,781,274, 12-25-73, Cl. 260-211.50r.
Maguire, Richard J., to Gillette Company, The. Assembly apparatus. 3,768,135, 10-30-73, Cl. 29-208.00d.
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Mahajan, Gautman K.; Wright, Norbert L.; and Schnell, Albert C., to Continental Can Company, Inc. Noise attenuating kit. 3,773,140, 11-20-73, Cl. 181-33.00k.
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Mahan, John E., to Phillips Petroleum Company. Solid propellants. 3,779,824, 12-18-73, Cl. 149-19.900.
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Maher, George G., to United States of America, Agriculture. Starch xanthate derivatives used in papermaking. 3,730,829, 5-1-73, Cl. 162-175.000.
Maher, James Bernard; Delahunty, Terry Wayne; and Patton, Edmond Louis, to Chicago Bridge & Iron Company. Direct contact liquid gasifier and method. 3,713,794, 1-30-73, Cl. 48-190.000.
Maher, John F., to United Aircraft Corporation. Aircraft cabin outflow valve with torque reduction and noise abatement means. 3,740,006, 6-19-73, Cl. 244-129.00d.
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Mahler, Gert; and Meissner, Wolfgang, to Gebr. Happich G.m.b.H. Bearing, particularly for vehicle sun visor. 3,741,616, 6-26-73, Cl. 308-237.000.
Mahler, Gert; and Zwirner, Gerhard, to Gebr. Happich GmbH. Securement of covering about vehicle contoured sunvisor. 3,751,106, 8-7-73, Cl. 296-97.00h.
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Mahlman, Bert H., to Hercules Incorporated. Process for preparing highly filled polyolefins. 3,745,142, 7-10-73, Cl. 260-41.00r.
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Mahlmann, James Patrick, to General Foods Corporation. Process for decaffeinating coffee. 3,740,230, 6-19-73, Cl. 99-69.000.
Mahns, Maurice W.; and Stockdale, Clark O., Jr., to Aluminum Company of America. Two piece flexing die holder. 3,731,519, 5-8-73, Cl. 72-468.000.
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Mahoney, Elm io J., to Mahoney, Inc. Projectile return apparatus. 3,752,476, 8 -14-73, Cl. 273-1.50a.
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Maidique, Modesto A., to Nov a Devices, Inc. IC device arranged to minimize thermal feedback effects. 3,729,660, 4-24-73, Cl. 317-235.00r.
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Maier, Gerhard. Apparatus for cutting pre-comminuted material into chips. 3,746,269, 7-17-73, Cl. 241-244.000.
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Maier, Ludwig. Functional tertiary phosphine oxides. 3,716,580, 2-13-73, Cl. 260-488.00j.
Maier, Ludwig, to Monsanto Company. Tris-(2-hydroxyalkyl)-phosphine oxides. 3,748,363, 7-24-73, Cl. 260-606.50p.
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Maier, Martin; and Purrer, Josef, to Maschinenfabrik Fahr Aktiengesellschaft. Row-crop harvester. 3,766,723, 10-23-73, Cl. 56-13.300.
Maier, Oskar: *See—*
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Maihart, Hans. Apparatus for producing tubular cylindrical bodies of hardenable molding compositions. 3,768,943, 10-30-73, Cl. 425-224.000.
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Maillet, Alfred Marie Aime, to Languepin, Carel Fouche. Machining of workpieces by electro-erosion. 3,777,108, 12-4-73, Cl. 219-69.00p.
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Maillocheau, Camille Jean, to Societe a Responsabilite Limitee dite: Royoda. Clip hook for fastening devices such as spiders for securing objects onto luggage carriers. 3,748,703, 7-31-73, Cl. 24-265.0sh.
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Mailloux, Robert J.; and Caron, Paul R., to United States of America, National Aeronautics and Space Administration. Phase control circuits using frequency multiplication for phased array antennas. 3,710,329, 1-9-73, Cl. 343-100.0sa.
Main, George; and Johnke, Robert E., to Republic Steel Corporation. Method for processing coiled tubing having turns prebent to varying radii of curvature. 3,775,159, 11-27-73, Cl. 117-75.000.
Main, Henry Allan, to Bell Canada-Northern Electric Research Limited. Coin switch apparatus. 3,758,721, 9-11-73, Cl. 179-6.500.
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Mains, Donald M., to Bucyrus-Erie Company. Acceleration controller for a dual stator induction motor. 3,719,872, 3-6-73, Cl. 318-214.000.
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Major, Graeme Alexander; and Matthew, Ian George, to Electrolytic Zinc Company of Australia Limited. Control of the impurity content of zinc sulphate solutions. 3,755,098, 8-28-73, Cl. 204-55.00r.
Major, James M.; Truscello, Peter J.; and Provasnik, Robert, to Computer Test Corporation. System and method for magnetically testing plated wire. 3,736,499, 5-29-73, Cl. 324-34.00r.
Majors, Oliver W. Electric outlet and lead-through device. 3,713,078, 1-23-73, Cl. 339-130.00c.
Majury, Ronald Alfred: *See—*
Muir, Eric Thomas; Hamnett, Jack Smith; and Majury, Ronald Alfred, 3,760,657.
Majusick, Thaddeus W.: *See—*



Carrle, Charles O.; Wensell, Edward W.; and Majusick, Thaddeus W., 3,750,604.
Mak-Kraft Creations, Inc.: *See—*
Weidner, Urban A.; and Charlich, Nicholas, 3,710,403.
Makabe, Hideki, to Shimadzu Seisakusho Ltd. Fluid switching device. 3,752,167, 8-14-73, Cl. 137-609.000.
Makachev, Nikolai Ivanovich: *See—*
Selivanov, Anatoly Grigorievich; Makachev, Nikolai Ivanovich; and Parshina, Maria Kuzminichna, 3,759,299.
Makachev, Nikolai Ivanovich; and Parshin, Alexei Nikolaevich. Warp thread tension device in a loom. 3,724,514, 4-3-73, Cl. 139-100.000.
Makajima, Masao: *See—*
Toda, Yoshio; Konno, Mitsutaka; and Makajima, Masao, 3,756,208.
Makamo, Shiuriyo, to Kabushiki Kaisha Koparu. Electronically controlled shutter. 3,710,700, 1-16-73, Cl. 95-10.0ce.
Makara, Satoshi; Kashigi, Kazuo; and Taniguchi, Yasuhiro, to Nippon Electric Company, Limited. Automatic chroma compensating system. 3,717,721, 2-20-73, Cl. 178-5.4ac.
Makara, Satoshi, to Nippon Electric Company, Limited. Color video signal magnetic recording-reproducing system having a function of optimum recording current level setting. 3,732,361, 5-8-73, Cl. 178-5.4cd.
Makara, Satoshi; Kitazaki, Toshiro; and Inaba, Masao, to Nippon Electric Company, Limited. Phase error correction system for a video tape recorder. 3,761,605, 9-25-73, Cl. 178-5.4cd.
Makarevitz, George, to Tiros Plastics Corporation. Pill dispenser with resilient, integral, extended wall portion forming a sliding gate. 3,773,215, 11-20-73, Cl. 221-64.000.
Makarewicz, Antoni: *See—*
Balbatun, Jan; and Makarewicz, Antoni, 3,724,190.
Makarov, Leonid Viktorovich: *See—*
Kasulin, Vyacheslav Sergeevich; Bobrov, Boris Sergeevich; Super-Fainshtein, Naum Aronovich; Balabin, Evgeny Evgenievich; Egorov, Anatoly Maximovich; and Makarov, Leonid Viktorovich, 3,775,339.
Make-A-Tape, Inc.: *See—*
Bazzy, Lattif Allan, 3,744,803.
Makela, Leo. Sliding door consisting of one of several separate doors. 3,769,749, 11-6-73, Cl. 49-130.000.
Makela, Taisto Ensio, to Osakeyhtio, A. Ahlstrom. Paper machine head box having improved balance. 3,718,538, 2-27-73, Cl. 162-340.000.
MaKenzie, Fred T.; Brophy, Robert V.; and Karcher, Ralph E., Jr., to USM Corporation. Photoelectric relative motion detector. 3,738,296, 6-12-73, Cl. 112-219.00r.
Maker, Paul, to Bird Island, Inc. Gear making. 3,717,913, 2-27-73, Cl. 29-103.00c.
Makhlouf, Joseph M.: *See—*
Chang, Wen-Hsuan; Dowbenko, Rostyslaw; and Makhlouf, Joseph M., 3,759,854.
Makhlouf, Joseph M., to PPG Industries, Inc. Thermosetting, nongelled hydroxyl functional coating compositions. 3,719,618, 3-6-73, Cl. 260-21.000.
Makhover, Jury Meerovich: *See—*
Dolgolenko, Anatoly Alexandrovich; Onokhov, Pavel Pavlovich; Makhover, Jury Meerovich; and Gudovich, Alexandr Markovich, 3,734,271.
Dolgolenko, Anatoly Alexandrovich; Onokhov, Pavel Pavlovich; and Makhover, Jury Meerovich, 3,744,619.
Makhrov, Viktor Vladimirovich: *See—*
Timrot, Dmitry Lvovich; and Makhrov, Viktor Vladimirovich, 3,746,980.
Maki, Earl G., Jr. Snowmobile towing hitch. 3,727,937, 4-17-73, Cl. 280-24.000.
Maki, Edwin C.: *See—*
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Maki, Eugen: *See—*
Boyd, James; Garfield, Lawrence A.; Hanninen, Clifford; and Maki, Eugen, 3,759,575.
Maki, Kenji: *See—*
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Maki, Michiyoshi, to Hitachi, Ltd. Method for manufacturing semiconductor devices. 3,725,145, 4-3-73, Cl. 148-175.000.
Maki, Shin: *See—*
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Makimoto, Tsugio, to Hitachi, Ltd. Method of manufacturing an integrated circuit having a transistor isolated by the collector region. 3,735,481, 5-29-73, Cl. 29-578.000.
Makin, Brian: *See—*
Bright, Alfred William; Makin, Brian; and Lamb, David Robert, 3,742,263.
Makinen, Alpo Eino. Method for the impregnation and surface treatment of porous board type products. 3,779,797, 12-18-73, Cl. 117-116.000.
Makinen, Winnifred B.; and Srail, Raymond C., to Goodrich, B. F., Company, The. Elastic overshoes. 3,724,107, 4-3-73, Cl. 36-7.300.
Makino, Hiroshi; Nakamura, Susumu; Okada, Takashi; and Matsumi, Koichi, to Nippon Electric Company, Limited. Method for producing orthoferrite single crystals. 3,748,271, 7-24-73, Cl. 252-62.570.
Makino, Junichi: *See—*
Nohara, Haruo; and Makino, Junichi, 3,758,763.
Makino, Katsuo: *See—*
Jo, Seiji; and Makino, Katsuo, 3,741,156.
Makino, Katsuo; Oshikawa, Akira; and Nagashima, Toshjo, to Xerox Corporation. Electrostatographic imaging process. 3,719,481, 3-6-73, Cl. 96-1.00r.
Makino, Kenya: *See—*
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Makino, Kiyoji: *See—*
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Akiyama, Keiiti; and Makino, Kiyoji, 3,770,705.
Makino, Shinichi, to Tokyo Shibaura Electric Co., Ltd. Channel selector having constant current sources and compensating diode for reducing ambient temperature effects on varactor tuner 3,777,289, 12-4-73, Cl. 334-15.000.
Makino, Toshiaki. Process for recovering and manufacturing silicic acid system pigment from alkali process pulp black liquor containing silicates. 3,720,531, 3-13-73, Cl. 106-288.00b.
Makino, Tsutomu: *See—*
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Makino, Yoshio: *See—*
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Makinson, Clifford; and Fullerton, Arthur M., to Scott & Fetzer Company, The. Chain saw with damping means. 3,728,793, 4-24-73, Cl. 30-383.000.
Makinster, Marshall C.; and Grippin, Wayne P. Drive means for cable-mounted vehicle. 3,750,591, 8-7-73, Cl. 104-112.000.
Makipirtti, Simo Antero: *See—*
Bryk, Petri Baldur; Honkasalo, Jorma Bruno; Malmstrom, Rolf Einar; Makipirtti, Simo Antero; Toivanen, Toivo Adrian; and Aaltonen, Olavi August, 3,754,891.
Makisumi, Yasuo, to Shionogi & Co., Ltd. 2-Lower alkyl-2,3-dihydrothieno[3,2-c]quinoline-dioxides and pharmaceutically acceptable non-toxic salts thereof. 3,770,744, 11-6-73, Cl. 260-283.00s.
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Makita, Hiromitsu: *See—*
Sato, Masaki; Makita, Hiromitsu; and Toyota, Noriyuki, 3,774,299.
Makita, Minoru: *See—*
Miyazaki, Toshio; Omura, Etuzou; Katakabe, Kyoku; Yotsumoto, Takashi; Ikeda, Fumiaki; Takashima, Yoshiro; Makita, Minoru; Iwase, Kenji; Tsutsumiuti, Hideo; Sueyoshi, Hiromu; and Maesaka, Tomio, 3,765,818.
Makita, Takeo: *See—*
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Makiyama, Nobusake: *See—*
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Makkay, Egon J. V.; and Pesce, John J., to RCA Corporation. Cutting pliers. 3,763,560, 10-9-73, Cl. 30-124.000.
Mako Apparatebau Fritze Brede: *See—*
Robaczek, Edward, 3,747,517.
Mako, John; and Wallace, Joseph E., to International Business Machines Corporation. High energy print hammer unit with fast settle-out. 3,741,113, 6-26-73, Cl. 101-93.00c.
Makosch, Gunter, to International Business Machines Corporation. Optical system for focusing spaced object planes in a common image plane. 3,709,579, 1-9-73, Cl. 350-30.000.
Makovec, Andrew M., to Weston Instruments, Inc. Linear motion zero adjuster. 3,742,772, 7-3-73, Cl. 74-18.200.
Makovetsky, Kirill Lvovich: *See—*
Dolgoplosk, Boris Alexandrovich; Tinyakova, Elena Ivanovna; Beilin, Solomon Isaakovich; Makovetsky, Kirill Lvovich; Chernenko, Galina Moiseevna; Ostrovskaya, Irina Yakovlevna; Garmonov, Izmail Vladimirovich; Mamontov, Boris Vasilievich; and Kon, Alexandra,3,723,400.
Dolgoplosk, Boris Alexandrovich; Tinyakova, Elena Ivanovna; Beilin, Solomon Isaakovich; Makovetsky, Kirill Lvovich; Chernenko, Galina Moiseevna; Ostrovskaya, Irina Yakovlevna; Krol, Vladimir Alexandrovich; and Khrennikova, Elena Konstantinovna, 3,740,382.
Makow, Abraham, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Spin-stabilised rocket projectile. 3,724,781, 4-3-73, Cl. 244-3.230.
Makower, Samuel J.: *See—*
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Makower, Samuel J.; Cautilli, Philip A.; and Dickstein, Jack. Freeze-thaw stable high solids latexes of interpolymers of vinyl chloride,



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ethylene and certain carboxyl-containing monomers. 3,721,636, 3-20-73, Cl. 260-29.6rw.
Makowski, Aleksander: *See—*
Gawlikowicz, Jan J.; Krywult, Jerzy; Wusatowski, Roman; Garczynski, Jozef; Makowski, Aleksander; and Sikora, Leopold, 3,718,026.
Makowski, Clement J.: *See—*
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Makrides, Alkis C.; and Brummer, Samuel B., to Tyco Laboratories, Inc. Electrochemical control of adsorption and desorption with activated carbon. 3,730,885, 5-1-73, Cl. 210-30.000.
Maksutov, Rafkhat; Asfandiyarov, Khalim Akhmetovich; Pashin, Vasily Fedorovich; Gubarev, Yakov Fedorovich; Sadykov, Rifgat Suleimanovich; Akhunov, Albert Musagitovich; Vakhitov, Gadel Galyautdinovich; Graifer, Valery Isaakovich; Zyalyaev, Vagiz Murzakhanovch; Kostrjukov, Gennady Vasilievich; and Efanov, Boris Fedorovich; deceased (by Efanova, Olga Iosifovna; administratrix). Process for coating with glass the internal surface of metal pipes. 3,729,803, 5-1-73, Cl. 29-421.000.
Maksy, Edward W., to Climate Control Systems, Inc., mesne. Modular air conditioning equipment. 3,771,321, 11-13-73, Cl. 62-298.000.
Maksymiak, John, to Xerox Corporation. Automatic developability control system. 3,727,065, 4-10-73, Cl. 250-218.000.
Maksymiak, John, to Xerox Corporation. Automatic developability control system for electrostatic recording apparatus. 3,757,999, 9-11-73, Cl. 222-57.000.
Maksymiak, John; and Lewis, Richard B., to Xerox Corporation. Microfield donor with continuously reversing microfields. 3,759,222, 9-18-73, Cl. 118-637.000.
Makula, Daniel; and Gonthier, Beatrice, to Progil. 1,2,4-Oxadiazine-3-ones. 3,734,908, 5-22-73, Cl. 260-244.00r.
Makula, Daniel; Druet, Monique; and Gonthier, Beatrice, to Progil. 1,2,4-Oxadiazine-3,6-triones. 3,743,641, 7-3-73, Cl. 260-244.00r.
Makwinski, John A.; Rehman, Warren C.; and Spotholz, Clifford H., to General Foods Corporation. Method of making pelletized coffee percolator package. 3,770,457, 11-6-73, Cl. 426-394.000.
Mal, M. Kumar; and Tarkan, Stuart E., to Chromalloy American Corporation. Titanium carbide hard facing steel-base composition. 3,725,016, 4-3-73, Cl. 29-182.300.
Mal, N. Kumar: *See—*
Ellis, John L.; Mal, N. Kumar; and Tarkan, Stuart E., 3,779,720.
Malabanan, Alejandro L.; and Acepcion, Antonio T. Automatic motorized baby crib. 3,724,006, 4-3-73, Cl. 5-109.000.
Malak, Thomas P.: *See—*
Durose, Arthur H.; and Malak, Thomas P., 3,769,179.
Malaker, Stephen F., to Romayne Corporation. Transportable refrigeration system. 3,719,051, 3-6-73, Cl. 62-6.000.
Malancon, Leo: *See—*
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Malangud, Jean Gaston, to Dupont, S. T. Gas outlet control device for a gas lighter. 3,759,655, 9-18-73, Cl. 431-150.000.
Malarkey, Edward C.: *See—*
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Malarkey, Edward C.; Natale, Michael R.; and Ogland, Jon W., to Westinghouse Electric Corporation. Method of preparing an ultraviolet emitting phosphor. 3,766,084, 10-16-73, Cl. 252-301.60f.
Malarkey, Terence D.: *See—*
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Malaviale, Robert, to Compteurs Schlumberger. Resetting mechanisms for drum-type counters. 3,773,254, 11-20-73, Cl. 235-144.0dm.
Malbert, Petr Eduardovich: *See—*
Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Tkach, Khaim Berkovich; Nazarov, Nikolai Grigorievich; Malbert, Petr Eduardovich; Lavron, Nikolai Sergeevich; Alkasarov, Jury Innokentievich; Legeche, Nikolai Leontievich; Golbinshtein, Alexanr Isovich; Reinsburg, Alexandr Mironovich; Burshtein, Mikhail Vladimirovich; Mikushin, Dmitry Pavlovich; Terskov, Alexei Danilovich; and Belov, Leonid Stepanovich, 3,730,283.
Malby, Frederick L., to Drexelbrook Controls Inc. Susceptance measuring system for indicating condition of a material. 3,778,705, 12-11-73, Cl. 324-61.00r.
Malchenko, Viktor Matveevich: *See—*
Balabaev, Georgy Matveevich; Boiko, Viktor Sergeevich; Malchenko, Viktor Matveevich; Misarenko, Stepan Nikolaevich; Tsitrin, Luvish Avrum-Abovich; Borzenko, Evgeny Ivanovich; and Golovko, Georgy Anatolievich, 3,751,933.
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Malcik, Frank John; Whittemore, Edward William; and Clark, John Patrick, to Swingline, Inc. Modular file element and components thereof. 3,722,701, 3-27-73, Cl. 211-177.000.
Malco Mfg., Inc.: *See—*
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Malcolm, David: *See—*
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Malcolm, George D. Suspension systems. 3,779,576, 12-18-73, Cl. 280-124.00b.
Malcolm, James A. Paperboard dispenser for tape. 3,743,151, 7-3-73, Cl. 225-47.000.
Malcolm, Robert La Verne: *See—*
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Malcolm, Vincent T., Jr.: *See—*
Helm, John L.; West, Robert L.; and Malcolm, Vincent T., Jr., 3,766,874.
Malcolm, William R. Compression spring shroud. 3,743,183, 7-3-73, Cl. 239-264.000.
Malcomson, Robert S.: *See—*
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Maldeis, Lewis Fritts; and Shideler, Aubrey Meredith, to Martin Marietta Corporation. Apparatus for rapidly coating surfaces with wet, particulate materials. 3,760,933, 9-25-73, Cl. 198-128.000.
Malden Mills, Inc.: *See—*
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Maldonado, Ernest A.; and Jankowski, Walter A., said Jankowski assor. to said Maldonado, Ernest A. Golfer's head movement restraining device rendered non-restraining at ball impact position. 3,767,205, 10-23-73, Cl. 273-190.00r.
Maldonado, Juan Ramon, to Bell Telephone Laboratories, Incorporated. Coarse grain polycrystalline ferroelectric ceramic optical memory system. 3,740,734, 6-19-73, Cl. 340-173.0lm.
Malec, Jerry P. Aspirator nozzle for blow guns or the like. 3,774,847, 11-27-73, Cl. 239-124.000.
Malec, Jerry P. Airless spray gun. 3,780,953, 12-25-73, Cl. 239-526.000.
Malec, Robert E.: *See—*
Plonsker, Larry; Perilstein, Warren L.; and Malec, Robert E., 3,781,363.
Malec, Robert E., to Ethyl Corporation. Lubricant and fuel compositions. 3,778,371, 12-11-73, Cl. 252-34.000.
Malec, Robert E., to Ethyl Corporation. Triphenyl phosphates. 3,780,145, 12-18-73, Cl. 260-966.000.
Malecki, Ronald J.; and Grall, Kenneth J., to Whirlpool Corporation. Belt shifter for a variable speed drive. 3,731,550, 5-8-73, Cl. 74-242.300.
Malegue, Aime, to Cefilac. Method and apparatus for the hot piercing of metal billets. 3,712,103, 1-23-73, Cl. 72-264.000.
Malen, Charles; Desnos, Monique; and Poignant, Jean-Claude, to Societe en nom Collectif "Science Union et Cie, Societe Francaise de Recherche Medicale". Tricyclic compounds. 3,723,466, 3-27-73, Cl. 260-333.000.
Malen, Charles; Danree, Bernard; and Desnoyers, Pierre, to Societe en nom Collectif Science Union et Cie, Societe Francaise de Recherche Medicale. α(M-Alkoxyphenoxy) and α(M-trifluoromethylphenoxy) M-toluic acids. 3,728,383, 4-17-73, Cl. 260-520.000.
Malen, Charles; Danree, Bernard; and Poignant, Jean-Claude, to Societe en nom Collectif Science Union et Cie, Societe Francaise de Recherche Medicale. Tricyclic compounds. 3,758,528, 9-11-73, Cl. 260-404.000.
Malen, Charles; and Pascaud, Xavier, to Societe en nom Collectif Science Union et Cie, Societe Francaise de Recherche Medicale. Isonipecotic acid compounds. 3,763,169, 10-2-73, Cl. 260-293.570.
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Malenka, John F. Boat fender or bumper. 3,744,445, 7-10-73, Cl. 114-219.000.
Malesh, Allan D., to Abet Industries Corporation. Frequency generator for electrical discharge machining. 3,745,298, 7-10-73, Cl. 219-69.00c.
Maleski, Richard C. Arrow tip having replaceable cutting blades. 3,756,600, 9-4-73, Cl. 273-106.50b.
Maleski, Robert Joseph: *See—*
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Malet, Michael Anley; and Hills, David Leslie, to National Research Development Corporation. Mold assembly for pressing concrete. 3,730,657, 5-1-73, Cl. 425-3.000.
Maley, Gerald A.: *See—*
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Maley, Gerald A., to International Business Machines Corporation. Error correcting system and method for monolithic memories. 3,735,105, 5-22-73, Cl. 235-153.0ac.



Maley, James John, to RCA Corporation. Method for preparing a conductive coating on a glass surface. 3,713,884, 1-30-73, Cl. 117-211.000.
Maley, Joseph P. Battery-operated rotisserie with detachable spit supports. 3,742,839, 7-3-73, Cl. 99-421.0hv.
Maley, William B., to Techlite, Inc. Lighting control circuit. 3,711,739, 1-16-73, Cl. 315-82.000.
Malherbe, Edward Phillip, to Union Carbide Corporation. Optical mounting device for use in laser systems. 3,751,139, 8-7-73, Cl. 350-252.000.
Malichekno, Evgeny Fedorovich: *See—*
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Malik, Ajab S.: *See—*
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Malik, James J. Wire rack. 3,726,415, 4-10-73, Cl. 211-169.000.
Malik, Oscar J., to Aeronics Corporation of America. Connector means for cables with semi-rigid sheaths. 3,769,444, 10-30-73, Cl. 174-75.00c.
Malikov, Fatkulla Khairullovich: *See—*
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Malina, John A., to General Motors Corporation. Rocking piston bearing. 3,762,389, 10-2-73, Cl. 123-197.0ab.
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Malinowski, Lester W.: *See—*
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Malinowski, Stanley; Dailing, James L.; and Smith, Craig P., to Motorola, Inc. Bandpass filter including monolithic crystal elements with resonating portions selected for symmetrical response. 3,716,808, 2-13-73, Cl. 333-72.000.
Malis, Jerry L.; and Rosenthale, Marvin E., to American Home Products Corporation. Anti-ulcer therapy. 3,740,436, 6-19-73, Cl. 429-319.000.
Malis, Jerry L.; and Rosenthale, Marvin E., to American Home Products Corporation. Anti-ulcer therapy. 3,746,495, 7-17-73, Cl. 429-319.000.
Malkiel, Arick S.: *See—*
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Malkiewicz, Wladyslaw F., to Tenneco Inc. Muffler with longitudinal chamber. 3,709,321, 1-9-73, Cl. 181-50.000.
Malkiewicz, Wladyslaw F., to Tenneco Inc. Folded shell muffler. 3,724,591, 4-3-73, Cl. 181-53.000.
Malkin, Irving: *See—*
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Malkki, Eino Kalervo; and Silde, Valentin. Method of making a combined exhaust pipe and silencer. 3,745,632, 7-17-73, Cl. 29-157.00r.
Mallan, George M.: *See—*
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Mallard, James B., to Form Crete, Inc., mesne. Method and apparatus for applying a coating to a tubular member. 3,740,291, 6-19-73, Cl. 156-392.000.
Mallard, John, to Warren, F. J., Limited. Method of producing an iridescent pattern on the surface of a sheet or other object and sheets or objects having patterned surface produced by this method. 3,749,471, 7-31-73, Cl. 350-109.000.
Mallard, John Rowland; and Wilks, Robin John, to National Research Development Corporation. Gamma camera with increased resolution. 3,774,031, 11-20-73, Cl. 250-503.000.
Mallatt, Russell C.: *See—*
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Mallett, James A.; and Mitchell, Edward B., to Ark-Les Switch Corporation. Pushbutton slide switch assemblies with interconnect laminated slider switch set assemblies allowing only one activated switch in a particular set. 3,719,786, 3-6-73, Cl. 200-5.0eb.
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Malmin, Oscar. Finger pad for dental instruments. 3,721,006, 3-20-73, Cl. 32-40.00r.
Malmin, Oscar. Rhinoplasty treatment, method, and apparatus. 3,742,943, 7-3-73, Cl. 128-76.00c.
Malmin, Oscar. Endodontic irrigating instrument. 3,745,655, 7-17-73, Cl. 32-90.00r.
Malmin, Oscar. Bacterial control mask. 3,747,599, 7-24-73, Cl. 128-142.700.
Malmin, Oscar. Disposable headband and filter. 3,752,157, 8-14-73, Cl. 128-146.700.
Malmin, Oscar. Air sterilizer and control means. 3,768,970, 10-30-73, Cl. 21-74.00r.
Malmin, Oscar. Endodontic operating system. 3,772,791, 11-20-73, Cl. 32-57.000.
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Mancini, Corrado; and Gaspari, Raffaele, to Societa' Italiana Resine S.p.A. Process for making ethylene polymers or copolymers in a pressure-pulsed tubular reactor. 3,714,123, 1-30-73, Cl. 260-63.00r.

Mancini, Lloyd, to Berg Electronics, Inc. Socket terminal. 3,717,841, 220-73, Cl. 339-258.000.

Mancini, Lloyd; and Ysteboe, Howard T., to Du Pont de Nemours, E. I., and Company. Connector block. 3,781,760, 12-25-73, Cl. 339-59.00m.

Mancini, Lloyd, to Du Pont de Nemours, E. I., and Company. Circuit board socket. 3,781,770, 12-25-73, Cl. 339-259.00r.

Mancini, Paul A.; and May, Walter G., to Esso Research and Engineering Company. Separation of carbon dioxide from a natural gas stream. 3,724,225, 4-3-73, Cl. 62-12.000.

Mancke, Edgar B., to Bethlehem Steel Corporation. Method for simultaneously calcining and desulfurizing agglomerates of coal and/or coal derivatives. 3,756,791, 9-4-73, Cl. 44-1.00r.

Manco Manufacturing Co.: *See*—
Valente, Raymond L., 3,712,161.

Mancole Company Limited: *See*—
Coles, Manson Ivor, 3,716,304.

Mancus, H. Vincent, to United States of America, Navy. Cylindrical throat nozzle with movable sonic blades for obtaining dual area throat and thrust vector control. 3,743,184, 7-3-73, Cl. 239-265.190.

Mancy, Denise; Ninet, Leon; and Preud'Homme, Jean, to Rhone-Poulenc-Textile, S.A., mesne. Antibiotic 18 887 R. P. 3,712,945, 1-23-73, Cl. 424-118.000.

Mand, Emery M.; and Shapiro, Henry C., to California Weavers, Inc. Decorative wall covering. 3,778,337, 12-11-73, Cl. 161-95.000.

Mandas, Kenneth C. Guide and cutter. 3,716,915, 2-20-73, Cl. 30-293.000.

Mandel, Herman: *See*—
Topol, Leo E.; and Mandel, Herman, 3,719,611.

Mandel, Lewis R., to Merck & Co., Inc. Pharmaceutical composition and method of treatment. 3,749,781, 7-31-73, Cl. 424-251.000.

Mandelbaum, Arye L. Programmed teaching device. 3,731,403, 5-8-73, Cl. 35-48.00r.

Mandelbaum, George: *See*—
Heifetz, Saul; Mandelbaum, George; and Kushner, Irwin, 3,778,528.

Mandelberg, Simon Lvovich: *See*—
Raichuk, Jury Isaakovich; Knyazhinsky, Zakhar Osipovich; Mandelberg, Simon Lvovich; Lebedev, Vladimir Konstantinovich; and Volkov, Viktor Nikolaevich, 3,710,066.

Mandelik, Bernard G.; and Greene, Marvin I., to Pullman Incorporated. Process for making fuel gas. 3,771,261, 11-13-73, Cl. 48-214.000.

Mandelin, Dorothy J., to Occidental Petroleum Corporation. Process for removing sulfur dioxide from gas streams using molten thiocyanates. 3,773,893, 11-20-73, Cl. 423-210.000.

Mandels, Mary H.; and Kostick, John A., to United States of America, Army. Enzymatic hydrolysis of cellulose to soluble sugars. 3,764,475, 10-9-73, Cl. 195-33.00r.

Mander, Harold C. Tension release for fishing equipment. 3,766,681, 10-23-73, Cl. 43-43.120.

Manders, Goderfridus Johannes, to U.S. Philips Corporation. Method of and device for measuring the length of a magnetizable tape. 3,764,896, 10-9-73, Cl. 324-34.001.

Mandery, William L.: *See*—
Matthews, Charles S.; Murphey, Carey E., Jr.; Dittmer, Albert K.; and Mandery, William L., 3,765,486.

Mandeville, Arthur R., to Scott Paper Company. Apparatus for drying an electrophotographic support element. 3,724,096, 4-3-73, Cl. 34-150.000.

Mandia, Anthony L.: *See*—
Boisvert, Conrad J., Jr.; and Mandia, Anthony L., 3,758,759.

Mandiziak, Ronald S. Liquid skating assembly. 3,715,567, 2-6-73, Cl. 219-437.000.

Mandle, Richard Max; and Bond, Howard Edward, to Electro-Nucleonics Laboratories, Inc. Electrophoresis test kits. 3,773,646, 11-20-73, Cl. 204-299.000.

Mandle, Richard Max; and Karsai, Frank, to Electro-Nucleonics Laboratories, Inc. Low voltage electrophoretic testing system. 3,773,647, 11-20-73, Cl. 204-299.000.

Mandler, Klaus Rudolf. Stereoscopic camera arrangement. 3,731,607, 5-8-73, Cl. 95-18.000.

Mandorf, Victor, Jr.; and Montgomery, Lionel C., to Union Carbide Corporation. High purity hot pressed boron nitride. 3,734,997, 5-22-73, Cl. 423-290.000.

Mandrel Industries, Inc.: *See*—
Birchall, Thomas D.; and Powell, Johnnie L., 3,710,753.
Hoover, Michael C.; and Long, William C., 3,738,484.
Kiowski, John W., 3,739,374.
Mott-Smith, Lewis Morton, 3,721,311.

Mandroian, Harold, to Atek Industries, Inc. Standing wave pump. 3,743,446, 7-3-73, Cl. 417-240.000.

Mandroian, Harold, to Atek Industries, Inc. Control circuit for an electrolytic cell. 3,751,355, 8-7-73, Cl. 204-228.000.

Mandrona, Nicholas; and Jewett, Warren R., to Medical Sciences International, Inc., mesne. Viscosity measuring device. 3,719,075, 3-6-73, Cl. 73-54.000.

Mandt, Mikkel G., to Kimberly-Clark Corporation. Waste treatment system. 3,733,263, 5-15-73, Cl. 210-7.000.

Mandula, Joseph M., Jr.; Fox, John B.; and Bricker, John K., to Republic Steel Corporation. Billet scanning mechanism using a probe carrying drum rotatable about the billet and pivotably mounted relative thereto. 3,746,972, 7-17-73, Cl. 324-37.000.

Maneck, Ernst: *See*—
Klebba, Horst; and Maneck, Ernst, 3,708,192.

Manes, Libero G. Nail clipper with receiver for nail clippings. 3,744,131, 7-10-73, Cl. 30-28.000.

Manes, Robert J.: *See*—
Keto, August I.; and Manes, Robert J., 3,715,543.

Manetti, Mario: *See*—
Bruno, Edward C., 3,762,629.
Bruno, Edward C., 3,768,643.

Manfre, Ben Louis; and Forcella, Peter Werner, to FMC Corporation. Turret type coring unit. 3,738,257, 6-12-73, Cl. 99-547.000.

Manfred, Birkholz: *See*—
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Manfredonia, Abraham: *See*—
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Manfredonia, Abraham J.: *See*—
Clark, Kenneth G.; De Pass, Ernest T.; Manfredonia, Abraham J.; and Reiter, Eugene A., 3,776,109.

Manfroy, Willy; and Fleig, Adolf. Method for clarifying titanium sulphate solutions. 3,719,748, 3-6-73, Cl. 423-544.000.

Mang, Gunther: *See*—
Klebe, Hans; Lange, Ludwig; and Mang, Gunther, 3,710,979.

Mang, Oswald Karl Clarence. Atmospheric chloride detection apparatus. 3,761,377, 9-25-73, Cl. 204-195.00r.

Mange, Franklin E.: *See*—
Bellos, Thomas J.; and Mange, Franklin E., 3,718,588.

Mangels, Ralph W., to Daco Safety Products, Inc. Chemical ejecting flashlight. 3,716,170, 2-13-73, Cl. 222-162.000.

Mangels, Robert H.: *See*—
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Mangels, Theodore F.: *See*—
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Mangelsdorf, David H.: *See*—
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Mangelsdorf, Dietmar, to Siemens Aktiengesellschaft. Method and apparatus for the automatic measurement of distances such as line width or edge distances of small objects. 3,758,214, 9-11-73, Cl. 356-160.000.

Mangham, Jesse Roger: *See*—
Carley, David R.; Lowrance, Byron R.; and Mangham, Jesse Roger, 3,780,118.

Mangialardi, John K., to United States of America, Atomic Energy Commission. Solids accumulator pump system. 3,728,047, 4-17-73, Cl. 417-488.000.

Mangiavacchi, Jacques, to Societe Anonyme: Glaenzer Spicer. Bearing. 3,756,675, 9-4-73, Cl. 308-184.000.

Mangiere, Richard John; Dwyer, Charles James; and Bressler, Magdalena Adriana. Dry powder for glazing foodstuffs. 3,769,027, 10-30-73, Cl. 426-169.000.

Mango, Juan. Rescue balloon kit. 3,746,285, 7-17-73, Cl. 244-98.000.

Mangold, Donald J.: *See*—
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Mangold, Hans; and Adelmann, Hans-Jurgen, to Grundig E.M.V. Elektro-Mechanische Versuchsanstalt Inh. Max Grundig. Analog storage arrangement using transfluxor. 3,737,775, 6-5-73, Cl. 325-37.000.

Mangold, James, to Societe Anonyme D.B.A. Vehicle antiskid braking system. 3,729,233, 4-24-73, Cl. 303-21.00f.

Mangood Corporation: *See*—
Czyryk, Chester S., 3,720,954.
Tonies, Lawrence A., 3,745,335.

Mangum, Elmus F. Lawn edger. 3,734,196, 5-22-73, Cl. 172-16.000.

Mangus, Ervin E.: *See*—
Dawson, Harry J.; Hoftiezer, Wallace A.; Keedy, David E.; Mangus, Ervin E.; Patton, Eugene K.; and Grandfield, Joseph P., 3,759,323.

Mangus, George, to Miami-Herald Publishing Company, The. Method for precision modification of preliminarily-etched photoengraved color plates. 3,759,766, 9-18-73, Cl. 156-14.000.

Manhardt, John R., to Itek Corporation. Physical development utilizing 1-phenyl-3-pyrazolidone or a benzene diamine combined with a polyhydroxybenzene in acidic medium. 3,713,824, 1-30-73, Cl. 96-48.0pd.

Manheck, Frederick J. Golf club impact marker. 3,754,764, 8-28-73, Cl. 273-136.00d.

Mani, Inder, to Dow Chemical Company, The. Vinyl ester resins cured by ionizing radiation the presence of $CBr_4$. 3,720,592, 3-13-73, Cl. 204-159.150.

Mani, Inder; and Atchison, George J., to Dow Chemical Corporation, The. Radiation process for making plastic paper containing expandable, thermoplastic microspheres. 3,778,364, 12-11-73, Cl. 204-159.150.





Mani, Richard L., to Comprehensive Health Testing Laboratories, Inc. Method and system for recording, processing and displaying visually observed information from physical structure. 3,741,471, 6-26-73, Cl. 235-61.90r.

Manicatide, Radu Adrian M.; Olteanu, Ion; and Georgescu, Petre, to Institutul de Mecanica Fluidelor Sl Constructii Aerospatiale. Aerial distributor for particulate materials. 3,777,978, 12-11-73, Cl. 239-171.000.

Manier, Francis Rene Daniel, to Kuhlmann, Wayne. Pigmentary compositions, their preparation and their applications to the colouration in bulk of cellulosic esters. 3,778,282, 12-11-73, Cl. 106-187.000.

Maniero, Daniel A.: *See*—
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Manifacier, Andre: *See*—
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Manifold & Phalor Machine Co.: *See*—
Manifold, Richard W., 3,715,183.

Manifold, Richard W., to Manifold & Phalor Machine Co. Gas burner especially useful for glazing glassware. 3,715,183, 2-6-73, Cl. 431-328.000.

Manigault, Edward L., to Taylor's, Chas., Sons Company, The. Dense chrome refractory material. 3,773,531, 11-20-73, Cl. 106-57.000.

Manigault, Edward L., to Taylor's, Chas., Sons Company, The. Mullite-chrome refractory. 3,773,532, 11-20-73, Cl. 106-59.000.

Manik, George: *See*—
Bocian, Harvey; Hauptman, Neil L.; and Manik, George, 3,753,291.

Manikowski, Donald M.: *See*—
Lo, David S.; Hanson, Marlin M.; Kaske, Alan D.; and Manikowski, Donald M., 3,761,155.

Manilla, Charles Ernest; Honaker, Harold Hilton; and Gothard, David Olen, to International Nickel Company, Inc., The. Production of clad metal articles. 3,753,704, 8-21-73, Cl. 75-208.00r.

Manion, Francis M.: *See*—
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Ostdiek, Arthur J.; and Manion, Francis M., 3,765,224.

Manion, Jean P.; and Davies, Daniel J., to Allis-Chalmers Manufacturing Company. Surface fluorinated hydrogen containing material and process for making. 3,740,256, 6-19-73, Cl. 117-93.1cd.

Manion, Jean P.; and Davies, Daniel J., to Allis-Chalmers Corporation. Surface fluorinated hydrogen containing material and process for making. 3,740,325, 6-19-73, Cl. 204-169.000.

Manion, Jean P., to Allis-Chalmers Manufacturing Company. Method of operating fuel cell with hydrogen peroxide oxidant. 3,758,339, 9-11-73, Cl. 136-86.00e.

Maniscalco, Thomas. Stream generating apparatus. 3,774,008, 11-20-73, Cl. 219-401.000.

Manitre, Maurice A.; and Thepaut, Pierre, to Lignes Telegraphiques et Telephoniques. Opto-electronic relay. 3,751,671, 8-7-73, Cl. 250-199.000.

Manizza, Guelfo A., to Continental Can Company, Inc. Carton with shortened web corners. 3,734,391, 5-22-73, Cl. 229-31.00r.

Manjikian, Serop, to Universal Water Corporation. Method of producing semipermeable membrane elements. 3,769,128, 10-30-73, Cl. 156-185.000.

Manjikian, Serop; and Windle, William K., to United States of America, Interior. Reverse osmosis module. 3,774,771, 11-27-73, Cl. 210-321.000.

Manka, Dan Paul, to Jones & Laughlin Steel Corporation. Gas sampling apparatus. 3,748,906, 7-31-73, Cl. 73-421.500.

Manka, Jerzy: *See*—
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Manke, Arno: *See*—
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Manke, Herbert R.; and Flatley, James P., to United States of America, Navy. Signaling searchlight. 3,764,798, 10-9-73, Cl. 240-22.000.

Mankin, Paul A.; Mitchell, Thomas O.; and Zanoni, Paul, to Bennett Pump Incorporated. Displacement meter for measuring fluids. 3,757,581, 9-11-73, Cl. 73-247.000.

Mankoff, Lawrence L.; and Spinanger, Thomas S., to General Electric Company. Ground conductor continuity checking circuit. 3,729,653, 4-24-73, Cl. 317-18.00c.

Mankowich, Ivan: *See*—
Sundholm, Norman K.; and Mankowich, Ivan, 3,728,310.

Mankowsky, Vincent J. Lock nut assemblies. 3,749,433, 7-31-73, Cl. 287-189.36f.

Mankowsky, Vincent J.; and Ceroke, Clarence J., to U.S. Industries, Inc. Prefill valve for molding machines. 3,781,160, 12-25-73, Cl. 425-450.000.

Manly, Ron. Automatic editing method with page formatting. 3,714,636, 1-30-73, Cl. 340-172.500.

Manly, Ron. Automatic editing method. 3,739,348, 6-12-73, Cl. 340-172.500.

Manly, Ron. Method and apparatus of editing using colored editing marks. 3,750,112, 7-31-73, Cl. 340-172.500.

Manly, Ron. Method of editing an erroneous section of a message. 3,763,471, 10-2-73, Cl. 340-172.500.

Mann, Adriaan Barend; and Christianus, Jacobus Johannes, to Stichting Waterbonwkundig Laboratorium. Apparatus for taking an undisturbed soil sample. 3,768,580, 10-30-73, Cl. 175-251.000.

Mann, Alfred W., to Tex Aluminum Company, Inc. Indirect extrusion. 3,727,448, 4-17-73, Cl. 72-255.000.

Mann, Alfred W., to Texas Aluminum Company, Inc. Indirect extrusion die assembly and method of extruding. 3,735,623, 5-29-73, Cl. 72-261.000.

Mann, Basil B., to Century Tool Company, Inc. Oiler spout. 3,722,762, 3-27-73, Cl. 222-568.000.

Mann, Bernard: *See*—
Stanley, John E.; and Mann, Bernard, 3,753,325.

Mann, Charles Alan: *See*—
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Mann, Charles N.: *See*—
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Mann, David: *See*—
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Mann, Egon: *See*—
Baurle, Horst; Veil, Karl; Hamma, Karlmann; and Mann, Egon, 3,761,141.

Mann, Frederick W. Adjustable swing hitch for vehicles. 3,718,347, 2-27-73, Cl. 280-467.000.

Mann, George, to United Aircraft Corporation. Display centering system. 3,725,722, 4-3-73, Cl. 315-21.00r.

Mann, H. William: *See*—
Wrenn, George T.; and Mann, H. William, 3,759,062.

Mann, Helmut, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Process for making semiconductor devices. 3,733,691, 5-22-73, Cl. 29-588.000.

Mann, Henry, Inc.: *See*—
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Mann, Hugh W.: *See*—
Wreen, George T., Jr.; Mann, Hugh W.; and Zeek, Elwood R., 3,754,409.

Mann, James F. Self contained adjustable support assemblies to support, raise, and lower a mobile living facility with respect to both a vehicle and the ground. 3,709,467, 1-9-73, Cl. 254-45.000.

Mann, James U.: *See*—
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Mann, John Brien, to Metropolitan Tool and Products Limited. Cable reeling drums. 3,780,538, 12-25-73, Cl. 64-30.00c.

Mann, Julius W. Self-excited composite capacitance and interlocking inductance oscillator. 3,721,920, 3-20-73, Cl. 331-168.000.

Mann, Larry L., to Kaiser Aluminum & Chemical Corporation. Apparatus for lining rotary kilns. 3,733,045, 5-15-73, Cl. 249-184.000.

Mann, Michael M.: *See*—
Bhaumik, Mani L.; Diem, Don D.; and Mann, Michael M., 3,761,838.

Mann, Ralph W.; and Johnson, Frank B., to United States of America, Navy. Mine firing control apparatus. 3,722,409, 3-27-73, Cl. 102-18.000.

Mann, Richard Charles, Sr.; and Schwalm, Glendon Henry, to AMP Incorporated. Wire connection, method, and connecting apparatus. 3,708,878, 1-9-73, Cl. 29-628.000.

Mann, Roger H.: *See*—
Snyder, John L.; Papavasiliou, Mary J.; and Mann, Roger H., 3,779,999.

Mann, Thomas A.; and Villani, Frank J., to Schering Corporation. 2-Amino-6-phenalkyl-aminopyridines and derivatives thereof. 3,776,917, 12-4-73, Cl. 260-296.00r.

Manna, Michael C.: *See*—
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Mannaka, Toshio; Kitanosono, Hidehiro; Matsuka, Shigemichi; and Shingai, Sadanori, to Hitachi, Ltd. Automatic plate-thickness control method for rolling mill. 3,763,677, 10-9-73, Cl. 72-8.000.

Manne, Stanley; and Beyer, Myron S., to Tee-Pak, Inc. Method of preparing oxygen impermeable film laminate. 3,753,828, 8-21-73, Cl. 156-333.000.

Mannens, Marc Godfried; Jaeken, Jan; Janssens, Wilhelmus; and Priem, Jan Jozef, to Agfa-Gevaert N.V. Photographic elements containing ultraviolet-absorbing polymers. 3,761,272, 9-25-73, Cl. 96-84.00r.

Manner, Olof, AB: *See*—
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Manner Plastic Materials, Inc.: *See*—
Tochner, Irving A.; and Savinsky, Walter T., 3,712,590.

Mannesmann (Nederland) N.V.: *See*—
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Mannesmann Aktiengesellschaft: *See*—
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Bellmann, Manfred; and Pfeiffer, Gerd, 3,717,018.
Herter, Hermann; and Scherf, Adolf, 3,729,282.
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Mannesmannrohren-Werke A.-G.: *See—*
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Mannherz, Elmer D.; and Yard, John S., to Fischer & Porter Company. Insert-type electromagnetic flowmeter. 3,745,824, 7-17-73, Cl. 73-194.0em.

Mannik, Kallis H., to Xerox Corporation. Method for sequential illumination in a polychrome process. 3,748,035, 7-24-73, Cl. 355-4.000.

Manning, Dan. Leveling and locking pin. 3,742,807, 7-3-73, Cl. 85-5.00r.

Manning, David Roger: *See—*
Newman, Edward Arthur; Pay, Brian Edward; and Manning, David Roger, 3,742,146.

Manning, Donald P.; Caison, Lloyd D.; and Jones, Frank R., to Allied Chemical Corporation. Method for melting and dispersion of thermoplastic polymers. 3,767,754, 10-23-73, Cl. 264-176.000.

Manning Environmental Corporation, mesne: *See—*
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Manning, Harold E., to Petro-Tex Chemical Corporation. Manganese ferrite oxidative dehydrogenation catalysts. 3,751,385, 8-7-73, Cl. 252-447.000.

Manning, Harold E., to Petro-Tex Chemical Corporation. Dehydrogenation catalysts. 3,767,596, 10-23-73, Cl. 252-465.000.

Manning, Harold E., to Petro-Tex Chemical Corporation. Oxidative dehydrogenation in the presence of crystalline, Provoskite type manganese compounds. 3,780,126, 12-18-73, Cl. 260-680.00d.

Manning, Harold E., to Petro-Tex Chemical Corporation. Dehydrogenation process and catalyst. 3,781,376, 12-25-73, Cl. 260-683.300.

Manning, James H., to Imperial Paper Company. Process for the production of latex coated cyanamide-formaldehyde modified cellulosic pulp fibers. 3,714,088, 1-30-73, Cl. 260-17.300.

Manning, Jim L.; and Manning, Richard D., 5% to Klein, John M. Pet feeder. 3,730,141, 5-1-73, Cl. 119-51.500.

Manning, John C.: *See—*
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Manning, John C.; and Manning, Mark T. Seismically sensitive safety device. 3,779,262, 12-18-73, Cl. 137-38.000.

Manning, Kenneth G., to Schlumberger Technology Corporation. Well bore data-transmission apparatus with debris clearing apparatus. 3,764,970, 10-9-73, Cl. 340-18.0nc.

Manning, Lindley; Mc Kee, Robert B.; Zemke, Hubert; and Douglas, Bruce M., to Tensor Corporation, The. Elongated lightweight structure. 3,740,301, 6-19-73, Cl. 161-58.000.

Manning, Mark T.: *See—*
Manning, John C.; and Manning, Mark T., 3,779,262.

Manning, Randy Marshall: *See—*
Heinlen, Frederick Jay; and Manning, Randy Marshall, 3,736,367.

Manning, Randy Marshall, to AMP Incorporated. Lead frames and method of making same. 3,735,017, 5-22-73, Cl. 174-52.00s.

Manning, Richard D.: *See—*
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Manning, Robert E.: *See—*
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Anderson, Paul L.; and Manning, Robert E., 3,755,312.
Houlihan, William J.; and Manning, Robert E., 3,755,330.

Manning, Robert E., to Sandoz-Wander, Inc. Substituted amino guanidine as anti-diabetic agents. 3,714,363, 1-30-73, Cl. 424-326.000.

Manning, Robert E., to Sandoz-Wander, Inc. Phenyl and substituted phenylsulfonylallyl amines and substituted amines. 3,726,868, 4-10-73, Cl. 260-247.100.

Manning, Robert E., to Sandoz-Wander, Inc. Thiazolodiazepines. 3,763,142, 10-2-73, Cl. 260-239.0bc.

Manning, Robert E., to Sandoz-Wander, Inc. 1-Alkyl-5-alkylaminoindolines. 3,773,785, 11-20-73, Cl. 260-326.11r.

Manning, Stanley A.: *See—*
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Mannings, Inc.: *See—*
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Mannino, Joseph: *See—*
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Mannion, Gerald F.; and Mannion, James R. Process fluid flow regulation systems. 3,729,051, 4-24-73, Cl. 165-22.000.

Mannion, James R.: *See—*
Mannion, Gerald F.; and Mannion, James R., 3,729,051.

Mannix Co., Ltd.: *See—*
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Mannix Construction Inc.: *See—*
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Holley, John D.; and Peppin, Richard A., 3,780,664.

Mannorth Service Corporation: *See—*
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Mannucci, Enzo Sergio: *See—*
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Mano, Hiroshi: *See—*
Sawada, Hideo; Rin, Ensei; Yamada, Isao; Mano, Hiroshi; and McGourty, Thomas K., 3,710,359.

Manolis, John. Machine for producing self-opening envelopes. 3,733,982, 5-22-73, Cl. 93-76.000.

Manoogian, Alex; and Pullen, Eric V., to Masco Corporation. Single handle mixing valve. 3,747,638, 7-24-73, Cl. 137-625.400.

Manor, Nathan. Tray for storing and drying dishes and kitchen utensils. 3,737,209, 6-5-73, Cl. 312-247.000.

Manor, Richard C.; and Osowski, Henry W. Simulated dentition. 3,780,439, 12-25-73, Cl. 32-71.000.

Manor, Warren H. Mobile collapsible scaffold. 3,709,251, 1-9-73, Cl. 137-343.000.

Manos, George: *See—*
Santullo, Vincent F.; Manos, George; Gazzo, John J., Jr.; and Roumanos, William P., 3,752,940.

Manos, George, to Porta Systems Corporation. Variable timing automatic interrupter circuit for common telephone sender equipment. 3,716,674, 2-13-73, Cl. 179-18.0fa.

Manoussi, Gerard Philippe: *See—*
Donze, Michel; Kohler, Bernard Claude; and Manoussi, Gerard Philippe, 3,736,471.

Manoussos, Georges: *See—*
Aubin, Guy; and Manoussos, Georges, 3,778,502.
Kalopissis, Gregoire; and Manoussos, Georges, 3,733,402.

Manring, John Michael, to Harris-Intertype Corporation. Measurement and control of ink density. 3,756,725, 9-4-73, Cl. 356-195.000.

Mansdorf, Seymour Zachary: *See—*
Cardarelli, Nathan F.; and Mansdorf, Seymour Zachary, 3,749,772.

Mansei Kogyo Kabushiki Kaisha: *See—*
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Moriya, Nobuyoshi, 3,764,256.

Mansell, Dennis N., to United States of America, Air Force. Fan geometry mixing laser. 3,725,816, 4-3-73, Cl. 331-94.500.

Mansell, Dennis N., to United States of America, Air Force. Beam scanner for high power laser. 3,731,106, 5-1-73, Cl. 250-236.00r.

Mansell, Dennis N., to United States of America, Air Force. Spiral grooved liquid cooled laser mirror. 3,731,992, 5-8-73, Cl. 350-310.000.

Mansell, Dennis N., to United States of America, Air Force. Laser beam scanning device. 3,738,168, 6-12-73, Cl. 73-190.00r.

Mansell, Ivor. Elastomeric forming die. 3,760,622, 9-25-73, Cl. 72-57.000.

Mansfeld, Hans, to Migua Mitteldeutsche Gummi- und Asbestgesellschaft Hammerschmidt & Co. Elastic gap sealing device. 3,742,669, 7-3-73, Cl. 52-396.000.

Mansfield Aircraft Products Co.: *See—*
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Mansfield, Edward Harry. Water filter connection means. 3,760,951, 9-25-73, Cl. 210-449.000.

Mansfield, Geoffrey Harry; and Watts, Malcolm Lehany, to Imperial Chemical Industries Limited. Cracking of hydrocarbons. 3,720,600, 3-13-73, Cl. 208-47.000.

Mansfield Heat Limited: *See—*
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Mansfield Sanitary, Inc.: *See—*
Drouhard, Alfred J., Jr.; and Weeks, John R., Jr., 3,727,241.

Mansfield, Vaughn: *See—*
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Manshausen, Theo: *See—*
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Manske, Richard: *See—*
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Manske, Wendell J., to Minnesota Mining and Manufacturing Company. Pressure change indicator. 3,736,899, 6-5-73, Cl. 116-70.000.

Mansmann, Manfred: *See—*
Winter, Gerhard; Zirngibl, Hans; and Mansmann, Manfred, 3,760,068.

Mansmann, Manfred; Winter, Gerhard; Pampus, Gottfried; Schnoring, Hildegard; and Schon, Nikolaus, to Bayer Aktiengesellschaft. Process for the production of carbon fibers. 3,723,609, 3-27-73, Cl. 423-447.000.

Manson, Edwin E., to MI2, Inc. Input-output typewriter apparatus. 3,724,630, 4-3-73, Cl. 197-19.000.

Manspeaker, Robert O.: *See—*
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Smith, James P., 3,762,191.

Manssens, Leo Hypoliet: *See—*
De Cat, Arthur Henri; and Manssens, Leo Hypoliet, 3,759,935.

Mansson, Kjell Ake Gosta: *See—*
Arciprete, Genio R.; Cairns, Walter J.; Hertz, Carl Hellmuth; Mansson, Kjell Ake Gosta; and Rothery, John L., 3,717,875.

Mansur, Fred E.: *See—*
Francel, Josef; and Mansur, Fred E., 3,736,176.

Mantelet, Jean, to Moulinex, Societe Anonyme. Household drying machine. 3,753,297, 8-21-73, Cl. 34-58.000.

Mantelet, Jean, to Moulinex, Societe Anonyme. Thermal warning or protection device. 3,761,856, 9-25-73, Cl. 337-409.000.

Mantell, Gerald J.; Smith, Wayne E.; Galiano, Francis R.; and Rankin, David, to Gulf Oil Corporation, mesne. Formaldehyde block copolymers and processes. 3,732,333, 5-8-73, Cl. 260-874.000.

Manthey, Horst: *See—*
Silberkuhl, Wilhelm Johannes; and Manthey, Horst, 3,760,549.

Manthey, Joseph W.: *See—*
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Manton, John C.: *See—*
Nibby, Chester M., Jr.; Manton, John C.; Curley, John L.; and Franklin, Benjamin S., 3,760,379.

Mantooth, Charles P. Seat lifter. 3,717,884, 2-27-73, Cl. 4-237.000.

Mantsch, Carol: *See—*
Hodosan, Francisc Petru; Serban, Nicolae; Balogh, Arbad; Jude, Ioan; Mantsch, Carol; and Bodor, Nicolae Stefan, 3,734,938.

Manuali, Bertrand Claude Marcel Jean, to Centre National d'Etudes Spatiales. Diode switching arrangements comprising three-position switching means. 3,720,888, 3-13-73, Cl. 333-7.000.

Manuel, Barry; and Pastan, Harvey L. Cardiac monitor. 3,742,937, 7-3-73, Cl. 128-2.05t.

Manuel, Charles, 20% interest to Lee, Raymond, Organization, Inc., The. Bank coin pack. 3,770,121, 11-6-73, Cl. 206-.820.

Manuel Lainz S.A.: *See—*
Vicent, Fernando Suarez, 3,716,921.

Manuel, Larry N. Camper tie down arrangement. 3,781,057, 12-25-73, Cl. 296-23.0mc.

Manufacture d'Accumulateurs et d'Objets Moules: *See—*
Brocart, Rene; and Bourez, Henri, 3,724,051.

Manufacture de boites de Montres S. Graber S.A.: *See—*
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Manufacture de Fils Isoles Taurus: *See—*
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Manutar S.A.: *See—*
Matthey, Maurice; and Imgrund, Heinrich, 3,738,184.
Matthey, Maurice L., 3,727,469.

Manyik, Robert M.; and Walker, Wellington E., to Union Carbide Corporation. Synthesis of octadienyl esters. 3,711,534, 1-16-73, Cl. 260-475.50n.

Manz, August Frederick, to Union Carbide Corporation. Ripple control for electric arc welding power supply apparatus. 3,718,802, 2-27-73, Cl. 219-131.0wr.

Manz, Curtis T. Welder's helmet having upwardly sliding window. 3,768,099, 10-30-73, Cl. 2-8.000.

Manz, Ulrich: *See—*
Gutmann, Hugo; Manz, Ulrich; and Schwieter, Ulrich, 3,714,367.

Manzanarez, Alfred L., 30% to Lee, Raymond, Organization, Inc., The. Nail holder. 3,729,035, 4-24-73, Cl. 145-46.000.

Manzek, Rhinehart A.: *See—*
Turner, Lyman H.; and Manzek, Rhinehart A., 3,735,978.

Manzer, Marvin R., to Reed Industries, Inc. Coin collecting system. 3,759,577, 9-18-73, Cl. 302-2.00r.

Manzi, Mathew. Universal replaceable drill for marble, metals and wood. 3,712,753, 1-23-73, Cl. 408-224.000.

Manzo, Joseph. Orthopedic device. 3,757,807, 9-11-73, Cl. 135-475.000.

Manzo, Joseph F.; Harris, James P.; Harris, Robert T.; and Mauch, Erwin W., to Brite Industries, Inc. Adjustable end connector for watchbands. 3,707,744, 1-2-73, Cl. 24-265.00b.

Manzo, Richard James: *See—*
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Mao, George W., to Gould Inc. Mold coating. 3,761,047, 9-25-73, Cl. 249-115.000.

Mao, George W., to Gould, Inc. Method of making mold for forming objects. 3,779,816, 12-18-73, Cl. 148-6.300.

MAPA GmbH: *See—*
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Mapel, William S.: *See—*
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Mapes, Carl R.: *See—*
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Maple Press Company, The: *See—*
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Maples, Travis N. Bowling ball refinishing machine. 3,714,703, 2-6-73, Cl. 29-560.000.

Mappes, Robert W., to Matson Navigation Company. Container for elongated articles. 3,768,686, 10-30-73, Cl. 220-1.500.

Mappin, Henry; and Gaskell, Joseph, to Dobson Park Industries Limited. Self-propelled vehicle for a rock working machine. 3,754,790, 8-28-73, Cl. 299-31.000.

Mar, Henry M.: *See—*
Johnson, Douglas; and Mar, Henry M., 3,752,225.

Mar, Jerry, to Bell Telephone Laboratories, Incorporated. Low power digital circuit utilizing avalanche breakdown. 3,727,076, 4-10-73, Cl. 307-218.000.

Mar, Jerry, to Bell Telephone Laboratories, Incorporated. Special masking method of fabricating a planar avalanche transistor. 3,765,961, 10-16-73, Cl. 148-175.000.

Mar, Michael W. Process for separating water from pollutants in water. 3,715,306, 2-6-73, Cl. 210-21.000.

Mar-Com Development, Inc.: *See—*
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Martin, John R., 3,712,974.

Mar-Con, Inc.: *See—*
Lieberman, Edgar M., 3,730,327.

Mara, Glenn L.; and McMaster, Robert C., to United States of America, Atomic Energy Commission. Method for producing spike-free electron beam partial penetration welds. 3,780,256, 12-18-73, Cl. 219-121.0er.

Marach, David R.: *See—*
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Marak, Ralph J.: *See—*
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Maran Plastic Company: *See—*
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Maranchak, Vasily Makarovich; Novella, Vladimir Nikolaevich; and Petrovich, Stanislav. Method of protection of D.C. transmission lines and a device for accomplishing same. 3,745,417, 7-10-73, Cl. 317-31.000.

Maranci, Arutun, to American Cyanamid Company. Wet-spinning process for "dog-bone" shaped acrylonitrile polymer fibers. 3,760,053, 9-18-73, Cl. 264-177.00f.

Marancik, William G.: *See—*
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Shattes, Walter J.; Marancik, William G.; and Kirk, Bradley S., 3,708,606.
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Marand, Jean, to Ciba-Geigy Corporation. Self-sealing and locking collar and container. 3,717,287, 2-20-73, Cl. 222-153.000.

Marand, Jean, to Ciba-Geigy Corporation. Coupler-aspirator-valve assembly. 3,730,392, 5-1-73, Cl. 222-82.000.

Marand, Jean, to Ciba-Geigy Corporation. Compressed air operated dispensing system. 3,733,031, 5-15-73, Cl. 239-349.000.

Marand, Jean, to Ciba-Geigy Corporation. Dispensing system with propellant metering valve. 3,741,443, 6-26-73, Cl. 222-145.000.

Marand, Jean, to Ciba-Geigy Corporation. Low pressure product container dispensing valve. 3,741,446, 6-26-73, Cl. 222-402.240.

Marand, Jean, to Ciba-Geigy Corporation. Seal for aerosol dispenser. 3,770,166, 11-6-73, Cl. 222-145.000.

Marangoni, Elvino; and Webb, Douglass G., Jr., to Shell Oil Company. Rodding device. 3,736,909, 6-5-73, Cl. 122-390.000.

Marano, Louis G., to Twin Disc, Incorporated. Method and machine for shaving a conical gear. 3,739,686, 6-19-73, Cl. 90-1.600.





Marantette, Louis E., to General Metalcraft, Inc. Sheet metal frame

Marantette, Louis E., to General Metalcraft, Inc. Sheet metal forming apparatus. 3,722,252, 3-27-73, Cl. 72-306.000.

Marantette, Ruth B.: *See—*
Marantette, William F.; and Marantette, Ruth B., 3,716,716.

Marantette, William F.; and Marantette, Ruth B. Photoelectric two axis positioning system. 3,716,716, 2-13-73, Cl. 250-203.00r.

Marasco, Paul M., to United States of America, Army. Log-base analog ballistics computer. 3,733,465, 5-15-73, Cl. 235-61.50e.

Marasco, Paul M.; Frohock, Millard M., Jr.; and Mc Adam, William E., Jr., said Marasco assor. to United States of America, Army and said McAdam assor. to Hughes Aircraft Company. Ballistic computer. 3,743,818, 7-3-73, Cl. 235-61.50r.

Marason, Gabriel, Jr. Spin pole doll accessory. 3,713,251, 1-30-73, Cl. 46-132.000.

Marason, Gabriel, Jr., to Mattel, Inc. Toy vehicle with adjustable body. 3,721,042, 3-20-73, Cl. 46-223.000.

Marathon Broadcast Equipment Sales Corporation: *See—*
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Marathon Oil Company: *See—*
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Allred, Victor D., 3,712,855.
Allred, Victor D., 3,730,270.
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Maravetz, Lester L.: *See—*
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Maravetz, Lester L., to Esso Research and Engineering Company. Cycloalkane carboxaldoxime carbamates. 3,721,711, 3-20-73, Cl. 260-566.0ac.

Maravetz, Lester L., to Esso Research and Engineering Company. N-Cycloalkylalkyl and N-cycloalkyl substituted phenyl ureas and halo acetamides. 3,728,386, 4-17-73, Cl. 260-553.00a.

Maravetz, Lester L., to Esso Research and Engineering Company. 3,5-Dinitrosulfanilamides. 3,775,402, 11-27-73, Cl. 260-239.600.

Maravetz, Lester L., to Esso Research and Engineering Company. Herbicidal N-(2-picolyl) substituted 2,6-dinitroanilines. 3,780,046, 12-18-73, Cl. 260-294.80f.

Marbach, Walter V.: *See—*
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Marban, Enrique G. Reflective illusion device. 3,772,511, 11-13-73, Cl. 240-10.00r.

Marbelite Company, Inc., The: *See—*
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Marberg, Bruce W. Stake pocket tie down insert. 3,779,502, 12-18-73, Cl. 248-361.00r.

Marbet, Roman, to Hoffmann-La Roche Inc. Process for the manufacture of polyene acids. 3,746,730, 7-17-73, Cl. 260-413.000.

Marble, Chester B., to General Electric Company. Simulated pendulum clock. 3,762,155, 10-2-73, Cl. 58-29.000.

Marble, Orlin G. Doll having gravity-actuated changeable eyes and denture arrays. 3,738,055, 6-12-73, Cl. 46-135.00r.

Marble, Orlin G. Air conditioning converter accessory for motor vehicles. 3,757,851, 9-11-73, Cl. 165-41.000.

Marburg, Stephen, to Merck & Co., Inc. Hydroxyethylation with ethylene sulfate. 3,743,653, 7-3-73, Cl. 260-309.000.

Marburger, Heinz: *See—*
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Marbury, Benjamin R.: *See—*
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Marbury, Fendall, Jr., to Litton Systems, Inc. Semi-submersible tender. 3,776,167, 12-4-73, Cl. 114-43.500.

Marcacci, James P.: *See—*
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Marcade, Roque D.; and Janke, Donald E., to Whirlpool Corporation. Electrical connection and ground monitor. 3,708,721, 1-2-73, Cl. 317-18.00b.

Marcatili, Enrique Alfredo Jose, to Bell Telephone Laboratories, Incorporated. Air clad optical fiber waveguide. 3,712,705, 1-23-73, Cl. 350-96.0wg.

Marcatili, Enrique Alfredo Jose, to Bell Telephone Laboratories, Incorporated. Signal detection and delay equalization in optical fiber transmission systems. 3,777,149, 12-4-73, Cl. 250-209.000.

Marce Cosmetics, Ltd.: *See—*
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Marceau, Rene. Front wheel steering assembly. 3,710,882, 1-16-73, Cl. 180-9.380.

Marcec, Ervin A. Method of manufacturing refractory bottom rings. 3,758,942, 9-18-73, Cl. 29-475.000.

Marcel, Henri. Stoppers for pressurized containers. 3,716,163, 2-13-73, Cl. 215-47.000.

Marcel, Jean Pierre. Rotary devices operated by pressurized-fluid. 3,751,194, 8-7-73, Cl. 418-217.000.

Marcell, William B. Unwind support for coiled wire. 3,729,092, 4-24-73, Cl. 206-52.00w.

Marcellis, Alphonso W.: *See—*
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Marcere, Alluren Leonard: *See—*
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Marcey, Stephen D., to National Cash Register Company, The. Conditioning of thermoplastic compositions for bonding. 3,721,598, 3-20-73, Cl. 156-330.000.

March Manufacturing Company: *See—*
Zimmermann, Frederick N., 3,758,236.

Marchaj, Tadeusz Josef, to Preload Engineering Company, The. Liner for cryogenic container. 3,712,500, 1-23-73, Cl. 220-9.0lg.

Marchal, Adrianus G.: *See—*
Graff, Renier J. L.; and Marchal, Adrianus G., 3,753,967.

Marchal, Francis V., to Autoclave Engineers, Inc. Pressure vessel. 3,747,798, 7-24-73, Cl. 220-55.00y.

Marchal, Paul Henri. Treatment of continuous sheet material. 3,707,743, 1-2-73, Cl. 24-252.00r.

Marchal, Paul-Henri, to Air Industrie. Installations for the treatment, in gaseous medium, of a strip product. 3,777,408, 12-11-73, Cl. 34-156.000.

Marchal, Philippe Albert Hippolyte; Simonnet, Jacques Louis Paul; Mordchelles Regnier, Georges; and Verrien, Jean Prudent Fernand Rene, to Bertin & Cie and Entreprise de Recherches et d'Activites Petrolieres Elf. Mass separator. 3,748,826, 7-31-73, Cl. 55-7.000.

Marchand, Georges: *See—*
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Marchand, Nathan. Compatible double precision doppler omnidirectional bearing system. 3,778,831, 12-11-73, Cl. 343-106.00d.

Marchant, Paul A., to Ethyl Development Corporation. Flexible container with dispensing cap. 3,754,690, 8-28-73, Cl. 222-494.000.

Marchant, Peter R.: *See—*
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Marchbank, Frederick Albert Leslie: *See—*
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Marchesani, Cesare N.: *See—*
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Marchese, Louie J.; and Hildebrandt, Robert A. Clamp assembly for hose, pipe and like articles. 3,748,697, 7-31-73, Cl. 24-19.000.

Marchi, Antonio, to Foodice Engineering Italiana S.p.A. Process and apparatus for the manufacture of frozen desserts. 3,777,504, 12-11-73, Cl. 62-73.000.

Marchiando, Michael A., to United States of America, Army. Self-leveling anti-disturbance device. 3,760,733, 9-25-73, Cl. 102-70.20r.

Marchiaro, Ettore: *See—*
De Angelis, Giovanni; and Marchiaro, Ettore, 3,765,339.

Marchignoni, Albano. Automatic pizza making machine. 3,735,692, 5-29-73, Cl. 99-353.000.

Marchini, Dino: *See—*
Camiciottoli, Roberto; and Marchini, Dino, 3,770,913.

Marchini, Dino, to Societa Italiana Telecomunicazioni Siemens S.p.A. Method of and means for emitting interrogation codes to supervise repeaters of PCM telecommunication system. 3,764,760, 10-9-73, Cl. 179-175.31r.

Marchione, Joseph H., to Atwood Vacuum Machine Company. Torsion bar hold-open hinge. 3,729,772, 5-1-73, Cl. 16-145.000.

Marchisano, Michael: *See—*
Dapolito, August A., 3,743,047.

Marchisotto, Robert: *See—*
Wei, Ling; and Marchisotto, Robert, 3,730,960.

Marchon Products Limited: *See—*
Hamshere, Wilfred Charles; and Atkinson, Thomas William Lancaster, 3,712,795.

Marciniak, John C.; and Burkey, William D., to Diebold, Incorporated. Modular concrete vault structure. 3,732,831, 5-15-73, Cl. 109-83.000.

Marcinkus, Donald W.: *See—*
Fanella, Robert J.; Marcinkus, Donald W.; and Sterly, Glenn E., 3,724,779.

Marciszewski, Ed: *See—*
Wright, George C.; Kozel, Charles; Baraglis, Nathan; and Marciszewski, Ed, 3,748,521.

Marciuliano, Frank, 51% to Ivy Graphics & Planning, Inc. Cigarette filter. 3,744,497, 7-10-73, Cl. 131-261.00b.

Marckardt, Volker. Multi-chamber container. 3,756,386, 9-4-73, Cl. 206-47.00a.

Marcks, Frederick C. Currency converter. 3,760,165, 9-18-73, Cl. 235-89.00r.

Marckx, Edward I.; and Stines, Harvey F., to Stinemark Corporation. Bread and pastry processing apparatus. 3,730,032, 5-1-73, Cl. 83-11.000.

Marcla, Americo E.; and Gehrke, Gerard W., to Torrington Company, The. Unidirectional clutch. 3,746,136, 7-17-73, Cl. 192-45.000.

Marco, Alex A.; and Wirth, Dennis L., said Marco and said Wirth Wirth, Dennis L. Propulsion and control system for motorboat. 3,709,187, 1-9-73, Cl. 115-35.000.

Marco, Gino J.; and Grainger, Robert B., to Monsanto Company. Feed compositions and methods. 3,778,508, 12-11-73, Cl. 424-300.000.

Marco, Gino J.; and Grainger, Robert B., to Monsanto Company. Animal feed compositions and methods. 3,781,440, 12-25-73, Cl. 424-300.000.

Marco, John L.: *See—*
Marco, Millicent L.; and Marco, John L., 3,757,775.

Marco, John L. Uterine evacuation assembly. 3,774,612, 11-27-73, Cl. 128-304.000.

Marco, Millicent L.; and Marco, John L., to Searle, G. D., & Co. Intra uterine device. 3,757,775, 9-11-73, Cl. 128-130.000.

Marcon Marketing Concepts, Inc.: *See—*
Wilkins, Don E., 3,756,421.

Marcona Corporation: *See—*
Kastrinos, Arthur, 3,746,268.
Murphy, Emmett J., 3,779,027.
Robinson, Charles W.; Merklin, Kenneth E.; and Wood, William P., 3,749,314.

Marconi Company Limited, The: *See—*
Bodonyl, Janos, 3,727,152.
Chandler, David Horace, 3,754,322.
Cross, Malcolm Geoffrey; and Musson, Joseph Thomas Barrow, 3,729,738.
Ellis, Alfred Brian Edwin; and Bunton, Geoffrey Vernon, 3,737,668.
Ellis, Alfred Brian Edwin, 3,749,834.
Finch, Derek James, 3,715,491.
Fremont, Andrew De Mouilpied, 3,755,707.
Green, William Harry Francis; and Terry, John Brian, 3,740,479.
Hilsley, Royston William, 3,743,790.
Holland, Ernest Oliver; and Sadler, Leslie James, 3,726,004.
Loose, Peter William; and Sharman, Richard Arthur, 3,743,766.
Mayhew, Antony James; and Cheale, Leonard Frederick, 3,734,616.
Monger, Kenneth Sydney; and Wallis, Frank, 3,761,181.
Neale, Noel William Thomas, 3,732,571.
Pay, Donald Alexander, 3,778,547.
Ryley, Derek Vernon; and Claydon, Gyongyver, 3,710,018.
Sosin, Boleslaw Marian, 3,740,756.
Terry, John Brian; and Corlett, David Fleming, 3,730,994.
Terry, John Brian, 3,760,407.
Yates, Michael Harold John, 3,735,356.

Marconi Instruments Limited: *See—*
O'Neill, Damer Evelyn, 3,710,253.
Parkyn, John Michael, 3,737,809.

Marconi, Joseph. Printed circuit card retainer and rack assembly. 3,714,513, 1-30-73, Cl. 317-101.0dh.

Marcor Housing Systems Incorporated: *See—*
Fuller, Walter Thomas, 3,768,221.

Marcotte, Alfred J., Jr.: *See—*
Watts, Eugene R. V.; and Marcotte, Alfred J., Jr., 3,771,156.

Marcotte, Eugene M., to West Coast Rope and Rigging of Portland, Inc. Beam end cap. 3,718,361, 2-27-73, Cl. 294-67.00e.

Marcoux, Arthur; and Stansbury, John H., to McDonnell Douglas Corporation. Method of installing papered fasteners having a high percent of contact surface. 3,742,584, 7-3-73, Cl. 29-407.000.

Marcoux, Arthur, to McDonnell Douglas Corporation. Drill bushing system. 3,756,736, 9-4-73, Cl. 408-14.000.

Marcoux, Leo: *See—*
Ting, Voud H.; and Marcoux, Leo, 3,748,439.

Marcoux, Leo, to Texas Instruments, Incorporated. Liquid level indicating system. 3,760,352, 9-18-73, Cl. 340-59.000.

Marcovitch, Jacob, to Rotary Profile Anstalt. Apparatus for rolling workpieces. 3,756,055, 9-4-73, Cl. 72-71.000.

Marcovitz, David L.: *See—*
Vocker, Harold R.; Marcovitz, David L.; Thompson, I. L.; and Wallace, Woodrow, 3,759,171.

Marcovitz, David Louis; and Vocker, Harold Ray. Interchangeable power operated tools. 3,759,336, 9-18-73, Cl. 173-163.000.

Marcucci, Ronald R.; and Galatioto, Santo C., to Hazeltine Corporation. System for determining whether a signal lies within a selected frequency band. 3,750,034, 7-31-73, Cl. 328-110.000.

Marcum, Harold E.: *See—*
Charron, William W.; Harrison, Robert S.; and Marcum, Harold E., 3,752,141.
Charron, William W.; Harrison, Robert S.; and Marcum, Harold E., 3,752,450.
Harrison, Robert S.; and Marcum, Harold E., 3,730,153.
Harrison, Robert S.; and Marcum, Harold E., 3,760,785.

Marcus, Bruce D.: *See—*
Kirkpatrick, Milton E; Piwonka, Thomas S.; and Marcus, Bruce D., 3,770,047.
Staudhammer, Karl P.; and Marcus, Bruce D., 3,762,011.

Marcus, Henry J.: *See—*
Gold, Marvin H.; and Marcus, Henry J., 3,732,289.

Marcus, Irwin: *See—*
Kintish, Irving L.; and Marcus, Irwin, 3,750,582.

Marcus, Konrad H.: *See—*
Cain, Wayne R.; Marcus, Konrad H.; and Prince, Edgar D., 3,708,828.

Marcus, Paul. Injection blow molding method. 3,776,991, 12-4-73, Cl. 264-89.000.

Marcus, Seymour A.: *See—*
Broderick, James J.; and Marcus, Seymour A., 3,780,184.

Marcuzzi, Anthony T.: *See—*
Francis, Reid E.; and Marcuzzi, Anthony T., 3,745,703.

Marcy, Raymond, to Thomson-CSF. Electro-optical system for controlling the attitude of a stage mounted on a carriage sliding along a parallel bench. 3,715,599, 2-6-73, Cl. 250-231.00r.

Marcy, Raymond, to Thomson-CSF. System for accurately positioning an object under the control of programmed numerical data. 3,719,879, 3-6-73, Cl. 318-593.000.

Marcy, Raymond, to Thomson-CSF. Line tracing systems using laser energy for exposing photo-sensitive substrates. 3,732,796, 5-15-73, Cl. 95-12.000.

Marcy, Raymond; and Lacombat, Michel, to Thomson-CSF. Optical contacting systems for positioning and metrology systems. 3,738,754, 6-12-73, Cl. 356-106.000.

Marcy, Rene Henri Pierre: *See—*
Robba, Max Fernand; Marcy, Rene Henri Pierre; and Duval, Denise Jeanne Claude, 3,772,295.

Mardas, Alexis, to Modern Telephones Limited. Electrical storage circuit. 3,735,050, 5-22-73, Cl. 179-90.00b.

Marden, Carleton S.: *See—*
Gordon, William J. J.; Marden, Carleton S.; and Sperry Charles R., 3,737,241.

Marderian, Alex S.: *See—*
Demas, Nicholas L.; Fabian, George J.; Marderian, Alex S.; Minn, Sherman L.; Wack, John M.; Waxman, Herbert I.; and Wecker, Edwin W., 3,710,722.

Mare, Ernest. Scrubbing apparatus and method. 3,745,745, 7-17-73, Cl. 5-95.000.

Marechal, Freddy; and Lefebvre, Henri, to Solvay & Cie. Process for producing adiponitrile by dimerization on an amalgam. 3,780,086, 12-18-73, Cl. 260-465.80a.

Marechal, Gilles Adrien Georges. Connector terminal having a contact socket assembly for receiving the end of a conductor. 3,737,839, 6-5-73, Cl. 339-272.00r.

Maree, Michel: *See—*
Stauff, Emile; Maree, Michel; and Roze des Ordons, Jacques, 3,721,155.

Marek, Adolf: *See—*
Kadlez, Karl; and Marek, Adolf, 3,739,133.

Marek, Alois, to Brown, Boveri & Company, Limited. Two terminal network with negative impedance. 3,723,775, 3-27-73, Cl. 307-304.000.

Marek, Alois, to Brown, Boveri & Company Limited. Two terminal network with negative impedance. 3,732,482, 5-8-73, Cl. 321-2.000.

Marek, Alois, to Aktiengesellschaft Brown, Boveri & Cie. Semiconductor structure incorporating tunnel diodes located in the path of the main current flow. 3,746,948, 7-17-73, Cl. 317-235.00r.

Marek, Alois, to Brown, Boveri & Company Limited. Bistable semiconductor device. 3,771,027, 11-6-73, Cl. 317-235.00r.

Marek, James John, Jr.; and Taylor, George William, to Bell Telephone Laboratories, Incorporated. Flexible translator. 3,716,675, 2-13-73, Cl. 179-18.0et.

Marek, James R.; and Kershaw, Stanley S., Jr., to McGraw-Edison Company. Disconnector for surge arresters. 3,710,212, 1-9-73, Cl. 317-66.000.

Marek, Josef; and Hayn, Gunther, to Austria Tabak Werke Aktiengesellschaft. Method and apparatus for regulating output in tobacco cutting machines. 3,709,274, 1-9-73, Cl. 83-13.000.

Marella, Giulio: *See—*
Funaioli, Ettore; Landini, Piercarlo; and Marella, Giulio, 3,777,995.

Marella, Silvio A., Jr.: *See—*
Ruckel, James R.; Rizzo, Charles P.; and Marella, Silvio A., Jr., 3,727,161.

Maremont Corporation: *See—*
Anderson, Gordon C.; and Harmon, Albert D., 3,728,852.
Anderson, Gordon C.; and Drake, William H., 3,751,895.
Brooks, Frank E.; and Waddington, James, 3,738,461.
Cleland, Luther A., Jr.; and Harmon, Albert D., 3,728,550.
Downing, Todd R., 3,729,782.
Drake, William H., 3,740,937.
Folley, Cranston Wesley; and Rocha, John Gonsalves, 3,715,955.
Harmon, Albert D., 3,712,040.
Merck, James K., 3,753,344.
Rocha, John Gonsalves, 3,762,328.
Wiegand, John A., 3,715,813.
Wiegand, John A., 3,715,814.

Marendaz, Georges-Andre, to Ateliers des Charmilles S.A. Process and apparatus for machining by electro-erosion. 3,739,136, 6-12-73, Cl. 219-69.00c.

Marendaz, Georges-Andre, to Ateliers des Charmilles S.A. Process and apparatus for machining by electro-erosion. 3,739,137, 6-12-73, Cl. 219-69.00c.

Mares, Milos: *See—*
Zabrodsky, Zdenek; Crhonek, Oldrich; Sebela, Jiri; and Mares, Milos, 3,729,029.

Mares, Milos; Nosek, Stanislav; Martinek, Lumir; and Rohlena, Vaclan, to Vyzkumny ustav bavlnarsky. Apparatus for compensating the deviations of warp tension in weaving looms. 3,727,646, 4-17-73, Cl. 139-97.000.

Marewitz, Wernhard, to Siemens Aktiengesellschaft. Circuit arrangement for synchronizing transmitters and receivers in data transmission systems. 3,761,891, 9-25-73, Cl. 340-146.10d.

Marfin, Boris Vasilievich: *See—*
Nabiullin, Faat Khatovich; Buzova, Zoya Mikhailovna; Gertsik, Efim Mikhailovich; Marfin, Boris Vasilievich; Rabinovich, Vyacheslav Anatolievich; and Koval, Ivan Ivanovich, 3,732,607.

Marforio, Nerino, to S.p.A. Virginio Rimoldi & C. Needle driving device for sewing machines. 3,745,951, 7-17-73, Cl. 112-221.000.

Marforio, Nerino, to Rimoldi, Virginio, & C., S.p.A. Apparatus for producing stitching patterns with adjustable workclamp apertures. 3,759,200, 9-18-73, Cl. 112-121.150.

Marforio, Nerino, to S.p.A. Virginio Rimoldi & C. Lubricant recovery device in sewing machines. 3,773,003, 11-20-73, Cl. 112-256.000.

Marforio, Nerino, to S.p.A. Virginio Rimoldi & C. Sewing machine lubricating system. 3,777,850, 12-11-73, Cl. 184-6.150.

Marforio, Nerino, to S.p.A. Virginio Rimoldi & C. Air-cooled sewing machine. 3,779,188, 12-18-73, Cl. 112-218.00r.

Marg, Charles M.: *See—*
Marg, Donald B.; and Marg, Charles M., 3,743,144.

Marg, Donald B.; and Marg, Charles M. Recloseable calking cartridge nozzles. 3,743,144, 7-3-73, Cl. 222-180.000.

Margan, Gerard E., to Riddell, Inc. Energy absorbing and sizing means for helmets. 3,713,640, 1-30-73, Cl. 267-117.000.

Margaroli, John L.; and Cimperman, Fred J., to Vistan Corporation. Cherry pitter. 3,731,615, 5-8-73, Cl. 99-559.000.

Margave, John L.; Bautista, Renato G.; Ficalora, Peter J.; and Badachhape, Ramachandra B., to R. I. Patents, Inc. Chemical method for producing diamonds and fluorinated diamonds. 3,711,595, 1-16-73, Cl. 423-446.000.

Margerum, Edwin O.: *See—*
Rowland-Hill, Edward William; and Margerum, Edwin O., 3,779,251.

Margerum, John D., to Hughes Aircraft Company. Method of controlling the intensity of a light beam using photochromic compounds. 3,741,628, 6-26-73, Cl. 350-160.00p.

Margetts, Hugh Grenville, to Girling Limited. Vehicle brakes. 3,719,258, 3-6-73, Cl. 188-79.50p.

Margherio, Secondino P.: *See—*
Roberts, John G.; Weber, Jack; and Margherio, Secondino P., 3,754,115.

Margherone, Edward G.: *See—*
Funk, Forrest E.; Oda, Richard T.; Luria, Norman G.; and Margherone, Edward G., 3,781,453.

Margittai, Thomas. Stand supported vessel and mixer. 3,717,329, 2-20-73, Cl. 259-43.000.

Margittai, Thomas, 1/2 to Yuter, Seymour. Sequential drying system. 3,738,016, 6-12-73, Cl. 34-92.000.

Margolies, Arthur: *See—*
Blank, Hans G.; and Margolies, Arthur, 3,745,364.

Margolis, Bern; and Saunders, Irving B., to Ply & Gem Industries, Inc. Sliding panel display. 3,732,633, 5-15-73, Cl. 35-55.000.

Margolis, Morris: *See—*
Margolis, Morris; and Collins, Harry F., Jr. (said Collins assor. to said), 3,767,043.

Margolis, Morris; and Collins, Harry F., Jr., said Collins assor. to said Margolis, Morris. Package for products. 3,767,043, 10-23-73, Cl. 206-79.000.

Margoshes, Marvin: *See—*
Vogenthaler, Richard L.; and Margoshes, Marvin, 3,728,576.

Margosian, Paul M.; and Nakanishi, Shigeo, to United States of America, National Aeronautics and Space Administration. Single grid accelerator for an ion thrustor. 3,744,247, 7-10-73, Cl. 60-202.000.

Margosian, Zaven: *See—*
Weidman, Joseph S.; Yee, Henry C.; Elliott, Jack G.; and Margosian, Zaven, 3,725,921.

Margot, Alfred: *See—*
Brenneisen, Paul; Callay, Jean-Jacques; and Margot, Alfred, 3,755,406.
Traber, Walter; Margot, Alfred; and Gallay, Jean-Jacques, 3,719,702.

Margotte, Dieter: *See—*
Buysch, Hans-Josef; Krimm, Heinrich; and Margotte, Dieter, 3,758,597.

Margotte, Dieter; Vernaleken, Hugo; and Peilstocker, Gunter, to Bayer Aktiengesellschaft. Pigmented polycarbonates with improved properties. 3,761,440, 9-25-73, Cl. 260-37.0pc.

Margraff, Rodolphe: *See—*
Bourat, Guy; and Margraff, Rodolphe, 3,741,945.

Margrave, John L.; and Lagow, Richard J., to R. I. Patents, Inc. Process for the production of hydrolytically resistant fluorocarbons. 3,758,450, 9-11-73, Cl. 260-94.90h.

Margrave, John L.; and Lagow, Richard J. Process for fluorination of aromatic and polynuclear hydrocarbon compounds and fluorocarbons produced thereby. 3,775,489, 11-27-73, Cl. 260-648.00f.

Margulis, Harry: *See—*
Maloney, William R.; and Margulis, Harry, 3,740,136.

Margulis, Harry; and Korff, Roy D., to Addressograph-Multigraph Corporation. Document feeder control circuit. 3,747,918, 7-24-73, Cl. 271-4.000.

Marhefka, Andrew J.: *See—*
Hickerson, Frederick R.; and Marhefka, Andrew J., 3,757,635.
Rosenberg, Max; and Marhefka, Andrew J., 3,731,505.

Marhofer, Edwin G.: *See—*
Tolle, Glenn E.; and Marhofer, Edwin G., 3,748,319.

Marhoff, Paul: *See—*
Lutz, Herbert; Marhoff, Paul; Pfeiler, Manfred; Frunn, Klaus; and Goering, Ulrich, 3,749,868.

Marhold, Werner: *See—*
Bruce, Roger K.; Marhold, Werner; and Adickes, Cecil F., 3,734,125.
Bruce, Roger K.; Marhold, Werner; and Adickes, Cecil F., 3,737,077.





Bruce, Roger K.; and Marhold, Werner, 3,757,651.

Marhold, Werner, to Sterigard Corporation. Apparatus for attaching a flexible bag to a container body. 3,710,693, 1-16-73, Cl. 93-36.010.

Mari, Enzo. Hinged box. 3,717,278, 2-20-73, Cl. 220-31.00r.

Mari, Enzo. Container. 3,729,114, 4-24-73, Cl. 220-20.000.

Maria Mes, Johannes Antonius, to U.S. Philips Corporation. Electro-optical modulation apparatus using a square-wave signal. 3,713,722, 1-30-73, Cl. 350-150.000.

Mariacher, Hans: *See—*
Kieffer, Richard; Mariacher, Hans; and Schoof, Hansotto, 3,717,496.

Marian, Daniel; and Ramun, Michael. Variable offset spring mounting block for load-bearing vehicles. 3,730,508, 5-1-73, Cl. 267-52.000.

Mariani, Brunello; and Sgarbi, Renato, to Ferrania, S.p.A. Cyanine dyes. 3,745,157, 7-10-73, Cl. 260-240.100.

Mariani, Giuseppe: *See—*
Conta, Renato; and Mariani, Giuseppe, 3,723,694.

Mariani, Louis J. Depth marker for a fish line. 3,714,923, 2-6-73, Cl. 116-114.000.

Marianowski, Leonard G.: *See—*
Borucka, Alina Z.; Marianowski, Leonard G.; and Baker, Bernard S., 3,723,186.

Marie, Gerard Joseph Marcel: *See—*
Donjon, Jacques; and Marie, Gerard Joseph Marcel, 3,781,469.

Marie, Gilbert: *See—*
Amiard, Yves; Bellissent, Jean-Paul; and Marie, Gilbert, 3,723,399.

Marie, Maurice; and Trouilhet, Achille, to Calor. Roller bearing device for a washing machine, particularly for a linen washing machine. 3,720,081, 3-13-73, Cl. 68-132.000.

Marie, Paul: *See—*
Klien, Oswald; Klien, Gert; and Marie, Paul, 3,752,021.

Marienbakh, Lev Mikhailovich: *See—*
Cherny, Anatoly Alexeevich; Grachev, Vladimir Alexandrovich; Marienbakh, Lev Mikhailovich; Kurbatsky, Ivan Lukich; Fomin, Stepan Frolovich; Sosnovsky, Efim Davidovich; and Pavlenko, Nikolai Semenovich, 3,753,688.

Maries, Keith; and Case, Derek Frank, to International Computers, Limited. Method of making magnetic head assembly having glass ceramic bonded parts. 3,770,403, 11-6-73, Cl. 65-43.000.

Marietta Scientific Controls, Inc.: *See—*
Worden, Donald A., 3,739,813.

Marimon, Robert L.; Matthews, Robert L.; and Maughan, Michael D.; deceased (by Maughan, Thera; administratrix), to United States of America, Navy. Automatic electronic filter system. 3,744,015, 7-3-73, Cl. 340-3.00d.

Marin, Glenn R., to Carborundum Company, The. Reinforced carbon bodies. 3,712,428, 1-23-73, Cl. 188-251.00a.

Marin, Glenn R., to Carborundum Company, The. Disc brake with resilient torque connection. 3,739,883, 6-19-73, Cl. 188-71.100.

Marin, Glenn R., to Carborundum Company, The. Disc brake containing reinforced carbon bodies. 3,759,353, 9-18-73, Cl. 188-71.500.

Marin, Semen Panteleevich: *See—*
Brusakov, Jury Ivanovich; Livshits, Irma Solomonovna; Kiselev, Vasily Pavlovich; Cheltsov, Vasily Mikhailovich; Avdeev, Mikhail Pavlovich; Marin, Semen Panteleevich; Alivoivodich, Miro Khristoforovich; Kulikov, Alexei Kuzmich; Berezhnoi, Ivan Arkhipovich; olpin, Pavel Ilich; Chernyakhovsky, Leonid Vladimirovich; Eltsova, Zoya Vasilievna; Medvedeva, Lidia Nikolaevna; and Kolomitsky, Fedor Mifodievich, 3,775,092.

Marinaccio, Lawrence Francisco, to Maine Safety Appliances Company. Temperature compensated liquid metal level indicator. 3,777,566, 12-11-73, Cl. 73-290.00r.

Marinaccio, Richard E., to Westinghouse Electric Corporation. Electronically variable beamwidth antenna. 3,771,163, 11-6-73, Cl. 343-854.000.

Marinace, John C., to International Business Machines Corporation. Method of forming ohmic contacts to semiconductors. 3,768,151, 10-30-73, Cl. 29-590.000.

Marincic, Nikola: *See—*
Curelop, Edward J.; and Marincic, Nikola, 3,713,891.

Marincic, Nikola, to Mallory, P. R., & Co., Inc. Chloride free amalgamation of zinc powder using acetic, oxalic and boric acids. 3,764,388, 10-9-73, Cl. 136-31.000.

Marine and Industrial Developments Limited: *See—*
Papanicolaou, John Paul; and Galati, Telemachus Nicolas, 3,709,181.

Marine Colloids Inc.: *See—*
Guiseley, Kenneth B.; and Whitehouse, Philip A., 3,720,659.
Habersberger, Francis, 3,764,707.
Saravis, Calvin A., 3,764,513.

Marine Construction & Design Co.: *See—*
Bartl, Ronald W.; and Fulton, George G., 3,765,614.
Grimes, Eldon L., 3,754,301.
Tremoulet, Olivier L., Jr., 3,750,970.

Marine, Jean: *See—*
Bujorklund, Gunnar; Borel, Joseph; and Marine, Jean, 3,739,353.

Marine Moisture Control Company, Inc.: *See—*
Gravert, William H., 3,756,281.

Marine Protein Corporation: *See—*
Buss, Keen W.; and Speece, Richard E., 3,756,197.

Marine Protein Corporation, mesne: *See—*
Doherty, William A., 3,771,492.
Fremont, Howard J., 3,726,251.

Marine Science Industries, Inc.: *See—*
Potter, Edwin C., 3,722,678.

Marine Swimming Pool Equipment Co.: *See—*
Blum, Paul R., 3,716,873.

Marinelli, Donald Paul: *See—*
Lockwood, Harry Francis; and Marinelli, Donald Paul, 3,753,801.

Mariner, William H. Ratchet wrench. 3,754,486, 8-28-73, Cl. 81-63.000.

Maring, Blayne E.; Nicholson, James G.; and Rust, Lynn M., to International Business Machines Corporation. Dynamic time slicing control for microprogrammed controller. 3,766,524, 10-16-73, Cl. 340-172.500.

Maring, Donald G., Sr.: *See—*
Allen, Richard W.; Maring, Donald G., Sr.; and Andrews, Henry J., Jr., 3,725,613.

Maringer, Robert; and Cordelle, Claude, to Villeroy & Boch S.A. Installation for manufacturing ceramic bathroom pieces. 3,724,979, 4-3-73, Cl. 425-88.000.

Maringer, Robert; and Cordelle, Claude, to Villeroy & Boch S.A. Mold mounting for making ceramic bathroom pieces. 3,781,157, 12-25-73, Cl. 425-435.000.

Maringer, Robert E.: *See—*
Mobley, Carroll E.; and Maringer, Robert E., 3,710,842.

Maringulov, Konstantin Avraamovich. Device for electrical connection of electric and electronic components and method of its manufacture. 3,711,627, 1-16-73, Cl. 174-68.500.

Marini, Richard: *See—*
Baues, Dietrich; Marini, Richard; and McCauley, Donald, 3,729,824.

Marini, Roberto, to Societa Italiana Telecomunicazioni Siemens S.p.A. Stabilized direct-current converter responsive to off-period current. 3,781,653, 12-25-73, Cl. 323-17.000.

Marinkovic, Zoran, to Honeywell Information Systems Inc. Solid state relay using photo-coupled isolators. 3,708,672, 1-2-73, Cl. 250-209.000.

Marino, Albert J. Dice tumbler. 3,724,857, 4-3-73, Cl. 273-145.00b.

Marino, Amadee D.; and Ask, Clifford W., Sr., to American Optical Corporation. Method for cladding polygonal cross-section laser. 3,721,537, 3-20-73, Cl. 65-4.000.

Marino, Amadee D.; and Ask, Clifford W., Sr., to American Optical Corporation. Apparatus for cladding polygonal cross-section laser. 3,759,685, 9-18-73, Cl. 65-156.000.

Marino, Francis C., to Digitronics Corporation. Circuit for switching currents through inductive loads. 3,746,927, 7-17-73, Cl. 317-11.00b.

Marino, Joseph J.; and Demaison, Raymond J., to Pfizer Inc. Pneumatic conveying apparatus for light material. 3,712,681, 1-23-73, Cl. 302-20.000.

Marino, Louis L.: *See—*
Litvin, Robert L.; and Spadaro, Giorgio I., 3,745,733.
Litvin, Robert L.; and Spadaro, Giorgio I., 3,765,139.

Marino, Patrick John: *See—*
Gordon, Travis Hill; Marino, Patrick John; and Pilc, Randolph John, 3,715,505.
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Marino, Salvatore J.: *See—*
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Marion, Charles P.; Schlinger, Warren G.; and Slater, William L., to Texaco Inc. Methane production. 3,709,669, 1-9-73, Cl. 48-215.000.

Marion, Charles P.; and Reynolds, Blake, to Texaco Development Corporation. Synthesis gas generation. 3,743,606, 7-3-73, Cl. 252-373.000.

Marion, Charles P.; and Reynolds, Blake, to Texaco Development Corporation. Fuel burner and process for gas manufacture. 3,758,037, 9-11-73, Cl. 239-132.300.

Marion, Charles P., to Texaco Development Corporation. Ore reduction process using recirculated coolant gas. 3,767,379, 10-23-73, Cl. 75-42.000.

Marion, Donald L.: *See—*
Strand, Robert C.; Marion, Donald L.; and Anderson, Dennis G., 3,766,113.

Marion, Frank A.; and Mc Spadden, Hugh J., to Universal Propulsion Co. Insulating material. 3,714,047, 1-30-73, Cl. 252-62.000.

Marion, Jacques: *See—*
Borrel, Marcel; Marion, Jacques; and Metzger, Jean, 3,725,457.

Marion, James E.; and Scanland, Joseph E., to Roper Corporation. Missile deflector system for rotary mower. 3,760,572, 9-25-73, Cl. 56-320.200.

Marion Power Shovel Company, Inc.: *See—*

Thompson, George J.; and Dutton, Vance D., 3,757,959.
Marion, Thomas E.; and Collins, Richard D., to Maryland Cup Corporation. Method and apparatus for securing a closure member within a container. 3,779,191, 12-18-73, Cl. 113-120.00k.
Marioneaux, Harry. Fluid injection lance and nozzle means therefor. 3,752,402, 8-14-73, Cl. 239-132.300.
Marita, Yoshiharu: *See—*
Katsumata, Takuma; Uchiyama, Hideo; and Marita, Yoshiharu, 3,739,184.
Maritsas, Dimitris. Generating pseudo-random sequences. 3,746,847, 7-17-73, Cl. 235-152.000.
Marjuschenko, Vilen Fedorovich: *See—*
Medovar, Boris Izrailevich; Alferov, Jury Fedorovich; Schupak, Grigory Bentsionovich; Lanevsky, Valery Evgenievich; Dykan, Vitaly Grigorievich; Berezovsky, Mikhail Elevich; Baglai, Vitaly Mikhailovich; Shuruev, Lev Andreevich; Emelyanenko, July Georgievich Khasin, Kim Moiseevich; Lugovsky, Vladimir Ivanovich; Salmin, Valery Vasilievich; Marjuschenko, Vilen Fedorovich; Shaburov, Fedor Fedorovich; Tamozhnikov, Georgy Vasilievich; Popov, Viktor Andreevich; and Semin-Vadov, Gennady Mikhailovich, 3,766,304.
Mark, Andre. Pneumatic driers. 3,713,225, 1-30-73, Cl. 34-10.000.
Mark, Andre. Pneumatic drier support structure. 3,755,914, 9-4-73, Cl. 34-57.00a.
Mark, Charles Edward: *See—*
Donovan, George Edward; and Mark, Charles Edward, 3,773,032.
Mark, Douglas E., to General Motors Corporation. Automatic vehicle door lock circuit. 3,765,502, 10-16-73, Cl. 180-112.000.
Mark, John Thomas, to RCA Corporation. Single bore tube gas laser. 3,739,297, 6-12-73, Cl. 331-94.500.
Mark, Morris. Exercising cot. 3,716,230, 2-13-73, Cl. 272-58.000.
Mark, Morris. Folding game board hinge assembly. 3,760,456, 9-25-73, Cl. 16-137.000.
Mark Products, Inc.: *See—*
Evans, John S., Jr.; and Paulsen, John D., 3,756,431.
Fussell, Donald L., 3,745,511.
Hazelhurst, Gerald D.; Fussell, Don L.; and Guyton, Hayward T., 3,739,330.
Hazelhurst, Gerald D., 3,757,274.
Holmes, Robert C., Jr., 3,718,900.
Riley, Travis E., 3,742,441.
Mark Systems, Inc.: *See—*
Gross, Richard A., 3,781,121.
Mark, Victor; and Zengierski, Leon, to Hooker Chemical Corporation. Biocidal methods employing perhalocoumalin derivatives. 3,755,591, 8-28-73, Cl. 424-279.000.
Mark 50 Machinery Sales, Inc.: *See—*
Lawrence, Mark F.; and Beecroft, William C., 3,720,244.
Mark 7 Seafood and Industries, Inc., mesne: *See—*
Krakowski, John F., 3,715,976.
Markakis, Michael J., to SCM Corporation. Cyclic drum printer. 3,741,086, 6-26-73, Cl. 95-4.500.
Markakis, Michael J., to SCM Corporation. Magnetic recording and editing typewriter. 3,756,365, 9-4-73, Cl. 197-1.00r.
Markant, Henry P.: *See—*
McIlroy, Robert A.; Sage, Warnie L.; and Markant, Henry P., 3,723,068.
Strom, Steven S.; and Markant, Henry P., 3,749,380.
Marke, Douglas John Burrows; and Thompson, Peter George, to Imperial Chemical Industries Limited. Explosive charge assembly and its use in seismic prospecting. 3,712,220, 1-23-73, Cl. 102-23.000.
Markel, Arthur L.; and Wirsching, Robin F., to Reynolds Submarine Services Corporation. Apparatus for extracting oil or the like from the surface of the sea. 3,722,689, 3-27-73, Cl. 210-242.000.
Markel, Arthur L.; and Harter, Robert R., to Reynolds Submarine Services Corporation. Oil containment boom. 3,731,491, 5-8-73, Cl. 61-1.00f.
Markelova, Nina Ivanovna: *See—*
Lishevskaya, Marina Osipovna; Virnik, Alexandr Davidovich; Gabrielian, Genrikh Aramaisovich; Rogovin, Zakhar Alexandrovich; Borbat, Vladimir Fedorovich; Orlov, Alexandr Mikhailovich; Ferberg, Mirriam Borisovna; and Markelova, Nina Ivanovna, 3,728,103.
Marker, Delbert E.: *See—*
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Leyde, Warren L.; and Marker, Delbert E., 3,742,442.
Marker, Edwin M., Jr., to Garcy Corporation. Foldable garment rack. 3,722,702, 3-27-73, Cl. 211-178.00r.
Marker, Hannes: *See—*
Berchtold, Ludwig, 3,733,083.
Biermann, Peter, 3,719,368.
Fend, Fritz M., 3,752,491.
Frisch, Hans-Otto, 3,778,076.
Jungkind, Roland, 3,744,810.
Jungkind, Roland, 3,774,925.
Payrhammer, Bernd, 3,734,521.
Marker, Hannes. Device for adjusting the retaining force which is to be overcome for a safety release of a toe or heel holder of a safety ski binding. 3,709,511, 1-9-73, Cl. 280-11.35t.
Marker, Hannes. Lockable ski carrier for motor vehicles. 3,710,998, 1-16-73, Cl. 214-42.10f.
Marker, Hannes. Toe iron for safety ski bindings. 3,722,902, 3-27-73, Cl. 280-11.35t.
Marker, Hannes. Skiing boot. 3,732,635, 5-15-73, Cl. 36-2.5al.
Marker, Hannes. Stabilizer for boots for crosscountry skiing. 3,775,866, 12-4-73, Cl. 36-2.5al.
Marker, Hannes. Toe iron for safety ski bindings. 3,776,568, 12-4-73, Cl. 280-11.35t.
Marketing and Research Services, Inc.: *See—*
Grybek, Roland S.; and Johnston, Frederick B., 3,712,802.
Grybek, Roland S.; and Johnston, Frederick B., 3,712,803.
Markey, Allen H.: *See—*
Fick, Robert L.; and Markey, Allen H., 3,751,967.
Markiel, Henry. Combination wheel chair and walker. 3,708,182, 1-2-73, Cl. 280-289.000.
Markiewicz, Bernard Frank: *See—*
Ellis, Donovan Russell, Jr.; and Markiewicz, Bernard Frank, 3,749,271.
Markiewitz, Kenneth H., to ICI America Inc. Trimerization of isocyanates. 3,716,535, 2-13-73, Cl. 260-248.0ns.
Markiewitz, Kenneth H., to Atlas Chemical Industries, Inc. Polymers prepared by reacting urea with an amino alcohol or diamine followed by methylolation with formaldehyde. 3,763,106, 10-2-73, Cl. 260-69.00r.
Markin, Jury Nikandrovich: *See—*
Bondarenko, Vitaly Tikhonovich; Markin, Jury Nikandrovich; Voronov, Nikolai Stefanovich; Sagiryants, Nikolai Magdygovich; Salnikov, Ivan Ivanovich; and Petrenko, Konstantin Pavlovich, 3,742,749.
Marking Systems, Inc., mesne: *See—*
De Hart, Guy K.; De Hart, Louis K.; and Clark, Ruel R., 3,770,093.
Markison, William C.: *See—*
Lewandowski, Raymond F.; and Markison, William C., 3,778,565.
Markland, Richard D., to Consolidated Metco, Inc. Fuel heater. 3,768,454, 10-30-73, Cl. 123-122.00e.
Markle, David A.; and Schlesinger, Eugene R., to Perkin-Elmer Corporation, The. Method and apparatus for sensing fluorescence radiation. 3,769,516, 10-30-73, Cl. 250-363.000.
Markley, Finley W., to United States of America, Atomic Energy Commission. Compact dialyzer. 3,746,175, 7-17-73, Cl. 210-321.000.
Markley, Finley W., to United States of America, Atomic Energy Commission. Hemodialyzer with tapered slit blood ports and baffles. 3,778,369, 12-11-73, Cl. 210-321.000.
Markley, Robert F.: *See—*
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Markley, Theodore J.: *See—*
Walters, Ronnie G.; Markley, Theodore J.; and Jennings, Richard E., 3,778,696.
Marklin, Norbert G. Clock with spaced-apart free-form time-indicating elements. 3,757,508, 9-11-73, Cl. 58-2.000.
Marklund, Karl Georg Erland, to Hiab-Foco Aktiebolag. Carriage with vertically and horizontally shiftable mast and carrier. 3,715,046, 2-6-73, Cl. 214-674.000.
Marko, Albert J.: *See—*
Nocek, Stanley J.; Marko, Albert J.; and Zenack, Leslie D., 3,737,644.
Markolf, Keith L.; and Harris, Norman M. Bone fixation plate. 3,741,205, 6-26-73, Cl. 128-92.00b.
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Markos, Charles S., to Searle, G. D., & Co. 6-Alkyl-3-hydrocarbonaceous-16 alpha, 17 alpha-dihydroxypregna-3,5-dien-20-one cyclic 16,17-acetals and congeners. 3,728,338, 4-17-73, Cl. 260-239.55d.
Markosian, Marlen Mamukovich; Shermazanian, Yakov Tigranovich; Kazanxhian, Grigory Paravonovich; Avakian, Jury Vardkesovich; and Vartanian, Albert Vartanovich, to Erevanskoe otdelenie vsesojuz-nogo proektnoissledovatelsko-go proekton-konstruktorskogo i-teknologicheskogo institutakabelnoi promyshlennosti. Solar unit. 3,713,727, 1-30-73, Cl. 350-292.000.
Markov, James D.: *See—*
Dixon, Roy C.; Hash, Larry J.; Markov, James D.; and West, Lynn P., 3,755,786.
Markova, Viktoria Vladimirovna: *See—*
Anikeev, Konstantin M.; Babitsky, Boris Davidovich; Verblovsky, Alexei Matveevich; Kozhenets, Tamara Nikolaevna; Kormer, Vitaly Abramovich; Lobach, Mark Iosifovich; Markova, Viktoria Vladimirovna; and Rivin, Ervin Mikhailovich, 3,780,078.
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Ash, Arthur B.; Stevens, Calvin E.; and Markovac, Anica, 3,764,604.
Markovits, Arthur L.; and Wolfson, Stanley W., to Clinical Sciences, Inc. Microscope slide assembly. 3,736,042, 5-29-73, Cl. 350-95.000.
Markovitz, Mark, to General Electric Company. Hardenable epoxy resin compositions. 3,716,598, 2-13-73, Cl. 260-831.000.
Markovitz, Mark; and Kohn, Leo S., to General Electric Company. Composition comprising an epoxy resin with an organostannois and carboxylic acid anhydride reaction product. 3,728,306, 4-17-73, Cl. 260-47.0ec.
Markovitz, Mark; and Kohn, Leo S., to General Electric Company. Organostannoic acid and carboxylic acid anhydride reaction product epoxy curing agent. 3,769,226, 10-30-73, Cl. 252-182.000.
Markovitz, Mark. Epoxy resins containing phenolic accelerators and organic titanates. 3,776,978, 12-4-73, Cl. 260-831.000.
Markovsky, Grigory Fedorovich: *See—*
Kaminsky, Igor Vasilievich; Romanenko, Anatoly Mikhailovich; Pimenov, Alexeevich; Markovsky, Grigory Fedorovich; Sinichenko, Anatoly Afanasievich; and Levchenko, Nikolai Ivanovich, 3,760,558.
Markowitz, Isral J., to Stem Development Corporation, mesne. Safety cover cap for an aerosol container or the like. 3,768,703, 10-30-73, Cl. 222-182.000.
Markowitz, Ivan N.; and Lee, Ernest Paul, to Honeywell Information Systems, Inc. Actuator drive circuitry for producing dual level drive current. 3,766,432, 10-16-73, Cl. 317-dig.600.
Markowitz, Jerome, to Allen Organ Company. Pitch articulation system for an electronic organ. 3,757,022, 9-4-73, Cl. 84-1.250.
Markowitz, Marvin R. Brassiere construction. 3,769,987, 11-6-73, Cl. 128-484.000.
Markowitz, Raymond S., to American Electronic Laboratories, Inc. Signal processing means and method. 3,754,265, 8-21-73, Cl. 343-119.000.
Markowski, Stanley J., to United Aircraft Corporation. Shortened afterburner construction for turbine engine. 3,747,345, 7-24-73, Cl. 60-261.000.
Marks, Alfred F., to Esso Research and Engineering Company. Thiocarbamylated guanidines-growth regulant. 3,759,991, 9-18-73, Cl. 260-552.00r.
Marks, Alvin M. Method for forming submicron dipole particles. 3,709,828, 1-9-73, Cl. 252-300.000.
Marks, Alvin M. Hard transparent sheet-like material or coating. 3,751,326, 8-7-73, Cl. 161-5.000.
Marks, Alvin M. Disolar electro-optic compositions and method of preparation. 3,773,684, 11-20-73, Cl. 252-309.000.
Marks, Austin Cedric; and Cirson, Harold Vivian, to Lysaght, John, (Australia) Limited. Stripping excess coating liquid from moving strip material. 3,742,905, 7-3-73, Cl. 118-63.000.
Marks, Burton S.; and Chiesa, Peter J., Jr., to Lockheed Aircraft Corporation. Zinc-siloxane polymer and coating and method for making the same. 3,714,119, 1-30-73, Cl. 260-46.50e.
Marks, Burton S.; and Chiesa, Peter J., Jr., to Lockheed Aircraft Corporation. Zinc-siloxane polymer and coating and method for making the same. 3,764,574, 10-9-73, Cl. 260-30.6sb.
Marks, Colin Elliott: *See—*
Jeffreys, Godfrey Vaughan; and Marks, Colin Elliott, 3,773,831.
Marks, Colin Elliott; and Miller, John, to Fisons Limited. Corrosion inhibiting composition containing hydrazine and a pyrazolidone or an aminophenol. 3,728,281, 4-17-73, Cl. 252-392.000.
Marks, Colin Elliott; and Smith, Michael Arthur, to Fisons Limited. Hydrazides. 3,770,738, 11-6-73, Cl. 260-250.00a.
Marks, Gerard J.: *See—*
Stewart, Merrick W.; and Marks, Gerard J., 3,721,021.
Marks, John L., to International Telephone and Telegraph Corporation. Apparatus for cutting a wire and crimping a winding to the wire. 3,717,917, 2-27-73, Cl. 29-203.00d.
Marks, Larry D.: *See—*
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Marks, Mortimer. Pliable mounting assembly for spectacles. 3,756,704, 9-4-73, Cl. 351-60.000.
Marks, Richard L., to Berg Electronics, Inc. Self-staking wire grip terminal. 3,778,755, 12-11-73, Cl. 339-220.00r.
Marks, Robert Elliott: *See—*
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Drew, John; and Marks, Robert Elliott, 3,763,020.
Marks, Robert G. Containers for small articles such as pills. 3,759,371, 9-18-73, Cl. 206-42.000.
Marks, Robert T.: *See—*
Brooks, Robert E.; and Marks, Robert T., 3,707,844.
Marks, Ronald A., to Consulting Specialists, Inc. Fluid-powered alarm system. 3,725,886, 4-3-73, Cl. 340-224.000.
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Jung, Richard; and Markus, Eugen, 3,753,548.
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Markwitz, Bernhard. Inflatable swimming supports. 3,775,788, 12-4-73, Cl. 9-344.000.
Marlan Company: *See—*
Shields, John; and Dunn, Lyman D., 3,756,897.
Marlen Research Corporation: *See—*
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Marlett, Everett M.; and Sanders, Robert N., to Ethyl Corporation. Beryllium hydride composition and their use in making cyclopentadienyl beryllium hydride compounds. 3,755,479, 8-28-73, Cl. 260-665.00r.
Marley Company, The: *See—*
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Marley, Michael A., to Marley Mend-More, Inc. Apparatus for mending knitted fabrics. 3,710,593, 1-16-73, Cl. 66-1.00r.
Marley, Thomas C., to Cincinnati Milacron Inc. Analog to digital conversion apparatus for use with tracing system to produce a stored program therefrom. 3,742,200, 6-26-73, Cl. 235-154.000.
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Osborne, William L., 3,755,910.
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Snyder, George R., 3,727,319.
Marlin, Lawrence; and Schwarz, Eric George, to Union Carbide Corporation. Process for production of a polyurethane foam from a heat curable froth. 3,772,224, 11-13-73, Cl. 260-2.5bd.
Marlin, Louis A.: *See—*
Patton, Richard S.; Keyser, Naaman H.; Langdon, Vernon L.; Beaucaire, Victor D.; and Marlin, Louis A., 3,740,859.
Marlin Toy Products, Inc.: *See—*
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Marlor, Guy A.; and Mooney, John E., to Photophysics, Inc. Process for making a sintered photoconductive body. 3,754,985. 8-28-73, Cl. 117-201.000.
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Sanders, Robert K.; Marlow, Jerry R.; Dornfeld, Kenneth A.; and Nelson, Robert E., 3,754,482.
Schaefer, Robert H.; and Marlow, Jerry R., 3,748,931.
Marlowe, Frank Jerome; and Wine, Charles Martin, to RCA Corporation. Electron beam addressable memory system. 3,774,116. 11-20-73, Cl. 328-124.000.
Marlowe, Mickey O.: *See—*
Hill, Howard W.; Marlowe, Mickey O.; and Kaznoff, Alexis I., 3,752,872.
Marmel, Noah S. Method and tumbler gage for measuring key cuts. 3,775,855, 12-4-73, Cl. 33-174.00f.
Marmer, Burton R.; and Stucchi, Richard F., to Dennison Manufacturing Company. Control ticket. 3,727,031, 4-10-73, Cl. 235-61.12m.
Marmo, Don: *See—*
Donnarumma, Carmine; Farber, Harvey; Grimm, Charles H.; Kuramoto, Simpey; Marmo, Don; and Stein, Herbert S., 3,753,730.
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Long, John B., 3,768,574.
Marmonier, Pierre; and Plufgrad, Kurt, to Commissariat a l'Energie Atomique. Control-rod assembly for nuclear reactors. 3,773,617, 11-20-73, Cl. 176-36.00r.
Marmor, Ralph A., to Pillsbury Company, The. Deep fat frying process. 3,733,202, 5-15-73, Cl. 99-1.000.
Marmoud, Edmond: *See—*
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Marn, Louis, & Co., Inc., mesne: *See—*
Kienholz, Charles M.; and Lohr, Raymond J., 3,765,396.
Marois, Jules. Fire-insulated partition and fireproof container made therewith. 3,779,179, 12-18-73, Cl. 109-33.000.
Marom, Emanuel: *See—*
Farrah, Harry Robert; Marom, Emanuel; and Mueller, Rolf K., 3,717,843.
Marom, Emanuel, to Bendix Corporation, The. Increased field of view detector array. 3,740,749, 6-19-73, Cl. 343-100.0le.
Maron, Eugene A. Can crusher. 3,766,849, 10-23-73, Cl. 100-232.000.
Maron, William. Music training device. 3,728,930, 4-24-73, Cl. 84-471.000.



Marotta, Joseph A.; and Rosenberg, Jerome, to Marotta Scientific Controls, Inc. Fluid flow control valve. 3,722,541, 3-27-73, Cl. 137-487.500.
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Ratz, Heinz; Gawlick, Heinz; Marondel, Gunther; and Bendler, Hellmut, 3,756,118.
Marondel, Gunther; Gawlick, Heinz; and Siegelin, Werner, to Dynamit Nobel Aktiengesellschaft. propellant charge for devices used industrially. 3,754,510, 8-28-73, Cl. 102-101.000.
Maroney, Harold W.; Hathcote, Lester R.; and Sparkman, Thomas W. Subsurface well control apparatus and method. 3,737,845, 6-5-73, Cl. 340-18.00p.
Maropis, Nicholas: *See—*
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Maroschak, Ernest J., to Plastic Tubing, Inc. Corrugated drainage pipe with plateaus defining recesses. 3,747,352, 7-24-73, Cl. 61-10.000.
Marosi, Istvan; and Volgyes, Frigyes, to Ipari Epulettervezo Vallalat. Large-size metal-framed tower. 3,761,067, 9-25-73, Cl. 261-111.000.
Marosi, Michael N.: *See—*
Venkata, Reddi, 3,776,783.
Marot, Maurice R., to Electrical Protection Co. (Pty) Ltd. Core-balance earth leakage protection. 3,728,580, 4-17-73, Cl. 317-18.00d.
Marot, Maurice Rene; and Povey, Norman William, to Electrical Protection Co. (Pty) Ltd. Circuit breaker toggle mechanism with spring-biased latch plate. 3,754,108, 8-21-73, Cl. 200-153.00g.
Marotha Scientific Controls, Inc.: *See—*
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Marotta, Ralph, to Monsanto Company. Process for preparing silica aquasols. 3,711,419, 1-16-73, Cl. 252-313.000.
Marotta Scientific Controls, Inc.: *See—*
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Marouka, Hiroyuki, to Nissan Motor Company, Limited. Ignition timing control system. 3,776,205, 12-4-73, Cl. 123-117.00r.
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Marquardt, Ewald, to Marquardt, J. & J., Firma. Multiple circuit control switch with spring biased slide operating means engaging pivoted contact assembly. 3,767,870, 10-23-73, Cl. 200-6.00r.
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Marquette, John Lester. Plug-in equipment storage unit. 3,772,572, 11-13-73, Cl. 317-101.0dh.
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Marquis, Edgar E.; and Niemand, Emil, to Robertshaw Controls Company. Control device and parts therefor or the like. 3,738,178, 6-12-73, Cl. 74-3.500.
Marquis, Edgar E., to Robertshaw Controls Company. Electric pendulum clock and parts therefor or the like. 3,747,332, 7-24-73, Cl. 58-29.000.
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Marquis, Edward Thomas; and Brader, Walter Howe, Jr., to Jefferson Chemical Company, Inc. Alkyloxy acetic acid esters. 3,770,808, 11-6-73, Cl. 260-484.00r.
Marquis, Olan E. Safety wheel. 3,777,798, 12-11-73, Cl. 152-158.000.
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Marr, John A.; and Maskrey, Robert H., to Moog Inc. Electrical feedback servovalve. 3,752,189, 8-14-73, Cl. 137-625.650.
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Marranci, Giulio; Bianchi, Gerardo; and Barbon, Alessandro, to Societa Italiana Resine S.p.A. Composition and method for dispersing oily and tarry residues on surfaces. 3,745,125, 7-10-73, Cl. 252-312.000.
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Marrese, Richard J.; Edwards, Gordon C.; and Zielinski, James, to Esso Research and Engineering Company. Method of regulating plant growth. 3,741,746, 6-26-73, Cl. 71-72.000.
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Marroni, Michael A., Jr.; and Peck, Daniel A., to Combustion Engineering, Inc. Steam generator cradle support. 3,771,499, 11-13-73, Cl. 122-510.000.
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Marrs, Oren L., to Phillips Petroleum Company. Branched rubbery block copolymer adhesive. 3,753,936, 8-21-73, Cl. 260-27.00r.
Mars, Pieter; Duyverman, Coenraad J.; and Gorgels, Martin J., to Stamicarbon N.V. Process for the preparation of salts of hydroxylamine. 3,767,758, 10-23-73, Cl. 423-302.000.
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Marsalka, Joseph P.; and Spademan, Charles F., to MI2 Inc., mesne. Magnetic tape data system. 3,774,156, 11-20-73, Cl. 340-172.500.
Marsan, Arthur E. Starch seal and appliance for ostomy. 3,712,304, 1-23-73, Cl. 128-283.000.
Marsan, Arthur E. Sealing ring or pad for a post-surgical drainage pouch. 3,713,445, 1-30-73, Cl. 128-283.000.
Marsan, Mario S., to Procter & Gamble Company, The. Disposable diaper. 3,710,797, 1-16-73, Cl. 128-284.000.
Marsan, Mario S., to Procter & Gamble Company, The. Disposable diaper with improved containment characteristics. 3,744,494, 7-10-73, Cl. 128-287.000.



Marschak, Howard J. Means for connecting adjacent railings to a post to form a support for forming a bookcase, shelving, or the like. 3,749,343, 7-31-73, Cl. 248-188.000.
Marschall, Helmut; Kammermayer, Wolfgang; Beller, Hans Albert; Hahm, Heinz; and Belart, Juan, to Teves, Alfred, G.m.b.H. Piston assembly for dual-network disk-brake system. 3,750,857, 8-7-73, Cl. 188-345.000.
Marschall, Karl. Process of treating and purifying sewage, particularly of sewage contaminated with detergents. 3,733,268, 5-15-73, Cl. 210-27.000.
Marscher, William D.; and Wertheimer, Harry P. Pressure-to-electric, long life transducer. 3,735,323, 5-22-73, Cl. 338-41.000.
Marschke, Carl R.; and Thomas, Richard H., to Marquip, Inc. Panel board feeding apparatus. 3,724,687, 4-3-73, Cl. 214-8.50d.
Marsden, Geoffrey, to Barker, R. E., & Co., Limited. Material handling equipment. 3,738,512, 6-12-73, Cl. 214-730.000.
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Marsh, Anthony, to Plessey Handel und Investments AG. Circular magnetic domain devices. 3,731,288, 5-1-73, Cl. 340-174.0tf.
Marsh, Anthony, to Plessey Handel und Investments A.G. Circular magnetic domain devices. 3,736,579, 5-29-73, Cl. 340-174.0tf.
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Marsh, Frank Hubert; and Hegarty, James Kevin, to Platt International Limited. Apparatus for wet processing of textile fabrics. 3,762,189, 10-2-73, Cl. 68-177.000.
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Marsh, Lawrence B., to Engineering Physics Company. Liquid height gauge. 3,722,281, 3-27-73, Cl. 73-304.00r.
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Marsh, Michael Martin; Thompson, Geoffrey; and Trayner, Brian Thomas, to British Aircraft Corporation Limited. Vehicle command systems. 3,753,538, 8-21-73, Cl. 244-3.120.
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Marsh, Preston L. Crop windrowing apparatus. 3,721,080, 3-20-73, Cl. 56-364.000.
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Marsh, Richard P.; and Basso, Julius C. Device for forming and handling concrete pipe. 3,768,954, 10-30-73, Cl. 425-451.000.
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Marsh, Walter H. W.; and Coulombe, Lionel J., to Singer Company, The. Fancy stitch zigzag sewing machines. 3,724,404, 4-3-73, Cl. 112-158.00b.
Marsh, William Cornelius, to Societe d'Assistance Technique pour Produits Nestle S.A. Agglomerating powdered products. 3,727,839, 4-17-73, Cl. 239-8.000.
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Marshall, Albert H., to United States of America, Navy. Fire control apparatus for automatic air pollution product abatement. 3,731,743, 5-8-73, Cl. 169-2.00r.
Marshall, Alfred G. Vacuum cleaner and rake. 3,744,082, 7-10-73, Cl. 15-402.000.
Marshall, Arthur N.; Rinehart, James W.; and Gregory, Charles A., Jr., to Traffic Safety Systems, Inc., mesne. Precision vehicle interval detection and signaling system. 3,737,851, 6-5-73, Cl. 340-104.00r.
Marshall, Calvert D. Stud extractor. 3,740,814, 6-26-73, Cl. 29-200.00d.
Marshall, Charles J., to American Motors Corporation. Vent controlling gas cap with shut-off valve. 3,757,987, 9-11-73, Cl. 220-44.00r.
Marshall, Charles J., to American Motors Corporation. Fuel evaporative control system. 3,776,256, 12-4-73, Cl. 137-202.000.
Marshall, Clifford; and Kalinowski, Stanislaw, to Imperial Chemical Industries, Limited. Textile treatment process. 3,708,260, 1-2-73, Cl. 8-111.000.
Marshall, Clifford D., to Shell Oil Company. Stabilization of unsaturated polyesters and resulting products. 3,736,289, 5-29-73, Cl. 260-837.00r.
Marshall, Clifford D.; Byrd, Paul S.; and Dante, Mark F., to Shell Oil Company. Process for curing polyepoxides with polycarboxylic acid salts of an imidazole compound and compositions thereof. 3,746,686, 7-17-73, Cl. 260-47.0en.
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Marshall, Frank Graham; and Paige, Edward George Sydney, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Acoustic surface wave devices. 3,739,290, 6-12-73, Cl. 330-5.500.
Marshall, Frank J. Wire splicing device. 3,716,079, 2-13-73, Cl. 140-120.000.
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Marshall, Hamilton W., Jr.; and Smeaton, John R., to Perkin-Elmer Corporation, The. Reaction detector. 3,725,204, 4-3-73, Cl. 195-127.000.
Marshall, Howard D.; Gordon, Gary B.; Pipkin, Jesse E.; and Adler, Robin, to Hewlett-Packard Company. Tristate pulse generator for producing consecutive pair of pulses. 3,781,689, 12-25-73, Cl. 328-61.000.
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Marshall, John J., to Aicheles Associates, Inc. Trailer brake control system. 3,780,832, 12-25-73, Cl. 188-3.00r.

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Marshall, Mervin D., to Mine Safety Appliances Company. Nitrogen generating compositions. 3,755,182, 8-28-73, Cl. 252-188.300.

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Marshall, Preston F., to Kendall Company, The. Vacuum drafting of fibrous strands. 3,727,270, 4-17-73, Cl. 19-156.300.

Marshall, Preston F., to Kendall Company, The. Fiber shattering process. 3,732,595, 5-15-73, Cl. 19-.300.

Marshall, Preston F., to Kendall Company, The. Process for the formation of fibrous webs of staple fiber from continuous textile filaments. 3,751,767, 8-14-73, Cl. 19-.580.

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Marshall, William H. Rotative wheel covers, and the like. 3,722,958, 3-27-73, Cl. 301-37.00n.

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Marsico, Joseph William, Jr.; and Goldman, Leon, to American Cyanamid Company. Method for the use of 5-amino-3-ethyl-1-(m-fluorophenyl)-4-pyrazolecarboxamide. 3,760,083, 9-18-73, Cl. 424-273.000.

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Marsland, William P.; and Sharp, Marvin L., to Shell Oil Company. Paste compositions for controlling first instar bot larvae and endoparasites in horses. 3,746,490, 7-17-73, Cl. 424-219.000.

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Martell, Arthur E. Ferric chelates of N-(2-hydroxybenzyl) substituted aminopoly carboxylic acids. 3,758,540, 9-11-73, Cl. 260-439.00r.

Martell, Dennis J., to Northern Illinois Gas Company. Docoder circuits for shaft encoder apparatus. 3,750,156, 7-31-73, Cl. 340-203.000.

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Martelli, Francesco: *See—*
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Martelli, Mario. Reed switch. 3,708,770, 1-2-73, Cl. 335-154.000.

Martelli, Mario. Reed switches. 3,711,795, 1-16-73, Cl. 335-151.000.

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Marten, Hans Friedrich, to Siemag Siegener Maschinenbau G.m.b.H. Rolling mill. 3,736,785, 6-5-73, Cl. 72-238.000.

Marten, Henry Richard: *See—*
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Marten, John Anthony; and Gee, Bernard Arthur, to Suntester Limited. Vehicle testing apparatus. 3,718,036, 2-27-73, Cl. 73-117.000.





Martens, Charles H., to United States of America, Army. Apparatus for welding by translational friction. 3,771,706, 11-13-73, Cl. 228-2.000.

Martens, Douglas A.: *See—*
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Martens, Guy: *See—*
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Martens, Henry J.; to I.D. Engineering, Inc. Method of and apparatus for the detection of stolen articles. 3,711,848, 1-16-73, Cl. 340-280.000.

Martens, Richard H.; and Zaffrann, Ralph D., to Eastman Kodak Company. Lithographic printing plate and process. 3,736,872, 6-5-73, Cl. 101-462.000.

Martens, Stanton C., to General Electric Company. Flame resistant polyolefin composition and article formed thereof. 3,738,866, 6-12-73, Cl. 117-232.000.

Marteny, William W., to Owens-Illinois, Inc. Apparatus and method for applying radio frequency energy to a moving web of material. 3,722,105, 3-27-73, Cl. 34-1.000.

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Marti, Willi Hermann, to Delmoran AG. Disk for single-disk magnetic clutches. 3,761,749, 9-25-73, Cl. 310-78.000.

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Martin, Afton V.; Moldovan, Michael T.; Jazbutis, Anatolijus; Fourgere, Guy L.; Rising, Donald B.; Koger, Gary C.; Arciprete, Genio R.; and Svendsen, Noel, to AVM Corporation, mesne. Voting machine. 3,744,713, 7-10-73, Cl. 235-54.00f.

Martin, Alan. Manually operated mandrel rivet setting tool with lever throw adjustment. 3,768,297, 10-30-73, Cl. 72-391.000.

Martin, Alfred Leonard. Novel gas bar structure. 3,777,774, 12-11-73, Cl. 137-234.600.

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Martin, Andrew R. Method of applying alternate layers of plastic foam and glass fibers to a metal tube. 3,728,187, 4-17-73, Cl. 156-162.000.

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Martin, Aubrey Wilfred, to Republic Rubber Industries (Proprietary) Limited. Retreading of tires. 3,769,121, 10-30-73, Cl. 156-96.000.

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Martin, Brice E.; and Mac Innis, Martin B., to GTE Sylvania Incorporated. Rhenium and molybdenum separation from sulfide ores. 3,725,524, 4-3-73, Cl. 423-49.000.

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Martin, Daniel W.; and Stein, John L., to Baldwin, D. H., Company. Electrocoustic pipes for electronic organs. 3,718,747, 2-27-73, Cl. 84-1.010.

Martin, Daryl T., to Hoerner-Waldorf Corporation. Book folder. 3,720,366, 3-13-73, Cl. 229-37.00e.

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Martin, David H., to International Business Machines Corporation. Functional memory cell. 3,725,879, 4-3-73, Cl. 340-173.0am.

Martin, David R.; and Sauter, Walter A. Servo motor driven RF attenuator. 3,740,627, 6-19-73, Cl. 318-16.000.

Martin, Don Leo; and Sarver, Jack Kenneth, to FMC Corporation. Ocean bottom well tubing valve installation. 3,770,053, 11-6-73, Cl. 166-.500.

Martin, Donald H.; Holmer, Donald A.; Durant, Dennis J.; Bryan, Roland J., Jr.; Saunders, James H.; and Black, William B., to Monsanto Company. Flame retardant pile fabric. 3,719,547, 3-6-73, Cl. 161-67.000.

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Martin, Edward Albert, to Solartron Electronic Group, Limited, The. A.C. to D.C. converter circuits. 3,772,582, 11-13-73, Cl. 321-47.000.

Martin, Elmore Louis, to Du Pont de Nemours, E. I., and Company. Fluoro- and cyano-substituted 1,4-phenylene-bis (hydrocarbylmalononitriles) and process of preparation. 3,739,008, 6-12-73, Cl. 260-465.00g.

Martin, Elwood Allen, to Gulf & Western Industrial Products Company. Rotatable press die. 3,722,255, 3-27-73, Cl. 72-447.000.

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Martin, Georges Lucien Henri, to Societe de Precision General (Societe Anonyme). Deformable sealing ring. 3,767,216, 10-23-73, Cl. 277-213.000.

Martin, Gerald; Baccus, James A.; and Gurman, Marvin, to Holiday Recreation Products, Inc. Modular roof construction. 3,760,546, 9-25-73, Cl. 52-555.000.

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Martin, Gregory L., to Goodyear Aerospace Corporation. Automatic focusing of optical systems. 3,708,619, 1-2-73, Cl. 178-7.920.

Martin, Guy E., to Aluminum Company of America. Tube drawing method and apparatus. 3,765,215, 10-16-73, Cl. 72-280.000.

Martin, Harold B., to Graber-Rogg, Inc. Tamper-proof container. 3,727,749, 4-17-73, Cl. 206-17.500.

Martin, Harold B.; and Rogg, Herman O., to Graber-Rogg Inc. Foot pedal. 3,744,341, 7-10-73, Cl. 74-561.000.

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Martin, Harold B.; and Rogg, Herman O., to Graber-Rogg, Inc. Musical keyboard. 3,745,874, 7-17-73, Cl. 84-433.000.
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Martin, James. Ejection seat escape system. 3,737,126, 6-5-73, Cl. 244-151.00b.
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Martin, Jon W.; and Bell, Jeffrey L., to TRW Inc. Composition of polyolefin rubber, 1,2-polybutadiene and a fluorinated polymer. 3,769,370, 10-30-73, Cl. 260-889.000.
Martin, Joseph. Five-axis shaper. 3,757,638, 9-11-73, Cl. 90-46.000.
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Martin, Patrick Henry; and Stearns, Wesley Joseph, Jr., to Dow Chemical Company, The. Coating compositions from solid epoxy resins and adducts of aziridine compounds with polyepoxides. 3,763,100, 10-2-73, Cl. 260-47.0en.
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Martin, Rene Jean, to Societe Francaise des Tubes Pneumatiques. Waiting apparatus for pneumatic for dispatch systems. 3,767,138, 10-23-73, Cl. 243-28.000.
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Martin, Rex, to Lucas, Joseph, (Industries) Limited. Means for securing a body to a panel. 3,708,850, 1-9-73, Cl. 29-203.00p.
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Martin, Richard H., to Olin Corporation. Vapor phase process for preparing aromatic isothiocyanates. 3,711,526, 1-16-73, Cl. 260-454.000.
Martin, Richard John: *See—*
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Martin, Richard W. Glass pane fastening. 3,778,956, 12-18-73, Cl. 52-758.00d.
Martin, Robert A., to Clevepak Corporation. Apparatus for controlling a sewing machine thread cutter. 3,750,603, 8-7-73, Cl. 112-252.000.
Martin, Robert C., to Dow Chemical Company, The. Hydraulic cement retarder composition. 3,753,748, 8-21-73, Cl. 106-90.000.
Martin, Robert C., to Dow Chemical Company, The. Aqueous hydraulic cement composition having improved retardation to set and use thereof in high temperature environments. 3,754,953, 8-28-73, Cl. 106-90.000.
Martin, Robert Cherry: *See—*
Mueller, Fritz Kurt; Martin, Billy Otis; Chandler, James Parker; and Martin, Robert Cherry, 3,729,998.
Martin, Robert E.: *See—*
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Martin, Robert E. Eye exercising apparatus. 3,774,599, 11-27-73, Cl. 128-76.500.
Martin, Robert, Jr.: *See—*
Hodshire, James O.; Shockley, Quentin O.; and Martin, Robert, Jr., 3,748,110.
Martin, Robert L.: *See—*
Ariyan, Zaven S.; and Martin, Robert L., 3,769,342.
Martin, Robert L.; Howland, Leland L.; and Eichinger, Le Roy J., to Thermo King Corporation. Transportable refrigeration unit having induction alternator-induction motor reconnection and control system. 3,720,842, 3-13-73, Cl. 307-68.000.
Martin, Robert L.; and Mellyn, Lawrence P., to General Electric Company. Decorative support and method of mounting. 3,735,118, 5-22-73, Cl. 240-10.00r.
Martin, Robert L. Mailable disposable viewer. 3,756,699, 9-4-73, Cl. 350-350.000.
Martin, Robert M.: *See—*
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Martin, Robert M. User controlled exerciser frame. 3,716,231, 2-13-73, Cl. 272-58.000.
Martin, Robert W.: *See—*
Esposito, Frank J.; Pallas, Michael J.; and Martin, Robert W., 3,715,759.
Martin, Robert W. Flexible tool holder. 3,775,923, 12-4-73, Cl. 51-392.000.
Martin, Ronald C.; and Sixt, Marty E., to Advanced Drainage Systems, Inc. Tube coupling. 3,727,953, 4-17-73, Cl. 285-177.000.
Martin, Ronald C.; and Sixt, Marty E., to Advanced Drainage Systems, Inc. Dimensional control apparatus. 3,732,046, 5-8-73, Cl. 425-140.000.
Martin, Roy A.; and Pittman, Clarence E. Voting machine. 3,743,176, 7-3-73, Cl. 235-50.00a.
Martin, Roy A.; and Pittman, Clarence E., to Lectra Data, Inc. Voting machine. 3,743,177, 7-3-73, Cl. 235-51.000.
Martin, Roy A.; and Pittman, Clarence E. Voting machine. 3,746,248, 7-17-73, Cl. 235-51.000.
Martin, Roy A.; and Pittman, Clarence E. Voting machine. 3,746,249, 7-17-73, Cl. 235-54.00f.
Martin, Salvador Olive: *See—*
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Martin, Samuel W., to Pitney-Bowes, Inc. Multiple copy arrangement for photocopy machine. 3,770,348, 11-6-73, Cl. 355-102.000.
Martin Stamping & Stove Company: *See—*
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Martin, Stephen A., to United Aircraft Corporation. Universal joint employing a fluid bearing. 3,727,408, 4-17-73, Cl. 60-232.000.
Martin, Stephen J. Pulse interrogation article-sorting system. 3,713,102, 1-23-73, Cl. 340-152.00t.
Martin, Stephen J., to Robertshaw Controls Company. Alarm coupler. 3,715,502, 2-6-73, Cl. 179-2.00c.
Martin, Stephen J., to Hunter Electronics, Inc. Remote meter reader system. 3,742,142, 6-26-73, Cl. 179-2.00a.
Martin, Sterling T.: *See—*
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Martin, Stuart W.: *See—*
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Martin, Sylvia, to Oxy Metal Finishing Corporation. Acid zinc plating baths. 3,770,599, 11-6-73, Cl. 204-55.00r.
Martin, Tellis A., to Mead Johnson & Company. Compositions containing zinc mercaptide N-acetylcysteine carboxylate salts. 3,749,770, 7-31-73, Cl. 424-72.000.
Martin, Thomas B., Sr.; and Londahl, Dickey S., to Micropump Corporation. Gear pump construction. 3,716,306, 2-13-73, Cl. 417-44.000.
Martin, Thomas W.: *See—*
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Martin, Thomas W., Jr.: *See—*
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Martin, Thomas W., Sr.; and Martin, Thomas W., Jr., to Cutters Machine Company, Inc. Cloth feeding and spreading mechanism for cloth spreading machine. 3,727,907, 4-17-73, Cl. 270-31.000.
Martin, Thomas W., Sr.; and Martin, Thomas W., Jr., to Cutters Machine Company, Inc. Catcher mechanism for cloth spreading machine. 3,768,799, 10-30-73, Cl. 270-30.000.
Martin Tracker Corporation: *See—*
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Martin, Vincent F.; Woolverton, Richard J.; and Kuhlmann, Rodger H., to M.K.W. Industries, Incorporated. Portable freight spacer. 3,767,066, 10-23-73, Cl. 214-10.50r.
Martin, Walter Harper, to Refrigeration Engineering Corporation. Poultry freezing process. 3,715,891, 2-13-73, Cl. 62-63.000.





Martin, Waylan C. Water treatment. 3,779,913, 12-18-73, Cl. 210-
Martinez, Eugene, 1/2 to Reibel, Robert H. General assessment fo





Marton, Joseph; and Marton, Terezia, 3,723,164.
Marumo, Nagayuki; and Irie, Norio, to Nippon Motor Co., Ltd. Method of producing a sintered metal article. 3,773,500, 11-20-73, Cl. 75-226.000.

Martin, Waylan C. Water treatment. 3,779,913, 12-18-73, Cl. 210-63.000.

Martin Welding, Inc.: *See—*
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Martin, Wilhelm; and Rieger, Werner, to Glanzstoff AG. Profiled electrode for electro-erosive boring. 3,746,827, 7-17-73, Cl. 219-69.00e.

Martin, Wilhiam A.; and Saint Clair, John Q., II, to Eastman Kodak Company. Motion picture projector apparatus. 3,724,777, 4-3-73, Cl. 242-195.000.

Martin, William A.: *See—*
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Martin, William A., to Eastman Kodak Company. Tape recorder apparatus. 3,724,858, 4-3-73, Cl. 274-4.00e.

Martin, William E. Large capacity scraper unit construction. 3,711,971, 1-23-73, Cl. 37-124.000.

Martin, William Edward, to RCA Corporation. Apparatus for remotely measuring the temperature and emissivity of a radiant object independent of the object's radiant surface property. 3,770,973, 11-6-73, Cl. 250-340.000.

Martin, William F.; and Ranta, Esko E. Bag holding apparatus. 3,709,449, 1-9-73, Cl. 248-101.000.

Martin, William J.: *See—*
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Martin, William R.: *See—*
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Martin, William R.; and Widell, Charles D., to Lockheed Aircraft Corporation. Airborne vehicle high frequency antenna. 3,774,220, 11-20-73, Cl. 343-708.000.

Martin, William Redvers John, to International Computers Limited. Card feeding devices. 3,756,590, 9-4-73, Cl. 271-54.000.

Martin, Wolfgang: *See—*
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Martincic, Paul W.; and Miller, James R., to Westinghouse Electric Corporation. Methods of constructing electrical inductive apparatus. 3,708,875, 1-9-73, Cl. 29-605.000.

Martincic, Paul W.; and Moore, Curtis L., to Westinghouse Electric Corporation. Cast condenser bushing. 3,769,446, 10-30-73, Cl. 174-143.000.

Martindale, David L.: *See—*
Dale, Alan M.; Martindale, David L.; and Mursinna, Richard C., 3,764,036.
Mursinna, Richard C.; and Martindale, David L., 3,775,989.

Martindale, David L.; Dale, Alan M.; Mursinna, Richard C.; and Rewerts, Gene R., to Ametek, Inc. Valved for lines carrying extreme temperature fluids. 3,712,583, 1-23-73, Cl. 251-149.400.

Martineau, Jean; and Biechler, Francois Joseph. Cleaning compositions. 3,759,847, 9-18-73, Cl. 252-544.000.

Martinek, Lumir: *See—*
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Martinelli, Fred J., to Stanford Research Institute. Instrument for determining polymer deflection temperatures. 3,774,440, 11-27-73, Cl. 72-15.000.

Martiner, Samuel T., to Amaco Production Company. Adjustable output voltage transformer. 3,748,570, 7-24-73, Cl. 323-44.00r.

Martinet, Christian Jacques Emile Joseph. Device for accelerating the setting of concrete. 3,729,614, 4-24-73, Cl. 219-345.000.

Martinetz, Johann, to Mayer & Cie, Firma. Multi-system circular knitting machine with needle cylinder and disc plate. 3,757,538, 9-11-73, Cl. 66-19.000.

Martinez, Antero; and Martinez, Estrella. Fish lure. 3,757,450, 9-11-73, Cl. 43-35.000.

Martinez, Cristobal; Fernandez, Miguel; and Carmon, Rodrigo, to Laboratorios Made, S.A. Salt of pyridoxine alpha-keto-glutarate with 5-hydroxytryptophane. 3,732,235, 5-8-73, Cl. 260-295.00r.

Martinez, Daniel G., to Rainbow-Lifegard Products, Inc. Exercising device. 3,743,280, 7-3-73, Cl. 272-57.00r.

Martinez de Castro Lopez, Manuel. Scale blocking means. 3,773,123, 11-20-73, Cl. 177-155.000.

Martinez, Enrique R.: *See—*
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Martinez, Eugene, 1/2 to Reibel, Robert H. General arrangement for projector. 3,751,160, 8-7-73, Cl. 353-52.000.

Martinez, Eugene, to Kamar Products, Inc. Mirror. 3,757,479, 9-11-73, Cl. 52-222.000.

Martinez, F. Jesus: *See—*
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Martinez, Felix Jesus, to Baxter Laboratories, Inc. Positive pressure lid for dialyzer apparatus. 3,712,475, 1-23-73, Cl. 210-321.000.

Martinez, Felix Jesus, to Baxter Laboratories, Inc. Spiral mass transfer device with low flow resistance and fluid volume. 3,743,098, 7-3-73, Cl. 210-321.000.

Martinez, Felix Jesus, to Baxter Laboratories, Inc. Bubble trap for removal of bubbles from biological fluids under sterile conditions. 3,778,973, 12-18-73, Cl. 55-199.000.

Martinez, Flelix Jesus, to Baxter Laboratories, Inc. Artifical kidney apparatus. 3,712,474, 1-23-73, Cl. 210-321.000.

Martinez, Henry G.: *See—*
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Martinez, Ildefonso. Temperature and water distribution regulating mechanism for bathtubs and washbasins. 3,721,261, 3-20-73, Cl. 137-597.000.

Martinez, Miguel. Air conditioner with disposable air filter. 3,710,588, 1-16-73, Cl. 62-317.000.

Martinez, Renato G. Advance call system for vehicular traffic control. 3,739,332, 6-12-73, Cl. 340-37.00a.

Martinez, Robert: *See—*
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Martinez, Sylvia. Valve assembly. 3,774,878, 11-27-73, Cl. 251-65.000.

Martinez-Manzor, Manuel. Catheter. 3,780,733, 12-25-73, Cl. 128-215.000.

Martini, Alfredo. Composable seat structure. 3,754,788, 8-28-73, Cl. 297-445.000.

Martini, Gyorgy: *See—*
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Martini, Joseph C., to Gulf Research & Development Company. Separation of meta and para-cresol. 3,725,485, 4-3-73, Cl. 260-621.00a.

Martini, Leo A. Percussion drilling system. 3,768,576, 10-30-73, Cl. 173-73.000.

Martini, Leonard J., to United States of America, Navy. Dye release apparatus. 3,768,436, 10-30-73, Cl. 116-124.00b.

Martini, Marco: *See—*
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Martiniak, Leonard J.: *See—*
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Martiniak, Leonard J., to General Electric Company. Trash compactor having means facilitating trash removal therefrom. 3,747,520, 7-24-73, Cl. 100-218.000.

Martiniak, Leonard J., to General Electric Company. Compacting apparatus having means for releasing a compacted load therefrom. 3,768,399, 10-30-73, Cl. 100-229.00a.

Martinmaas, Werner W. Steering apparatus for a self-propelled vehicle. 3,760,895, 9-25-73, Cl. 180-5.00r.

Martino, Lawrence A., to Monsanto Company. Method for blow molding an article having a tail portion which can not collapse against an adjoining wall of the article. 3,758,654, 9-11-73, Cl. 264-98.000.

Martino, William L., Jr., to Honeywell Information Systems Inc. Memory write circuit. 3,747,076, 7-17-73, Cl. 340-173.00r.

Martinonis, Virgil: *See—*
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Martinsen, Lyle J., to Practical Innovations, Inc. Peeling citrus fruit. 3,721,573, 3-20-73, Cl. 99-233.120.

Martinson, Arne I. Adjustable cable stop. 3,744,339, 7-10-73, Cl. 74-501.00r.

Martinsons, Aleksandrs: *See—*
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Martinsons, Aleksandrs, to PPG Industries, Inc. Ruthenium coated titanium electrode. 3,718,551, 2-27-73, Cl. 204-98.000.

Marton, Joseph; and Marton, Terezia, to Westvaco Corporation. Mottle preventing treatment for paperboard. 3,723,164, 3-27-73, Cl. 117-76.00p.

Marton, Roland M.: *See—*
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Marton, Terezia: *See—*





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Martone, Ronald J.; Mueller, Peter G.; and Bailey, Homer M., to Picker Corporation. Scintillation camera system. 3,718,833, 2-27-73, Cl. 315-18.000.

Martone, Ronald J., to Picker Corporation. Scintillation crystal with reflection inhibiting material and scintillation device embodying the crystal. 3,745,359, 7-10-73, Cl. 250-71.50r.

Martone, Ronald J.; Mueller, Peter G.; and Flis, Richard J., to Picker Corporation. Scintillation camera. 3,769,509, 10-30-73, Cl. 250-367.000.

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Martuch, Leon L.; and Russell, Edward J., to Scientific Anglers, Inc. Tapered leader for fly fishing. 3,758,979, 9-18-73, Cl. 43-44.980.

Martus, Bernard R.: *See—*
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Martwig, Ernst; Ackermann, Otto; and Lilingsfeld, Heinz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Manufacture of 1-nitroanthraquinone. 3,766,222, 10-16-73, Cl. 260-369.000.

Marty, Fred C. Revolvable device for aiding the movement of a partially disabled person. 3, 713,619, 1-30-73, Cl. 248-425.000.

Marty, Yvon: *See—*
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Martyny, William C.; and Olwert, Ronald J., to General Electric Company. Electric lamp envelope having clear protective coating and method of making. 3,775,161, 11-27-73, Cl. 117-94.000.

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Martzloff, Francois D., to General Electric Company. Integral sensor for monitoring a metal oxide varistor. 3,742,419, 6-26-73, Cl. 338-20.000.

Marubishi Yuka Kogyo Kabushiki Kaisha: *See—*
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Maruishi Cycle Industries Ltd.: *See—*
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Marukin Shoyu Company, Limited: *See—*
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Marulic, Walter J.; and Ferris, Ray L., to Pullman Incorporated. Fifth wheel plate assembly. 3,751,079, 8-7-73, Cl. 287-20.50r.

Marumo, Hideo. Detergent composition. 3,719,613, 3-6-73, Cl. 252-542.000.

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Marumo, Nagayuki; and Irie, Namio, to Nissan Motor Company, Limited. Line pressure regulating system for automatic power transmission. 3,710,651, 1-16-73, Cl. 74-864.000.

Marumo, Nagayuki, to Nissan Motor Company, Limited. Control system for an automatic transmission. 3,726,157, 4-10-73, Cl. 74-753.000.

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Maruoka, Hiroyuki, to Nissan Motor Company, Limited. Afterburner for internal combustion engine. 3,716,996, 2-20-73, Cl. 60-286.000.

Maruoka, Hiroyuki, to Nissan Motor Company, Limited. Fuel supply control device. 3,778,040, 12-11-73, Cl. 261-36.00a.

Maruoka, Hiroyuki, to Nissan Motor Company, Limited. Exhaust gas treating system for internal combustion engine. 3,779,015, 12-18-73, Cl. 60-286.000.

Maruoka, Hiroyuki, to Nissan Motor Company, Limited. Vehicular air-pollution preventive apparatus. 3,779,349, 12-18-73, Cl. 192-.092.

Marushima, Giichi: *See—*
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Maruta, Iwao; deceased (by Maruta, Kiyoko; and Maruta, Yoshi; representatives); Arai, Haruhkio; and Horin, Shoji, to Kao Soap Co., Ltd. Water-solubilized polyvinyl adhesive method. 3,762,987, 10-2-73, Cl. 161-251.000.

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Maruta, Rikio: *See—*
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Mase, Toshio; and Kondo, Tsukasa, to Kabushiki Kaisha Tokai Rika Denki Seisakusho. Electric lighter plug with interlocking means. 3,712,972, 1-23-73, Cl. 219-267.000.
Maselle, James Michael; Ernest, Michael Vance; and Kim, Gwan, to Grace, W. R., & Co. Catalyst for control of automobile exhaust emissions. 3,764,564, 10-9-73, Cl. 252-465.000.
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Masetti, William R., to United Nuclear Corporation. Nuclear fuel element. 3,759,243, 9-18-73, Cl. 126-68.000.
Mashikian, Matthew S.; Kelley, James K.; and McMurray, William C., to Detroit Edison Company, The. Capacitively graded electrical insulating devices. 3,770,877, 11-6-73, Cl. 174-143.000.
Mashimo, Yukio: *See—*
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Mashimo, Yukio; Mizui, Seiichiro; and Takishima, Yoshiyuki, to Canon Kabushiki Kaisha. Photographic flash exposure control system. 3,714,872, 2-6-73, Cl. 95-10.0ce.
Mashimo, Yukio, to Canon Kabushiki Kaisha. Electronic flash device. 3,723,810, 3-27-73, Cl. 315-241.00p.
Mashimo, Yukio, to Canon Kabushiki Kaisha. Servo-control system. 3,743,912, 7-3-73, Cl. 318-599.000.
Mashimo, Yukio, to Canon Kabushiki Kaisha. Electronic flash device. 3,777,212, 12-4-73, Cl. 315-241.00p.
Mashin, Boris Grigorievich; and Sokolov, Igor Vladimirovich. A.C. powered duel magnetron structure for independently generating two frequencies. 3,774,119, 11-20-73, Cl. 331-56.000.
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Masi, Frank, to United States Radium Corporation. X-ray conversion screen utilizing yttrium oxysulfide phosphor. 3,738,856, 6-12-73, Cl. 117-33.50c.
Masi, James Vincent. Liquid crystal cell and method for its manufacture. 3,746,426, 7-17-73, Cl. 350-160.0lc.
Masi, James Vincent, to Bunker Ramo Corporation. Touch responsive electric switch and device for the use thereof. 3,772,685, 11-13-73, Cl. 340-365.00c.
Masic, Rene: *See—*
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Masiello, Felix R., to Addressograph-Multigraph Corporation. Sheet feeding and cutting device. 3,724,945, 4-3-73, Cl. 355-29.000.
Masin, George F., to United States of America, Navy. Two channel optical fuze with infrared sensing bridge. 3,719,149, 3-6-73, Cl. 102-70.20r.
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Masino, Carlo; and Gilardino, Paolo, to AMP Incorporated, mesne. Methods for insulating wire terminations. 3,734,992, 5-22-73, Cl. 264-159.000.
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Mason, Daniel W.; and Nester, Henry H.; deceased (by Nester, Dianne L.; as special administratrix), said Mason, Daniel W., assors. to Owens-Illinois, Inc. Resistor compositions for microcircuitry. 3,718,608, 2-27-73, Cl. 252-514.000.
Mason, Daniel W., to Owens-Illinois, Inc. Capacitor with high dielectric materials. 3,720,862, 3-13-73, Cl. 317-258.000.
Mason, Daniel W., to Owens-Illinois, Inc. High K dielectric printing pastes. 3,778,285, 12-11-73, Cl. 106-179.000.
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Mason, Edwin E.; and Libby, Ross C., to Design Elements, Inc. Temperature compensation circuit for a regulated power supply. 3,714,549, 1-30-73, Cl. 323-22.00t.
Mason, Edwin E. Modem carrier detecting circuit. 3,714,586, 1-30-73, Cl. 325-487.000.
Mason, Elmer B. Multi-armature motor. 3,723,796, 3-27-73, Cl. 310-126.000.
Mason, Ernest Arthur: *See—*
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Mason, George W., to General Motors Corporation. Turbomachine rotor. 3,746,469, 7-17-73, Cl. 416-213.000.
Mason, Glenn E. Method and apparatus for harvesting fish. 3,715,831, 2-13-73, Cl. 43-4.500.
Mason, H. C., & Associates, Inc.: *See—*
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Mason, Howard C.; and Sohn, Fred, to Sun Studs, Inc., mesne. Method and apparatus for processing logs. 3,736,968, 6-5-73, Cl. 144-312.000.
Mason, Howard C., to Mason, H. C., & Associates, Inc. Sticker placer apparatus for placing sticks. 3,738,510, 6-12-73, Cl. 214-6.0dk.
Mason, Howard C., to Mason, H. C., & Associates, Inc. Process and apparatus for veneer cutting. 3,746,065, 7-17-73, Cl. 144-309.00k.
Mason, James S., to Texas Instruments, Incorporated. Real-world perspective display for use with an independent aircraft landing monitor system. 3,716,866, 2-13-73, Cl. 343-525.000.
Mason, Jerry M.; and McKibben, James L., to General Motors Corporation. Apparatus for supplying a tuning voltage to an electronically tuned FM radio receiver from the oscillator of an AM radio receiver. 3,743,943, 7-3-73, Cl. 325-453.000.
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Mason, John R., to Dracon Industries. Termination tool. 3,708,852, 1-9-73, Cl. 28-203.00h.
Mason, John R., to Dracon Industries. Shearable protective molding and shear. 3,711,947, 1-23-73, Cl. 30-179.000.
Mason, John R., to Dracon Industries. Device and method for installing surface molding. 3,736,199, 5-29-73, Cl. 156-71.000.
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Mason, Lawrence J., to Xerox Corporation. Multiple flash lamp alphanumeric projection disc assembly. 3,759,149, 9-18-73, Cl. 95-4.500.
Mason, Lawrence J., to Xerox Corporation. Projection assembly. 3,768,384, 10-30-73, Cl. 95-45.000.
Mason, Leonite Kathleen, to Lana, Lori, Wigs Limited. Method of manufacturing wigs. 3,721,251, 3-20-73, Cl. 132-53.000.
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Mason, Mark T.; and Wood, Kenneth G., to Hamilton Kent Manufacturing Company, mesne. Apparatus for automatically directing and maintaining a beam of electromagnetic radiation relative to earth horizontal. 3,729,266, 4-24-73, Cl. 356-250.000.
Mason, Merle C. Lift device for variably displaying and facilitating repairs of vehicles such as snowmobiles. 3,734,466, 5-22-73, Cl. 254-89.000.
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Mason, Robert Jean; and Landry, Norman Richard, to RCA Corporation. Dielectrically loaded waveguide assembly. 3,760,305, 9-18-73, Cl. 333-95.00r.
Mason, Robert Jean; and Landry, Norman Richard, to RCA Corporation. Waveguide assembly including a toroid having dielectric material therein. 3,768,040, 10-23-73, Cl. 333-24.100.
Mason, Robert W.; and Prochaska, Frank O., to Shell Oil Company. Method of oil cut determination. 3,712,118, 1-23-73, Cl. 73-61.10r.
Mason, Roger S.; and Pullis, George R., to Cogar Corporation. Apparatus for removing and replacing multi-pinned components mounted on circuit boards. 3,731,866, 5-8-73, Cl. 228-6.000.





Mason, Ronald F., to Shell Oil Company. Alpha-olefin production. 3,737,475, 65-73, Cl. 260-683.15d.
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Mason, Roy Glenn, to Anderson Jacobson, Inc. Tape drive apparatus for cassettes. 3,743,157, 7-3-73, Cl. 226-195.000.
Mason, Vern K., to Berg, Edgar A. Ticket dispensing device. 3,768,354, 10-30-73, Cl. 83-222.000.
Mason, Warren Perry, to Bell Telephone Laboratories, Incorporated. Multisection precision-tuned monolithic crystal filters. 3,732,510, 5-8-73, Cl. 333-72.000.
Mason, William B., to General Electric Company. Control arrangement for electrically propelled traction vehicle. 3,716,768, 2-13-73, Cl. 318-139.000.
Mason, William J.; Wilson, Douglas W.; Considine, Douglas M.; Viosca, Felix Jerome; and Wade, J. Philip, to Hughes Aircraft Company. Material cutting and printing system. 3,761,675, 9-25-73, Cl. 219-121.01m.
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Massa, Frank; and Hubbard, John F., to Massa Division, Dynamics Corporation of America. Electroacoustic transducers for use at high temperatures and pressures. 3,710,151, 1-9-73, Cl. 310-8.900.
Massa, Frank, to Massa Division, Dynamics Corporation of America. High power, low frequency underwater transducer. 3,715,711, 2-6-73, Cl. 340-9.000.
Massa, Frank, to Massa Division, Dynamics Corporation of America. Pressure gradient transducer. 3,715,713, 2-6-73, Cl. 340-10.000.
Massa, Frank, to Massa Division Dynamics Corporation of America. Mounting structure for spherical shaped underwater transducer. 3,716,827, 2-13-73, Cl. 340-8.00s.
Massa, Frank, to Massa Division, Dynamics Corporation of America. Electroacoustic transducer with improved shock resistance. 3,716,828, 2-13-73, Cl. 340-10.000.
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Massey, James A. Process for securing a head to a container. 3,769,686, 11-6-73, Cl. 29-470.500.
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Massey, Roger G., to Parker & Harper Mfg. Co., Inc., The. Detachable handle for control devices. 3,744,752, 7-10-73, Cl. 251-292.000.
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Massie, Stephen N., to Universal Oil Products Company. Preparation of esters. 3,714,228, 1-30-73, Cl. 260-476.00r.
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Massie, Stephen N., to Universal Oil Products Company. Stabilization of organic substances. 3,723,316, 3-27-73, Cl. 252-50.000.
Massie, Stephen N., to Universal Oil Products Company. Oxidation of alkyl aromatic compounds. 3,723,517, 3-27-73, Cl. 260-524.00r.
Massie, Stephen N., to Universal Oil Products Company. Preparation of aromatic acids. 3,732,296, 5-8-73, Cl. 260-524.00r.
Massie, Stephen N., to Universal Oil Products Company. Preparation of aromatic aldehydes. 3,732,314, 5-8-73, Cl. 260-599.000.
Massie, Stephen N., to Universal Oil Products Company. Purification of polybasic acids. 3,746,755, 7-17-73, Cl. 260-525.000.
Massie, Stephen N., to Universal Oil Products Company. Dimerization of styrene compounds. 3,763,256, 10-2-73, Cl. 260-668.00c.
Massie, Stephen N., to Universal Oil Products Company. Dimerization of styrene compounds. 3,769,359, 10-30-73, Cl. 260-669.00p.
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Masson, Maurice; and Warlop, Raymond, to Commissariat a l'Energie Atomique. Microwave thickness measuring device utilizing two resonant cavities on either side of the test piece. 3,737,770, 6-5-73, Cl. 324-58.50c.
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Masson, Narinder; Korenicki, William John; and Lechner, Walter Ludwig, to Gamon-Camet Industries, Inc. Valve assembly. 3,720,229, 3-13-73, Cl. 137-527.800.
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Masters, Leonard Kenneth Morgan; and Dalziel, Thomas, to Hobbs, Russell, Limited. Beverage maker. 3,724,359, 4-3-73, Cl. 99-281.000.
Masters, Philip C., to McNeil Corporation. Portable hose mending apparatus. 3,777,354, 12-11-73, Cl. 29-237.000.
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Masucci, Alan A. Adjustable bifocal spectacles. 3,770,343, 11-6-73, Cl. 351-55.000.

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Masuda, Fujio, to Sakura Refrigerating & Heating Engineering Co., Ltd. Defroster for a refrigerating system. 3,772,897, 11-20-73, Cl. 62-282.000.

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Masuda, Masao. Apparatus for treating long and broad fabric with liquid. 3,753,358, 8-21-73, Cl. 68-150.000.

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Masuda, Noboru, to Denki Onkyo Co., Ltd. Decimal-binary code conversion system. 3,731,074, 5-1-73, Cl. 235-155.000.

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Matejka, Edgar, to Bodenseewerk Geratetechnik GmbH. Circuit arrangement for taking the mean of several input voltages. 3,760,284, 9-18-73, Cl. 328-158.000.

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Mathews, Keith Franklin, to International Business Machines Corporation. Transistor switching circuit. 3,769,524, 10-30-73, Cl. 307-215.000.
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Mathis, Ronald D.; and Guillory, Jack P., to Phillips Petroleum Company. Polymer stabilization with nickel derivatives of β-dithones. 3,763,092, 10-2-73, Cl. 260-45.75n.
Mathis, Ronald D.; and Dix, James S., to Phillips Petroleum Company. Production of polypropylene fibers. 3,775,365, 11-27-73, Cl. 260-41.00r.
Mathis, Ronald D.; and Guillory, Jack P., to Phillips Petroleum Company. Light stabilized polypropylene containing a hindered phenol a phosphite and a benzotriazole. 3,781,242, 12-25-73, Cl. 260-45.70p.
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Mathorin, Edward Landais, to International Business Machines Corporation. Apparatus for clamping and centering a flexible magnetic disk. 3,768,815, 10-30-73, Cl. 274-40.000.
Mathre, Owen Bertwell; and Swalheim, Donald Arthur, to Du Pont de Nemours, E. I., and Company. Electrotinning process to prevent plating on the cathode contact roll. 3,729,390, 4-24-73, Cl. 204-28.000.
Mathur, Vishwa N. P.: *See—*
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Mathur, Vishwa N. P., to MacMillan Bloedel Limited. Microwave drying system. 3,710,064, 1-9-73, Cl. 219-10.550.
Mathus, Gregory, to Data Packaging Corporation. Storage system for tape cassettes. 3,736,036, 5-29-73, Cl. 312-285.000.
Mathys, Gaston: *See—*
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Matier, William L.; and Comer, William T., to Mead Johnson & Company. Sulfamoyl azide composition process for lowering blood pressure. 3,723,627, 3-27-73, Cl. 424-321.000.
Matievich, William: *See—*
Devlin, John O.; and Matievich, William, 3,742,583.
Matievich, William; and Theakston, Harry A., to Standard Pressed Steel Co. Method of assembling a retained fastener assembly. 3,777,358, 12-11-73, Cl. 29-450.000.
Mating, Bela: *See—*
Szilas, A. Pal; Bognar, Janos; Mating, Bela; and Bajoczky, Laszlo, 3,732,035.
Matino, Haruhiro. Method for manufacturing a semiconductor device. 3,713,910, 1-30-73, Cl. 148-100.500.
Matisa Materiel Industriel S.A.: *See—*
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Matisoo, Jori: *See—*
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Matkan, Josef, to Canon Kabushiki Kaisha, mesne. Liquid toner applicator. 3,752,119, 8-14-73, Cl. 118-637.000.
Matkovich, Vlado I.: *See—*
Economy, James; and Matkovich, Vlado I., 3,725,533.
Matkovsky, Petr E.: *See—*
Shilov, Alexandr E.; Dyachkovsky, Fridrikh S.; Chirkov, Nikolai Mikhailovich; Matkovsky, Petr E.; Aronovich, Khaim-Mordkhe; Beikhold, Alina A.; and Russian, Ljudmila, 3,781,220.
Matlack, James R.: *See—*
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Matrone, John L.: *See—*
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Matsch, Ladislas C., to Union Carbide Corporation. Liquid-gas contact tray. 3,759,498, 9-18-73, Cl. 261-114.0jp.
Matson, Gale W.: *See—*
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Matson, James H.; and Goings, Robert, to United States of America, Navy. Gas chromatograph. 3,753,656, 8-21-73, Cl. 23-232.00e.
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Mappes, Robert W., 3,768,686.
Matson, Rapheal F., to Freeport Minerals Company. Recovery of nickel and cobalt from reduced nickeliferous ores. 3,714,326, 1-30-73, Cl. 423-150.000.
Matson, Robert Dale: *See—*
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Matson, Robert P. Structural panel. 3,780,485, 12-25-73, Cl. 52-665.000.
Matson, William O., to United States of America, Navy. Load measuring device. 3,754,438, 8-28-73, Cl. 73-141.00a.
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Matsubara, Hironaga: *See—*
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Matsubara, Hironaga, to Sumitomo Electric Industries, Ltd. Insulated cable having an insulating shielding layer. 3,769,085, 10-30-73, Cl. 117-218.000.
Matsubara, Hiroshi, to Diesel Kiki Kabushiki Kaisha. Vehicle constant-speed cruising device. 3,774,715, 11-27-73, Cl. 180-108.000.
Matsubara, Masaki, to Olympus Optical Co., Ltd. Accurate lens system for producing an extremely small image in a reduced scale. 3,718,384, 2-27-73, Cl. 350-215.000.
Matsubara, Mitsuru: *See—*
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Matsud, Jon T., to United States of America, Navy. Parachute decoupling apparatus. 3,776,493, 12-4-73, Cl. 244-147.000.
Matsuda, Akio, to Industrial Science & Technology, Agency of. Method for manufacture of 3-pentenoic acid ester. 3,778,466, 12-11-73, Cl. 260-486.0ac.
Matsuda, Hari. Snow bricker. 3,717,431, 2-20-73, Cl. 425-318.000.
Matsuda, Hari, to Yale, Martin, Industries, Inc. Bottom tip for the leg or pole of a pogo stick. 3,731,920, 5-8-73, Cl. 272-57.00e.
Matsuda, Hisashi, to Nihon Denshi Kabushiki Kaisha. Rapid scanning double focussing mass spectrometer. 3,715,581, 2-6-73, Cl. 250-41.9me.
Matsuda, Kazuo; Tanaka, Yoshiaki; Sakai, Takeyo; and Iwasa, Ichiro, to Kao Soap Co., Ltd. Process for polymerization of tetrahydrofuran. 3,712,930, 1-23-73, Cl. 260-615.00b.
Matsuda, Kazuo; Tanaka, Yoshiaki; Sakai, Takeyo; and Iwasa, Ichiro, to Kao Soap Co., Ltd. Process for polymerization of tetrahydrofuran. 3,714,266, 1-30-73, Cl. 260-615.00b.
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Matsuda, Kazuo; Tanaka, Yoshiaki; and Sakai, Takeyo, to Kao Soap Co., Ltd. Process for polymerization of terrahydrofuran. 3,778,480, 12-11-73, Cl. 260-615.00b.
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Matsuda, Masao, to Matsushita Electric Industrial Co., Ltd. Device for stopping a rotating member at a predetermined angular position. 3,757,232, 9-4-73, Cl. 328-74.000.
Matsuda, Masao, to Matsushita Electric Industrial Co. Ltd. Sewing machine electrical drive device. 3,763,803, 10-9-73, Cl. 112-219.00a.
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Matsuda, Shinji; Kuwabara, Hidemitso; Kubo, Hiroshi; Sasajima, Yoichi; Suzuki, Kensuke; and Fukamachi, Takashi, to Sumitomo Electric Industries, Ltd. and Tomaegawa Paper Manufacturing Co., Ltd. Electrically insulating polyproplyene laminate paper and oil-ipregnated electric power cable using said laminate paper. 3,775,549, 11-27-73, Cl. 174-25.00r.
Matsuda, Shinzaburo. Footwear having an active ornament. 3,738,024, 6-12-73, Cl. 36-2.50r.
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Matsuda, Yasuhisa, to Kabushiki Kaisha Koparu. Time switch apparatus. 3,733,911, 5-22-73, Cl. 74-3.520.
Matsuda, Yasumasa, to Hitachi, Ltd. Fluidic pulse counter. 3,719,195, 3-6-73, Cl. 137-811.000.
Matsudo, Kazuo; Osawa, Koichi; and Ikegami, Yoshisuke, to Nippon Kokan Kabushiki Kaisha. Hot rolled steel sheets for extra deep drawing. 3,716,420, 2-13-73, Cl. 148-12.000.
Matsudo, Kazuo; and Shimomura, Takayoshi, to Nippon Kokan Kabushiki Kaisha. Method of manufacturing steel plates for extra deep drawing. 3,759,081, 9-18-73, Cl. 72-364.000.
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Matsui, Kazuma; and Tsubouchi, Hideo, to Nippondenso Kabushiki Kaisha. Apparatus for establishing a variation of time delay between input and output fluid signals. 3,724,504, 4-3-73, Cl. 138-46.000.
Matsui, Kazumi; and Umemori, Takashi, to Japanese National Railways. Apparatus for propelling a movable body in a suspended state at a very high speed. 3,771,033, 11-6-73, Cl. 318-135.000.
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Matsui, Kiyoshi; Osiyama, Hiroichi; and Kobayashi, Hiroshi, to Hitachi, Ltd. Ice making apparatus. 3,760,600, 9-25-73, Cl. 62-137.000.
Matsui, Masanao; Kato, Takeaki; Ueda, Kenzo; Mizutani, Toshio; Kitamura, Shigeyoshi; Fujimoto, Keimei; and Okuno, Yositosi, to Sumitomo Chemical Company, Ltd. Cyclopropanecarboxylic acid esters. 3,709,910, 1-9-73, Cl. 260-326.00r.
Matsui, Masanao; and Okuno, Yositose, to Sumitomo Chemical Company, Ltd. Vinylcyclopropanecarboxylates. 3,758,504, 9-11-73, Cl. 260-332.20r.
Matsui, Masao: *See—*
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Matsukawa, Hiroharu; Saeki, Keiso; and Shimada, Takeo, to Fuji Photo Film Co., Ltd. Process for preparing microcapsules containing hydrophobic oil drops. 3,769,231, 10-30-73, Cl. 252-316.000.
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Matsumoto, Kazuya, to Canon Kabushiki Kaisha. Method for optical detection and/or measurement of movement of a diffraction grating. 3,726,595, 4-10-73, Cl. 356-111.000.
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Matsumoto, Mikio; Terada, Kenji; and Matsunaga, Mitsuru, to Tsubakimoto Chain Mfg. Co., Ltd., The. Turnable directioning apparatus in automatic carrying system. 3,747,537, 7-24-73, Cl. 104-38.000.
Matsumoto, Mitsuo; Nishizuka, Yoshihide; and Iwata, Teruo, to Nara Sewing Machine Industrial Co., Ltd. Versatile blind stitch sewing machine. 3,760,747, 9-25-73, Cl. 112-178.000.
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Matsumoto, Seiji; and Tamai, Yasuo, to Fuji Photo Film Co., Ltd. Electrophotographic device. 3,707,943, 1-2-73, Cl. 118-7.000.
Matsumoto, Seiji; Tamai, Yasuo; and Komaki, Takao, to Xerox Corporation. Color electrophotographic process employing liquid developer containing gelatin. 3,738,832, 6-12-73, Cl. 96-1.200.
Matsumoto, Seiji; Honjo, Satoru; Sato, Masamichi; and Fukushima, Osamu, to Xerox Corporation. Original position confirming means for duplicating apparatus. 3,741,644, 6-26-73, Cl. 355-40.000.
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Mattheis, Harley H., to Ethyl Development Corporation. Display tray. 3,776,388, 12-4-73, Cl. 211-86.000.

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Matthews, Charles S.; Murphey, Carey E., Jr.; Dittmer, Albert K.; and Mandery, William L., to Shell Oil Company. Well blowout confinement with dense balls. 3,765,486, 10-16-73, Cl. 166-290.000.

Matthews, Charles W., to Institute of Gas Technology. Method of transporting natural gas. 3,711,258, 1-16-73, Cl. 48-190.00r.

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Matthews, Dean A., to Allis-Chalmers Corporation. Tilt cylinder anticavitation circuit. 3,722,723, 3-27-73, Cl. 214-674.000.

Matthews, Donald R.; and Holzman, Allen L., to United Aircraft Corporation. Generation of carbon dioxide having a population inversion. 3,716,342, 2-13-73, Cl. 23-281.000.

Matthews, Donald R., to United States of America, Navy. Apparatus for the in-place destruction of filed documents. 3,730,111, 5-1-73, Cl. 109-29.000.

Matthews, Donnell R., Jr.: *See—*
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Matthews, Frederick R., Jr.; and White, Erskine C., to United States of America, National Aeronautics and Space Administration. Method and apparatus for measuring the thickness of a coating. 3,771,045, 11-6-73, Cl. 317-246.000.

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Matthews, Frederick R., Jr.; and White, Erskine C., to United States of America, National Aeronautics and Space Administration. Lightweight, variable solidity knitted parachute fabric. 3,764,097, 10-9-73, Cl. 244-145.000.
Matthews, Jamie F., Jr., to Esso Production and Research Company. Method for installing double-walled pipelines. 3,724,224, 4-3-73, Cl. 61-72.300.
Matthews, Jamie F., Jr., to Esso Production Research Company. Recovery and repair of offshore pipelines. 3,751,932, 8-14-73, Cl. 61-72.100.
Matthews, Jamie F., Jr., to Esso Production Research Company. Offshore pipeline recovery. 3,777,499, 12-11-73, Cl. 61-72.300.
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Matthews, Ralph W.; and Schott, Robert E., to Allis-Chalmers Corporation. Hydraulic valve. 3,780,762, 12-25-73, Cl. 137-596.000.
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Matthews, Robert B.; and Fitzmaurice, Charles M., to Plessey Company Limited, The. Fluidic systems. 3,720,217, 3-13-73, Cl. 137-805.000.
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Matthews, Russell B. Automatic fuel ignition system. 3,718,423, 2-27-73, Cl. 431-266.000.
Matthews, Russell H., to Elco Corporation. Square pin receptacles employing channel contacts. 3,711,819, 1-16-73, Cl. 339-192.00r.
Matthews, Solomon Bertram, to Canadian Marconi Company. Circuit for avoiding false lock. 3,728,533, 4-17-73, Cl. 235-181.000.
Matthews, Stephen B., to Reynolds Metals Company. PVA lubricant for polyvinyl chloride. 3,760,036, 9-18-73, Cl. 260-899.000.
Matthews, Terence H.; Gold, Charles N.; and Cowpland, Michael C. J., to Microsystems International Limited. Frequency determining network. 3,720,887, 3-13-73, Cl. 331-142.000.
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Matthey, Maurice; and Imgrund, Heinrich, to Manutar S.A. Device for controlling the stroke and the travelling speed of at least one of the moving parts of a machine-tool. 3,738,184, 6-12-73, Cl. 74-110.000.
Matthey, Maurice L., to Manutar S.A. Tap-carrier. 3,727,469, 4-17-73, Cl. 74-89.000.
Matthey, William. Edge lath for stair step. 3,745,606, 7-17-73, Cl. 16-10.000.
Matthias, Guenther; Kasper, Werner; and Schulz, Gerhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of carboxylic esters. 3,723,509, 3-27-73, Cl. 260-488.00r.
Matthias, Karl, to Bopp and Reuther GmbH. Valve construction. 3,746,304, 7-17-73, Cl. 251-327.000.
Matthiessen, Roy A. Sled ski. 3,751,057, 8-7-73, Cl. 280-28.000.
Matthis, Hans, to Hofliger & Karg. Apparatus for stepwise transport of webs of synthetic plastic material or the like. 3,762,617, 10-2-73, Cl. 226-32.000.
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Mattor, John A., to Scott Paper Company. Carboxy Poly(vinyl benzal)resin. 3,776,888, 12-4-73, Cl. 260-73.00r.
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Mattox, Robert S. Method for reducing tartar accumulation on teeth. 3,743,721, 7-3-73, Cl. 424-95.000.
Mattson, Charles A., to Sunbeam Corporation. Lawn mower grass bag having a litter pocket. 3,724,186, 4-3-73, Cl. 56-202.000.
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Matuschek, Richard W.; and Garth, William, Jr., to Univiron Corporation. Structural corner post and framing system for buildings. 3,774,362, 11-27-73, Cl. 52-206.000.
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Maudlin, Wendell E., to Borg-Warner Corporation. Fluid powered expansion engine. 3,711,224, 1-16-73, Cl. 417-344.000.
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Maurelli, Manlio: *See—*
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Maurer, Robert. Fluid flowmeter. 3,747,406, 7-24-73, Cl. 73-205.00r.
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Maurer, Spencer B. Rotary power tool with centrifugal coupling means. 3,734,205, 5-22-73, Cl. 173-93.500.
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Maurice, Jean, to Societe Anonyme Francaise du Ferodo. Disc-brake and support structure. 3,719,257, 3-6-73, Cl. 188-73.400.
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Mavis, Mary Ann E. Method of making a textile fabric. 3,771,479, 11-13-73, Cl. 112-266.000.
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Mawson, Desmond Leonard; and Malone, Bernard, to Hooker Chemical Corporation. Molding box comprising pattern frame having internal lining strips. 3,773,100, 11-20-73, Cl. 164-237.000.
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Maxey, Edwin M.: *See—*
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Maxey, Edwin M.; and Harrington, John T., to General Tire & Rubber Company, The. Urethane foams containing halogen containing polymers and methods for preparing the same using certain catalysts. 3,718,611, 2-27-73, Cl. 260-2.5ae.
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Maxham, Daniel W. Open end roving, spinning, and spinning and twisting methods. 3,757,507, 9-11-73, Cl. 57-156.000.
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Maximov, Leonid Pavlovich: *See—*
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Maxon Industries, Inc.: *See—*
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Maxon, Rodney Robert; and Meise, Henry August, Jr., to Bell Telephone Laboratories, Incorporated. PBX Automatic number identification system. 3,725,596, 4-3-73, Cl. 179-18.0fh.
Maxson, Orwin, G., to Continental Oil Company. Method for insulating and lining a borehole in permafrost. 3,722,591, 3-27-73, Cl. 166-295.000.
Maxwell, Bert F.; Price, Donald A.; and Price, Harold A., to Julius Goldman's Egg City. Organic waste dryer apparatus. 3,744,145, 7-10-73, Cl. 263-68.000.
Maxwell, Bryce, to USM Corporation. Feed system. 3,712,783, 1-23-73, Cl. 425-381.200.
Maxwell, Donald Robert: *See—*
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Maxwell, Hugh S., to General Electric Company. Constant speed driven continuous rolling mill. 3,762,194, 10-2-73, Cl. 72-8.000.
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Maxwell, Klaton Bruce. Coffee maker for repetitively brewing single cups of fresh coffee. 3,759,162, 9-18-73, Cl. 99-289.000.
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Maxwell, Richard F., Jr.; and Tallet, Jose E. Synchronous gated active night sight. 3,761,180, 9-25-73, Cl. 356-152.000.
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May, Arnold, to Teves-Thompson GmbH. Rotary device for elements subjected to axial movement, particularly for valves in internal combustion engines. 3,710,768, 1-16-73, Cl. 123-90.300.



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May, Carl Jerome, Jr., to Bell Telephone Laboratories, Incorporated. Automatic transmission line testing system. 3,770,894, 11-6-73, Cl. 179-15.0bf.
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May, Clayton A., to Shell Oil Company. Curable aqueous mixture of (1) adduct of polyglycidyl ether and allylamine and (2) carboxylic acid. 3,719,626, 3-6-73, Cl. 260-29.2ep.
May, Clifford H.: *See—*
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May, Francis A., to Consolidation Coal Company. Insulated cable splice and method for making the same. 3,781,458, 12-25-73, Cl. 174-84.00c.
May, Franz; and Wendland, Broder, to Licentia Patent-Verwaltungs-G.m.b.H. Method for reducing the bandwidth of communication signals. 3,772,458, 11-13-73, Cl. 178-6.000.
May, Frederick T., to International Business Machines Corporation. Machine log system. 3,781,813, 12-25-73, Cl. 340-172.500.
May, Gerald L.; and Fulmer Scott, to Goodrich, B. F., Company, The. Door seal system. 3,747,275, 7-24-73, Cl. 49-477.000.
May, Harold Frederick: *See—*
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May, Joe C., to Superior Electric Company, The. Perforated tape reader. 3,752,959, 8-14-73, Cl. 235-61.11e.
May, Joe Cyril, to Superior Electric Company, The. Bi-directional energizing circuit for a stepping motor with means to prevent conduction in one coil until previously energized coil conduction is extinguished. 3,728,598, 4-17-73, Cl. 318-696.000.
May, John D. Tree moving apparatus. 3,775,876, 12-4-73, Cl. 37-2.00r.
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May, Oswald, to Klockner-Humboldt-Deutz Aktiengesellschaft. Method of and device for controlling multistage change gear transmissions. 3,741,035, 6-26-73, Cl. 74-745.000.
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May, Randall L., to Coleman Company, Inc., The. Adjustable catalytic heater and replaceable wick assembly therefor. 3,734,682, 5-22-73, Cl. 431-324.000.
May, Randall L., to Koleman Company, Inc., The. Cartridge package for a sanitary toilet. 3,746,159, 7-17-73, Cl. 206-56.00r.
May, Richard L., to Mattel, Inc. Figure toy stand and phonograph record combination. 3,720,011, 3-13-73, Cl. 40-28.200.
May, Richard L.; and Flicker, Alcwyn, to Mattel, Inc. Key mount for organ. 3,736,831, 6-5-73, Cl. 84-434.000.
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May, Robert E.; and Triplett, Benny L., to Burlington Industries, Inc. Lined textile fabric and method of manufacture. 3,748,217, 7-24-73, Cl. 161-159.000.
May, Sue C., to Superior Electric Company, The. Closed loop stepping motor control for a tape reader. 3,777,245, 12-4-73, Cl. 318-685.000.
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May, William E., to I-T-E Imperial Corporation. Pole synchronization test apparatus for multi-pole circuit breakers. 3,739,259, 6-12-73, Cl. 324-28.0cb.
May, Winston L., Jr. Woven, folded, reusable absorbent products and methods of making the same. 3,747,601, 7-24-73, Cl. 128-284.000.
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Mayala, Arne H., to Minnesota Mining and Manufacturing Company. Cartridge-type crimping tool. 3,707,867, 1-2-73, Cl. 72-410.000.
Mayall, William. Pressurized sealing means for a hydraulic turbodrill. 3,749,511, 7-31-73, Cl. 415-113.000.
Mayashi, Izuo, to Bell Telephone Laboratories, Incorporated. Double heterostructure junction lasers. 3,758,875, 9-11-73, Cl. 331-94.500.
Mayashi, Yoshimasa; and Etoh, Yukihiro, to Nissan Motor Company, Limited. Ignition timing change-over device. 3,717,135, 2-20-73, Cl. 123-117.00r.
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Mayberry, Lee G., to MayRich Specialty Company. Hood. 3,745,908, 7-17-73, Cl. 98-115.0lh.
Maycock, John Norman; and Witten, Louis, to Martin Marietta Corporation. Ammonium perchlorate with cocrystallized oxalate anions. 3,721,590, 3-20-73, Cl. 149-76.000.
Maycock, John Norman; and Witen, Louis, to Martin Marietta Corporation. Doped ammonium perchlorate oxidizers and method of preparing same. 3,729,352, 4-24-73, Cl. 149-74.000.
Maydan, Dan: *See—*
Gordon, Eugene Irving; and Maydan, Dan, 3,715,685.
Maydan, Dan; Cohen, Melvin Irwin; and Kerwin, Robert Eugene, to Bell Telephone Laboratories, Incorporated. Recording and display method and apparatus. 3,720,784, 3-13-73, Cl. 178-6.60r.
Mayeda, Wataru. Teaching apparatus. 3,729,836, 5-1-73, Cl. 35-6.000.
Mayell, Jaspal Singh, to American Cyanamid Company. Method of making a porous catalytic electrode. 3,715,238, 2-6-73, Cl. 136-120.0fc.
Mayer & Cie, Firma: *See—*
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Mayer, Adolf: *See—*
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Mayer, Bromley M.; and Trickel, Ralph J., to Knudsen Creamery Co. of California. Bakery additive and method. 3,737,327, 6-5-73, Cl. 99-91.000.
Mayer, Cornelius, to Werkzeugmaschinenfabrik Oerlikon-Buhrle A.G. Rocket projector magazines. 3,710,677, 1-16-73, Cl. 89-1.800.
Mayer, David P.: *See—*
Richter, Sidney B.; and Mayer, David P., 3,749,796.
Mayer, Dietmar; Sasse, Klaus; and Hermann, Gunther, to Farbenfabriken Bayer Aktiengesellschaft. Insecticidally, acaricidally and rodenticidally active 9-substituted acridines. 3,712,943, 1-23-73, Cl. 424-84.000.
Mayer, Edward A., to Texaco Inc. Automatic fuel dispensing nozzle. 3,770,029, 11-6-73, Cl. 141-128.000.
Mayer, Edward A., to Texaco Inc. Automatic fuel dispensing nozzle. 3,771,575, 11-13-73, Cl. 141-128.000.
Mayer, Edward A., to Texaco Inc. Automatic fuel dispensing nozzle. 3,771,577, 11-13-73, Cl. 141-209.000.
Mayer, Edward A., to Texaco Inc. Automatic fuel dispensing nozzle. 3,774,656, 11-27-73, Cl. 141-128.000.
Mayer, Edward H.: *See—*
Rauch, Stewart E., Jr.; and Mayer, Edward H., 3,752,169.
Mayer, Edward H.; Schunk, Frederick B.; and Rahn, Hilton N., to Bethlehem Steel Corporation. Very thin steel sheet and method of producing same. 3,772,091, 11-13-73, Cl. 148-12.000.
Mayer, Ehrhard; and Koch, Rudolf. Sealing assembly with pump device. 3,746,350, 7-17-73, Cl. 277-67.000.



Mayer, Ferdy. Parametric device for multiplying frequencies. 3,769,597, 10e30-73, Cl. 328-160.000.
Mayer, Francis K.; and Moritz, Karlsten H., to Esso Research and Engineering Company. Hydrodesulfurization of hydrocarbon residuum with catalytic oil slurry and fixed bed zones. 3,767,569, 10-23-73, Cl. 208-210.000.
Mayer, Frank, and Associates, Inc.: *See—*
Crosslen, Louis John, 3,722,699.
Mayer, Georg, to Mayer KG. Device for filling of containers, particularly bags, with loose material. 3,748,823, 7-31-73, Cl. 53-187.000.
Mayer, George L., Jr.; and Dobbins, David L., to Coded Signatures, Inc. Data encoding and decoding apparatus and method. 3,781,109, 12-25-73, Cl. 355-52.000.
Mayer, Gerald M.: *See—*
Johnson, Cameron D.; Mayer, Gerald M.; and Morency, Roger L., 3,729,980.
Mayer, Hans-Peter: *See—*
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Mayer, Herbert J.: *See—*
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Parker, Paul T.; and Mayer, Ivan, 3,778,489.
Mayer, James F.; and Weisz, Robert G., to Standard Oil Company. Hydraulic fracturing proppant composition and method for forming such proppants. 3,708,560, 1-2-73, Cl. 264-13.000.
Mayer, James R.; and Tipton, Joe D., to Gardner-Denver Company. Support means for mast mounted drill. 3,721,305, 3-20-73, Cl. 173-20.000.
Mayer, Johann; and Schmidt-Hellerau, Christof, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Wood adhesive. 3,734,918, 5-22-73, Cl. 260-29.300.
Mayer, Julius Robert: *See—*
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Mayer, Karl, to Maschinenfabrik Augsburg Nurnberg Aktiengesellschaft Werk Nurnberg. Crankshaft composed of a plurality of sections welded together. 3,768,335, 10-30-73, Cl. 74-597.000.
Mayer, Karl Heinrich; and Haberkorn, Axel, to Farbenfabriken Bayer Aktiengesellschaft. Nitrofurfurylideneamino derivative of octahydrobenzthiazine-1-dioxide and process for its preparation. 3,755,308, 8-28-73, Cl. 260-240.00a.
Mayer, Karl, Textilmaschinenfabrik G.m.b.H.: *See—*
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Mayer, Manfred: *See—*
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Mayer, Manfred; and Naydowski, Reinhard, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Automatic device for loading textile machine spindles. 3,729,915, 5-1-73, Cl. 57-53.000.
Mayer, Max: *See—*
Jaskulke, Gerhard; Mayer, Max; Lampe, Bernst; Giebler, Fritz; and Steigenberger, Hasso, 3,717,723.
Mayer, Mayer, Jr.; and Baril, Albert, Jr., to United States of America, Agriculture. Method for electrostatic yarn bulking and impregnating. 3,771,202, 11-13-73, Cl. 28-75.0wt.
Mayer, Mayer, Jr.; and Baril, Albert, Jr., to United States of America, Agriculture. Electrostatic yarn bulking apparatus. 3,775,814, 12-4-73, Cl. 28-1.200.
Mayer, Nathan. Bobbin runout signalling device. 3,732,834, 5-15-73, Cl. 112-219.00r.
Mayer, Nathan; and Lanes, Stanley S., to Bobbin Monitor Corporation. Bobbin changing mechanism method and product. 3,747,547, 7-24-73, Cl. 112-186.000.
Mayer, Nicholas. Bootjack. 3,734,364, 5-22-73, Cl. 223-116.000.
Mayer, Oscar, & Co., Inc.: *See—*
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Grindrod, Paul E.; Goller, Robert L.; and Seiferth, Oscar E., 3,713,849.
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Olson, Floyd C.; and Trautman, Jack C., 3,743,514.
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Seiferth, Oscar E.; and Austin, Glenn M., 3,730,739.
Mayer, Richard E.; Birenzvige, Amnon; and Weedon, Gene C., to Allied Chemical Corporation. Filament comprising a polymer blend of polyester and polyamide containing an organic phosphorus compound. 3,776,806, 12-4-73, Cl. 161-88.000.
Mayer, Richard Eugene, to Allied Chemical Corporation. Anthraquinone dyed nylon stabilized with butylidene bis(butyl cresol) and polyhydroxyethyl-octadecylamines. 3,716,328, 2-13-73, Cl. 8-165.000.
Mayer, Richard J.: *See—*
Kinberg, Benjamin; and Mayer, Richard J., 3,724,316.
Kinberg, Benjamin; and Mayer, Richard J., 3,761,343.
Mayer, Richard J.; and Kinberg, Benjamin. Acoustic phonographic apparatus. 3,746,346, 7-17-73, Cl. 274-9.00r.
Mayer, Richard W.: *See—*
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Mayer, Robert: *See—*
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Lerner, Julius; and Mayer, Robert, 3,766,623.
Mayer, Robert, to Sun Oil Company of Pennsylvania. Automatic blending control system. 3,751,644, 8-7-73, Cl. 235-151.120.
Mayer, Robert A., Jr. Boundary layer control means. 3,779,199, 12-18-73, Cl. 115-14.000.
Mayer, Rollin P.: *See—*
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Mayer, Rudolf: *See—*
Meyer, Herbert; Mayer, Rudolf; and Volkheimer, Lothar, 3,743,976.
Mayer, Rudolf; Sakautzki, Hans; and Volkheimer, Lothar, to Hopt Electronic GmbH. Tuning device for radio-frequency communications equipment. 3,750,031, 7-31-73, Cl. 325-452.000.
Mayer, Rudolf; and Mueller, Bernhard, to Hopt Electronic GmbH. UHF tuner having 70 detent positions with fine tuning at all positions. 3,760,640, 9-25-73, Cl. 74-10.600.
Mayer, Siegfried: *See—*
Haag, Robert; Haupt, Albert; and Mayer, Siegfried, 3,745,854.
Mayer, Siegfried; Janke, Bernhard; and Frach, Werner, to Aug/Winkhaus. Door or window with fluid-operated seal. 3,769,750, 11-6-73, Cl. 49-477.000.
Mayer, Warren C., to Johnson & Johnson. Resin bonded dry creped tissue laminate having the crepe removed therefrom and method of making same. 3,720,573, 3-13-73, Cl. 161-156.000.
Mayer, Warren C., to Johnson & Johnson. Method of forming tissue laminate. 3,772,124, 11-13-73, Cl. 156-324.000.
Mayer, William R.: *See—*
Little, Arthur J.; and Mayer, William R., 3,747,061.
Little, Arthur J.; and Mayer, William R., 3,768,158.
Mayer-Mader, Rudolf; and Dinges, Karl, to Bayer Aktiengesellschaft. Stabilized 2,3-dichloro-1,3-butadiene. 3,742,075, 6-26-73, Cl. 260-652.500.
Mayer-Rieckh, Michael, to Skischuhfabrik Dynafit GmbH. Footwear construction. 3,747,146, 7-24-73, Cl. 12-142.00r.
Mayerhofer, Franz, to Optische Werke G. Rodenstock. Weight-balancing arrangement at vertically displaceable instrument tables for ophthalonological apparatus or the like. 3,738,632, 6-12-73, Cl. 267-135.000.
Mayerle, Evan A., to Nalco Chemical Company. One-step method for the production of tri(N-buryl) lead imidazole. 3,766,198, 10-16-73, Cl. 260-299.000.
Mayernik, Andrew B.; Beckwith, Edwin F.; and Hubbard, Howard N., to United States Steel Corporation. Safely disconnectable flow limiter valves for a high pressure fluid line. 3,771,762, 11-13-73, Cl. 251-148.000.
Mayers, Harvey F., to Philco-Ford Corporation. Electron gun assembly having cathodes insulatively mounted in metallic plate. 3,732,450, 5-8-73, Cl. 313-70.00r.
Mayers, Joseph B.; and Kmonk, Stanley, to Westinghouse Electric Corporation. Fuel assembly for a nuclear reactor using zirconium alloy clad fuel rods. 3,719,560, 3-6-73, Cl. 176-78.000.
Mayers, Michael A. Ski sharpening vise. 3,719,008, 3-6-73, Cl. 51-228.000.
Mayes, Joseph F. Protective cover for fishing reel. 3,762,592, 10-2-73, Cl. 220-4.00b.
Mayes, Nathan; Green, Joseph E.; and Michaels, Ronald, to Thiokol Chemical Corporation. Cured nitrosofluorocarbon rubber. 3,725,374, 4-3-73, Cl. 260-92.100.
Mayes, Paul E., to JFD Electronics Corporation. Small, broadband, unidirectional antenna. 3,710,340, 1-9-73, Cl. 343-725.000.
Mayes, Paul E.; and Poggio, Andrew J. Wire antenna multiply-loaded with active element impedances. 3,716,867, 2-13-73, Cl. 343-701.000.
Mayeur, Eugene: *See—*
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Mayhew, Antony James; and Cheale, Leonard Frederick, to Marconi Company Limited, The. Apparatus for the manufacture of printed circuits. 3,734,616, 5-22-73, Cl. 355-89.000.
Mayhew, Donald J., to Ramsey Corporation. Oil control piston ring. 3,741,569, 6-26-73, Cl. 277-140.000.
Mayhew, William K.; and Disbrow, Wendell E., to Gould Inc. Extruded contact electric heater strip. 3,739,147, 6-12-73, Cl. 219-535.000.



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Sokolsky, Dmitry Vladimirovich; Zakumbaeva, Gaukhar Dau- Mazzi, Aramis, to Solis S.r.l. Pneumatic knit fabric tensioning
zoldt, Klaus, to Behringwerke Aktiengesellschaft. Intramuscular vaccination program and vaccine against rhinopneumonitis and

Maykemper, Alfred: *See—*
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Mayle, Alfred J., to Computer Power Systems Inc. High speed switching circuit for driving a capacitive load. 3,780,339, 12-18-73, Cl. 315-27.0td.
Mayline Company, Inc.: *See—*
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Maymo Figueras, Juan. Process for the preparation of dyeing pigments. 3,761,297, 9-25-73, Cl. 106-289.000.
Maynard, Derek J.: *See—*
Cuintal, Bertram S.; and Maynard, Derek J., 3,745,396.
Maynard, Fred B., to Motorola, Inc. Electronic musical instrument. 3,764,721, 10-9-73, Cl. 84-1.240.
Maynard, George A., to Textron, Inc. Nail package improvements for interconnecting the trailing nail of one nail package with the leading nail of another nail package. 3,768,124, 10-30-73, Cl. 24-81.0cc.
Maynard, George A., to Textron, Inc. Pneumatically activated nail driving device. 3,773,239, 11-20-73, Cl. 227-130.000.
Maynard, Harry; and Boot, Roy Desmond, to Hawker Siddeley Aviation Limited. Aircraft. 3,765,626, 10-16-73, Cl. 244-129.00d.
Maynard, James G.; and Brown, George F., to Krispin Engineering Limited. Refrigeration unit. 3,712,078, 1-23-73, Cl. 62-448.000.
Maynard, John T. DC motor speed control with motor voltage and current sensing means. 3,716,771, 2-13-73, Cl. 318-331.000.
Maynard, Kenneth B.; and Paulson, Thomas M., to International Business Machines Corporation. Apparatus and method for making multiple ply sets. 3,768,801, 10-30-73, Cl. 270-53.000.
Maynard, Lawrence A., to Canada, Her Majesty the Queen in the right of, as represented by the Minister of National Defence. Electrically steerable aircraft mounted antenna. 3,737,906, 6-5-73, Cl. 343-705.000.
Mayne, William H.; and Quay, Roy G., to Petty Geophysical Engineering Company. Method of polarity determination of marine hydrophone streamers. 3,713,084, 1-23-73, Cl. 340-7.00r.
Mayne, William H., to Petty Geophysical Engineering Company. Method for applying moveout corrections. 3,757,304, 9-4-73, Cl. 340-155.0td.
Mayne, William Harry: *See—*
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Mayne, William Harry, to Petty Geophysical Engineering Company. Apparatus for the attenuation of noise from underwater seismic sources. 3,739,869, 6-19-73, Cl. 181-.50h.
Maynem, James D., to Symons Corporation. Grove-forming pattern assembly for a concrete wall form structure. 3,754,729, 8-28-73, Cl. 249-40.000.
Mayo, Arthur John: *See—*
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Mayo, Frank H.: *See—*
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Mayo, Frederick W.; Spires, Billy G.; and Bockelman, William M., to Burners, Inc. Apparatus for heating localized areas of pipe. 3,776,689, 12-4-73, Cl. 432-183.000.
Mayo, Henry C., to United States of America, Army. Explosive embedment anchor projectile. 3,731,646, 5-8-73, Cl. 114-206.00a.
Mayo, Henry C., to United States of America, Army. Explosively embedded anchor. 3,732,841, 5-15-73, Cl. 114-206.00a.
Mayo, Kenneth E.: *See—*
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Mayo, Kenneth E.; and Fitzgerald, Joseph J., to Sanders Nuclear Corporation. Isotopic thermal power source. 3,708,268, 1-2-73, Cl. 29-182.500.
Mayo, Kenneth E.; and Fretague, William J., to Sanders Nuclear Corporation. Internally moderated heat sources and method of production. 3,725,663, 4-3-73, Cl. 250-106.00s.
Mayo, Marvin J., to Altair Scientifics, Inc. Apparatus for controlled lapping of optical surfaces to correct deviations from desired contours. 3,735,534, 5-29-73, Cl. 51-57.000.
Mayo, Marvin J., to Altair Scientifics, Inc. Optical contour scanner. 3,736,060, 5-29-73, Cl. 356-124.000.
Mayo, Marvin J., to Altair Scientifics, Inc. Method for controlled lapping of optical surfaces to correct deviations from desired contours. 3,769,762, 11-6-73, Cl. 51-284.000.
Mayo, Terry H., to Murphy, G. W., Industries, Inc. Drill bit bearings. 3,721,307, 3-20-73, Cl. 175-372.000.
Mayo, Victor S., to Lee, Raymond, Organization, Inc., The. Apparatus for teaching writing. 3,740,872, 6-26-73, Cl. 35-37.000.
Mayo, William E.; and Gottlieb, Joel B., to M & T Chemicals Inc. Vinyl halide polymers stabilized with two organotin compounds. 3,769,263, 10-30-73, Cl. 260-45.75k.
Mayo, William Harold; Winters, Arthur Burnett; Davis, James Bradley, Jr.; Edenfield, Harrison; and Gainous, Aubrey Cornelius, to Campbell Soup Company. Plant harvesting machine. 3,743,024, 7-3-73, Cl. 171-61.000.
Mayr, Anton; Wagener, Kurt; Adolf, Johann Ditrich; Pette, Heinrich; deceased (by Pette, Christiane Wilhelmine; co-heiress); and Petzoldt, Klaus, to Behringwerke Aktiengesellschaft. Intramuscular vaccination program and vaccine against rhinopneumonitis and rocess for preparing it. 3,725,542, 4-3-73, Cl. 424-89.000.
Mayr, Anton J.; and Baum, Sidney J., to Foster Grant Co., Inc. Apparatus for stretching plastic sheet material. 3,744,106, 7-10-73, Cl. 26-54.000.
Mayr, Helmut; Huber, Theodor; and Pelte, Richard, to Agfa-Gevaert Aktiengesellschaft. Automatic diaphragm control circuit for a motion picture camera. 3,768,893, 10-30-73, Cl. 352-91.000.
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Smith, Thomas R., 3,736,775.
Smith, Thomas R., 3,738,130.
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Maytag, John Hardy, to Coors Container Company. Air spring cylinder assemblies. 3,759,142, 9-18-73, Cl. 91-396.000.
Maytay, Joseph A. Gear treatment apparatus. 3,766,688, 10-23-73, Cl. 51-89.000.
Mayusumi, Tatsuki: *See—*
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Mayuzumi, Harutaka; Shinoda, Motoyuki; and Akizuki, Kosuke, to Isuzu Motors Limited. Shaving method and shaving cutter. 3,724,046, 4-3-73, Cl. 29-104.000.
Mayworm, Daniel E.; and Rohde, William A., to Tower Products, Inc. Method for producing plastic flexible containers having peelable seals. 3,717,533, 2-20-73, Cl. 156-244.000.
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Fitzsimons, Alan R.; and Mazac, Frank P., 3,746,795.
Mazac, Frank P.; and Fitzsimons, Alan R., to San/Bar Corporation. Ground start adapter unit. 3,721,768, 3-20-73, Cl. 179-16.00f.
Mazanek, Alfonso J.: *See—*
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Mazdiyasni, Khodabakhsh; Brown, Leanne M.; and Lynch, Charles T., to United States of America, Air Force. Lanthanide isopropoxides and preparation of same. 3,757,412, 9-11-73, Cl. 29-429.200.
Mazdiyasni, Khodabakhsh S.; Schaper, Barbara J.; and Brown, Leanne M., said Schaper and said Brown assors. to United States of America, Air Force. Preparation of hexafluoroisopropoxides of aluminum and group IV elements. 3,775,453, 11-27-73, Cl. 260-429.00.
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Mazelsky, Bernard, to ARA Inc. Construction for safety air cushion system. 3,708,181, 1-2-73, Cl. 280-150.0ab.
Mazelsky, Bernard. Construction for safety air cushion system comprising dual bags, nozzle, and air aspiration. 3,767,225, 10-23-73, Cl. 280-150.01b.
Mazer, Edward. Portable press assembly. 3,711,925, 1-23-73, Cl. 29-252.000.
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Mazor, Sylvester S., to TRW Inc. Steering system with integral shock damper. 3,779,575, 12-18-73, Cl. 280-95.00r.
Mazuela, Jose Luis Pemjean. Game employing tiltable game board and movable ball and rings. 3,752,480, 8-14-73, Cl. 273-109.000.
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Mazur, Joseph N.; Ratkay, Edward J.; and Hodgson, Robert F., to Commercial Shearing & Stamping Company. Sectional control valves. 3,722,540, 3-27-73, Cl. 137-596.000.
Mazur, Thomas, to Motorola, Inc. Light sensitive gating of trial near or at zero crossing point. 3,777,188, 12-4-73, Cl. 307-311.000.
Mazur, Yehuda; and Karger, Michael H., to Yeda Research and Development Co., Ltd. Carbyloxy-methylene-sulfonates, their preparation and use in syntheses. 3,737,447, 6-5-73, Cl. 260-456.00r.
Mazurek, Edward A., to Arctic Enterprises Inc. Snowmobile track. 3,758,170, 9-11-73, Cl. 305-35.0eb.
Mazza, Jorge Aurelio. Reactive triazine azo dyestuffs. 3,709,869, 1-9-73, Cl. 260-153.000.
Mazza, Lamberto, to Industrie A. Zanussi S.p.A. Dish-washer. 3,718,149, 2-27-73, Cl. 134-57.00d.
Mazza, Lamberto, to Kantor International S.A. Household electric machine for brewing and dispensing beverages. 3,719,505, 3-6-73, Cl. 99-275.000.
Mazza, Lamberto, to Industrie A. Zanussi S.p.A. Method and apparatus for transferring commands from the control site to the recording site in closed loop television installations. 3,752,907, 8-14-73, Cl. 178-5.600.
Mazza, Lamberto, to Industrie A. Zanussi S.p.A. Safety device against radiation leakage from microwave apparatus. 3,753,003, 8-14-73, Cl. 307-117.000.
Mazza, Lamberto, to Industrie A. Zanussi S.p.A. Device for the production of carbonated beverages. 3,765,318, 10-16-73, Cl. 99-275.000.
Mazzanti, Giorgio: *See—*
Natta, Giulio; Pino, Piero; and Mazzanti, Giorgio, 3,715,344.
Mazzarella, Louis: *See—*
Ciampa, Fred A.; Serafini, Angelo; and Mazzarella, Louis, 3,754,744.
Mazzarins, Janis, to General Motors Corporation. Suspension system for crawler tractor. 3,718,199, 2-27-73, Cl. 180-9.20r.
Mazzarins, Janis, to General Motors Corporation. Steering mechanism for articulated vehicle. 3,773,134, 11-20-73, Cl. 180-79.20b.
Mazzarins, Janis, to General Motors Corporation. Steering mechanism for articulated vehicle. 3,773,135, 11-20-73, Cl. 180-79.20b.
Mazzei, Alessandro: *See—*
Cucinella, Salvatore; and Mazzei, Alessandro, 3,711,455.
Cucinella, Salvatore; and Mazzei, Alessandro, 3,773,734.
Mazzei, Marcello: *See—*
Fattore, Vittorio; Milanese, San Donato; Mazzei, Marcello; and Notari, Bruno, 3,764,635.
Mazzenga, Anthony, to Garan, Incorporated. Design coding for coordinated garment sets. 3,775,775, 12-4-73, Cl. 2-80.000.
Mazzeo, Michael P.; and Santaniello, Anthony F., to Thiokol Chemical Corporation. Polyurethanes based on a polyester prepared from azelaic acid, dimer acid and lower alkane glycols. 3,714,092, 1-30-73, Cl. 260-22.0tn.
Mazzeo, Michael P.; Gobran, Riad H.; Santaniello, Anthony F.; and Gillis, Marina N., to Thiokol Chemical Corporation. One-package heat-curable urethane polymer casting composition. 3,721,647, 3-20-73, Cl. 260-45.70r.
Mazzetti, Mark S.: *See—*
Lit, Harry B.; and Mazzetti, Mark S., 3,723,823.
Mazzi, Aramis, to Solis S.r.L. Shearing device for circular knitting machines. 3,714,800, 2-6-73, Cl. 66-147.000.
Mazzi, Aramis, to Solis S.r.l. Pneumatic knit fabric tensioning devices for use with circular knitting machines. 3,738,123, 6-12-73, Cl. 66-149.00s.
Mazzochi, Roger W.; and Postlethwait, James A., to United States of America, Army. High-precision variable radio frequency coil. 3,764,947, 10-9-73, Cl. 336-136.000.
Mazzola, Russell E.; and Fucci, Nicola J. Outdoor deep fryer. 3,714,889, 2-6-73, Cl. 99-411.000.
Mazzone, Charles P.; and Pike, Herbert J., to Stevens, J. P., & Co., Inc. Process for producing sculptured effects on thermoplastic pile fabrics. 3,729,784, 5-1-73, Cl. 26-2.00r.
Mazzone, Charles P. Process and apparatus for texturizing yarn. 3,780,404, 12-25-73, Cl. 28-1.300.
Mazzoni, Carl. Apparatus for pressure rolling soaps and similar products. 3,741,702, 6-26-73, Cl. 425-201.000.
Mazzotti, Peter Charles, to Streeters Plant Hire Limited. Tunnelling machines. 3,711,159, 1-16-73, Cl. 299-33.000.
Mazzucco, Dario A.: *See—*
Agati, Roberto A.; Castoldi, Fabrizio O.; and Mazzucco, Dario A., 3,757,191.
Mazzur, Richard P.: *See—*
Elliott, Charles G.; and Mazzur, Richard P., 3,778,291.
MB Associates: *See—*
Cochran, David L.; and Salter, Steven J., 3,717,068.
Dettling, Joseph R.; Farnham, John F., Jr.; and Gaines, Stephen T., 3,771,152.
Mainhardt, Robert; and Cammorata, Joseph J., 3,717,069.
Mawhinney, Robert C., 3,710,720.
Mawhinney, Robert C., 3,762,329.
Mulich, Stephen F.; and Sweeney, James A., 3,728,809.
MBT Corporation: *See—*
Misch, Robert D.; and Daus, Donald A., 3,707,751.
Misch, Robert D.; and Daus, Donald A., 3,708,225.
Misch, Robert D.; and Daus, Donald A., 3,732,620.
Mc Adam, William E., Jr.: *See—*
Marasco, Paul M.; Frohock, Millard M., Jr.; and Mc Adam, William E., Jr., 3,743,818.
Mc Aulffe, Gerald K., to International Business Machines Corporation. Transversal filter equalizer for partial response channels. 3,736,414, 5-29-73, Cl. 235-181.000.
Mc Bride, Lemuel R.: *See—*
Wehr, Robert L.; Rearick, Edward W., Jr.; and Mc Bride, Lemuel R., 3,770,266.
Mc Bride, Morris M. Mat cutting apparatus. 3,768,357, 10-30-73, Cl. 83-438.000.
Mc Burnett, Arthur D., to Hustler Industries, Inc. Apparatus and method for washing trucks and busses. 3,764,383, 10-9-73, Cl. 134-6.000.
Mc Cabe, John S., to Chicago Bridge & Iron Company. Underwater tanker ballast water/oil separation. 3,762,548, 10-2-73, Cl. 210-170.000.
Mc Cabe, Ralph P., to Chandler Evans Inc. Fuel control. 3,712,055, 1-23-73, Cl. 60-39.280.
Mc Call, Richard J. Mailing folder. 3,712,531, 1-23-73, Cl. 229-40.000.
Mc Callum, Donald A., to International Harvester Company. Material spreader with rotary flail structures. 3,764,077, 10-9-73, Cl. 239-674.000.
Mc Cann, Farrell A., to Northrop Corporation. Plural beam electron beam scanner utilizing a modulation grid. 3,708,713, 1-2-73, Cl. 315-12.000.
Mc Cann, Farrell A., to Northrop Corporation. Charged particle beam scanning apparatus with video switching network. 3,723,800, 3-27-73, Cl. 315-12.000.
Mc Carrick, Terence E., to Black Clawson Company, The. Water saveall for grooved roll in paper machine press nip. 3,775,243, 11-27-73, Cl. 162-272.000.
Mc Carthy, Stanley: *See—*
Gibbon, John D.; and Mc Carthy, Stanley, 3,736,819.
Mc Carty, William J., to General Electric Company. Air conditioner. 3,720,073, 3-13-73, Cl. 62-183.000.
Mc Caskill, John W.: *See—*
Herd, David P.; Mc Caskill, John W.; and Bonds, James V., 3,741,589.
Mc Casland, Thomas A.: *See—*
Parker, Joe B.; and Mc Casland, Thomas A., 3,738,388.
Mc Caully, Ronald J., to American Home Products Corporation. Preparation of intermediates for the preparation of 1,3-dihydro-2H-1,4-benzodiazepin-1-ones. 3,763,171, 10-2-73, Cl. 260-295.0pa.
Mc Cleskey, Francis R.: *See—*
Talley, James C.; Grace, Fred I.; and Mc Cleskey, Francis R., 3,757,694.
Mc Cloud, Chester V. Right and left hand lawn edger-trimmer. 3,743,028, 7-3-73, Cl. 172-15.000.
Mc Clure, Charles A. Reinforced abrasive wheels. 3,716,950, 2-20-73, Cl. 51-206.0nf.
Mc Collum, Robert F. Null-balance regulator valve. 3,767,160, 10-23-73, Cl. 251-61.000.



Mc Connell, Frederick C.; Jason, George; and Armstrong, Neil J., to Spartan Air Services Limited. Aerial survey. 3,765,770, 10-16-73, Cl. 356-32.000.
Mc Gunigle, Richard D., to RdF West. Automatically adjustable radioactive radiation detector. 3,714,806, 2-6-73, Cl. 73-1.00r.

Mc Connell, Frederick C.; Jason, George; and Armstrong, Neil J., to Spartan Air Services Limited. Aerial survey. 3,765,770, 10-16-73, Cl. 356r152.000.
Mc Connell, Howard M.; and Zeewy, Abraham, to Harris-Intertype Corporation. Hoist static control. 3,725,756, 4-3-73, Cl. 318-237.000.
Mc Cord, Robert S.; Nail, Donald H.; and Sheratte, Martin B., to McDonnell Douglas Corporation. Functional fluid compositions of increased fire resistance. 3,730,898, 5-1-73, Cl. 252-78.000.
Mc Cormick, Harold E.: *See—*
Prasse, Herbert F.; and Mc Cormick, Harold E., 3,725,017.
Prasse, Herbert F.; and Mc Cormick, Harold E., 3,762,728.
Mc Cormick, Michael R.: *See—*
Cullen, William F.; Holub, Fred F.; and Mc Cormick, Michael R., 3,736,457.
Mc Cornell, John F.: *See—*
Pecoraro, George A.; Mc Cornell, John F.; and Knavish, Leonard A., 3,734,701.
Mc Coy, Charles S., to Chevron Research Company. Dimethylsulfide removal in the isomerization of normal paraffins. 3,760,029, 9-18-73, Cl. 260-683.680.
Mc Coy, John J., to General Electric Company. Apparatus for producing $UO_3$ powder. 3,734,694, 5-22-73, Cl. 23-262.000.
Mc Cree, Alan Collis: *See—*
Fiorentino, Arthur A.; and Mc Cree, Alan Collis, 3,752,198.
Mc Crillis, Raymond L.; Fuller, Walter T.; Dixon, Richard H.; and Oldani, John F., to Marsor Housing Systems, Incorporated. Fire barrier system for multi-family dwellings. 3,757,477, 9-11-73, Cl. 52-79.000.
Mc Culloch Corporation: *See—*
Frederickson, Robert Eugene, 3,768,611.
Mc Cullough, Wilfred W., to Whirlpool Corporation. Refrigeration apparatus condensation prevention means. 3,732,705, 5-15-73, Cl. 62-275.000.
Mc Curry, Morris H., to TRW Inc. Brushless direct current motor including resonant circuits and differential amplifier for controlling commutation. 3,714,532, 1-30-73, Cl. 318-254.000.
Mc Dermott, John M.: *See—*
Nay, Harvey O.; Okamoto, Frank S.; Head, Robert E.; Moore, Richard E.; and Mc Dermott, John M., 3,744,743.
Ritchey, Harold W.; and Mc Dermott, John M., 3,765,177.
Mc Dermott, Richard L., to Airco, Inc. Reactivated low temperature adsorber system with a non-adsorbing cold accumulator. 3,718,005, 2-27-73, Cl. 62-13.000.
Mc Donald, Louis. Detergent compositions containing silica colloids. 3,708,428, 1-2-73, Cl. 252-109.000.
Mc Donald, William C., to Cambridge Thermionic Corporation. Stepping motor drive circuit providing collapsing field energy storage. 3,748,554, 7-24-73, Cl. 318-138.000.
Mc Donough, Thomas B.; and Shaffer, John W., to GTE Sylvania Incorporated. Photographic flashlamp unit with flashed lamp indicator and method of making same. 3,718,815, 2-27-73, Cl. 240-1.300.
Mc Dougal, Allan R.: *See—*
United States of America, National Aeronautics and Space Administration, 3,737,181.
Mc Elderry, Charles E. Device for shearing a felled tree. 3,707,895, 1-2-73, Cl. 83-623.000.
Mc Eowen, James Royce; Opferman, David Clement; and Smith, Robert McKee, to Bell Telephone Laboratories, Incorporated. Translator memory decoding arrangement for a microprogram controlled processor. 3,748,649, 7-24-73, Cl. 340-172.500.
Mc Erlane, James F.: *See—*
Ambrose, William J.; and Mc Erlane, James F., 3,752,197.
Mc Ewen, John C., to General Motors Corporation. Clamp for a member with an internal flange. 3,766,812, 10-23-73, Cl. 82-40.00r.
Mc Farland, Harold L., Jr.: *See—*
Cohen, John B.; Janson, Paul E.; Mc Farland, Harold L., Jr.; and Young, James B., Jr., 3,710,324.
Mc Farland, James D., Jr., to Edelbrock Equipment Company. Intake manifold for internal combustion engines having a sudden enlargement in the flow path of each runner. 3,744,463, 7-10-73, Cl. 123-52.0mv.
Mc Farland, James W., to Pfizer Inc. 3-(Hydroxy-phenyl) substituted amidines and derivatives thereof as anthelmintic agents. 3,708,584, 1-2-73, Cl. 424-251.000.
Mc Farlin, Stanley B.: *See—*
Porter, Robert J.; and Mc Farlin, Stanley B., 3,741,675.
Mc Figgans, Robert B.; and Jones, Howell A., Jr., to Pitney-Bowes, Inc. Apparatus for selectively formatting serial data bits into separate data characters. 3,742,456, 6-26-73, Cl. 340-172.500.
Mc Gann, Laurence: *See—*
Osheroff, Gene W.; and Mc Gann, Laurence, 3,722,813.
Mc Glynn, James J., to Lukens Steel Company. Method of using and removing a parting compound. 3,735,477, 5-29-73, Cl. 29-470.900.
Mc Glynn, Walter J. Shoulder strap retainer. 3,710,391, 1-16-73, Cl. 2-2.000.
Mc Gunigle, Richard D., to RdF West. Automatically adjustable radioactive radiation detector circuit. 3,715,593, 2-6-73, Cl. 250-83.60r.
Mc Hugh, James Dennis, to General Electric Company. Self-pressurizing seal for rotary shafts. 3,770,179, 11-6-73, Cl. 277-2.000.
Mc Inerny, George P., to Pennsylvania Research Associates, Inc. Mechanism for feeding, separating and stacking sheets. 3,771,783, 11-13-73, Cl. 271-125.000.
Mc Intire, Owen F. Car top carrier for snowmobiles and the like. 3,720,358, 3-13-73, Cl. 224-42.080.
Mc Jones, Robert W. Charging sequence system and process. 3,719,196, 3-6-73, Cl. 137-110.000.
Mc Junkin, Howard P., Jr., to Hurst Performance Inc. Stabilizing means for spring-mounted chassis of wheeled vehicles. 3,711,079, 1-16-73, Cl. 267-1.00r.
Mc Kay, Robert H., to Steelcase Inc. Hinge for knockdown cabinet. 3,733,651, 5-22-73, Cl. 16-178.000.
Mc Kay, Tom W.: *See—*
Lawrence, Walter W., Jr.; Mc Kay, Tom W.; and Wiegand, Karl E., 3,770,796.
Mc Kean, Alexander L., to Phelps Dodge Copper Products Corporation. Filter circuit for corona detection. 3,739,272, 6-12-73, Cl. 324-54.000.
Mc Kee, Arthur G., & Company: *See—*
Pavilon, Stanley J., 3,717,200.
Mc Kee, James E., to Republic National Bank of Dallas, Irving Trust Company and Union Bank, mesne. Powered roller mechanism. 3,712,454, 1-23-73, Cl. 198-127.00r.
Mc Kee, Robert B.: *See—*
Manning, Lindley; Mc Kee, Robert B.; Zemke, Hubert; and Douglas, Bruce M., 3,740,301.
Mc Keen, Leighton R.: *See—*
Champney, Rodney W.; Mc Keen, Leighton R.; and Breck, Louis William Jr., 3,763,802.
Mc Keown, James E.; Gregoire, Stephen E.; and Michel, Donald E., to Bendix Corporation, The. Hermaphroditic electrical contact. 3,725,844, 4-3-73, Cl. 339-49.00r.
Mc Killip, William J.: *See—*
Culbertson, Billy M.; Mc Killip, William J.; and Sedor, Edward A., 3,756,994.
Mc Kinney, Joel D.: *See—*
Bryson, Millard C.; Mc Kinney, Joel D.; Titmus, Robert A.; and White, Frederick K., 3,775,287.
Mc Kinney, Richard W.; Katchka, Jay R.; and Hendrick, Fred W., to Robertshaw Controls Company. Fluid flow control device with baffles. 3,762,681, 10-2-73, Cl. 251-61.100.
Mc Kinney, Ross E., to Air Products and Chemicals, Inc. Activated sludge process and system. 3,724,667, 4-3-73, Cl. 210-195.000.
Mc Laren, Richard H. Method and device for locating a foreign body in human eye. 3,711,712, 1-16-73, Cl. 250-59.000.
Mc Laughlin, Donald L.: *See—*
Greene, Richard M.; Mc Laughlin, Donald L.; and Paivinen, John O., 3,737,879.
Mc Laughlin, Paul F.: *See—*
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Mc Lean, Daniel C.: *See—*
Shaler, Amos J.; and Mc Lean, Daniel C., 3,713,542.
Mc Leod, Wilfred R.: *See—*
Gassett, Paul L.; and Mc Leod, Wilfred R., 3,765,463.
Mc Leod, Winford Newton. Lightweight container means. 3,767,036, 10-23-73, Cl. 206-16.00r.
Mc Mahon, Matthew A., to Texaco Inc. Process of producing ortho-aminophenol. 3,711,551, 1-16-73, Cl. 260-575.000.
Mc Mahon, Maurice T., Jr., to International Business Machines Corporation. Testing of metallization networks on insulative substrates supporting semiconductor chips. 3,746,973, 7-17-73, Cl. 324-51.000.
Mc Mahon, Roy C., to Electrostatic Equipment Co. Method of removing oil from engine coolant. 3,769,188, 10-30-73, Cl. 204-186.000.
Mc Mann, Renville H.: *See—*
Smith, Clyde W.; and Mc Mann, Renville H., 3,735,026.
Mc Master, Arnold L.: *See—*
Aoki, Kenneth K.; and Mc Master, Arnold L., 3,748,281.
Mc Master, James E.: *See—*
Matter, Theodore S.; and Mc Master, James E., 3,721,582.
Mc Math, Jack A., to Dover Corporation. Safety valve. 3,720,220, 3-13-73, Cl. 137-75.000.
Mc Murtrie & Hamrick Enterprises: *See—*
Hamrick, James Saunders, 3,710,452.
Mc Namee, James W., to General Motors Corporation. Lamp failure indicating apparatus. 3,735,378, 5-22-73, Cl. 340-251.000.
Mc Neill, John D.: *See—*
Carcia, Leslie C.; Mc Neill, John D.; Papanastastou, Theodore A.; Howers, Norman K.; and Tjonpiangi, William E., 3,748,650.
Mc Pherson, Gary C., to Honeywell Inc. Unitized plated wire memory plane. 3,710,355, 1-9-73, Cl. 340-174.0pw.
Mc Quown, Albert N., Jr., to Annandate, Inc. Security signalling with alarm identification. 3,760,359, 9-18-73, Cl. 340-164.00r.



Mc Smith, Dwight G. Periodic table display device. 3,724,098, 4-3-73, Cl. 35-18.00r.
Mc Spadden, Hugh J.: *See—*
Marion, Frank A.; and Mc Spadden, Hugh J., 3,714,047.
Mc Sparran, Ray A.: *See—*
Abraham, Dennis G.; Grenchus, Paul P.; and Mc Sparran, Ray A., 3,736,488.
Mc Taggart, James E., to Teledyne, Inc. Color emphasis circuit for TV receivers. 3,715,472, 2-6-73, Cl. 178-5.4he.
Mc Vean, Duncan E.; and Tuerck, Paul A., to Richardson-Merrell Inc. Antifoam preparations and method of preparing same. 3,767,794, 10-23-73, Cl. 424-157.000.
MCA Inc.: *See—*
Widmer, J. Arthur; and Stumpf, Richard J., 3,743,416.
McAdam, William E., Jr.: *See—*
Frohock, Millard M., Jr.; and McAdam, William E., Jr., 3,739,152.
McAdams, Arthur C., Jr.: *See—*
Hurley, Thomas P.; and McAdams, Arthur C., Jr., 3,717,487.
McAdams, Arthur C., Jr.; and Tomaselli, Vincent A., to Sprague Electric Company. Monolithic capacitor having corner internal electrode terminations. 3,740,624, 6-19-73, Cl. 317-258.000.
McAfee, Darrell F., to De Laval Turbine, Inc. Differential pressure switch with pivoted one-piece rigid flat switch-actuating disc member captured between two rolling diaphragms. 3,752,942, 8-14-73, Cl. 200-83.00y.
McAfee, John G.; Mozley, James M.; and Stabler, Edward P. Tomographic radioisotopic imaging with a scintillation camera. 3,714,429, 1-30-73, Cl. 250-61.500.
McAfee, Loyd O.: *See—*
Bohannon, James P.; and McAfee, Loyd O., 3,719,346.
McAfee, Loyd O. Automotive wheel suspension ball joint tongs. 3,736,816, 6-5-73, Cl. 81-3.00r.
McAfee, Richard J., to United States Steel Corporation. Mixer ladle structure. 3,730,506, 5-1-73, Cl. 266-39.000.
McAinsh, Kenneth Gordon: *See—*
Lamb, Edward Lawrence; McAinsh, Kenneth Gordon; and Smith, Ralph David, 3,709,589.
McAinsh, Kenneth Gordon; Smith, Ralph David; and Lamb, Edward Lawrence. Electrically-operated display devices. 3,765,010, 10-9-73, Cl. 340-27.0na.
McAlexander, Robert L.; and Stout, Lilburn G., to United States of America, Navy. System for accurately increasing the range of gun projectiles. 3,758,052, 9-11-73, Cl. 244-314.000.
McAlister, Bernice: *See—*
Miller, Clarence O.; Welch, Floyd; and McAlister, Charles G., 3,721,632.
Wadsworth, Francis T.; and McAlister, Charles G., 3,758,619.
McAlister, Charles G.: *See—*
Miller, Clarence O.; Welch, Floyd; and McAlister, Charles G., 3,721,632.
Wadsworth, Francis T.; and McAlister, Charles G., 3,758,619.
McAlister, Craig L., to McGraw-Edison Company. Protector for electric circuits. 3,728,657, 4-17-73, Cl. 337-17.000.
McAlister, Roy E.; and McAlister, Theodore J., Jr. Propulsion system. 3,756,086, 9-4-73, Cl. 73-84.000.
McAlister, Roy E. Continuous casting apparatus with temperature control. 3,756,306, 9-4-73, Cl. 164-283.000.
McAlister, Theodore J., Jr.: *See—*
McAlister, Roy E.; and McAlister, Theodore J., Jr., 3,756,086.
McAllister, Jack G., to Centuri Engineering Company, Inc. Launching pad assembly for miniature rockets. 3,736,836, 6-5-73, Cl. 89-1.814.
McAllister, Jack G., to Centuri Engineering Company, Inc. Igniter. 3,741,120, 6-26-73, Cl. 102-34.000.
McAllister, LeRoy; and Citek, Francis J., to Standard Oil Company. Method for increasing a refinery's capacity for processing metals-containing residual-type hydrocarbons. 3,717,569, 2-20-73, Cl. 208-92.000.
McAllister, Owen E., to Morgan Company. Door light unit. 3,760,543, 9-25-73, Cl. 52-397.000.
McAlonie, Robert Francis; Sautter, Helmuth Otto; and Trimble, David Carlaw, to Bell Telephone Laboratories, Incorporated. Tone ringer. 3,740,490, 6-19-73, Cl. 179-84.0vf.
McAlpine, Charles H.; and McGowan, Kenneth G., to Mac Engineering & Equipment Co. Transfer mechanism for battery grids. 3,741,365, 6-26-73, Cl. 198-27.000.
McAlpine, Ernest, to Burgess Micro Switch Company Limited. Operating members for snap-action switches. 3,731,031, 5-1-73, Cl. 200-172.00r.
McAlpine, Ian: *See—*
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McAlvain, William L.: *See—*
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McAnally, Milton Beasley, to Scovill Manufacturing Company. Tire valve core. 3,712,328, 1-23-73, Cl. 137-234.500.
McAnally, William J., III, to United Aircraft Corporation. Particle and moisture separator for engine inlet. 3,766,719, 10-23-73, Cl. 55-306.000.
McAndrew, Francis Borgia, to Celanese Corporation. Process for preparing non-tacky couples oxymethylene copolymers. 3,766,298, 10-16-73, Cl. 260-858.000.
McArdle, John J.; and Rauch, Robert L., to RCA Corporation. High voltage hold down circuit. 3,767,963, 10-23-73, Cl. 315-20.000.
McArthur, Colin S.: *See—*
Beard, Hoyt S.; Payne, Leslie E.; and McArthur, Colin S., 3,779,849.
McArthur, John Norrie. Microscope with selectively operable illuminating and viewing means. 3,736,041, 5-29-73, Cl. 350-87.000.
McAshan, Robert B., Jr., to Machine Ice Co. Refrigeration system efficiency monitor. 3,707,851, 1-2-73, Cl. 62-125.000.
McAtee, Daniel J.: *See—*
Davies, Phillip J.; Gasparri, Angelo S.; and McAtee, Daniel J., 3,777,260.
McAtee, Richard M. Device for fixation of bone fractures. 3,763,855, 10-9-73, Cl. 128-92.0bc.
McAuley, Van A. Wide band AC modulated control networks. 3,764,878, 10-9-73, Cl. 318-632.000.
McAuliff, Dan: *See—*
Bruner, James N.; and McAuliff, Dan, 3,747,068.
McAuliffe, Clayton D., to Chevron Research Company. Analysis method. 3,759,086, 9-18-73, Cl. 73-19.000.
McAuliffe, Gerald K., to International Business Machines Corporation. Automatic equalizer using recirculation. 3,727,153, 4-10-73, Cl. 333-18.000.
McAuslan, Robert R.: *See—*
Marzocchi, Alfred; and McAuslan, Robert R., 3,741,837.
Mcavoy, John A.; Banka, Eugene F.; Griner, Terry G.; and Hagemann, Robert C., to Burroughs Corporation. Alphanumeric audio response terminal unit. 3,757,048, 9-4-73, Cl. 179-2.0dp.
McBean, Douglas M., to Surgical Specialties Corporation. Fluffing machine for producing webs of various widths. 3,753,271, 8-21-73, Cl. 19-156.300.
McBean, William N., to Tenneco Oil Company. Method of secondary recovery of hydrocarbons. 3,771,598, 11-13-73, Cl. 166-268.000.
McBee, Robert D. Removable side car bumper. 3,738,695, 6-12-73, Cl. 293-1.000.
McBirnie, Percival J. Cake cover. 3,736,214, 5-29-73, Cl. 161-18.000.
McBride, Donald W., to Hallmark Cards Incorporated. Finishing roll for extruded plastic sheet. 3,756,760, 9-4-73, Cl. 425-363.000.
McBride, John P.; McCorkle, Kenneth M.; and Pattison, William L., to United States of America, Atomic Energy Commission. Production of predominantly crystalline sols. 3,758,670, 9-11-73, Cl. 423-261.000.
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McBride, William E., to Lowrance Electronics Mfg. Corporation. Apparatus for mounting a transducer to the transom of a boat. 3,752,431, 8-14-73, Cl. 248-291.000.
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McBride, William S.: *See—*
Churchill, John P.; Thompson, Tommy Lewis; and McBride, William S., 3,733,008.
McBrien, Roger William. Laboratory support clamp structure. 3,775,807, 12-4-73, Cl. 16-114.00r.
McCabe, Barkman C., to Magma Energy Inc. Geothermal energy system. 3,757,516, 9-11-73, Cl. 60-26.000.
McCabe, Edward M., to Societe d'Assistance Technique pour Produits Nestle S.A. Preparation of a soy protein fraction. 3,733,207, 5-15-73, Cl. 99-17.000.
McCabe, Francis J. Fire link and method of actuating same. 3,725,972, 4-10-73, Cl. 16-48.500.
McCabe, Francis J. Device for mounting fire damper. 3,727,663, 4-17-73, Cl. 160-84.00r.
McCabe, James L.: *See—*
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McCabe, John M.; Perlowski, John S.; and Schur, Ronald J., to Eastman Kodak Company. Method for producing oxide coated iron powder of controlled resistance for electrostatic copying systems. 3,767,477, 10-23-73, Cl. 148-6.350.
McCabe, John P.; and Joscelyn, Edwin, to Instrument Systems Corporation. Stethoscope headset. 3,772,478, 11-13-73, Cl. 179-1.0st.
McCabe-Powers Body Company: *See—*
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McCafferty, Edward A., to Natmar, Inc. Heat sealable label carrying an indelible ink. 3,733,212, 5-15-73, Cl. 117-14.000.
McCaffery, Dennis. Anti-spill container. 3,781,164, 12-25-73, Cl. 431-291.000.
McCaffrey, Horace, Jr. Housing for an air cooled engine. 3,750,842, 8-7-73, Cl. 181-33.00r.



McCain, James H.; and Theiling, Louis F., to Union Carbide Corporation. Preparation of trisubstituted-hydroxyalkyl alkanoates. 3,718,689, 2-27-73, Cl. 260-404.000.
McCann, Robert E.: *See—*
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McCarthy, William C.; and De Lano, Merritt V., Jr., to Phillips, McClaran, Gardner & Associates. Method and apparatus for

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McCain Manufacturing Corporation: *See—*
Bellanca, Joseph V., 3,718,348.
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McCain, William B.; Cosgrove, James F.; and Zagorski, Edward J., to McCain Manufacturing Corporation. Sheet or signature feeding machines. 3,717,337, 2-20-73, Cl. 271-13.000.
McCain, William B.; Cosgrove, James F.; and Bewersdorf, Elmer D., to McCain Manufacturing Corporation. Sheet trimming machines. 3,732,766, 5-15-73, Cl. 83-104.000.
McCain, William B.; Cosgrove, James F.; and Zagorski, Edward J., to McCain Manufacturing Corporation. Folding machines. 3,749,394, 7-31-73, Cl. 270-80.000.
McCain, William B.; and Balla, John, to McCain Manufacturing Corporation. Signature feeders. 3,774,901, 11-27-73, Cl. 270-54.000.
McCaldin, James: *See—*
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McCall, Donald F., to General Motors Corporation. Hinged welding shoe. 3,723,696, 3-27-73, Cl. 219-73.000.
McCall, Frank S.: *See—*
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McCall, Kenneth E.: *See—*
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McCall, Kenneth E.; and Reese, Donald H., to Arcair Company. Cutting and gouging torch. 3,735,085, 5-22-73, Cl. 219-70.000.
McCall Printing Company, The: *See—*
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McCall, William B. Rotary engine with intermeshed disks incorporating adjustable gear structure. 3,751,193, 8-7-73, Cl. 418-107.000.
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McCallum, Alistair Robert: *See—*
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McCallum, David J., to National Appliance Industries, Inc. Apparatus for dry cleaning and pressing. 3,721,026, 3-20-73, Cl. 38-75.000.
McCallum, Hugh F., to Dresser Industries, Inc. Earth boring bit thrust bearing. 3,720,274, 3-13-73, Cl. 175-372.000.
McCallum, John, to United States of America, National Aeronautics and Space Administration. Porous electrode comprising a bonded stack of pieces of corrugated metal foil. 3,759,746, 9-18-73, Cl. 136-24.000.
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McCann, George A.; Landis, James E.; and Kimbrell, Jimmie S. Electronic toll restrictor. 3,757,055, 9-4-73, Cl. 179-90.00d.
McCann, John J.; and Scarpetti, Julius J., to Polaroid Corporation. Stimulus print. 3,776,725, 12-4-73, Cl. 96-2.000.
McCann, Joseph A., to Anheuser-Busch, Incorporated. Microwave diode with low capacitance package. 3,731,159, 5-1-73, Cl. 317-234.00r.
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McCann, Paul A., Jr.; and Fisher, Walter W., to United States of America, Navy. Apparatus for processing the flow of digital data. 3,774,165, 11-20-73, Cl. 340-172.500.
McCann, Robert E.: *See—*
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McCanse, James E., to Hesston Corporation. Motion transmitting structure. 3,757,596, 9-11-73, Cl. 74-491.000.
McCanse, James E.; Faber, Frederick L.; and Bauer, Ivan E., to Hesston Corporation. Structure for eliminating mud collections in farm implements. 3,768,572, 10-30-73, Cl. 172-112.000.
McCanse, James Edson; and Gecan, Stephen John, to Hesston Corporation. Belt driven, tractor supported implement. 3,774,464, 11-27-73, Cl. 74-242.10a.
McCardell, Willard B., Jr.: *See—*
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McCarroll, Raymond A. Window vent. 3,757,663, 9-11-73, Cl. 98-2.120.
McCarten, Hugh V. Can crusher. 3,777,659, 12-11-73, Cl. 100-233.000.
McCarter, Robert J., to United States of America, Commerce. Apparatus for measuring the rate at which vapors are evolved from materials during thermal degradation. 3,745,810, 7-17-73, Cl. 73-15.00r.
McCarter, William L.: *See—*
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Foley, Charles F.; and McCarthy, Charles D., 3,776,485.
McCarthy, Denis L.; and D'Albert, Joseph. Portable viewer for for fighting apparatus. 3,744,874, 7-10-73, Cl. 350-96.00b.
McCarthy, Donal Edward. Disposable integral bottle and stacking cases. 3,757,983, 9-11-73, Cl. 220-23.400.
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McCarthy, James F., to Free Winds, Inc. Travel trailer construction. 3,709,551, 1-9-73, Cl. 296-23.00r.
McCarthy, John. Mechanical ladle having four bar configuration mechanism. 3,774,815, 11-27-73, Cl. 222-359.000.
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McCarthy, Justin H., Jr., to International Business Machines Corporation. Printer control with monodirectional and bidirectional printing compatibility. 3,708,050, 1-2-73, Cl. 197-1.00r.
McCarthy, Kenneth E.: *See—*
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McCarthy, Lauris J. Support for an electric cell. 3,710,306, 1-9-73, Cl. 339-108.000.
McCarthy, Marion S. Exercising machine having plural exercising implements thereon. 3,770,267, 11-6-73, Cl. 272-58.000.
McCarthy, Patrick J.: *See—*
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McCarthy, Paul; and Nelson, John F., to United States Steel Corporation. Apparatus for cutting lengths of convoluted picket wire from a continuous strand thereof. 3,731,574, 5-8-73, Cl. 83-558.000.
McCarthy, Paul R.: *See—*
Bailey, Wayne W.; and McCarthy, Paul R., 3,776,846.
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Moore, Cecil L.; and McCarthy, Roger L., 3,759,291.
McCarthy, Stephen G.; Roth, Irving; and Stark, Edward W., to Sperry Rand Corporation. Coded reticle having a shifted pseudo random sequence. 3,743,390, 7-3-73, Cl. 350-314.000.
McCarthy, Thomas F. Header assembly. 3,775,645, 11-27-73, Cl. 317-234.00a.



McCarthy, William C.; and De Lano, Merritt V., Jr., to Phillips Petroleum Company. Liquid-liquid contacting means. 3,730,690, 5-1-73, Cl. 23-270.500.
McCartney, Edward O., to Maytag Company, The. Centrifugal extractor mounting. 3,709,368, 1-9-73, Cl. 210-365.000.
McCartney, Edward O., to Maytag Company, The. Supporting system for centrifugal extractor. 3,744,710, 7-10-73, Cl. 233-24.000.
McCartney, James S., 1/2 interest to Benz, George W. Information coding system. 3,764,984, 10-9-73, Cl. 340-168.00s.
McCarty, John R., to Firestone Tire & Rubber Company, The. Method and apparatus for recording information on and retrieving information from a pneumatic tire. 3,750,120, 7-31-73, Cl. 340-174.10k.
McCarty, Kenneth P.: *See—*
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McCarty, Stuart W.; Owen, Donald T.; and Owens, William F., Jr., to Olin Corporation. Carbon filled wrapper for smoking article. 3,744,496, 7-10-73, Cl. 131-8.000.
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McCary, Richard O.; and Luborsky, Fred E., to General Electric Company. Magnetic film plated wire. 3,753,665, 8-21-73, Cl. 29-191.600.
McCaughan, Daniel Vincent; Simms, Douglas Leon; Tolk, Norman Henry; and White, Clark Woody, to Bell Telephone Laboratories, Incorporated. Apparatus and method for determining sputtering efficiency. 3,757,119, 9-4-73, Cl. 250-304.000.
McCaughey, Stuart H. High speed transfer drive. 3,728,902, 4-24-73, Cl. 74-56.000.
McCaughey, William S., to Bunker-Ramo Corporation, The. Wire terminal crimping tool. 3,710,610, 1-16-73, Cl. 72-410.000.
McCaul, Edward W., to Webb, Jeris B., Company. Article sorting apparatus. 3,770,100, 11-6-73, Cl. 198-38.000.
McCaul, James F., III; and Compton, Lloyd A., to Schokbeton Products Corporation. Multilevel concrete building of precast modular units. 3,762,115, 10-2-73, Cl. 52-236.000.
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McCauley, Thomas Vernon; Barnes, Herbert W.; and Suman, George O., Jr., to Shell Oil Company. Method for cleaning well perforations. 3,743,021, 7-3-73, Cl. 166-311.000.
McCaulley, Frank D.: *See—*
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McCaully, Ronald J.: *See—*
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McCaully, Ronald J.; Bell, Stanley C.; and Conklin, George L., to American Home Products Corporation. Adducts of delta-aminobenzylpenicillin and N-substituted-4-piperidones. 3,725,389, 4-3-73, Cl. 260-239.100.
McCaully, Ronald J.; and Bell, Stanley C., to American Home Products Corporation. 6-(2-Substituted-3-phenyl-2H-isoindole-1-carboxamido) penicillanic acids. 3,736,318, 5-29-73, Cl. 260-239.100.
McCaully, Ronald J.; and Gochman, Carl, to American Home Products Corporation. 2-Benzimidazolecarboxamides. 3,740,413, 6-19-73, Cl. 260-309.200.
McCay, Frank V., Jr.; and Knopp, Rolf A., to Envirotech Corporation. Ring gear arrangement in a planetary drive. 3,756,095, 9-4-73, Cl. 74-801.000.
McClaflin, Gifford G.; and Royer, Dennis J., to Continental Oil Company. Method using low friction loss liquid composition having resistance to shear degradation. 3,730,275, 5-1-73, Cl. 166-308.000.
McClain, Dorothee M.; and Mador, Irving L., to National Distillers and Chemical Corporation. Preparation of carboxylic acids. 3,739,020, 6-12-73, Cl. 260-531.00r.
McClain, Dorothee M., to National Distillers and Chemical Corporation. Process of preparing finely divided thermoplastic resins. 3,746,681, 7-17-73, Cl. 260-29.6pm.
McClain, Herbert D., to National Cash Register Company, The. Signal detector circuit. 3,774,052, 11-20-73, Cl. 307-238.000.
McClain, James E.; and Darnell, Byron G., to Esco Manufacturing Company. Switching apparatus. 3,739,115, 6-12-73, Cl. 200-48.00r.
McClain, Lamont R.; and Slavik, Emil L., to Engel Industries, Inc. Combined slitting and overlaying feed apparatus for roll former machines and the like. 3,718,022, 2-27-73, Cl. 72-132.000.
McClain, Lamont R., to Engel Industries, Inc. Double-spindler elevating multi-station roll former machine and power drive therefor. 3,777,531, 12-11-73, Cl. 72-181.000.
McClain, Paul S.: *See—*
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McClaren, Gordon A.; and Gibson, John W., to Shell Oil Company. Asphalt manufacture. 3,755,139, 8-28-73, Cl. 208-44.000.
McClaren, Jay L. Grain dryer. 3,736,667, 6-5-73, Cl. 34-48.000.
McClaren, Jay L. Mobile storage bin. 3,746,395, 7-17-73, Cl. 298-27.000.
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McClary, Edward B., to Celanese Corporation. Method of coating polyester filaments and resultant product. 3,775,150, 11-27-73, Cl. 117-7.000.
McClary, Joseph M.; Lemkin, Jack Lewis; and Donaldson, Asa Lynn, to General Mills Fun Group, Inc. Sound mechanism for a balance device. 3,744,792, 7-10-73, Cl. 273-1.00r.
McClaskey, Boyd M., to Narco Scientific Industries, Inc. Multiple oscillator isolation circuit. 3,723,899, 3-27-73, Cl. 331-49.000.
McCleerey, Earl W.: *See—*
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McCleerey, Earl W., to Scovill Manufacturing Company, mesne. Portable hair dryer. 3,724,092, 4-3-73, Cl. 34-99.000.
McClellan, Bingham A., to McClellan Industries, Inc. Artificial lure for fishing. 3,750,321, 8-7-73, Cl. 43-42.100.
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McClellan, Ronald E., to Ultronic System Corporation. Data sampling apparatus. 3,764,989, 10-9-73, Cl. 340-172.500.
McClellan, Walter R. Insulation stripper for conductors. 3,748,733, 7-31-73, Cl. 30-90.100.
McClelland, Roland Hill, Jr., to Illinois Tool Works Inc. Ceramic capacitor and method of forming same. 3,760,244, 9-18-73, Cl. 317-258.000.
McClelland, Theodore M., III, to Westinghouse Electric Corporation. Solid state radiometric pulse initiator for remote meter reading systems. 3,733,493, 5-15-73, Cl. 250-233.000.
McClenahan, Douglas S., to Charter Arms Corporation. Adjustable rear sight for handguns. 3,748,744, 7-31-73, Cl. 33-257.000.
McClenahan, Robert W., to Leeds & Northrup Company. Printing element for multi-point recorders. 3,769,626, 10-30-73, Cl. 346-61.000.
McClendon, Jack C.; and Berry, Elton L., to Dow Chemical Company, The. Aminoethylation of flour and starch with ethylenimine. 3,725,387, 4-3-73, Cl. 260-233.30r.
McClintock, William A., to Phillips Petroleum Company. Apparatus for in-line mixing of fluids. 3,734,111, 5-22-73, Cl. 137-3.000.
McClive, William J. Trailer hitch. 3,717,364, 2-20-73, Cl. 280-489.000.
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McCloskey, Edward W. Remote, completely self-contained, self-maintaining power supply apparatus for powering a pressurized-liquid distributing and disseminating system. 3,750,001, 7-31-73, Cl. 320-61.000.
McClosky, James K.: *See—*
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McCloud, Darvin L.; and Schleppnik, Alfred A., to Monsanto Company. Cyclic ketals and acetals of norbornane carboxyaldehyde. 3,748,344, 7-24-73, Cl. 260-340.700.
McCloud, James R.: *See—*
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McCloud, Robert A. Winch mechanism. 3,770,244, 11-6-73, Cl. 254-164.000.
McClung, Charles E.; and Glasgow, David Gerald, to Monsanto Research Corporation. Polyurethane structural adhesive. 3,759,778, 9-18-73, Cl. 156-331.000.
McClure, Benjamin T.: *See—*
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McClure, Charles A. Strand treatment. 3,729,914, 5-1-73, Cl. 57-34.0hs.
McClure, George R., to Du Pont de Nemours, E. I., and Company. Article with filled cavity. 3,717,499, 2-20-73, Cl. 117-72.000.
McClure, Glenn T.; and Salton, Robert B., to Westinghouse Air Brake Company. Fluid pressure brake control apparatus. 3,719,402, 3-6-73, Cl. 303-35.000.
McClure, Glenn T., to Westinghouse Air Brake Company. Hand-brake apparatus. 3,750,488, 8-7-73, Cl. 74-337.000.
McClure, James D.; and Conklin, George W., to Shell Oil Company. Process for the production of polyisocyanates. 3,719,699, 3-6-73, Cl. 260-453.0pc.
McClure, James D., to Shell Oil Company. Preparation of aromatic polyisocyanates by catalytic carbonylation of nitro compounds. 3,739,005, 6-12-73, Cl. 260-453.0pc.
McClure, James D.; and Conklin, George W., to Shell Oil Company. Process for the production of polyisocyanates. 3,776,935, 12-4-73, Cl. 260-453.0pc.
McClure, John L.: *See—*
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McClure, John W., to Avco Corporation. Air dynamometer having
McConnell, Richard L.; and Weemes, Doyle A., to Eastman Kodak

McClure, John W., to Avco Corporation. Air dynamometer having water injection spray nozzles. 3,710,619, 1-16-73, Cl. 73-134.000.
McClure, John W., to Avco Corporation. Power absorber. 3,722,638, 3-27-73, Cl. 188-280.000.
McClure, John W., to Avco Corporation. Fluid dynamometer having a rotating stator housing. 3,757,909, 9-11-73, Cl. 188-290.000.
McClure, Kenneth R., to Air Preheater Company, Inc., The. Incinerator loading device. 3,773,193, 11-20-73, Cl. 214-31.000.
McClure, Richard J., to Bell & Howell Company. Method of imaging involving preheating using interdigitated electrodes, a photoconductive layer and a magnetic imaging layer. 3,717,459, 2-20-73, Cl. 96-1.00r.
McClure, Richard J., to Bell & Howell Company. Magnetic imaging. 3,778,145, 12-11-73, Cl. 355-3.000.
McClure, Robert E., Jr. Fence post spade. 3,775,924, 12-4-73, Cl. 52-155.000.
McClure, William Fred; and Rohrbach, Roger Phillip, to Research Corporation. Blueberry sorter. 3,773,172, 11-20-73, Cl. 209-73.000.
McClurkin, Cloise M. Air-flow oven. 3,713,401, 1-30-73, Cl. 107-57.00b.
McColgan, John M.: *See—*
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McColl, Bruce J., to Owens-Illinois, Inc. Roundwood stump processor. 3,768,529, 10-30-73, Cl. 174-309.0ac.
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McCollum, James H., Jr., to Collins Radio Company. N-way analog signal fader. 3,781,912, 12-25-73, Cl. 330-51.000.
McCollum, Robert L., to Strickland, Thomas M. Removal tool for automotive radiator hose. 3,715,794, 2-13-73, Cl. 29-235.000.
McComas, Hall R.; and Staehlin, John H., to Westinghouse Electric Corporation. Broadband slotted waveguide antenna array. 3,716,868, 2-13-73, Cl. 343-768.000.
McComb, Richard C., to Veeder Industries Inc. Rotary electromagnetic indicator. 3,781,876, 12-25-73, Cl. 340-378.0mw.
McCombie, Frederick Walter, to Megator Pumps and Compressors, Limited. Method and apparatus for removal of surface liquids. 3,748,264, 7-24-73, Cl. 210-65.000.
McCombie, Frederick Walter, to Megator Pumps and Compressors Limited. Removal of surface layers from liquids. 3,759,390, 9-18-73, Cl. 210-242.000.
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McCombs, Howard Lewis, Jr., to Bendix Corporation, The. Force balance lever mechanism. 3,713,366, 1-30-73, Cl. 91-47.000.
McCombs, Norman R., to Union Carbide Corporation. Selective adsorption gas separation process. 3,738,087, 6-12-73, Cl. 55-78.000.
McConkey, Robert C.: *See—*
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McConnaughay, Kenneth E. Paving composition and method of making it. 3,713,856, 1-30-73, Cl. 106-96.000.
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McConnell, Bobby D.; Lavik, Melvin T.; and Campbell, Mahlon E., to United States of America, Air Force. Solid lubricant compositions employing polybenzimidazole resins and lubricating pigments. 3,721,625, 3-20-73, Cl. 252-12.000.
McConnell, Frederick C.; Jason, George; and Armstrong, Neil J. Aerial survey. 3,709,607, 1-9-73, Cl. 356-152.000.
McConnell, Frederick C.; Jason, George; and Armstrong, Neil J. Aerial survey. 3,765,766, 10-16-73, Cl. 356-4.000.
McConnell, Frederick C.; Jason, George; and Armstrong, Neil J., to Spartan Air Services, Limited. Aerial survey. 3,766,312, 10-16-73, Cl. 178-6.800.
McConnell, Howard B., to Allen, Sam, & Son. Safety seat. 3,731,972, 5-8-73, Cl. 297-216.000.
McConnell, John A.; and Williamson, Everett W. Pill dispensing device having plural cut-off trap chamber. 3,730,387, 5-1-73, Cl. 221-265.000.
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McConnell, Kennedy; and Juechter, Raymond F., to Interlake, Inc. Load lock. 3,741,405, 6-26-73, Cl. 211-177.000.
McConnell, Lorne D., to I-T-E Imperial Corporation. Gas insulated flexible high voltage cable. 3,767,838, 10-23-73, Cl. 174-25.00b.
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McConville, Thomas P., to Westgate-California Foods, Inc. Process for killing salmonella in fish meal. 3,723,136, 3-27-73, Cl. 99-158.000.
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McCord, John B.: *See—*
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McCord, Robert S.; Nail, Donald H.; and Sheratte, Martin B., to McDonnell Douglas Corporation. Functional fluids of increased fire resistance. 3,723,319, 3-27-73, Cl. 252-78.000.
McCord, Robert S.; Nail, Donald H.; and Sheratte, Martin B., to McDonnell Douglas Corporation. Fire-resistant functional fluid compositions. 3,730,889, 5-1-73, Cl. 252-78.000.
McCord, Robert S.; Nail, Donald H.; and Sheratte, Martin B., to McDonnell Douglas Corporation. Fire-resistant functional fluids. 3,730,897, 5-1-73, Cl. 252-78.000.
McCord, Robert S.; Nail, Donald H.; and Sheratte, Martin B., to McDonnell Douglas Corporation. Functional fluids having increased fire resistance. 3,733,276, 5-15-73, Cl. 252-78.000.
McCord, Wilfred M., Jr., to Vermont American Corporation. Collapsible saw. 3,724,519, 4-3-73, Cl. 145-33.00e.
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McCorkle, William C., Jr., to United States of America, Army. Attitude compensating missle system. 3,749,334, 7-31-73, Cl. 4-4-66.
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McCornnell, Lorne D., to I-T-E Imperial Corporation. Resistor and means for gradually inserting resistor in parallel with interrupter contacts. 3,728,505, 4-17-73, Cl. 200-144.0ap.
McCort, John I.; Notman, Robert J.; and Carder, Victor H., to Cochran Western Corporation. Automatic vehicle hitch assembly. 3,717,365, 2-20-73, Cl. 280-508.000.
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McCoy, Donald D.; Shue, Bruce H.; and Gutmacher, Ralph G., to United States of America, Atomic Energy Commission. Count rate discriminator. 3,737,789, 6-5-73, Cl. 328-138.000.
McCoy, Drew E.; McEachern, Robert M.; and Dille, Roger M., to Texaco Inc. Continuous process for the air oxidation of sour water. 3,761,409, 9-25-73, Cl. 210-63.000.
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McCoy, Frederic C., to Texaco Inc. Paraffinic base oil carrier composition for pesticides. 3,755,562, 8-28-73, Cl. 424-78.000.
McCoy, Frederic C.; Godfrey, Arthur W.; and Reid, Robert E., to Texaco Inc. Lubricating oil composition. 3,775,324, 11-27-73, Cl. 252-546.000.
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McCoy, Larry G.; and Sharpe, Robert E., to Liberty Glass Company. Containers and method of preparing same. 3,772,061, 11-13-73, Cl. 117-72.000.
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McCoy, Lowell R.; and Heredy, Laszlo A., to Rockwell International Corporation. Electrode structure and battery. 3,767,466, 10-23-73, Cl. 136-131.000.
McCoy, Lowell R., to Rockwell International Corporation. Apparatus and method for removing solids from liquids. 3,770,605, 11-6-73, Cl. 204-188.000.
McCoy, Lyle E. Rotary fluid treatment apparatus. 3,777,804, 12-11-73, Cl. 165-8.000.
McCoy, Reginald F. H.; and Woycechowsky, Brian J., to Singer Company, The, mesne. Display raster computer. 3,719,817, 3-6-73, Cl. 235-186.000.
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McCracken, William L.; Petering, Wilbur H.; Kircher, Charles E., Jr.; and Pinchak, Paul R., to Detrex Chemical Industries, Inc. Process for making 1,1-dichlorethylene from 1,1,2-trichlorethane. 3,725,486, 4-3-73, Cl. 260-654.00d.
McCrary, Avis L.; and Wilson, David A., to Dow Chemical Company, The. Substituted alkanolamine chelating agents. 3,726,912, 4-10-73, Cl. 260-513.00n.
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McCray, Walter A., to Foseco International, Limited. Clip for securing hot top lining slabs. 3,762,033, 10-2-73, Cl. 29-522.000.
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McCreery, James F., to Kennametal Inc. Cutting Tool. 3,780,408, 12-25-73, Cl. 29-96.000.
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McCrickered, John T.; and Chang, Milton M. T., to Northrop Corporation. Holographic method and apparatus for checking the optical characteristics of transparent members. 3,723,010, 3-27-73, Cl. 356-124.000.
McCrobie, George L., to Xerox Corporation. Add lens projection system with balanced performance. 3,741,621, 6-26-73, Cl. 350-183.000.
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McCulloch, Alister L., to Graviner (Colnbrook) Limited. Fire extinguishers. 3,747,685, 7-24-73, Cl. 169-26.000.
McCulloch, Charles R.; Moy, Bertram K.; and Randle, Thomas C., to United States of America, Navy. Mesa burning gas generator propellant. 3,725,154, 4-3-73, Cl. 149-21.000.
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Espana, Salvador; and Funt, Brunson Bert, 3,760,141.
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McCullough, Edward E., to Thiokol Chemical Corporation. Handling means for slot formers. 3,756,025, 9-4-73, Cl. 60-255.000.
McCullough, Gerald W. Perforated composite bandage. 3,779,242, 12-18-73, Cl. 128-171.000.
McCullough, Harry J.; Shahid, John M.; and Boyd, Aland, to Parker-Hannifin Corporation. Vertical mold press for molding articles of rubber-like material. 3,708,254, 1-2-73, Cl. 425-235.000.
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McCullough, Robert E.; and Hougendobler, Cleon W., to HMW Industries, Inc. McDole, Ewell E.; and Howard, Frank L., to Kaiser Aluminum &

McCullough, Robert E.; and Hougendobler, Cleon W., to HMW Industries, Inc. Modular solid state wristwatch. 3,759,031, 9-18-73, Cl. 258-50.00r.
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McCulty, Wayne A. Grinder. 3,734,148, 5-22-73, Cl. 241-82.100.
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McCurvey, Raymond S. Panel forming machine. 3,777,347, 12-11-73, Cl. 29-200.00a.
McCuthcheon, James T., to Itek Corporation. Ink monitoring apparatus. 3,730,089, 5-1-73, Cl. 101-363.000.
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McDaniel, Raymond C., to Ohio State University, The. Sonic energy metal working process. 3,754,448, 8-28-73, Cl. 90-38.00r.
McDanield, John S., to Whirlpool Corporation. Packaging pad. 3,708,101, 1-2-73, Cl. 229-14.00c.
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McDermott, Michael S.; and Pederson, Carl A., to United States of America, Army, mesne. Electrical crowbar system with novel triggered spark gap devices. 3,725,729, 4-3-73, Cl. 315-75.000.
McDermott, Peter; and Campbell, Colin, to Imperial Chemical Industries Limited. Interlacing jet. 3,730,413, 5-1-73, Cl. 226-97.000.
McDermott, Philip Auguste; and Semsel, Andrew Milo, to American Cyanamid Company. Containers for chemical light solutions. 3,752,406, 8-14-73, Cl. 240-2.250.
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McDermott, William Francis; Plaistow, Joseph James; and Hirvela, Veikko Adolph, to Pickands Mather & Co. Suspension sampling device. 3,747,411, 7-24-73, Cl. 73-422.00r.
McDole, Ewell E.; and Howard, Frank L., to Kaiser Aluminum & Chemical Corporation. Water based rolling lubricant. 3,726,799, 4-10-73, Cl. 252-49.500.
McDole, Ewell E.; and Howard, Frank L., to Kaiser Aluminum & Chemical Corporation. Dispersion for hot rolling aluminum products. 3,770,636, 11-6-73, Cl. 252-49.500.
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McDonald, Bernard. Medical examining method and means. 3,744,481, 7-10-73, Cl. 128-6.000.
McDonald, Bernard. Medical examining instrument. 3,762,400, 10-2-73, Cl. 128-18.000.
McDonald, Bernard. Uterine specimen collecting method. 3,774,590, 11-27-73, Cl. 128-2.00b.
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McDonald, Emery L. Apparatus for removing the skin from vertebrates such as fish & animals. 3,729,775, 5-1-73, Cl. 17-62.000.
McDonald, George L.; and Jackson, Michael L. Method of repairing knife edge fins in spacer fluid seals. 3,771,798, 11-13-73, Cl. 277-9.000.
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McDonald, Glen E., to United States of America, National Aeronautics and Space Administration. Nuclear fuel elements. 3,759,787, 9-18-73, Cl. 176-169.000.
McDonald, Glen L., to Boeing Company, The. Three terminal bidirectional conductive switching network. 3,735,158, 5-22-73, Cl. 307-305.000.
McDonald, Gordon D., to SCM (Canada) Ltd. Liquid cooled saw: 3,777,794, 12-11-73, Cl. 144-324.000.
McDonald, Grover C., to Lee, Raymond, Organization, Inc., The. Fire alarm system. 3,753,256, 8-14-73, Cl. 340-227.100.
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McFarland, George C.; and Leader, Clifford F. Portable electron beam welding apparatus. 3,761,676, 9-25-73, Cl. 219-121.0eb.
McFarland, Harold A., to Medical Development Corporation. Dynamic cervical support. 3,776,224, 12-4-73, Cl. 128-75.000.
McFarland, James W.; and Ray, Verne A., to Pfizer Inc. Thiazoline and 5,6-dihydro-4H-1,2-thiazine antiviral agents. 3,755,578, 8-28-73, Cl. 424-246.000.
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McFarland, Wilmer H., to North American Rockwell Corporation. Range-gated digital AMTI system. 3,778,828, 12-11-73, Cl. 343-7.700.
McFarlane, Richard H., to Coilform Company. Lugging machine. 3,727,285, 4-17-73, Cl. 29-203.00d.
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McGavic, John P., to General Motors Corporation. Electronic fuel injection system having speed enrichment. 3,732,852, 5-15-73, Cl. 123-32.0ea.
McGavic, John P., to General Motors Corporation. Linearized electronic fuel injection system. 3,774,580, 11-27-73, Cl. 123-32.0ea.
McGaw Division of American Hospital Supply Corporation: *See—*
Edwards, Frank M., 3,726,795.
McGeary, Frank L.; and Zampetti, Patrick L., to Construction Specialties, Inc. Expansion joint seal. 3,779,660, 12-18-73, Cl. 404-69.000.
McGee, Charles I.: *See—*
Zettlemoyer, James E.; and McGee, Charles I., 3,735,906.
McGee, Donald J., to Dura Corporation. Individual foil spring tandem suspension. 3,746,361, 7-17-73, Cl. 280-104.50r.
McGee, Donald J., to A & A Equipment Co. Swing arm tandem air suspension. 3,774,934, 11-27-73, Cl. 208-104.50a.
McGee, George S., Jr. Method and apparatus for dyeing textiles. 3,722,235, 3-27-73, Cl. 68-183.000.
McGee, John K.: *See—*
Phipps, Willis M.; Holbert, Marvin L., Jr.; and McGee, John K., 3,780,802.
McGee, John K., to Giddings & Lewis, Inc. Acceleration-deceleration for numerical control. 3,727,191, 4-10-73, Cl. 340-172.500.
McGee, LeLand T. Jack assembly for stabilizing house trailer. 3,760,906, 9-25-73, Cl. 188-4.00r.
McGee, Paul D.; and Artner, Marcus M., to Motorola, Inc. Door assembly for cartridge tape player. 3,728,000, 4-17-73, Cl. 312-9.000.
McGee, Richard P., to Gould Inc. Piston ring assembly. 3,751,047, 8-7-73, Cl. 277-165.000.
McGee, Robert V. J., to Esso Research and Engineering Company. Neutralization process for ester materials. 3,717,672, 2-20-73, Cl. 260-485.00s.
McGee, Roger V., Jr. Anchor handling device. 3,771,487, 11-13-73, Cl. 114-210.000.
McGee, Roger V., Jr. Trotline dispenser. 3,775,893, 12-4-73, Cl. 43-54.50a.
McGee, Sherwood W.: *See—*
Andreotti, Eugene R.; and McGee, Sherwood W., 3,708,281.
McGee, Sidney. Fishing device. 3,745,692, 7-17-73, Cl. 43-17.500.
McGeehan, Michael T.: *See—*
Arnold, William C.; Lendway, Joseph K.; Woodman, Brian W.; McGeehan, Michael T.; and Perrin, David P., 3,748,957.
McGehee, Archie L., to Allis-Chalmers Manufacturing Company. Lift truck mast. 3,709,393, 1-9-73, Cl. 214-674.000.
McGettigan, Marian M.: *See—*
Lapidus, Milton; and McGettigan, Marian M., 3,725,453.
Lapidus, Milton; and McGettigan, Marian M., 3,769,333.
Lapidus, Milton; and McGettigan, Marian M., 3,775,460.
McGhan, Donald K.: *See—*
Yosowitz, Edward E.; and McGhan, Donald K., 3,741,216.
McGhay, Maynard H.: *See—*
Choi, Charles; and McGhay, Maynard H., 3,728,731.
McGhay, Maynard H.; and Afendras, Demetrios G., to Motorola, Inc. Circuit for coupling radio receiver and radio transmitter to a common antenna for duplex operation. 3,733,608, 5-15-73, Cl. 343-180.000.
McGhee, Clarence L.; and Enders, Dennis C. Tire pressure indicating apparatus. 3,717,030, 2-20-73, Cl. 73-146.300.
McGhie, Russell Park: *See—*
Miles, Gilbert De Wayne; and McGhie, Russell Park, 3,741,447.
McGibbeny, James R.: *See—*
Busuttil, Henry L.; Kreisler, Sol S.; McGibbeny, James R.; and Pearson, Russell O., 3,753,206.
McGibbon, Verdun R.: *See—*
Walters, Joseph J.; and McGibbon, Verdun R., 3,769,097.
McGill, Charles H., to Monsanto Company. Rotor tube for a beria-type cutter. 3,717,060, 2-20-73, Cl. 83-403.000.
McGill, Howard L., to Schlumberger Technology Corporation. Retrievable well packer apparatus. 3,741,304, 6-26-73, Cl. 166-216.000.
McGill, Howard L. Retrievable well packer apparatus. 3,744,563, 7-10-73, Cl. 166-139.000.
McGill, Howard L., to Schlumberger Technology Corporation. High/low flow safety valve. 3,768,506, 10-30-73, Cl. 137-458.000.
McGill, Jack W., to Allis-Chalmers Corporation. Distributed tapped transformer winding and method of winding same. 3,747,038, 7-17-73, Cl. 336-150.000.
McGill Manufacturing Company, Inc.: *See—*
Barber, Richard H., 3,748,003.
Cairelli, Carmen P., 3,732,476.
Osika, Thomas F.; and Risley, John T., 3,727,013.
McGill, Robert L., Jr.; Worsham, Charles R.; and Green, Norman, to Bendix Corporation, The. Voltage tunable frequency threshold circuit. 3,729,587, 4-24-73, Cl. 178-88.000.
McGill, Robert W.; and Painter, P. Eric, to A-T-O, Inc. Film shaping apparatus. 3,780,628, 12-25-73, Cl. 93-82.000.
McGill, Thomas Alan, to Gillette Company, The. Welding apparatus. 3,715,558, 2-6-73, Cl. 219-82.000.
McGill, William B. Isolated electrical outlet assembly. 3,755,635, 8-28-73, Cl. 200-51.090.
McGillvary, Daniel Ross, to Firestone Tire & Rubber Company, The. Process of centrifugal casting. 3,751,551, 8-7-73, Cl. 264-311.000.
McGinley, William L.; and Pearson, Johnnie P. Bun toaster. 3,712,207, 1-23-73, Cl. 99-349.000.
McGinn, James M., to Uniroyal, Inc. Process for production of rigid self-skinning polyurethane foam. 3,730,919, 5-1-73, Cl. 260-2.5az.
McGinn, James M.; and Dellecave, Thomas L., to United States of America, Air Force. Precision viscometer timer control system. 3,772,910, 11-20-73, Cl. 73-57.000.



McGinnis, Herbert, to Goodrich, B. F., Company, The. Conveyor



Early, James R.; Eyring, William M.; McGrath, Donald W.; and

McGinnis, Herbert, to Goodrich, B. F., Company, The. Conveyor belt multiple drive system. 3,773,167, 11-20-73, Cl. 198-203.000.
McGinnis, Herbert E., to Goodrich, B. F., Company, The. Belt splice. 3,719,969, 3-13-73, Cl. 24-38.000.
McGinnis, Michael K.; and Wallace, Paul F., to Aluminum Company of America. Clad aluminum base alloy. 3,773,477, 11-20-73, Cl. 29-197.500.
McGinnis, Peter J., to Litton Precision Products, Inc. Electromagnetic controlled wheel indicator. 3,732,561, 5-8-73, Cl. 340-378.00r.
McGinniss, Vincent D., to SCM Corporation. Photopolymerization catalyst comprising a metallocene and an active halogen-containing compound. 3,717,558, 2-20-73, Cl. 204-159.150.
McGlashan, Andrew David, Sr., to Donnelley, R. R., & Sons Company. Method of making resists to be used in etching rotogravure cylinders for four-color printing. 3,740,222, 6-19-73, Cl. 96-30.000.
McGlashan, John P.: *See—*
Derderian, Edward J.; and McGlashan, John P., 3,753,333.
McGlasson, Frank W., to Singer Company, The, mesne. Wide angle infinity image visual display. 3,709,581, 1-9-73, Cl. 350-174.000.
McGlothlin, Charles J. Ferrule lock. 3,756,634, 9-4-73, Cl. 287-119.00r.
McGough, Gerald B.: *See—*
Hamilton, Richard J.; and McGough, Gerald B., 3,759,440.
McGough, Gregory J., 1/8 to Fox, Richard H., 1/8 to Grui, Charles, 1/8 to McGough, Peter J., 1/8 to Nonnemacher, Vincent, 1/8 to Schwartz, Gary R., 1/8 to Valencour, Frederick H. and 1/8 to Vieman, John M. Snowmobile with hydraulic device. 3,709,312, 1-9-7, Cl. 180-5.00r.
McGough, Peter J.: *See—*
McGough, Gregory J., 3,709,312.
McGourty, Thomas K.: *See—*
Sawada, Hideo; Rin, Ensei; Yamada, Isao; Mano, Hiroshi; and McGourty, Thomas K., 3,710,359.
McGourty, Thomas K., to EDP Limited, mesne. Teaching machine. 3,707,778, 1-2-73, Cl. 35-9.006.
McGovern, Harold Joseph, Jr.; and Granja, Louis Albert, to United Brands Company. Variable-length conveyor. 3,780,843, 12-25-73, Cl. 193-35.0te.
McGovern, Michael J.: *See—*
Manber, Solomon; McGovern, Michael J.; and Stupar, Wesley E., 3,740,608.
McGovern, Terrence L.: *See—*
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McGovern, Terrence P.: *See—*
Beroza, Morton; McGovern, Terrence P.; Schwartz, Paul H., Jr.; and Hamilton, Donald W., 3,743,719.
McGovern, Terrence P.; Beroza, Morton; Davis, Harry G.; and Eddy, Gaines W., to United States of America, Agriculture. Attractants for the yellow jacket wasp (vespula spp: vespidae). 3,717,706, 2-20-73, Cl. 424-84.000.
McGovern, Terrence P.; Beroza, Morton; and Ladd, Thyril L., to United States of America, Agriculture. Phenethyl propionate and eugenol, a potent attractant for the Japanese beetle (Popillia Japonica Newman). 3,761,584, 9-25-73, Cl. 424-84.000.
McGovern, Terrence P.; Beroza, Morton; and Fiori, Bart J., to United States of America, Agriculture. Esters of 1,4-benzodioxan-2-carboxylic acid as attractants for the European chafer. 3,777,017, 12-4-73, Cl. 424-84.000.
McGowan, Eric, to United Gas Industries Limited. Thermostatically controlled gas valve. 3,729,131, 4-24-73, Cl. 236-99.000.
McGowan, Eugene V.: *See—*
Ghirardi, Paul S.; and McGowan, Eugene V., 3,711,633.
McGowan, George F. Dental flask. 3,772,792, 11-20-73, Cl. 32-59.000.
McGowan, John; Kirby, Charles Raymond; and Cormode, Henry Daniel Alexander, to Cominco Ltd. Potash granulation. 3,711,254, 1-16-73, Cl. 23-313.000.
McGowan, Joseph; and Fowler, Gerald, to British Leyland Truck and Bus Division Limited. Motor vehicle ventilating system. 3,777,648, 12-11-73, Cl. 98-2.040.
McGowan, Joseph W., to United States of America, Army. Isolimiter. 3,761,924, 9-25-73, Cl. 343-5.00r.
McGowan, Kenneth G.: *See—*
McAlpine, Charles H.; and McGowan, Kenneth G., 3,741,365.
McGowen, Harold E., Jr.; and Tausch, Gilbert H., to Comco Incorporated. Heat actuated well packer. 3,716,101, 2-13-73, Cl. 166-60.000.
McGowen, Harold E., Jr.; and Terral, Ben D., to Camco, Incorporated. Apparatus for installing and removing flow control units. 3,752,231, 8-14-73, Cl. 166-117.500.
McGowen, Harold E., Jr.; and Tausch, Gilbert H., to Camco, Incorporated. Heat controlled gas lift valve. 3,760,832, 9-25-73, Cl. 137-155.000.
McGowen, Harold E., Jr., to Camco, Incorporated. Fluid system for moving subsurface well equipment in well tubing. 3,771,597, 11-13-73, Cl. 166-77.000.
McGrath, Donald W.: *See—*
Early, James R.; Eyring, William M.; McGrath, Donald W.; and Takenaka, Toshio, 3,752,642.
McGrath, Harry; Moore, Raymond Frederick; and Smith, Eric, to Imperial Chemical Industries Limited. Polyamides foamed with N-substituted carbamic ester blowing agents. 3,728,292, 4-17-73, Cl. 260-2.50n.
McGrath, James E.: *See—*
Matzner, Markus; Reichle, Walter T.; Chow, Sui-Wu; and McGrath, James E., 3,718,672.
Matzner, Markus; Reichle, Walter T.; Chow, Sui-Wu; and McGrath, James E., 3,755,266.
Matzner, Markus; Reichle, Walter T.; Chow, Sui-Wu; and McGrath, James E., 3,755,267.
Matzner, Markus; Reichle, Walter T.; Chow, Sui-Wu; and McGrath, James E., 3,759,876.
Matzner, Markus; McGrath, James E.; and Noshay, Allen, 3,770,849.
Schober, Donald L.; McGrath, James E.; and Matzner, Markus, 3,714,289.
McGrath, John E., Jr.: *See—*
Fraser, Richard J.; and McGrath, John E., Jr., 3,710,697.
McGrath, John W.; and Repsher, Dennis E., to Western Electric Company, Incorporated. Synchronized illumination for operations on light sensitive articles. 3,715,576, 2-6-73, Cl. 240-2.00r.
McGrath, Marie. Fluid dispensing vibrator. 3,754,548, 8-28-73, Cl. 128-65.000.
McGrath, N. Christian; and Nash, Roger M. Encapsulated electrical component. 3,751,724, 8-7-73, Cl. 317-234.00r.
McGrath, Patrick John. Toilet article. 3,769,991, 11-6-73, Cl. 132-84.00r.
McGrath, Raymond F. Iron guard. 3,729,778, 5-1-73, Cl. 24-73.00r.
McGrath, Robert Paul: *See—*
Lerner, Irwin; and McGrath, Robert Paul, 3,714,355.
McGrath, Timothy P.: *See—*
Bloom, Robert A.; Sturtz, Charles R.; and McGrath, Timothy P., 3,736,801.
McGrath, William F., Jr., to Ingersoll-Rand Company. Vehicle gas dryer purging system and method. 3,731,458, 5-8-73, Cl. 55-33.000.
McGraw, John G.: *See—*
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McGraw, Robert B., Jr.: *See—*
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McGraw, Thomas F. Self-contained planetarium. 3,718,992, 3-6-73, Cl. 35-42.500.
McGraw-Edison Company: *See—*
Beeley, Michael G.; and Thompson, Richard D., 3,722,116.
Buckley, Norman A., 3,707,855.
Buckley, Norman A., 3,727,811.
Buckley, Norman A.; and Rasmussen, Peter D., 3,739,496.
Bufkin, Dale E.; and Murphy, Willard G., 3,718,084.
Burrage, Lawrence M.; and McStrack, Darrel D., 3,719,581.
Burrage, Lawrence M.; and McStrack, Darrel D., 3,773,640.
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Forg, John H.; and Payet, George L., 3,738,019.
Fortriede, Charles J., 3,743,122.
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Gaia, Aldino J.; and Urani, Angelo, 3,739,313.
Gaven, Thomas J., 3,760,124.
Haas, Arthur W., 3,720,215.
Hanson, Richard M., 3,715,819.
Hanson, Richard M., 3,722,115.
Hendren, Charles W., 3,770,148.
Hopkins, Charles L., 3,772,900.
Ingram, Leslie G., 3,728,500.
Knudson, Robert F., 3,747,300.
Kobler, Richard; Fagan, William F.; and Feldman, Edward, 3,724,859.
Kobler, Richard; and Fagan, William F., 3,728,494.
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Lapp, John; and Weiler, Norbert R., 3,746,953.
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Lynch, John C., 3,723,812.
Maez, Philbert Jay; Thompson, Richard D.; and Beeley, Michael G., 3,739,960.
Marek, James R.; and Kershaw, Stanley S., Jr., 3,710,212.
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Mikulecky, Harvey W., 3,755,769.
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Moran, Richard J., 3,739,229.
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Sadler, Fred S.; and Heinrichs, Frank W., 3,736,178.
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Simmons, Harold T., 3,737,595.
Spencer, Donald B., 3,717,015.
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Spotts, J. Willard, 3,773,458.
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Trelc, William F., 3,772,777.
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Urani, Angelo, 3,723,931.
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Weir, Henry John, 3,729,846.
McGregor, Eugene R., to Universal Oil Products Company. Self-cleaning ashtray with collecting hopper. 3,709,427, 1-9-73, Cl. 232-43.100.
McGregor, Eugene R., to Universal Oil Products Company. Fastener. 3,747,975, 7-24-73, Cl. 297-191.000.
McGregor, Eugene R., to Universal Oil Products Company. Position adjustment device with deformation type damper means. 3,758,092, 9-11-73, Cl. 267-131.000.
McGregor, John C., to Boise Cascade Corporation. Ski base. 3,765,695, 10-16-73, Cl. 280-28.000.
McGregor, Rob Roy. Flowmeter. 3,759,099, 9-18-73, Cl. 73-207.000.
McGregor, Robert, & Sons Limited: *See—*
Rimmington, Alan, 3,720,439.
McGregor, Stanley D., to Dow Chemical Company, The. Aminohalopyridyloxy acids and derivatives thereof. 3,761,486, 9-25-73, Cl. 260-294.900.
McGrew, Jay L.: *See—*
Sharp, Richard A.; McGrew, Jay L.; Gille, John P.; Mowrey, Eugene C.; and Buskirk, David L., 3,767,498.
Sharp, Richard A.; Gille, John P.; and McGrew, Jay L., 3,777,501.
McGrew, Jay L.; Sharp, Richard A.; Mowrey, Eugene C.; Thomas, Donald A.; and Gille, John P., to Martin Marietta Corporation. Capillary insulation. 3,717,005, 2-20-73, Cl. 62-45.000.
McGrew, Jay L., to Martin Marietta Corporation. Cellular insulation for use with low temperature liquids. 3,755,056, 8-28-73, Cl. 161-68.000.
McGuigan, James K.: *See—*
Moulson, Donald C.; and McGuigan, James K., 3,757,897.
McGuigan, William M.: *See—*
Howarth, Roger E.; McGuigan, William M.; and Murday, David A., 3,756,123.
McGuire, Harold P. Automobile polyester body filter. 3,746,670, 7-17-73, Cl. 260-7.500.
McGuire, John V.; and Watson, Donald W., to Xerox Corporation. Label transfer wheel. 3,718,525, 2-27-73, Cl. 156-539.000.
McGuire, John V., to Xerox Corporation. Label accumulator for addressing machine. 3,759,781, 9-18-73, Cl. 156-521.000.
McGuire, Richard: *See—*
Sterns, Robert B.; and McGuire, Richard, 3,774,016.
McGuire, Stephen E.; and Kennedy, Carl D., to Continental Oil Company. Process for producing oil-soluble sulfonate feedstock. 3,732,324, 5-8-73, Cl. 260-671.00g.
McGuire, Stephen E.; and Kenfoot, Oliver C., to Continental Oil Company. Surface active agents. 3,775,445, 11-27-73, Cl. 260-402.000.
McGuire, Stephen E., to Continental Oil Company. Alkyl phthalic acid compounds. 3,781,340, 12-25-73, Cl. 260-515.00p.
McGuire, Thomas Michael, to Du Pont de Nemours, E. I., and Company. Water swollen cellulose and blends dyed with insoluble, non-vattable anthraquinone dyes in a glycol ether solution. 3,752,645, 8-14-73, Cl. 8-21.00c.
McGuire, Thomas Michael, to Du Pont de Nemours, E. I., and Company. Water insoluble anthraquinone dyes for cellulosic and synthetic fibers. 3,759,963, 9-18-73, Cl. 260-377.000.
McGuire, W. B., Co., Inc.: *See—*
McGuire, Winston B., 3,750,739.
McGuire, Wayne. Automatic shifting means for multispeed bicycles. 3,769,848, 11-6-73, Cl. 74-217.00b.
McGuire, Winston B., to McGuire, W. B., Co., Inc. Flexible traffic door. 3,750,739, 8-7-73, Cl. 160-354.000.
McGurk, William L., to Therator Pumps, Inc. Fluid treatment and distribution system. 3,756,578, 9-4-73, Cl. 261-91.000.
McGurran, Kelly T.; and Banitt, Elden H., to Riker Laboratories, Inc. Process for preparation of substituted fluromethane sulfonanidides. 3,751,462, 8-7-73, Cl. 260-556.00a.
McGurty, James A. Austenitic iron alloys. 3,754,898, 8-28-73, Cl. 75-122.000.
McGusty, Elizabeth R.; and Sutton, Blaine M., to Smith Kline & French Laboratories. Anti-arthritic compositions comprising a trialkylphosphine gold complex of a 1-beta-D-glucopyranoside and methods of producing anti-arthritic activity. 3,708,579, 1-2-73, C. 424-180.000.
McGusty, Elizabeth R.; and Sutton, Blaine M., to Smith Kline & French Laboratories. Phosphine or phosphite gold complexes of thiomalic acid. 3,718,679, 2-27-73, Cl. 260-430.000.
McGusty, Elizabeth R.; and Sutton, Blaine M., to Smith Kline & French Laboratories. Phosphine or phosphite gold complexes of thioethanol and derivatives thereof. 3,718,680, 2-27-73, Cl. 260-430.000.
McHale, Myrtle, B. Rug making device and method of use. 3,766,869, 10-23-73, Cl. 112-9.000.
Mchedlov-Petrosyan, Otar Petrovich: *See—*
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McHenry, Thomas F., to Barnes Engineering Company. Edge detector utilizing all active junction radiation thermopiles. 3,761,318, 9-25-73, Cl. 136-225.000.
McHugh, John P.: *See—*
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McIlhenny, Dudley F., to Clairol Incorporated. Actuator overcap. 3,734,353, 5-22-73, Cl. 222-153.000.
McIlhinney, Allan Edward: *See—*
Capes, Charles Edward; McIlhinney, Allan Edward; and Tweddle, Thomas Allen, 3,776,601.
McIlrath, William P., to Racine Railroad Products, Inc. Rail anchor setter and applicator. 3,766,860, 10-23-73, Cl. 104-17.00a.
McIlroy, Jack E., to General Signal Corporation. Brake head-centering device for railway brake apparatus. 3,743,062, 7-3-73, Cl. 188-212.000.
McIlroy, Robert A.; Sage, Warnie L.; and Markant, Henry P., to Babcock & Wilcox Company, The. Apparatus for the preparation of sulfur dioxide. 3,723,068, 3-27-73, Cl. 23-262.000.
McIlvaine, Robert L., to Environeering, Inc. Gas scrubber. 3,738,624, 6-12-73, Cl. 261-44.00r.
McIlvried, Howard G.: *See—*
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McIlwain, Irwin D.: *See—*
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McInally, John A., to Xerox Corporation. Controlled spectrum flash lamp. 3,742,281, 6-26-73, Cl. 313-184.000.
McIndoo, Robert G.; and Sidles, Peter, Jr., to Caterpillar Tractor Company. Vehicle frame structure. 3,754,615, 8-28-73, Cl. 180-69.100.
McInerney, F. Thomas, III: *See—*
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McInnes, Alexander G. P.: *See—*
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McInnis, Andrew M.; and Nielsen, Robert A. Combination anti-siphon and shut-off plastic valve. 3,713,457, 1-30-73, Cl. 137-218.000.
McInnis, Andrew M. Non-leak valve of plastic construction. 3,727,630, 4-17-73, Cl. 137-218.000.
McIntire, Edward A.: *See—*
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McIntire, John M.: *See—*
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McIntosh, Alexander C.: *See—*
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McIntosh, Alexander C., to Tel-Tone Corporation. Frequency selective circuit including a twin-T notch filter. 3,745,376, 7-10-73, Cl. 317-233.000.
McIntosh, Billy L., to Weston Instruments Inc. Skew device. 3,728,679, 4-17-73, Cl. 340-146.10f.
McIntosh, Brian H.: *See—*
Nystrand, Ernst Daniel; and McIntosh, Brian H., 3,746,592.
McIntosh, Charles M.: *See—*
Hoogendoorn, Helen M.; and McIntosh, Charles M., 3,735,052.
McIntosh, Duane E., to General Motors Corporation. Heart monitoring apparatus for a motor vehicle. 3,731,672, 5-8-73, Cl. 128-2.06a.
McIntosh, Duane E., to General Motors Corporation. Audio monitored vehicle headlight circuit. 3,774,148, 11-20-73, Cl. 340-52.00r.
McIntosh, Harold A., to Robertshaw Controls Company. Valve control system. 3,709,460, 1-9-73, Cl. 251-11.000.
McIntosh, Harold A., to Robertshaw Controls Company. Valve construction with modulating diaphragm construction and method. 3,717,301, 2-20-73, Cl. 236-12.00a.
McIntosh, Harold A., to Robertshaw Controls Company. Electrical time lock-out system. 3,721,866, 3-20-73, Cl. 317-141.00r.
McIntosh, Harold A.; Slocum, Gordon K.; and Koskolos, Nick J., to Robertshaw Controls Company. Fusible link assembly. 3,740,688, 6-19-73, Cl. 337-414.000.
McIntosh, Harold A.; and Yeaman, George A., to Robertshaw Controls Company. Adjustable actuating level current sensing relay. 3,760,309, 9-18-73, Cl. 335-1.000.

McIntosh, Harold A., to Robertshaw Controls Company. Sequential loading system having auxiliary switches. 3,770,977, 11-6-73, Cl. 307-41.000.
McIntosh, Ian Arthur; Bowers, Norman Josh; and Bowers, Brian Alfred, to Air Advantage (Australia) Pty., Limited. Rock working implement carrier. 3,746,104, 7-17-73, Cl. 173-43.000.
McIntosh, James A., to Mack-Wayne Plastics Company. Tamper-proof closure. 3,756,444, 9-4-73, Cl. 215-9.000.
McIntosh, Kenneth W., to Goodyear Tire & Rubber Company, The. Method for application of viscous hot melt adhesive. 3,746,570, 7-17-73, Cl. 117-102.00a.
McIntosh Laboratory, Inc.: *See—*
Corderman, Sidney A., 3,721,861.
Russell, Roger Howard, 3,715,501.
McIntosh, Lawrie G., to Russell Holdings Limited. Toaster for frankfurter and frankfurter bun. 3,747,507, 7-24-73, Cl. 99-339.000.
McIntosh, Michael D.; and Scott, Donald K., Jr., to Landis Tool Company. Electronic stepping drive for DC torque motor. 3,766,459, 10-16-73, Cl. 318-603.000.
McIntosh, Ronald C.: *See—*
Purdy, Haydn V.; and McIntosh, Ronald C., 3,707,902.
McIntosh, Ronald Campbell: *See—*
Purdy, Haydn Victor; and McIntosh, Ronald Campbell, 3,747,484.
McIntosh, Terence D.: *See—*
Howard, John; and McIntosh, Terence D., 3,716,574.
Howard, John; and McIntosh, Terence D., 3,754,937.
McIntosh, Walter L.; and Schmidt, Dale M., to Log Etronics Inc. Copy density reading and exposure control system. 3,734,630, 5-22-73, Cl. 356-203.000.
McInturff, Alfred D.; and Abbatiello, Frank J., to United States of America, Atomic Energy Commission. Resistive envelope for a multifilament superconductor wire. 3,743,986, 7-3-73, Cl. 335-216.000.
McIntyre, Daniel, to Emhart Corporation. Carton partition forming and article handling machine. 3,760,557, 9-25-73, Cl. 53-159.000.
McIntyre, David J. Multi-tray instrument case. 3,777,882, 12-11-73, Cl. 206-16.00s.
McIntyre, Donald E., to Ambassador International, Inc. Credit card carrying case. 3,759,305, 9-18-73, Cl. 150-39.000.
McIntyre, James E.; Piccone, Dante E.; and Somos, Istvan, to General Electric Company. High arrangement frequency SCR gating. 3,740,584, 6-19-73, Cl. 307-252.00g.
McIntyre, Kevin M. Detecting impaired heart mechanical performing and apparatus therefor. 3,776,221, 12-4-73, Cl. 128-205.000.
McIntyre, Mary Barbara. Pop-up pocket carrying bag. 3,746,066, 7-17-73, Cl. 150-33.000.
McIntyre, Maurice J.: *See—*
Rennie, David G.; and McIntyre, Maurice J., 3,712,478.
McIntyre, Richard F., to United States Elevator Corporation. Elevator rail grab safety apparatus. 3,762,512, 10-2-73, Cl. 188-189.000.
McIntyre, Robert John; and Sprigings, Howard Charles, to RCA Limited. Quadrant photodiode. 3,714,491, 1-30-73, Cl. 313-96.000.
McIsaac, Donald N. Irrigation and frost preventation method and apparatus. 3,755,961, 9-4-73, Cl. 47-2.000.
McIver, Donald A., to Westinghouse Electric Corporation. Method and apparatus for providing sequential turn-on and turn-off control signals for a chopper. 3,747,000, 7-17-73, Cl. 328-75.000.
McIver, Donald J., to Keystone International, Inc. Flow diverter valve. 3,773,062, 11-20-73, Cl. 137-1.000.
McIver, Peter John, to Cominco Ltd. Solid polyphosphoric acid. 3,777,008, 12-4-73, Cl. 423-316.000.
McIver, Robert Faulds; and Marchbank, Frederick Albert Leslie, to United Kingdom Atomic Energy Authority. Removable covers for apertures in pressure vessels. 3,713,459, 1-30-73, Cl. 137-357.000.
McIver, Robert T., Jr., to Leland Stanford Junior University, The, Board of Trustees of the. Method and apparatus for pulsed ion cyclotron resonance spectroscopy. 3,742,212, 6-26-73, Cl. 250-41.9ds.
McIver, William; and Mattingly, William R., Jr., to International Telephone and Telegraph Corporation. Crimping device. 3,728,889, 4-24-73, Cl. 72-402.000.
McJones, Robert W. Fill limiter, check and safety valve. 3,709,241, 1-9-73, Cl. 137-71.000.
McJones, Robert W. Pressure gauge isolator. 3,718,046, 2-27-73, Cl. 73-395.000.
McJunkin, James G., to Rohr Industries, Inc. Folding seat for transportation type vehicle. 3,762,764, 10-2-73, Cl. 297-14.000.
McKain, Rodger W.: *See—*
Beckert, Werner F.; Dengel, Ottmar H.; and McKain, Rodger W., 3,734,863.
McKaveney, James P., to Occidental Petroleum Corporation. Process for the removal of ionic metallic impurities from water. 3,766,036, 10-16-73, Cl. 204-150.000.
McKay, Alexander S.: *See—*
Hall, Hugh E., Jr.; McKay, Alexander S.; and Paap, Hans J., 3,772,513.
McKay, Cameron E.: *See—*
Barker, George P.; and McKay, Cameron E., 3,739,503.
McKay, Cameron Edward; and Barker, George Paton. Endless bucket dredge with articulated ladder and swell compensator. 3,734,564, 5-22-73, Cl. 299-9.000.
McKay, Donald Edward, to American Cyanamid Company. Polyethylene terephthalate, nylon and organic esters of cellulose dyed with 5-(2-nitro-p-anisylazo) barbituric acid. 3,754,857, 8-28-73, Cl. 8-41.00b.
McKay, Edwin C., to Climate Conditioning Corporation. Method for making pipe reducers. 3,755,524, 8-28-73, Cl. 264-158.000.
McKay, James G., to Kiwi Coders Corporation. Pivotable inking device with guard means for code dating apparatus. 3,745,920, 7-17-73, Cl. 101-329.000.
McKay, James G., to Kiwi Coders Corporation. Numberer for printing wheel. 3,774,532, 11-27-73, Cl. 101-111.000.
McKay, Richard H.: *See—*
Kirby, James D.; Hetzel, Douglas R.; McKay, Richard H.; Snydacker, James U.; and Ziebold, Paul G., 3,779,453.
McKay, Robert Bruce: *See—*
Langley, Robert; and McKay, Robert Bruce, 3,732,118.
McKay, Robert Bruce, to Ciba-Geigy AG. Process for the production of flocculation resistant pigments. 3,770,476, 11-6-73, Cl. 106-309.000.
McKay, Robert Bruce; and Bradley, Gordon Frank, to Ciba-Geigy AG. Diarylide pigment compositions. 3,776,749, 12-4-73, Cl. 106-288.00q.
McKay, Robert S.: *See—*
Terzian, Rouben; McKay, Robert S.; and Glass, Marvin I., 3,708,913.
McKay, Roderick, to Weber Marking Systems, Inc. Handprinter construction. 3,752,071, 8-14-73, Cl. 101-125.000.
McKay, Russell M., Sr., to Lockheed Missiles & Space Company, Inc. Three axis inspection probe. 3,766,653, 10-23-73, Cl. 33-174.001.
McKay, William P.: *See—*
Ansevin, Ronald W.; Avetta, Edward D.; and McKay, William P., 3,770,969.
McKean, Edwin M.: *See—*
Crumlish, Bernard J., 3,771,792.
McKean, George W.; and Benson, Hugh H., to Petro-Electronics, Inc. Drilling-fluid control-monitoring apparatus. 3,726,136, 4-10-73, Cl. 73-155.000.
McKean, Larry D. Stadium seat or similar article. 3,759,570, 9-18-73, Cl. 297-236.000.
McKearney, James L.: *See—*
Fine, Hyman M.; and McKearney, James L., 3,738,530.
McKechnie, John C.; and Grimmer, Paul D., to United States of America, Navy. Visual display simulator. 3,720,007, 3-13-73, Cl. 35-12.00n.
McKee, Arthur G., & Company: *See—*
Glover, Warren E., 3,780,890.
Greaves, Melvin J., 3,722,871.
Greaves, Melvin J.; and Werner, Tage, 3,733,065.
McKee Baking Company: *See—*
McKee, Oather D.; and Whitmill, Robert L., 3,767,089.
Whitmill, Robert L., 3,752,330.
McKee Button Company: *See—*
Strouse, James L., 3,722,436.
McKee, Clyde M.; Scott, Ward; and Shapiro, Sandor. Automatically controlled mirrors. 3,761,164, 9-25-73, Cl. 350-307.000.
McKee, Donald H.: *See—*
Edwards, Robert E.; and McKee, Donald H., 3,760,824.
McKee, Douglas W.; and Scarpellino, Anthony J., Jr., to General Electric Company. Ammonia fuel cell with iridium catalyst and method of using the cell. 3,730,774, 5-1-73, Cl. 136-86.00r.
McKee, Douglas W., to General Electric Company. Method of treating a carbon current collection brush and brush resulting therefrom. 3,772,080, 11-13-73, Cl. 117-228.000.
McKee, Edward S., to Eastman Kodak Company. Film feeding apparatus. 3,724,776, 4-3-73, Cl. 242-195.000.
McKee, Henry O.: *See—*
Fowler, Aubrey A., Jr.; and McKee, Henry O., 3,711,581.
McKee, James B.; and Canaday, Jon L., to Aid For Business, Incorporated. Document identification and protection stem. 3,709,524, 1-9-73, Cl. 282-22.00r.
McKee, James E., to Republic National Bank of Dallas, Irving Trust Company and Union Bank, mesne. Powered roller mechanism. 3,721,130, 3-20-73, Cl. 74-86.000.
McKee, James Glen; and Towell, Gordon, to Canadian Industries, Limited. Explosive cartridge. 3,760,728, 9-25-73, Cl. 102-24.00r.
McKee, James W.: *See—*
Gannett, James R.; McKee, James W.; Ronberg, Henry E.; and Warner, John D., 3,726,497.
McKee, John A.: *See—*
Joo, Louis A.; McKee, John A.; and Shea, Frederick L., 3,718,493.
McKee, Kenneth R. Apparatus for starting rope-pull engines. 3,718,129, 2-27-73, Cl. 123-179.00p.
McKee, Leffler H.; and Roeber, Henry W., to GTE Sylvania Incorporated. Color cathode ray tube of the shadow mask variety. 3,772,555, 11-13-73, Cl. 313-85.00s.



McKee, Leonard B.: *See—*
Troughton, Thomas D.; and McKee, Leonard B., 3,745,035.
McKee, Lewis W., to Barden Corporation, The. Ball bearing with hollow truncated spherical balls. 3,748,004, 7-24-73, Cl. 308-212.000.
McKee, Lloyd Dale, Jr. Breading machine apparatus. 3,739,743, 6-19-73, Cl. 118-19.000.
McKee, Oather D.; and Whitmill, Robert L., to McKee Baking Company. Apparatus for deposition discrete articles, such as raisins, upon a carrier. 3,767,089, 10-23-73, Cl. 222-221.000.
McKee, Robert C., to Institute of Paper Chemistry, The. Apparatus and method for testing the runnability of corrugating medium. 3,776,029, 12-4-73, Cl. 73-88.00r.
McKee, Thomas J.: *See—*
Over, David J.; Denhart, William L.; and McKee, Thomas J., 3,760,561.
McKee, William C.: *See—*
Martin, Paul H.; and McKee, William C., 3,734,239.
McKeegan, James J.; Cheney, Oliver F.; and Bash, Ignatius F., to Alcotronics Corporation. Time accounting apparatus. 3,740,759, 6-19-73, Cl. 346-44.000.
McKeen, Leighton R., to Farah Manufacturing Company, Inc. Work feed control. 3,736,894, 6-5-73, Cl. 112-203.000.
McKeever, Earl J. Wall clamp for electrical cords. 3,708,778, 1-2-73, Cl. 339-75.00p.
McKeever, Leland Dennis; and Cheng, Wen-Jiu, to Dow Chemical Company, The. Tertiarybutyl styrene/butadiene block copolymers as adhesives. 3,728,193, 4-17-73, Cl. 156-334.000.
McKeithan, Wesley L.: *See—*
Spisak, Raymond J.; Becker, Robert N.; and McKeithan, Wesley L., 3,731,018.
McKellin, Wilbur H.: *See—*
Mageli, Orville Leonard; and McKellin, Wilbur H., 3,770,770.
McKelvey, Richard E., to Kennametal, Inc. Cutting insert. 3,733,664, 5-22-73, Cl. 29-95.000.
McKelvey, William John: *See—*
Bidlack, Richard Henry; McKelvey, William John; and Rezelman, James Alan, 3,742,154.
McKendree, Jesse R., Jr.; and Koenig, John R., to United States of America, Air Force. High precision dilatometer. 3,748,892, 7-31-73, Cl. 73-16.000.
McKendrick, Lorne J. Pneumatic balancing hoist. 3,773,296, 11-20-73, Cl. 254-189.000.
McKendry, John K.: *See—*
Gamertsfelder, George R.; Goldfischer, Lester I.; McKendry, John K.; and Vesper, Richard M., 3,747,103.
McKendry, Lennon H.: *See—*
Edamura, Fred Y.; McKendry, Lennon H.; and Larsen, Eric R., 3,709,926.
Larsen, Eric R.; McKendry, Lennon H.; and Edamura, Fred Y., 3,714,233.
McKendry, Lennon H.; Larsen, Eric R.; and Edamura, Fred Y., to Dow Chemical Company, The. Haloalkoxy- and haloalkylthiophenyl phosphates, phosphorothioates and phosphorodithioates. 3,755,511, 8-28-73, Cl. 260-951.000.
McKendry, Lennon M., to Dow Chemical Company, The. Esters of aminohalopyridyloxy acids. 3,755,339, 8-28-73, Cl. 260-295.00r.
McKenna, Joseph V., to McWilker Enterprises. Delayed action load switch. 3,732,484, 5-8-73, Cl. 323-19.000.
McKenna, Lawrence W., Jr.; and Gardner, Donald M., to Monsanto Company. Aqueous alkali removable pressure sensitive adhesives. 3,763,117, 10-2-73, Cl. 260-78.50e.
McKenna, Ronald F.: *See—*
Andrysiak, Stanislaw J.; and McKenna, Ronald F., 3,712,063.
McKenney, Hunter R.: *See—*
Bradshaw, Harry; McKenney, Hunter R.; and McKenzie, Roland W., 3,753,460.
McKenney, John D., to Royal Industries, Inc. Tire changer. 3,722,570, 3-27-73, Cl. 157-1.280.
McKenney, John D.; and Rumsey, Thomas R., to Royal Industries, Inc. Tank. 3,774,679, 11-27-73, Cl. 165-111.000.
McKenney, Neal D.; and Dennis, John, Jr. Charcoal igniting apparatus. 3,779,693, 12-18-73, Cl. 431-327.000.
McKenny, Vernon G., to Mostek Company. Dynamic random access memory. 3,727,196, 4-10-73, Cl. 340-173.0dr.
McKenny, Vernon George: *See—*
Proebsting, Robert J.; and McKenny, Vernon George, 3,778,783.
McKenny, Vernon George; and Donnelly, Robert M., to Mostek Company. Dynamic random access memory with a secondary source. 3,761,899, 9-25-73, Cl. 340-173.00r.
McKenry, Robert J.; and Oaks, Seibert S., to Kennametal Inc. Mining tool. 3,720,273, 3-13-73, Cl. 175-335.000.
McKenzie, Donald J.; and Friedly, Ernest F. Centrifuges. 3,709,429, 1-9-73, Cl. 233-26.000.
McKenzie, Joe A.: *See—*
Lindsey, Carl B.; and McKenzie, Joe A., 3,714,587.
McKenzie, Joe A.; and Engel, Charles E., to United States of America, Navy. Solid state fuze select circuit. 3,734,021, 5-22-73, Cl. 102-70.20r.
McKenzie, Joe A.; and Lindsey, Carl B., to United States of America, Navy. Quadrant-selective linear phase correlator. 3,737,771, 6-5-73, Cl. 324-83.00a.
McKenzie, Leo A. Bricklayers line holder. 3,729,828, 5-1-73, Cl. 33-86.000.
McKenzie, Malcolm S., to Sandmaster Company. Dual element air filter. 3,710,562, 1-16-73, Cl. 55-487.000.
McKenzie, Robert J. Apparatus for stabilizing a barge. 3,740,957, 6-26-73, Cl. 61-48.000.
McKenzie, Robert K., to Morton Manufacturing Company. Curved sliding door assembly. 3,740,898, 6-26-73, Cl. 49-409.000.
McKenzie, Robert L. Snow and ice melting device. 3,747,587, 7-24-73, Cl. 126-343.50r.
McKenzie, Roland W.: *See—*
Bradshaw, Harry; McKenney, Hunter R.; and McKenzie, Roland W., 3,753,460.
McKenzie, Roland W.; and Stansberry, Richard, to City Tank Corporation. Container lift system. 3,765,555, 10-16-73, Cl. 214-302.000.
McKenzie, Ross A., to National Rubber Company, Limited. Elastomeric bumper. 3,734,557, 5-22-73, Cl. 293-71.00r.
McKenzie, Ross B. Ridge former. 3,760,885, 9-25-73, Cl. 172-574.000.
McKenzie, Roy Victor William: *See—*
Howie, David Malcolm; and McKenzie, Roy Victor William, 3,764,728.
McKenzie, Samuel: *See—*
Allum, Keith George; McKenzie, Samuel; and Pitkethly, Robert Chalmers, 3,726,809.
McKeon, James E.: *See—*
Weinberg, Kurt; and McKeon, James E., 3,780,112.
McKeon, John Francis; Heiple, Danforth Kingsbury; and Carr, Louis Eugene, to Westinghouse Air Brake Company. Railed vehicle-carrier system. 3,762,337, 10-2-73, Cl. 105-159.000.
McKeown, Arthur J. Lock-on hair curler assembly. 3,717,156, 2-20-73, Cl. 132-40.000.
McKeown, James E.; Linkroum, Irving E.; and Phinney, Earl M., to Bendix Corporation, The. Blasting machine with overvoltage and undervoltage protection for the energy storage capacitor. 3,721,885, 3-20-73, Cl. 320-1.000.
McKeown, James E.; and Michel, Donald E., to Bendix Corporation, The. Electrical contact. 3,725,853, 4-3-73, Cl. 339-252.00r.
McKeown, James E., to Bendix Corporation, The. Direct current powered ignition system with blocking oscillator. 3,731,144, 5-1-73, Cl. 315-209.00t.
McKeown, James E.; and Michel, Donald E., to Bendix Corporation, The. Printed circuit board connector. 3,731,252, 5-1-73, Cl. 339-17.00l.
McKeown, James E.; and Phinney, Earl M., to Bendix Corporation, The. Blasting machine. 3,752,081, 8-14-73, Cl. 102-70.20r.
McKeown, John C.: *See—*
Hansen, Knute C.; and McKeown, John C., 3,744,928.
McKeown, Robert R.: *See—*
Chase, Harold E., 3,759,060.
McKeown, William L., to Lek-Trol, Inc. Timing control apparatus. 3,712,987, 1-23-73, Cl. 307-41.000.
McKernan, Francis Peter, to Kemi Corporation Limited. Manifolding or copying apparatus. 3,712,643, 1-23-73, Cl. 282-29.00b.
McKerreghan, Michael H., to Texas Instruments, Incorporated. Glass dual-in-line header. 3,781,457, 12-25-73, Cl. 174-52.00s.
McKethan, Eddie B. Convertible articulated vehicle. 3,759,545, 9-18-73, Cl. 280-423.00r.
McKibben, James L.: *See—*
Mason, Jerry M.; and McKibben, James L., 3,743,943.
McKibben, James L., to General Motors Corporation. Bias voltage generator for the voltage-responsive tuning elements in an electronically tuned radio receiver. 3,758,865, 9-11-73, Cl. 325-418.000.
McKibben, James W.: *See—*
Goodman, Brian L.; and McKibben, James W., 3,764,525.
McKibben, James W.; Goodman, Brian L.; and Higgins, Robert B., to Ecodyne Corporation. Method for treating water containing suspended solids from a sanitary system. 3,770,624, 11-6-73, Cl. 210-8.000.
McKibbin, Dean K., to Pittsburgh-Des Moines Steel Company. Expanding tube seal for floating roof structure. 3,724,705, 4-3-73, Cl. 220-26.00r.
McKie, James E., Jr., to Pfizer Inc. Mass screening test for serum trypsin inhibitors. 3,730,843, 5-1-73, Cl. 195-103.50r.
McKie, Robert T., to Copper Range Company. Collection of sulfur values from flue gasses generated by metallic sulfide smelting and converting. 3,775,094, 11-27-73, Cl. 75-74.000.
McKillip, William J.: *See—*
Throckmorton, Peter E.; McKillip, William J.; and Richards, Harvey J., 3,767,615.
McKillop, Alexander: *See—*
Taylor, Edward C.; and McKillop, Alexander, 3,780,021.
McKim, Robert G.: *See—*
Damm, David A.; and McKim, Robert G., 3,776,380.
McKimm, Robert W.: *See—*

Sulcs, Juris; and McKimm, Robert W., 3,723,784.
McKindra, Clayton D.: *See—*
Campagnuolo, Carl J.; McKindra, Clayton D.; Sewell, Clinton J.; Villarroel, Fernando; and Woolston, Lionel L., 3,712,170.
McKinley, David W.; and Parmerlee, James K., to United States of America, Navy. Bi-stable brake. 3,741,353, 6-26-73, Cl. 188-171.000.
McKinley, Harry R. Catadioptric telescope. 3,711,185, 1-16-73, Cl. 350-201.000.
McKinley, Jack M.: *See—*
McKinley, Roe L.; and McKinley, Jack M., 3,751,905.
McKinley, Larry E.; Johnson, Clarence S.; and Langille, Justin E., III, to United States of America, Navy. Hull inspection platform. 3,741,143, 6-26-73, Cl. 114-.500.
McKinley, Roe L.; and McKinley, Jack M. Gas-steam generating apparatus. 3,751,905, 8-14-73, Cl. 60-39.050.
McKinley, Suzanne V.; and Rakshys, Joseph W., Jr., to Dow Chemical Company, The. Cross-linked styrylphosphine resins. 3,708,462, 1-2-73, Cl. 260-80.780.
McKinley, Suzanne V.; and Rakshys, Joseph W., Jr., to Dow Chemical Company, The. Resins with phosphorane pendant groups and process for preparing same. 3,725,365, 4-3-73, Cl. 260-80.710.
McKinney, Ira D.: *See—*
Haertling, Gene H.; Land, Cecil E.; and McKinney, Ira D., 3,741,627.
McKinney, Joel D.: *See—*
Bryson, Millard C.; McKinney, Joel D.; Titmus, Robert A.; and White, Frederick K., 3,781,197.
McKinney, Joel D.; and Paraskos, John A., to Gulf Research & Development Company. Two-zone hydrodesulfurization of asphaltic fuel oil. 3,761,399, 9-25-73, Cl. 208-210.000.
McKinney, Joel D.; and Paraskos, John A., to Gulf Research & Development Company. Production of low sulfur asphaltic fuel oil. 3,775,303, 11-27-73, Cl. 208-210.000.
McKinney, Joel D.; and Paraskos, John A., to Gulf Research & Development Company. Increasing the ratio of aromatics to saturates in hydrodesulfurization of heavy asphaltic feed oil. 3,775,304, 11-27-73, Cl. 208-210.000.
McKinney, Joel D.; and Paraskos, John A., to Gulf Research & Development Company. Hydrodesulfurization process for producing a heavy asphaltic fuel oil. 3,775,305, 11-27-73, Cl. 208-210.000.
McKinney, John J., to MCW Holdings Ltd. Garbage compactor. 3,727,546, 4-17-73, Cl. 100-229.00a.
McKinney, Jonathan R. Automatic grinding machine. 3,717,052, 2-20-73, Cl. 76-48.000.
McKinney, Joseph Charles: *See—*
Malm, Marvin Forest; and McKinney, Joseph Charles, 3,708,792.
McKinney Manufacturing Company, mesne: *See—*
Gwozdz, Joseph W., 3,725,973.
McKinnon, Charles N., Jr. Arrangement for explosively formed connections and method of making such connections. 3,737,975, 6-12-73, Cl. 29-421.000.
McKinnon, James Willard. Assembly for the display and storage of science demonstration units or the like. 3,717,258, 2-20-73, Cl. 211-87.000.
McKinnon, John P., to Westinghouse Electric Corporation. Electric disconnect switch having improved counter balance mechanism. 3,725,619, 4-3-73, Cl. 200-48.00a.
McKinnon, Matthew C.; and MacIver, Bernard A., to General Motors Corporation. Method of making semiconductor layers on high purity alumina layers. 3,764,507, 10-9-73, Cl. 204-192.000.
McKinnon, Neil Alexander: *See—*
Stringer, Robert Kenneth; McKinnon, Neil Alexander; and Williams, Lloyd Stuart, 3,772,042.
McKinnon, Richard E., to Specialized Products, Inc. Apparatus for stirring grain. 3,776,512, 12-4-73, Cl. 259-102.000.
McKinven, Robert, Jr., to Chicago Rawhide Manufacturing Company. Apparatus for removing parts from molding cavities. 3,767,063, 10-23-73, Cl. 214-1.0bb.
McKinzie, Preston V., to Michaels of Oregon Co. Magazine tube mounting for sling swivel. 3,715,827, 2-13-73, Cl. 42-85.000.
McKirnan, Robert A., to Knight Engineering & Molding Co. Carafe. 3,760,972, 9-25-73, Cl. 220-9.00r.
McKissick, Lance R.; and Kolowski, Michael A., to Goodyear Tire & Rubber Company, The. Pneumatic tire. 3,735,791, 5-29-73, Cl. 152-352.000.
McKittrick, Clarence: *See—*
Cowles, Tommie; and McKittrick, Clarence, 3,768,780.
McKnight, Edmund; and Tuttle, Michale Lee, to General Electric Company. Ultrasonic nozzle measuring system. 3,732,946, 5-15-73, Cl. 181-.5np.
McKnight, Robert A., to Singer Company, The, mesne. Aircraft simulator visual system. 3,718,989, 3-6-73, Cl. 35-12.00n.
McKnight, Robert J.: *See—*
Gotham, Robert W.; McKnight, Robert J.; and Neuwirth, Frank F., 3,726,376.
McKnight, Thomas L. Strain relief clamp. 3,732,527, 5-8-73, Cl. 339-103.00m.
McKown, Gary C.; Simons, Gerald F.; and Lynch, Frederick W., to Sperry Rand Corporation. Digital electrohydraulic servo system. 3,727,520, 4-17-73, Cl. 91-433.000.
McKown, Howard P., Jr., to Brecze Corporation, Inc. Variable length tangential worm driven clamp. 3,769,665, 11-6-73, Cl. 24-274.00r.
McKown, Roy P. Work support apparatus with pipe grooving tool. 3,756,101, 9-4-73, Cl. 82-34.000.
McKusick, John C. Cam-forming method and apparatus. 3,726,183, 4-10-73, Cl. 90-13.900.
McLain, Charles D.: *See—*
Ford, James A.; Saunders, Stuart R.; Caule, Elmer J.; and McLain, Charles D., 3,728,155.
McLain, Charles D., to Olin Corporation. High frequency weld box. 3,733,453, 5-15-73, Cl. 219-8.500.
McLain, John H. Solder coating apparatus. 3,724,418, 4-3-73, Cl. 118-69.000.
McLain, Philippe Hardy-The, to Soo Valley Company. Method of securing a thread to a bobbin and a thread wound bobbin. 3,719,332, 3-6-73, Cl. 242-125.100.
McLamore, William M.: *See—*
Chang, Yi Han; Evanega, George R.; and McLamore, William M., 3,729,564.
McLane, Cletus (by Dexter Axle Co., Inc.). Electric brake. 3,757,903, 9-11-73, Cl. 188-138.000.
McLaren, Edwin C. Game piece. 3,710,508, 1-16-73, Cl. 46-154.000.
McLaren, Edwin C.; and Lund, Raymond, to Hoerner-Waldorf Corporation. One piece reclosable carton. 3,780,932, 12-25-73, Cl. 229-37.00r.
McLaren, Gordon A: *See—*
Sommer, Harry J.; McLaren, Gordon A; Feichtmeir, Edmund F.; Larsen, Robert G.; and Wittsell, Lawrence E., 3,748,115.
McLaren, James C., to Tenneco Inc. Pleat deformation control for pleated fluid treatment media. 3,752,321, 8-14-73, Cl. 210-493.000.
McLaren, John Vincent: *See—*
Epton, Roger; McLaren, John Vincent; and Thomas, Trevor Henry, 3,761,357.
McLaren, Vincent H., Jr.; and Pnachal, Navnit, to Imperial Knife Associated Companies, Inc. Electric can opener with can sensing means. 3,740,840, 6-26-73, Cl. 30-4.00r.
McLarnon, Robert Porter. Lock. 3,759,072, 9-18-73, Cl. 70-59.000.
McLarty, Donald M.: *See—*
Snyder, Jack T.; McLarty, Donald M.; and Kenley, Stephen L., 3,774,291.
McLarty, Shirley, to Cary Products, Inc. Fastener. 3,713,678, 1-30-73, Cl. 287-189.360.
McLauchlan, John, to Houdaille Industries, Inc. Buckling column bumper system with vertical displacement-preventing means. 3,738,696, 6-12-73, Cl. 293-70.000.
McLauchlan, John, to Houdaille Industries, Inc. Means for mounting bumpers on rectilinear energy absorbers. 3,773,373, 11-20-73, Cl. 293-99.000.
McLaughlin, Alexander; Nadeau, Herbert G.; and Rose, James S., to Upjohn Company, The. Copolymer foams containing isoryanurate, carbodiimide and either amide or imide linkages. 3,723,364, 3-27-73, Cl. 260-2.5ac.
McLaughlin, Charles R.; and West, Jerry B., to Century Geophysical Corporation. High resolution telemetry for random pulse outputs. 3,720,910, 3-13-73, Cl. 340-18.00r.
McLaughlin, Charles S. Golf club swing training device. 3,776,556, 12-4-73, Cl. 273-186.00a.
McLaughlin, Emmett J.: *See—*
Coffey, William F.; Coley, Kenneth R.; and McLaughlin, Emmett J., 3,746,936.
McLaughlin, George B.; and Wilcox, George A., to Kendall Company, The. Apparatus for altering weight profile or picker laps. 3,765,057, 10-16-73, Cl. 19-89.000.
McLaughlin, Gordon, to Eddy Match Company Limited. Locking system for filing cabinets. 3,767,280, 10-23-73, Cl. 312-214.000.
McLaughlin Gormley King Company: *See—*
Wells, Frank E., 3,716,634.
McLaughlin, Gregory M.: *See—*
Fountain, Roger; and McLaughlin, Gregory M., 3,749,617.
McLaughlin, Herbert L., to General Electric Company. Reluctance synchronous motors and rotors for same. 3,758,800, 9-11-73, Cl. 310-211.000.
McLaughlin, James H.: *See—*
Bajek, Walter A.; and McLaughlin, James H., 3,751,229.
Bajek, Walter A.; and McLaughlin, James H., 3,755,087.
Bajek, Walter A.; and McLaughlin, James H., 3,756,921.
Bajek, Walter A.; and McLaughlin, James H., 3,761,358.
McLaughlin, James H., to Universal Oil Products Company. Reactant ratio control process. 3,768,955, 10-30-73, Cl. 431-12.000.
McLaughlin, John T. Cabinet for dispensing medicines at predetermined times. 3,762,601, 10-2-73, Cl. 221-2.000.
McLaughlin, Joseph J., Jr. Portable device. 3,766,960, 10-23-73, Cl. 160-405.000.



McLaughlin, Joseph L., Jr., to Itek Corporation. Wide angle, narrow bandwidth laser detection system. 3,761,184, 9-25-73, Cl. 356-186.000.
McLaughlin, Paul, to Racal-Thermionic Limited. Computer-compatible tape and readings system therefor. 3,766,529, 10-16-73, Cl. 340-172.500.
McLaughlin, Thomas A.; Swithenbank, Colin; and Yih, Roy Y., to Rohm & Haas Company. 3,5-Dichloro-N-(1,1,dimethyl-2-propynyl) benzimidoyl halides and derivatives. 3,742,051, 6-26-73, Cl. 260-566.00d.
McLaughlin, Thomas D., to O.R.O.M. Inc. Method and system for read only memory. 3,727,195, 4-10-73, Cl. 340-173.0lm.
McLaughlin, Thomas M., to American Formed Plastics Corporation. Refrigerator structure. 3,708,997, 1-9-73, Cl. 62-449.000.
McLaughlin, Veronica H. Skin conditioning apparatus. 3,712,307, 1-23-73, Cl. 128-368.000.
McLaurin, Leroy D.: *See—*
Scalzo, Augustine J.; and McLaurin, Leroy D., 3,759,038.
McLean, Benjamin F. Hot box locaters with circulating fluid system. 3,745,333, 7-10-73, Cl. 246-169.00d.
McLean, Byron R.; Shriner, Donald R.; and Swan, John C., to Corning Glass Works. Door latching system. 3,757,084, 9-4-73, Cl. 219-413.000.
McLean, James O., to General Electric Company. Hair dryer with selective tiltable hood. 3,731,396, 5-8-73, Cl. 34-99.000.
McLean, John; and Charron, Louis Donald, to Northern Electric Company Limited. Wire cutter. 3,718,971, 3-6-73, Cl. 30-241.000.
McLean, Michael B.: *See—*
Velicer, Wencel J.; Krishnaiyer, Ramesh; McLean, Michael B.; and LaMore, Donald J., Jr., 3,746,044.
McLean, Michael B., to Johnson Service Company. Frequency to voltage converter. 3,723,771, 3-27-73, Cl. 307-261.000.
McLean, Michael B., to Johnson Service Company. Voltage to frequency converter. 3,742,379, 6-26-73, Cl. 331-111.000.
McLean, Ralph M., Jr. Locking plate for axle end cap. 3,741,603, 6-26-73, Cl. 295-36.00r.
McLean, Robert E.; and Farkas, Joseph J., to Rival Manufacturing Company. Can opener with removable plate which carries the cutting element thereon. 3,722,089, 3-27-73, Cl. 30-4.00r.
McLean, Robert E., to Rival Manufacturing Company. Electric can opener with removable cutter mounting plate and pivotally attached hand lever. 3,724,069, 4-3-73, Cl. 30-4.00r.
McLean, Robert E., to Rival Manufacturing Company. Power operated can opener with unique thrust link. 3,736,659, 6-5-73, Cl. 30-4.00r.
McLean, William; and Christie, Sidney A., to United States of America, Navy. Projector of acoustic energy. 3,764,965, 10-9-73, Cl. 340-12.000.
McLean, William B.: *See—*
Finnegan, William G.; Burkardt, Lohr A.; McLean, William B.; McEwan, William S.; and Larocca, Edward W., 3,742,859.
McLean, William B., to United States of America, Navy. Guided missile. 3,756,538, 9-4-73, Cl. 244-3.160.
McLees, Alan L.: *See—*
Butterfield, Max E.; Hoerr, Richard H.; McLees, Alan L.; and Proksch, Frederick D., 3,722,618.
McLelland, Jack I.; and Mangels, Theodore F., to Ocean Science and Engineering Inc. Fairing. 3,712,261, 1-23-73, Cl. 114-235.00f.
McLeod, David Peter; and Murphy, Patrick J., to Brunswick Corporation. Pinfall display on ball lift hood. 3,728,709, 4-17-73, Cl. 340-323.000.
McLeod, Donald Patterson, to Dowty Technical Developments Limited. Swash plate devices. 3,774,505, 11-27-73, Cl. 91-506.000.
McLeod, Gordon Donald, to Stauffer Chemical Company. Zinc dust coating composition. 3,730,743, 5-1-73, Cl. 106-1.000.
McLeod, Harold D. Quick load pressure pot. 3,733,032, 5-15-73, Cl. 239-373.000.
McLeod, John H., Jr., to Thoreson-McCosh, Inc. Valve for vacuum loader. 3,776,600, 12-4-73, Cl. 302-59.000.
McLeod, John W.; Gray, Laverne E.; and Booth, John F., to Lone Star Container Corporation. Winding board. 3,780,855, 12-25-73, Cl. 206-50.000.
McLeod, Melvin Elliott, to Alcan Research and Development, Limited. Procedure for quenching dross. 3,751,243, 8-7-73, Cl. 75-63.000.
McLeod, Murray J.: *See—*
Histed, John A.; Lawford, William H.; McLeod, Murray J.; Wendeborn, Robert G.; and Catford, Dennis R., 3,764,463.
McLeod, Norman William, to Commonwealth of Australia, The. Control of operation of a system. 3,745,418, 7-10-73, Cl. 317-40.00a.
McLeod, William J.: *See—*
Smith, Calvin S.; and McLeod, William J., 3,719,749.
McLernon, Michael, to Electrohome Limited. Signal receiver with a plurality of tuners and automatic switching system for cyclically energizing the same. 3,755,743, 8-28-73, Cl. 325-462.000.
McLinden, Hugh F., Jr. Simulated submarine target apparatus. 3,771,115, 11-6-73, Cl. 340-5.00d.
McLintic, William James, to Thorn Lighting Limited. Slide projectors. 3,768,900, 10-30-73, Cl. 353-98.000.
McLoughlin, Bernard J. Golf cart. 3,726,537, 4-10-73, Cl. 280-47.260.
McLoughlin, Joseph R., to General Electric Company. Curable composition comprising carbon fibers and a mixture of aliphatically unsaturated imides. 3,770,691, 11-6-73, Cl. 260-37.00n.
McLusker, Joseph Henry; and Perlman, Stuart Stanley, to RCA Corporation. Power control system employing piezo-ferroelectric devices. 3,740,582, 6-19-73, Cl. 307-252.00n.
McMackin, John J.: *See—*
Paruolo, Miller J.; McMackin, John J.; and McMeckin, James H., 3,758,215.
McMahan Brothers Mfg. Co., Inc.: *See—*
McMahan, Walter C., 3,719,327.
McMahan, Gene P.: *See—*
Hitchcock, Robert D.; and McMahan, Gene P., 3,722,579.
McMahan, J. Raymond: *See—*
Morris, Horton Harold; McMahan, J. Raymond; and Rogers, William I., 3,713,593.
Morris, Horton Harold; McMahan, J. Raymond; and Rogers, William I., 3,733,355.
McMahan, Walter C., to McMahan Brothers Mfg. Co., Inc. Drip irrigation nozzle. 3,719,327, 3-6-73, Cl. 239-454.000.
McMahan, William H., to American Laser Corporation. Ion laser plasma tube cooling device and method. 3,763,442, 10-2-73, Cl. 331-94.50d.
McMahon, Donald H., to Sperry Rand Corporation. Holographic non-isotropic diffusing screen. 3,708,217, 1-2-73, Cl. 350-3.500.
McMahon, Donald H., to Sperry Rand Corporation. Light deflector apparatus. 3,743,379, 7-3-73, Cl. 350-150.000.
McMahon, Donald H.; and Thaxter, James Bruce, to Sperry Rand Corporation. Phase modulation holographic data recording apparatus. 3,754,807, 8-28-73, Cl. 350-3.500.
McMahon, Donald H., to Sperry Rand Corporation. Coherent optical processor fingerprint identification apparatus. 3,771,124, 11-6-73, Cl. 340-146.30e.
McMahon, Donald H., to Sperry Rand Corporation. Optical processor fingerprint identification apparatus. 3,771,129, 11-6-73, Cl. 340-146.30e.
McMahon, Elihu Hassell. Tracking mounts for celestial ray detecting devices. 3,751,134, 8-7-73, Cl. 350-83.000.
McMahon, Eugene Joseph; Punderson, John Oliver; and Vitcusky, William Paul, to Du Pont de Nemours, E. I., and Company. Electrical cable with polymer oil insulation. 3,748,372, 7-24-73, Cl. 174-102.00r.
McMahon, Floyd J.: *See—*
Gill, Raymond B.; and McMahon, Floyd J., 3,776,315.
Gill, Raymond E.; and McMahon, Floyd J., 3,743,026.
Gill, Raymond E.; and McMahon, Floyd J., 3,770,065.
McMahon, John, to Dymo Industries, Inc. Cartridge for use with an embossing tool having self-loading tape-feed mechanism. 3,743,196, 7-3-73, Cl. 242-55.000.
McMahon, Kenneth C., to United States of America, Navy. Fire detection and suppression system for use in a decompression chamber. 3,756,320, 9-4-73, Cl. 169-2.00r.
McMahon, Krouse S.: *See—*
Eubanks, Lloyd S.; McMahon, Krouse S.; Payne, John T.; and Rosenberger, Frederick E., 3,769,177.
McMahon, Maurice T., Jr., to International Business Machines Corporation. Testing of non-linear circuits by accumulated result comparison. 3,740,646, 6-19-73, Cl. 324-73.00r.
McMahon, Maurice T., Jr., to International Business Machines Corporation. AC performance test for large scale integrated circuit chips. 3,781,670, 12-25-73, Cl. 324-57.00r.
McMahon, Maurice Thomas, Jr.: *See—*
Carpenter, Robert Gordon; Lindbloom, Eric; and McMahon, Maurice Thomas, Jr., 3,719,885.
McMahon, Vincent K.: *See—*
Godlewski, Joseph F., 3,753,587.
Godlewski, Joseph F., 3,758,143.
McMahon, William. Gear arrangement for providing an oscillating rotational motion. 3,730,654, 5-1-73, Cl. 418-34.000.
McMahon, William Raymond: *See—*
Collins, Dean Robert; and McMahon, William Raymond, 3,756,924.
McManama, Charles E. Portable sawmill having a horizontal traversing bandsaw. 3,721,146, 3-20-73, Cl. 83-795.000.
McMann, Renville H.: *See—*
Horowitz, Harvey M.; Decker, Saul M.; and McMann, Renville H., 3,767,852.
McMann, Renville H., to Columbia Broadcasting System, Inc. Single tube color television camera system and method. 3,755,620, 8-28-73, Cl. 178-5.4st.
McMann, Renville H., Jr.: *See—*
Horowitz, Harvey M.; and McMann, Renville H., Jr., 3,755,622.
McMann, Renville H., Jr. Apparatus for developing simultaneous color television signals including a striped color filter constructed to generate a pilot signal for component video signal separation. 3,715,465, 2-6-73, Cl. 178-5.4st.



McManus, Hugh D.; Wigal, Voorhis F.; and Long, Robert S., to Kil-
McMillen, Kenneth G.; deceased (by McMillen, Leanne S.; adminis-

McManus, Hugh D.; Wigal, Voorhis F.; and Long, Robert S., to Kilgore Corporation. Method and apparatus for manufacturing sparklers. 3,757,631, 9-11-73, Cl. 86-20.00r.
McManus, Ira J. Composite concrete slab and steel joist construction. 3,728,835, 4-24-73, Cl. 52-334.000.
McManus, James M., to Pfizer Inc. Process for lowering blood sugar levels. 3,714,364, 1-30-73, Cl. 424-326.000.
McManus, James M., to Pfizer Inc. N-alkyl tetrahydrocarbazoles. 3,752,823, 8-14-73, Cl. 260-315.000.
McManus, James M.; and Miller, Max W., to Pfizer Inc. Substituted aminomethylcarbazoles. 3,769,298, 10-30-73, Cl. 260-315.000.
McManus, James W., to Trak Microwave Corporation. Miniaturized ferrimagnetic circulator for microwaves. 3,739,302, 6-12-73, Cl. 333-1.100.
McManus, John B., Jr.: *See—*
O'Toole, Jerome M.; and McManus, John B., Jr., 3,739,604.
McManus, William K., to Sperry Rand Corporation. Gain compensated traveling wave tube. 3,753,030, 8-14-73, Cl. 315-36.000.
McMaster, Harold A., to Guardian Industries Corporation. Apparatus for conveyoring glass sheets through adjacent bending and tempering stations. 3,713,799, 1-30-73, Cl. 65-273.000.
McMaster, Harold A., to Guardian Industries Corporation. Apparatus for conveying glass sheets through adjacent bending and tempering stations. 3,723,085, 3-27-73, Cl. 65-182.00a.
McMaster, Leonard R.; Peterson, Sheldon T.; and Hughes, Frank M., to United States of America, National Aeronautics and Space Administration. Meteoroid detector. 3,763,691, 10-9-73, Cl. 73-12.000.
McMaster, Robert C.: *See—*
Mara, Glenn L.; and McMaster, Robert C., 3,780,256.
McMaster, Robert C.; and Libby, Charles C., to Ohio State University, The Board of trustees of the. System for measuring output power of a resonant piezoelectric electromechanical transducer. 3,708,745, 1-2-73, Cl. 324-56.000.
McMaster, Robert C., to Ohio State University, The. Power conversion means. 3,710,150, 1-9-73, Cl. 310-8.100.
McMaster, Robert C.; and Rhoten, Merle L., to Ohio State University, The. Pulse X-ray system with pulse field enhancement of film response. 3,719,824, 3-6-73, Cl. 250-65.00r.
McMaster, Robert C.; Libby, Charles C.; Minchenko, Hildegard M.; and Desaw, Frederick A., to Ohio State University, The. Metal working apparatus and process. 3,747,382, 7-24-73, Cl. 72-56.000.
McMath, Jack A., to Dover Corporation. Spring biased safety valve. 3,734,115, 5-22-73, Cl. 137-73.000.
McMath, Jack A.; and Wilson, Fred A., to Dover Corporation. Vapor recovery adapter. 3,771,566, 11-13-73, Cl. 137-625.490.
McMechan, Maurice H. Orchard heating system. 3,718,421, 2-27-73, Cl. 431-23.000.
McMeekin, James H.: *See—*
Paruolo, Miller J.; McMackin, John J.; and McMeekin, James H., 3,758,215.
McMenim, Michael Edward: *See—*
Clark, James; McMenim, Michael Edward; and Rose, Francis Leslie, 3,749,719.
McMichael, James W.: *See—*
Brown, Larry A.; and McMichael, James W., 3,731,775.
McMickle, Robert L. Spinning reel with controllably rotatable bail. 3,743,207, 7-3-73, Cl. 242-84.21a.
McMillan, Allen, to Bomac Manufacturing Corporation. Tobacco stripping stand assembly. 3,709,391, 1-9-73, Cl. 214-300.000.
McMillan, Allen G. Apparatus for encasing product. 3,726,060, 4-10-73, Cl. 53-138.00a.
McMillan Electronics Corporation: *See—*
McMillan, Robert D., Jr., 3,752,748.
McMillan, Gilman C.: *See—*
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McMillan, James R. Cluster boss saw for edger saw. 3,742,796, 7-3-73, Cl. 83-102.100.
McMillan, James R. Feed roll sensor for edger saw. 3,742,992, 7-3-73, Cl. 144-246.00r.
McMillan, James R. Method and means of gang saw lubrication and cooling. 3,750,503, 8-7-73, Cl. 83-16.000.
McMillan, James R. Edger saw guide plug. 3,772,956, 11-20-73, Cl. 83-827.000.
McMillan, Lonnie S.; Hutchinson, Arthur H.; and Gard, Leslie H., to Abbott Laboratories. Graphic recording apparatus and method. 3,767,850, 10-23-73, Cl. 178-6.70r.
McMillan, Robert D., Jr., to Airco, Inc. Rolling seal spirometer. 3,722,506, 3-27-73, Cl. 128-2.080.
McMillan, Robert D., Jr., to McMillan Electronics Corporation. Ozone generating apparatus and method. 3,752,748, 8-14-73, Cl. 204-157.10r.
McMillan, Stephen L., to General Electric Company. Belt mechanism. 3,765,268, 10-16-73, Cl. 74-640.000.
McMillan, Thurmond D.: *See—*
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McMillen, James W.; and Rhodes, Glenn E., to Westinghouse Electric Corporation. Portable circuit breaker levering device for metal-clad switchgear. 3,716,684, 2-13-73, Cl. 200-50.0aa.
McMillen, Kenneth G.; deceased (by McMillen, Leanne S.; administratrix), to Borg-Warner Corporation. Control arrangement for hydraulic systems. 3,768,372, 10-30-73, Cl. 91-412.000.
McMillen, Kenneth R.: *See—*
Fell, Ferol S.; Long, William D.; and McMillen, Kenneth R., 3,736,733.
McMillen, Leanne S.: *See—*
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McMillen, Richard Leo, to Lubrizol Corporation, The. Groups I and II metal-containing micellar complexes. 3,766,066, 10-16-73, Cl. 252-32.70e.
McMillen, Richard Leo, to Lubrizol Corporation, The. Calcium-containing micellar complexes. 3,766,067, 10-16-73, Cl. 252-33.000.
McMillin, Bert M.: *See—*
Gremillion, Gerard S.; and McMillin, Bert M., 3,710,472.
McMillin, Charles J.: *See—*
Lewis, Donald J.; and McMillin, Charles J., 3,774,151.
McMinn, Donald E., to Eagle Manufacturing Corporation. Flying cut-off press. 3,717,058, 2-20-73, Cl. 83-157.000.
McMinn, Robert E., to Black, Sivalls & Bryson, Inc. Apparatus for separating oil and gas from a foaming crude oil stream. 3,722,184, 3-27-73, Cl. 55-174.000.
McMinn, Robert E.; Tournoux, Paul M.; and Milnes, Donald S., to Black, Sivalls & Bryson, Inc. Submarine oil well production apparatus. 3,754,380, 8-28-73, Cl. 55-164.000.
McMorris, Edward Y., mesne: *See—*
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McMorris, Willie Mae, (Mrs.): *See—*
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McMorrow, John J., Jr. Blood typing system. 3,778,232, 12-11-73, Cl. 23-253.00r.
McMullen, Edward W.: *See—*
Poplack, William J.; McMullen, Edward W.; and Basu, Hemendra, 3,764,713.
McMullen, Frederick G. Waste materials processing system. 3,769,921, 11-6-73, Cl. 110-8.00r.
McMullen, James Michael: *See—*
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Pangalila, Frans V. A, 3,717,107.
Pangalila, Frans V. A., 3,757,723.
McMullen, Wayne W. Hydraulic control. 3,742,164, 6-26-73, Cl. 200-83.00r.
McMullen, Wesley W.; and Miller, Tom B., to General Motors Corporation. Radiator pressure cap. 3,715,049, 2-6-73, Cl. 220-44.00r.
McMullen, Wesley W., to General Motors Corporation. Crankcase ventilating valve. 3,766,898, 10-23-73, Cl. 123-119.00b.
McMullin, Donald, Jr.: *See—*
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Becker, Roger T.; Hatter, Stephen L.; and McMullin, Donald, Jr., 3,777,880.
McMurray, David C., to Irrigation and Power Equipment Inc. Moving pivot sprinkler irrigation system. 3,726,478, 4-10-73, Cl. 239-212.000.
McMurray, George F.: *See—*
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McMurray, Nolan D.; and Tumey, Morris J., to General Motors Corporation. Zirconium diffusion barrier in titanium-silicon carbide composite materials. 3,717,443, 2-20-73, Cl. 29-191.400.
McMurray, Nolan D.; and Tumey, Morris J., to General Motors Corporation. Method of producing zirconium diffusion barrier in titanium-silicon carbide composite materials. 3,779,884, 12-18-73, Cl. 204-181.000.
McMurray, William C.: *See—*
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McMurtry, David Harwood: *See—*
Harr, Jerome Danforth; and McMurtry, David Harwood, 3,735,142.
McMurtry, David Harwood, to International Business Machines Corporation. Optical system for optical fiber bundle scanning apparatus. 3,711,723, 1-16-73, Cl. 250-219.00d.
McMurtry, David Harwood, to International Business Machines Corporation. Hand probe for manually operated optical scanning system. 3,727,030, 4-10-73, Cl. 235-61.11e.
McMurtry, David Harwood, to International Business Machines Corporation. Optical bar coding scanning device. 3,770,942, 11-6-73, Cl. 235-61.11e.
McMurtry, David Roberts. Governor assemblies. 3,763,707, 10-9-73, Cl. 73-535.000.
McMurtry, David Roberts, to Rolls-Royce Limited. Variable pitch rotary blading. 3,781,131, 12-25-73, Cl. 416-155.000.
McNab, John Henry, to Lucas, Joseph, (Industries) Limited. Method of manufacturing battery plates. 3,751,299, 8-7-73, Cl. 136-9.000.



McNabney, John C., to Trane Company, The. Air flow control device. 3,719,321, 3-6-73, Cl. 236-49.000.
McNabney, John C., to Trane Company, The. Air distribution apparatus. 3,750,839, 8-7-73, Cl. 181-50.000.
McNabney, Ralph; and Huibers, Th. A. Derk, to Airco, Inc. Process for producing ozone using a fluidized bed dielectric. 3,734,846, 5-22-73, Cl. 204-176.000.
McNair, Hugh Noel; and Olson, Stuart William. Fog nozzle. 3,713,589, 1-30-73, Cl. 239-575.000.
McNair, Rhett. Powerhead. 3,747,247, 7-24-73, Cl. 42-1.001.
McNair, Robert E., to Westinghouse Electric Corporation. Gas turbine exhaust system. 3,739,872, 6-19-73, Cl. 181-33.0hb.
McNair, Robert J., to Avco Corporation. Phase slip corrector means and method for synchronization of pseudo-random generating means in multistation networks. 3,713,025, 1-23-73, Cl. 325-58.000.
McNally, Frank X., to Westinghouse Electric Corporation. Direct view imaging tube incorporating velocity selection and a reverse biased diode sensing layer. 3,775,636, 11-27-73, Cl. 315-10.000.
McNally, George P.; and Jonasch, Edward A., to Glastool Corporation, mesne. Rake. 3,707,835, 1-2-73, Cl. 56-400.010.
McNally, James G., to Eastman Kodak Company. Process in which heterocyclic-N-alkoxides and acyloxides exhibit an imagewise change in triboelectric charging properties. 3,748,128, 7-24-73, Cl. 96-1.400.
McNally, William J., to Maytag Company, The. Programmed cycle selection circuit. 3,770,980, 11-6-73, Cl. 307-141.000.
McNamara, Gerald J., to Lee, Raymond, Organization, Inc., The. Garden tool. 3,739,562, 6-19-73, Cl. 56-400.060.
McNamara, John Owen, Jr. Method of forming building units and assembling same with lateral displacement. 3,710,534, 1-16-73, Cl. 52-745.000.
McNamara, Joseph P.; and Bair, Thomas G. Plated wire stack with minimized inter-bit coupling. 3,721,966, 3-20-73, Cl. 340-174.0bc.
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McNaney, Joseph T. Game of chance apparatus. 3,721,445, 3-20-73, Cl. 273-142.00a.
McNaney, Joseph T. Message character display apparatus. 3,723,961, 3-27-73, Cl. 340-380.000.
McNaney, Joseph T. Electrically controllable light reflecting cell and means for utilization on a character presentation device. 3,725,910, 4-3-73, Cl. 340-378.00r.
McNaney, Joseph T. Game of chance apparatus. 3,759,524, 9-18-73, Cl. 273-142.00a.
McNatt, Newman W. Apparatus for restoring damaged paper rolls. 3,751,008, 8-7-73, Cl. 254-134.000.
McNaught, John P., to Lever Brothers Company. Margarine. 3,746,551, 7-17-73, Cl. 99-122.00r.
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McNaughton, Andrew; Krebs, Ernst T.; and Gurchot, Charles. Highly soluble glucoside compositions and method of preparing same. 3,734,902, 5-22-73, Cl. 260-210.00r.
McNeal, Hugh E. Bedclothes elevator and bed warmer. 3,713,182, 1-30-73, Cl. 5-319.000.
McNeal, Walter P., to General Electric Company. Dynamoelectric machine winding connection insulator. 3,748,510, 7-24-73, Cl. 310-71.000.
McNeece, Leonard D. Alignment apparatus. 3,724,084, 4-3-73, Cl. 33-185.00r.
McNeely, Charles D. Air scrubber. 3,751,885, 8-14-73, Cl. 55-267.000.
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McNeill, John M. Vehicle towing device. 3,721,356, 3-20-73, Cl. 214-86.00a.
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McNulty, Patrick J.; Swithenbank, Colin; Viste, Kenneth L.; and von Meyer, William C., to Rohm & Haas Company. 2-Aryl-4,4-di alkyl-5-halomethylene-oxazolines. 3,709,897, 1-9-73, Cl. 260-307.00f.
McNulty, Patrick J.; Swithenbank, Colin; Viste, Kenneth L.; and Von Meyer, William C., to Rohm & Haas Company. 2-Halophenyl-4, 4-dialkyl-5-halo-5-dihalomethyl-oxazolines. 3,723,452, 3-27-73, Cl. 260-307.00f.
McNulty, Patrick J.; Swithenbank, Colin; Viste, Kenneth L.; and Von Meyer, William C., to Rohm & Haas Company. Herbicidal compositions containing N-(1,1-dialkyl-3-chlooacetonyl) benzamides. 3,751,239, 8-7-73, Cl. 71-118.000.
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McPhail, William B.; and McPhail, Hazel M. Table game with target ball and spheroidal curling bowls. 3,741,543, 6-26-73, Cl. 273-118.00r.
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McPhee, Charles J., to American Hospital Supply Corporation. Medical liquid administration set with optical liquid level indicator. 3,774,603, 11-27-73, Cl. 128-214.00c.
McPherson, Alan Forbes, to Bell Telephone Laboratories, Incorporated. Data processor sequence checking circuitry. 3,713,095, 1-23-73, Cl. 340-146.1ab.
McPherson, Alasdair, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Clear air turbulence detectors. 3,722,272, 3-27-73, Cl. 73-178.00r.
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McPherson, James B., Jr.: *See—*
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McRae, Daniel D.; Palermo, Carmen J.; and Pelchat, Majella G., to Radiation Incorporated. Signal transmission and modulation technique therefor. 3,732,495, 5-8-73, Cl. 325-60.000.
McRae, Edwin C. Ball cock valve. 3,717,170, 2-20-73, Cl. 137-413.000.
McRae, James; Van Dyke, Donald C.; and Yano, Yukio, to United States of America, Atomic Energy Commission. Technetium bone scanning medium. 3,735,001, 5-22-73, Cl. 424-1.000.
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McRay, Ferris B., to Allis-Chalmers Manufacturing Company. Fluid control system for earthworking apparatus including automatic pressure regulating means. 3,759,143, 9-18-73, Cl. 91-414.000.
McRay, Robert D., to Systomation Incorporated. Capacitance measurement by phase-controlled sampling. 3,713,022, 1-23-73, Cl. 324-60.00c.
McReynolds, Boone K.; and Haas, Fritz, to Dymo Industries, Inc. Large character sign apparatus. 3,750,791, 8-7-73, Cl. 197-6.700.
McRobert, Leon R., to FMC Corporation. Storage vehicle with bin dumper. 3,739,929, 6-19-73, Cl. 214-313.000.
McSahee, Welbourne D., to Loop A Line, Inc. Line-post couplings and marine mooring-towing devices. 3,780,690, 12-25-73, Cl. 114-218.000.
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McTigue, Frank H., to Hercules Incorporated. Electrically conductive cable. 3,755,610, 8-28-73, Cl. 174-23.00c.
McVaugh, Arthur K,. Mobile apparatus for salvaging underground and overhead cable. 3,736,822, 6-5-73, Cl. 83-155.000.
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Mears, Elsie Marie: *See—*
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Mears, James William; and O'Brien, William James, to Grinnell Corporation. On-off sprinkler. 3,757,866, 9-11-73, Cl. 169-37.000.
Meas, Raymond J., to Corning Glass Works. Winding apparatus. 3,776,482, 12-4-73, Cl. 242-67.10r.
Measurex Corporation: *See—*
Boissevain, Matthew G.; and Kahlin, Erik B., 3,779,003.
Measuring & Process Control Limited: *See—*
Serry, Victor, 3,760,636.
Meazza, Roberto, to Minnesota Mining and Manufacturing Company. Camera case with retractable viewfinder. 3,731,586, 5-8-73, Cl. 88-1.50r.
Mebus, Henry R., to Harris-Intertype Corporation. Gatherer-binder transfer system. 3,718,939, 3-6-73, Cl. 11-1.00r.
Mecafil A.-G.: *See—*
Hoppe, Lothar, 3,735,642.
Mecanaids Limited: *See—*
James, David Richard, 3,732,584.
Mecca Bros., Inc.: *See—*
Mecca, Vito M., 3,726,071.
Mecca, Vito M., 3,756,002.
Mecca, Vito M., to Mecca Bros., Inc. Foliage agitating means for harvesting machines. 3,726,071, 4-10-73, Cl. 56-330.000.
Mecca, Vito M., to Mecca Bros., Inc. Conveyor means for harvesting machines. 3,756,002, 9-4-73, Cl. 56-330.000.
Mecham, William J.: *See—*
Miller, William E.; and Mecham, William J., 3,733,249.
Mechaneer, Inc.: *See—*
Hoy, Robert P.; and Gray, Robert C., 3,776,397.
Mechanic-Esfihani, Bahram. Electronic conversion and secrecy apparatus. 3,725,595, 4-3-73, Cl. 179-17.00b.
Mechanical Products, division of Aiken Industries, Inc.: *See—*
Sheppard, William L., 3,726,315.
Mechanical Service Co., Inc.: *See—*
Hudimac, George S., Jr., 3,733,495.
Mechanical Technology Incorporated: *See—*
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Wilcock, Donald F.; and Winn, Leo W., 3,708,215.
Winn, Leo W., 3,747,997.
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Platus, David L.; Lee, David A.; and Klein, Gernot Harold, 3,735,952.
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Mechlowitz, Bela: *See—*
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Mechtron International Corporation: *See—*
Hage, William T., 3,768,424.
Meckel, Walter: *See—*
Blahak, Johannes; and Meckel, Walter, 3,719,717.
Meckel, Walter; and Konig, Kalus, to Bayer Aktiengesellschaft. Polyurethane elastomers from aromatic diamines containing ether groups. 3,736,295, 5-29-73, Cl. 260-75.0nh.
Meckel, Walter; and Muller, Erwin, to Bayer Aktiengesellschaft. Aromatic diamine containing ester groups. 3,736,350, 5-29-73, Cl. 260-471.00r.
Mecklenbrauck, Heinrich: *See—*
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Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,908, 12-4-73, Cl. 51-72.00r.



Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,909, 12-4-73, Cl. 51-72.00r.
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Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,912, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,913, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,914, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,915, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,916, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,917, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,918, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,919, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,920, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,921, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,922, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,923, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,924, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,925, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,926, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,927, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,928, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,929, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,930, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,931, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,932, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,933, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,934, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,935, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,936, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,937, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,938, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,939, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,940, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,941, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,942, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,943, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,944, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,945, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,946, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,947, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,948, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,949, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,950, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,951, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,952, 12-4-73, Cl. 51-72.00r.
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Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,954, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,955, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,956, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,957, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,958, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,959, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,960, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,961, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,962, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,963, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,964, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,965, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,966, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,967, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,968, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,969, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,970, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,971, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,972, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,973, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,974, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,975, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,976, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,977, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,978, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,979, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,980, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,981, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,982, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,983, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,984, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,985, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,986, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,987, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,988, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,989, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,990, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,991, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,992, 12-4-73, Cl. 51-72.00r.
Meckler, Helmut; and Barwasser, Hans Gunter, to Wernicke & Co. K.G. Machine for grinding the rim of a spectacle lens. 3,775,993, 12-4-73, Cl. 51-72.00r.
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Meckley, George E., to Hanover Brands, Inc. Slicing machine. 3,724,306, 4-3-73, Cl. 83-210.000.
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Medesha, Alfred L., to Motorola, Inc. Package including electrical equipment lead shorting element. 3,774,075, 11-20-73, Cl. 317-2.00r.
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Meier, Erwin; and Zehnder, Gottlieb, to Aktiengesellschaft Brown, Boveri & Cie. Apparatus for supercharging an internal combustion engine. 3,726,084, 4-10-73, Cl. 60-13.000.
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Meier, Johann. Inclinometer or oscillation measuring device. 3,717,935, 2-27-73, Cl. 33-391.000.
Meier, Johann. Micrometer apparatus. 3,727,318, 4-17-73, Cl. 33-170.000.
Meier, Johann. Adjustable bearing. 3,749,455, 7-31-73, Cl. 308-6.00r.
Meier, Johann: Feeler for linear gauge. 3,774,310, 11-27-73, Cl. 33-169.00r.
Meier, Johann H.: *See—*
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Meier, Johann Hans, to International Business Machines Corporation. Print hammer with moving coil. 3,780,650, 12-25-73, Cl. 101-93.00c.
Meier, Karl, to Kamei, Auto-Komfort Wolfsburg K. Meier KG. Steering-wheel cover. 3,719,095, 3-6-73, Cl. 74-558.000.
Meier, Karl-Heinz: *See—*
Angersbach, Wolfgang; and Meier, Karl-Heinz, 3,778,692.
Meier, Leon G. Stubble mulcher device. 3,714,992, 2-6-73, Cl. 172-175.000.
Meier, Max, to Ciba-Geigy AG. Process for the removal of metallic silver from photographic material. 3,776,362, 2-13-73, Cl. 96-60.00r.
Meier, Max, to Ciba-Geigy AG. Process for the photographic development of silver salts. 3,725,068, 4-3-73, Cl. 96-66.0hd.
Meier, Otto H.: *See—*
Garland, Newton C.; Scanlon, James D.; Meier, Otto H.; Tassie, Douglas P.; Clark, Burton P.; and Backus, Lester F., 3,720,301.
Meier, Rudolf H., to McDonnell Douglas Corporation. Radiation source simulation means. 3,775,620, 11-27-73, Cl. 250-353.000.
Meier, Stanley I.: *See—*
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Mokrytzki, Boris; and Meier, Udo, 3,781,615.
Meier, William A.; and Wojcik, Edward P., to Signode Corporation. Fastener stack. 3,722,669, 3-27-73, Cl. 206-56.00k.
Meier-Windhorst, Christian August, to Artos Dr.-Ing. Meier-Windhorst Kommanditgesellschaft. Process and apparatus for continuously refining running lengths of materials. 3,722,233, 3-27-73, Cl. 68-5.00d.
Meier-Windhorst, Christian August, to Artos Dr.-Ing. Meier-Windhorst Kommanditgesellschaft. Process and apparatus for continuous heat treatment of porous heavy webs. 3,739,483, 6-19-73, Cl. 34-23.000.
Meierhoefer, Eugene J., to American Home Products Corporation. Snap assembled dispensing package and cover. 3,760,987, 9-25-73, Cl. 222-153.000.
Meiers, Gerald Franklyn: *See—*
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Meijeb, Roelf Jan, to U.S. Philips Corporation. Heat transporting device. 3,749,159, 7-31-73, Cl. 165-105.000.
Meijer, Leo, to Synthetic Surfaces Inc. Coin holder and coin dispenser. 3,731,695, 5-8-73, Cl. 133-6.000.
Meijer, Riksterus Auguste Johannes Maria; and Pennekamp, Jan Christiaan, to U.S. Philips Corporation. Pinch base electric lamp with transversely arranged supply wires. 3,751,779, 8-14-73, Cl. 29-25.150.
Meijer, Robert S., to Alnor Instrument Company; division of Illinois Testing Laboratories, Inc. Voltage comparator structure and method. 3,770,985, 11-6-73, Cl. 307-235.00r.
Meijer, Roelf Jan, to U.S. Philips Corporation. Device for converting calorific energy into mechanical energy. 3,732,690, 5-15-73, Cl. 60-39.460.
Meijers, Johannes E., to N.V. Neratoom. Method of plugging a pipe or bore accessible of one side only. 3,762,034, 10-2-73, Cl. 29-523.000.
Meiji Seika Kaisha, Ltd.: *See—*
Kikuchi, Takahiko; Nishio, Motohiro; Ito, Teiichiro; and Sekizawa, Yasuharu, 3,729,561.
Tsuruoka, Takashi; Shomura, Takashi; Ezaki, Norio; Akita, Eiichi; Inoue, Shigeharu; Fukatsu, Shunzo; Amano, Shoichi; Watanabe, Hiroshi; and Niida, Taro, 3,761,588.
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Meiken Kagakukogyo Kabushiki Kaisha: *See—*
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Meiklejohn, I. G., & Company Limited: *See—*
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Meiklejohn, Ian Goodhall, to Meiklejohn, I. G., & Company Limited. Method of making wire-spoked wheels. 3,711,916, 1-23-73, Cl. 29-159.020.
Meiklejohn, William H.: *See—*
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Mein, Gary W. Vacuum cleaner head with shag rug rake. 3,733,646, 5-22-73, Cl. 15-369.000.
Meinass, Helmut, to Linde Aktiengesellschaft. Pressurized-gas vessel and method of making same. 3,773,168, 11-20-73, Cl. 206-.700.
Meincer, John H.: *See—*
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Meiners, Elmo R.; and Bradford, John O., said Bradford assor. to said Meiners, Elmo R. Counterflow preheating means for a concurrent countercurrent grain dryer. 3,727,323, 4-17-73, Cl. 34-170.000.
Meiners, Elmo R., to M & W Gear Company, Inc. Auger exhaust construction for forced air grain dryer. 3,745,669, 7-17-73, Cl. 34-187.000.
Meiners, Elmo R., to M & W Gear Company, Inc. Chisel plow construction. 3,762,483, 10-2-73, Cl. 172-700.000.
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Meininger, Fritz; and Fuchs, Hermann, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for preparing navy-blue and grey 1:2 chromium and cobalt complex azodyestuff mixtures for natural and synthetic polyamide and polyurethae fibres. 3,781,168, 12-25-73, Cl. 8-26.000.
Meininger, Fritz; and Springer, Hartmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Water-soluble anthraquinone dyestuffs. 3,781,310, 12-25-73, Cl. 260-374.000.
Meinunger, Helmut, to Gizeh-Werk G.m.b.H. Cigarette-making appliance. 3,741,220, 6-26-73, Cl. 131-70.000.
Meinzer, Lester N.: *See—*
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Meise, Henry August, Jr.: *See—*
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Meise, Henry August, Jr.; and Taylor, George William, to Bell Telephone Laboratories, Incorporated. Telephone switching system scanning and identification arrangement. 3,746,797, 7-17-73, Cl. 179-18.00d.
Meise, William H.; and Marron, Henry B., to Jerrold Electronics Corporation. Amplifier circuit for coincidentally providing signal clamping operation. 3,750,038, 7-31-73, Cl. 330-11.000.
Meisei Electric Co., Ltd.: *See—*
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Shames, Harold; Shames, Sidney I.; and Logan, John E. (said

Meisels, Alex; and Schott, Emilio, to Ciba-Geigy Corporation. 2,4-Thiazolidinedione-2thiosemicarbazones. 3,746,717, 7-17-73, Cl. 260-306.700.
Meiser, Charles H., Jr., to Thiokol Chemical Corporation. Composition comprising carboxyl-terminated polymers and aziridines. 3,763,132, 10-2-73, Cl. 260-94.70n.
Meiser, Kenneth D., to Plastics Manufacturing Company. Postformable laminate comprising a barrier sheet of wood fiber impregnated with fully cured unplasticized melamine-formaldehyde resin. 3,730,828, 5-1-73, Cl. 161-258.000.
Meiser, Werner: *See—*
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Meissinger, Hans F., to TRW Inc. Method of and device for determining the characteristics and flux distribution of micrometerorites. 3,752,996, 8-14-73, Cl. 250-219.0df.
Meissner, Andre: *See—*
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Meissner, Konrad E.; Lane, William A.; and Pelster, Edwin J., to Filper Corporation. Packaging machine for individual portions, and method. 3,766,702, 10-23-73, Cl. 53-30.000.
Meissner, Konrad Emil, to Filper Corporation. Method of palletizing cans. 3,718,223, 2-27-73, Cl. 214-152.000.
Meissner, Wolfgang: *See—*
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Meister, Clarence P. Line tightening lever. 3,716,985, 2-20-73, Cl. 24-68.00f.
Meister, Jack B., to Integrated Electronics Corporation. Teaching system for keyboard devices. 3,769,719, 11-6-73, Cl. 35-6.000.
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Meitinger, Heinz; and Lietze, Joachim, to Bifora-Uhren J. Bidlingmaier GmbH. Timepiece calendar information changing apparatus. 3,751,901, 8-14-73, Cl. 58-58.000.
Meitzen, Victor C., to Esso Production Research Company. Method of plugging back a well. 3,713,486, 1-30-73, Cl. 166-250.000.
Mejan, Henry, Jr. Shells for holding soft drink bottles. 3,771,689, 11-13-73, Cl. 220-69.000.
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Mekjean, Matthew; and Sconce, James S., to Hooker Chemical Corporation. Method of storing heat. 3,719,225, 3-6-73, Cl. 165-1.000.
Meksula, Bernard. Portable container for fishing tackle and the like. 3,713,529, 1-30-73, Cl. 206-16.00r.
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Melcher, James R.; and Sachar, Kenneth S., to Massachusetts Institute of Technology. Method for inducing agglomeration of particulate in a fluid flow. 3,755,122, 8-28-73, Cl. 204-186.000.
Melcher, Robert J.: *See—*
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Melchoir, Frederick C. Internal combustion engine. 3,736,911, 6-5-73, Cl. 123-65.0va.
Melchoir, Jean, to Etat Francais represente par le Ministre d'Etat Charge de la Defense Nationale; Delegation Ministerielle pour l'Armement Direction Technique des Armements Terrestres and Ateliers de Construction d'Issy-les-Moulineaux. Combustion chambers 3,736,752, 6-5-73, Cl. 60-13.000.
Melconian, Jerry O.: *See—*
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Melconian, Jerry O., to Avco Corporation. Variable geometry combustor construction. 3,742,703, 7-3-73, Cl. 60-39.320.
Melconian, Jerry O., to Avco Corporation. Variable geometry for controlling the flow of air to a combustor. 3,745,766, 7-17-73, Cl. 60-39.230.
Melde, Chris R. Dentist drill. 3,762,052, 10-2-73, Cl. 32-27.000.
Melde, Chris R. Cooling system for a dental handpiece. 3,778,904, 12-18-73, Cl. 32-27.000.
Melder, Robert C.: *See—*
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Mele, Knut Olav, to Liaaen, A. M. A/S. Control slide valve for a hydraulic servo motor. 3,756,278, 9-4-73, Cl. 137-625.630.
Mele, Sidney C.; and Hoyt, Earl, to Blessings, Inc. Receptacle with spring hinge closure. 3,749,274, 7-31-73, Cl. 220-31.000.
Melead, James J.; and Wentworth, William P., to Beloit Corporation. Reversible coater. 3,780,697, 12-25-73, Cl. 118-65.000.
Meleka, Abdou Hanna; and Proops, William Alfred, to Secretary of State for Defence, mesne. Metal working. 3,707,754, 1-2-73, Cl. 29-156.80h.
Melendy, Harold A.: *See—*
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Melgaard, Hans L., to Despatch Industries, Inc. Shrink tunnel for palletized loads. 3,727,324, 4-17-73, Cl. 34-216.000.
Melhose, Alfred E., to United States of America, Navy, mesne. Method and apparatus for emplacement of long beams in rugged sea bottom areas (U). 3,777,688, 12-11-73, Cl. 114-.500.
Melian, Cecilio. Vehicle functional status and monitor system. 3,764,974, 10-9-73, Cl. 340-52.00f.
Meliani, Roger: *See—*
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Melidosian, Elizabeth Sylvia. Circuit interruptor for ignition system with improved rotary contact. 3,766,339, 10-16-73, Cl. 200-24.000.
Melin, Thomas N. Load handling in fork lift trucks. 3,741,420, 6-26-73, Cl. 214-750.000.
Melin, Thomas N. Load squaring apparatus. 3,750,901, 8-7-73, Cl. 214-6.00s.
Melind, Julius J., to Fisher, H. L., Mfg. Co., Inc. Turret type feeder for spray machine. 3,776,420, 12-4-73, Cl. 221-211.000.
Melindo, Flavio: *See—*
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Meline, Robert S.; and Lee, Robert G., to Tennessee Valley Authority. Process for the production of ammonium polyphosphate. 3,733,191, 5-15-73, Cl. 71-34.000.



Meline, Robert S., to Tennessee Valley Authority. Ammonium polyphosphate solutions from super wet acid. 3,775,534, 11-27-73, Cl. 423t310.000.
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Mellan, Ibert, to Polychrome Corporation. Elevated image printing plate. 3,765,894, 10-16-73, Cl. 96-86.000.
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Mellen, George P., to United States of America, Army. Anti-disturbance fuze. 3,759,181, 9-18-73, Cl. 102-8.000.
Mellen, William F., to Mellen, Alice Marian. Roll over plow. 3,744,573, 7-10-73, Cl. 172-225.000.
Mellen, William F., to Mellen, Alice Marian. Two-way plow actuator lost motion mechanism. 3,757,872, 9-11-73, Cl. 172-225.000.
Mellen, William F.; and Mellen, Alice M. Two-way plow. 3,771,607, 11-13-73, Cl. 172-212.000.
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Mellette, Gary W.: *See—*
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Mellin, Robert C., to General Motors Corporation. Swirling flow muffler. 3,744,589, 7-10-73, Cl. 181-58.000.
Melling, Richard; and Pickard John, to Triplex Safety Glass Company Limited. Method of toughening glass sheets. 3,776,709, 12-4-73, Cl. 65-114.000.
Mello, Robert Edward; and Ciavatta, Armand, to General Signal Corporation. Thermally actuated control device and circuit. 3,760,317, 9-18-73, Cl. 337-103.000.
Mellor, Eli K. Portable apparatus for operating or simulating operation of artificial kidneys or the like. 3,710,454, 1-16-73, Cl. 35-17.000.
Mellor, Eli K. Artificial kidney cleaning apparatus. 3,753,493, 8-21-73, Cl. 210-140.000.
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Mellors, Geoffrey W.; and Senderoff, Seymour, to Union Carbide Corporation. Electrodeposition of zirconium diboride. 3,713,993, 1-30-73, Cl. 204-3.000.
Mellors, Geoffrey W., to Union Carbide Corporation. Solid state electrolyte. 3,723,185, 3-27-73, Cl. 136-153.000.
Mellors, Geoffrey W., to Union Carbide Corporation. Compositions containing lithium, potassium, sulfate and nitrate and/or nitrite ions. 3,726,718, 4-10-73, Cl. 136-154.000.
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Melloy, George F.; and Russ, John C., to Bethlehem Steel Corporation. Method of improving stability of boron hardenability effect in alloy steels. 3,717,508, 2-20-73, Cl. 148-2.000.
Melloy, George F.; and Dennison, Joseph D., to Bethlehem Steel Corporation. Rolled steel having high strength and low impact transition temperature and method of producing same. 3,753,796, 8-21-73, Cl. 148-36.000.
Melloy, George F.; and Hlinka, Joseph W., to Bethlehem Steel Corporation. Method of hardening steel plates. 3,756,869, 9-4-73, Cl. 148-143.000.
Melluish, Anthony George, to Langley London Limited. Textile bowl and the like. 3,738,591, 6-12-73, Cl. 242-18.0dd.
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Melsek, Norbert J., to Signode Corporation. Dunnage tie-down arrangement for freight loads. 3,762,580, 10-2-73, Cl. 214-10.50d.
Melsheimer, Ted R. Pipe pinching machine. 3,774,876, 11-27-73, Cl. 251-8.000.
Melsom, Gordon Thomas, to Dunlop Holdings Limited. Swaging tools. 3,744,114, 7-10-73, Cl. 29-237.000.
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Melvin, William J., to Collins Radio Company. Data modem apparatus. 3,764,743, 10-9-73, Cl. 178-67.000.
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Membrino, Hercules. Apparatus for filling, sealing and dispensing bags. 3,751,875, 8-14-73, Cl. 53-180.000.
Membrino, Hercules. Bag forming, filling and sealing method and apparatus. 3,753,332, 8-21-73, Cl. 53-183.000.
Membrino, Hercules. Bag Making machine with adjustable gears. 3,755,041, 8-28-73, Cl. 156-515.000.
Membrino, Hercules. Linear strip of severable bags. 3,779,449, 12-18-73, Cl. 229-66.000.
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Menigat, Richard, to Metallgesellschaft Aktiengesellschaft. Method of and apparatus for the combustion of sludge. 3,736,886, 6-5-73, Cl. 110-7.00r.
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Mennesson, Andre Louis, to Societe Industrielle de Brevets et d'Etudes S.I.B.E. Fuel supply systems for fourstroke internal combustion engines. 3,727,590, 4-17-73, Cl. 123-32.00g.
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Merola, Anthony, to Amerola Products Corporation. Method of forming tapered tubular members. 3,735,463, 5-29-73, Cl. 29-155.00c.

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Merrell, Richard L.; Hewko, Lubomyr O.; and Kepple, Richard K., to General Motors Corporation. Transmission. 3,769,858, 11-6-73, Cl. 74-752.00e.

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Merrill, Claude I., to Dow Chemical Company, The. Fluorosulfonate compounds and method of their preparation. 3,721,694, 3-20-73, Cl. 260-456.00a.

Merrill, Claude I., to Dow Chemical Company, The. Tris (difluoroamino)-methyl fluorosulfonate. 3,721,695, 3-20-73, Cl. 260-456.00a.

Merrill, Duane F.; and Cooke, Richard C., Jr., to General Electric Company. Molding compositions containing silanol-free resins. 3,759,867, 9-18-73, Cl. 260-37.0sb.

Merrill, Edward W., to Massachusetts Institute of Technology. Submicron aqueous acrosols containing lecithin. 3,715,432, 2-6-73, Cl. 424-199.000.

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Merrill, Edward W., to Estin, Hans H., Cronkhite, Leonard W., Jr. and Wolbach, William W.; trustees of River, Charles, Foundation, The. Composition for removing polynuclear aromatic hydrocarbons from burning tobacco gas-smoke. 3,774,623, 11-27-73, Cl. 131-7.00r.

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Merrill, Robert E. Static press. 3,742,537, 7-3-73, Cl. 100-35.000.

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Merrill, Stewart H.; and Contois, Lawrence E., to Eastman Kodak Company. Photoconductive elements containing halogenated poly-α-olefin binders. 3,738,833, 6-12-73, Cl. 96-1.600.

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Merrow, George W.; West, Robert F.; Eliason, Carl E.; and Guarnaccia, Joseph J., to Stanley Works, The. Hand tool handle. 3,762,453, 10-2-73, Cl. 145-61.00c.

Merrow Machine Company: *See—*
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Merrow, Raymond T.; Julian, Elmo C.; Eldridge, Judson B.; Rice, George B.; Dow, Robert L.; Rodgers, Charley R.; and Stull, Bertram O., to United States of America, Navy. Extrudable fluorocarbon propellants. 3,732,132, 5-8-73, Cl. 149-19.000.





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Mescher, Harold E., to Pacific Scientific Company. Convection heating system for a tempering furnace. 3,779,532, 12-18-73, Cl. 266-5.00r.
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Messler, Tom F.; and Messler, J. P. Hand-held optical trianculation position-determining instrument. 3,758,212, 9-11-73, Cl. 356-145.000.
Messmer, Edwin E. Drive mechanism employing suction cup coupling. 3,721,352, 3-20-73, Cl. 214-1.0bt.
Messner, Georg. Vacuum electrical contacts for use in electrolytic cells. 3,755,105, 8-28-73, Cl. 204-95.000.
Messner, Gordon E.: *See—*
Montgomery, Robin M.; and Messner, Gordon E., 3,763,870.
Messner, Jack D.: *See—*
Wolfe, Walter W.; Messner, Jack D.; and Rambo, Eivind M., 3,759,227.
Messner, Jakob. Apparatus for printing continuous runs of material. 3,717,722, 2-20-73, Cl. 178-5.20r.
Messner, John S.: *See—*
Hansen, Howard C.; and Messner, John S., 3,762,588.
Messner, Rudolf: *See—*
Kappeler, Otto; and Messner, Rudolf, 3,746,011.
Messner, Sigfried; Depmeyer, Lothar; Barth, Lothar; Graup, Josef; and Rhein, Stein A. Boot, especially ski boot. 3,750,310, 8-7-73, Cl. 36-2.5al.
Messrs. Jupex AG: *See—*
Sauer, Roland; Katzer, Johannes; and Stephany, Christian, 3,714,962.
Messrs. Mauser-Werke Aktiengesellschaft: *See—*
Hupp, Gerhard; and Vorgrimler, Ludwig, 3,735,667.
Messrs. Mitsubishi Jukogyo Kabushiki Kaisha: *See—*
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Messrs. R. & E. Hopt KG: *See—*
Meyer, Herbert; Mayer, Rudolf; and Volkheimer, Lothar, 3,743,976.
Messrs Vest Ges. m.b.H.: *See—*
Havlova, Milada, nee Stribrny, 3,736,418.
Mesta Machine Company: *See—*
Campbell, Allen B., 3,760,677.
Hlafcsak, Joseph L., 3,733,876.
Lemper, Herbert, 3,739,618.
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Petros, Andrew J.; and Minteer, James M., 3,733,108.
Petros, Andrew J., 3,740,989.
Petros, Andrew J.; and Rybar, Clement S., 3,779,037.
Steimer, Robert G., 3,733,875.
Sutyak, John J., 3,733,943.
Mestetsky, Thomas S., to GAF Corporation. Adhesive stick. 3,770,677, 11-6-73, Cl. 260-28.50r.
Mestetsky, Thomas S., to GAF Corporation. Controlled release coating composition and process. 3,770,687, 11-6-73, Cl. 260-30.4sb.
Mestetsky, Thomas S., to GAF Corporation. Paraffin wax coating compositions. 3,778,398, 12-11-73, Cl. 260-28.50r.

Mestre, Francisco. Steering wheel locking device for vehicles. 3,722,239, 327-73, Cl. 70-212.000.
Meszlenyi, Robert. Method for producing a sequence of moving pictures and apparatus for the performance of the aforesaid method. 3,743,394, 7-3-73, Cl. 352-100.000.
Met-L-Wood Corporation: *See—*
Urbanick, Burton Alfred, 3,717,955.
Metabowerke KG Closs, Rauch & Schnizler: *See—*
Schnitzler, Albrecht, Jr., 3,723,781.
Sohnlein, Dieter; and Merz, Ewald, 3,774,476.
Stoy, Franz, 3,755,969.
Metacon AG: *See—*
Tinnes, Bernhard; and Bieri, Hans, 3,779,431.
Metaframe Corporation: *See—*
Bleiweiss, Eugene, 3,731,058.
Dinnerstein, Albert J., 3,738,319.
London, S. Paul, 3,768,193.
Stasio, Robert, 3,738,316.
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Willinger, Allan H., 3,720,317.
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Willinger, Allan H.; and Dinnerstein, Albert J., 3,744,454.
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Willinger, Allan H., 3,746,478.
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Metagraphic Systems, Inc.: *See—*
Kinsinger, William C.; Ippolito, James; and Pisarri, Vincent, 3,762,810.
Metaillier, Roger, to Richier. Stabilizing device for appliances for public works, for handling and for maintenance. 3,734,531, 5-22-73, Cl. 280-150.500.
Metal Box Company Limited, The: *See—*
Franek, Jozef Tadeusz; and Rhodes, Peter, 3,730,381.
French, Michael Robert, 3,719,991.
Jeffs, Keith Derek, 3,745,038.
Rayner, Adrien Patrick; and Howell, Bryan Gordon, 3,720,367.
Metal Castings Doehler Limited: *See—*
Paterson, Alan Hunter; Ewale, Thomas Matthew; and Rogers, John Samuel, 3,734,673.
Metal Cutting Tools, Inc.: *See—*
Getts, Sidney Arthur, 3,740,807.
Metal Hydrides, Incorporated: *See—*
Snover, John A.; and Donovan, Richard D., 3,767,715.
Metalectric, Inc.: *See—*
Tryzna, Charles J.; and Krantz, Quentin R., 3,749,653.
Metalem S.A.: *See—*
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Shearman, Paul M., 3,731,005.
Metallgesellschaft Aktiengesellschaft: *See—*
Baron, Gerhard; Bechthold, Horst; and Liebgott, Helmut, 3,726,654.
Dorr, Karl-Heinz; Grimm, Hugo; and Kola, Rolf, 3,780,499.
Dorschner, Oskar; Carduck, Franz Josef; and Kuhne, Norbert, 3,707,838.
Dorschner, Oskar; Storkebaum, Christoph; Carduck, Franz Josef; and Janfeld, Johannes, 3,713,590.
Drechsel, Herbert; Dorr, Karl-Heinz; Grimm, Hugo; and Rowedder, Gustav, 3,780,166.
Gerlach, Johannes; and Gock, Eberhard, 3,777,005.
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Hardt, Lothar; Muller-Wartenberg, Heinz; and Rauschenberger, Hans, 3,765,154.
Hering, Norbert, 3,754,789.
Kapp, Ernst; and Becker, Paul, 3,720,625.
Keserin, Ivan, 3,775,827.
Koy, Hermann; and Keserin, Ivan, 3,745,620.
Mattern, Konrad, 3,724,523.
Menigat, Richard, 3,736,886.
Menigat, Richard, 3,772,998.
Pelzel, Erich; and Pelzel, Reiner, 3,772,007.
Reba, Imants, 3,754,694.
Reh, Lothar; and Melzer, Carl-August, 3,767,768.
Rudolph, Paul; and Kapp, Ernst, 3,731,485.
Rudolph, Paul; and Kapp, Ernst, 3,738,103.
Rudolph, Paul; and Kapp, Ernst, 3,765,167.
Schmalfeld, Paul; Mosberger, Erich; and Gauch, Georg, 3,717,438.
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Metalloxyd Gesellschaft mit beschrankter Haftung: *See—*
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Herrmann, Helmut Friedrich; and Dizon, Rolando M., 3,766,043.
Metallurgesellschaft Aktiengesellschaft: *See—*
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Metallurgical Processes Limited: *See—*
Benatt, Frank George Simon; and Linton, Walter Lindsay, 3,768,792.
Morgan, Stephen William Kenneth, 3,764,301.
Metallurgie Hoboken-Overpelt: *See—*
De Bie, Edouard, 3,715,203.
Richardson, Frederick Denys, 3,719,574.
Richardson, Frederick Denys; and Rogers, Philip Sydney, 3,730,698.
Metallwerk Plansee Aktiengesellschaft and Co. KG: *See—*
Pohler, Alfred; and Hayek, Erich, 3,722,462.
Metallwerke Neheim Goeke & Co. KG: *See—*
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Comerio, Ercole, 3,709,172.
Metalogics Corporation, mesne: *See—*
Warner, Joseph S., 3,778,596.
Metalsky, William J.: *See—*
Kreider, Benjamin A.; Jones, William R.; Metalsky, William J.; and Gibb, Thomson B., 3,737,553.
Metaltek, Inc.: *See—*
Holloway, Donald P.; Payne, William H.; and Pecler, Donald H., 3,777,732.
Metalwash Machinery Corporation: *See—*
Nolte, Robert K., 3,759,276.
Metayer, Albert, to Etablissements Metayer & Cie. Piece of furniture adapted to be converted from a seat into a bed. 3,740,775, 6-26-73, Cl. 5-13.000.
Metcalf, Eric: *See—*
Dorey, Howard Anthony; and Metcalf, Eric, 3,768,009.
Metcalf, Eric; and Dorey, Howard Anthony, to Solartron Electronic Group Limited, The. Analog-to-digital converter utilizing different feedback effects to obtain accuracy and resolution. 3,713,023, 1-23-73, Cl. 324-99.00d.
Metcalf, Eric, to Solartron Electronic Group Limited, The. Integrating measurements with noise reduction. 3,716,849, 2-13-73, Cl. 340-347.0nt.
Metcalf, Eric, to Solartron Electronic Group Limited, The. Digital voltmeter. 3,737,891, 6-5-73, Cl. 340-347.0cc.
Metcalf, Joseph R.: *See—*
Fryrear, William A., Jr.; and Metcalf, Joseph R., 3,712,381.
Fryrear, William A., Jr.; and Metcalf, Joseph R., 3,738,427.
Metcalfe, C. B., Food Machinery, Ltd.: *See—*
Richards, Brynley Thomas; and Battman, Bernard Desmond, 3,771,404.
Metcalfe, Joseph E., III: *See—*
Rightmire, Robert A.; Metcalfe, Joseph E., III; and Benak, James L., 3,770,506.
Metcalfe, Joseph E., III; Rightmire, Robert A.; and Marse, Allan V., to Standard Oil Company, The. Process for enhancing the capacity of a carbon electrode. 3,762,954, 10-2-73, Cl. 136-22.000.
Metcalfe, Kenneth A.; and Lowe, William H., to Commonwealth of Australia, The; care of the Secretary, Department of Supply. Multi-point distributor head for signal recording or the like. 3,739,087, 6-12-73, Cl. 178-6.60a.
Metcalfe, Kenneth A.; and Smith, Ian E., to Commonwealth of Australia, The. Edge and latitude developer. 3,766,072, 10-16-73, Cl. 252-62.100.
Metcalfe, Kenneth Archibald: *See—*
Boroky, Joseph Stephen; and Metcalfe, Kenneth Archibald, 3,756,813.
Metcalfe, Robert P.: *See—*
Schmidt, John E.; and Metcalfe, Robert P., 3,748,250.
Metcalfe, Robert P., to BASF Wyandotte Corporation. Apparatus for sealing an anode connection and method therefore. 3,743,592, 7-3-73, Cl. 204-266.000.
Metco, Inc.: *See—*
Longo, Frank N.; and Durmann, George J., 3,723,165.
Meteor Research Limited: *See—*
Tabor, Paul C., 3,711,892.
Meteor-Siegen Apparatebau Paul Schmeck GmbH: *See—*
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Meter Research Limited: *See—*
Tabor, Paul C., 3,710,674.
Metex Corporation: *See—*
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Methlie, George J.: *See—*





Merz, William C.; Methlie, George J.; and Sattler, Rolf W., 3,743,545.
Methode Manufacturing Corporation: *See—*
Kozel, Charles A.; Baraglia, Nathan A.; and Wright, George C., 3,708,610.
Wright, George C.; Kozel, Charles; Baraglis, Nathan; and Marciszewski, Ed, 3,748,521.
Methods Electronics, Inc.: *See—*
Bonnke, Hans R.; and Melcher, Robert J., 3,772,775.
Metlesics, Werner; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. 3'-arylspiro [imidazolidine-2,1-phthalan] and 2-[2'-(α-hydroxy-arylmethyl)-aryl] -2-imidazoline derivatives. 3,717,658, 2-20-73, Cl. 260-309.600.
Metlesics, Werner; and Sternbach, Leo Henryk, to Hoffmann-La Roche Inc. 6-(hydrocyalkyl) benzhydrols. 3,720,720, 3-13-73, Cl. 260-618.00b.
Metokote Precision, Inc.: *See—*
Blankemeyer, James C.; Blankemeyer, Daniel E.; and Blankemeyer, Robert L., 3,719,030.
Metpath, Inc.: *See—*
Brown, Paul A., 3,776,219.
Metradon Associates: *See—*
Rank, Carleton L.; and Ryan, Ray T., 3,732,023.
Metraflex Company, The: *See—*
Limberg, Donald R., 3,770,014.
Metrailer, Charles E. Apparatus for modular concrete constructions. 3,744,945, 7-10-73, Cl. 425-62.000.
Metrailer, William J.; and Welch, Robert C. W., to Esso Research and Engineering Company. Iron ore reduction process. 3,759,697, 9-18-73, Cl. 75-26.000.
Metramatic Corporation, The: *See—*
Dederer, Robert R.; and Vanderhoof, Frank B., 3,774,748.
Vanderhoof, Frank B.; and Dederer, Robert, 3,735,867.
Metritape, Inc.: *See—*
Niejadlin, John, 3,753,200.
Metro Hydraulics Inc.: *See—*
Gniffke, Glenn D.; and Fratzke, Harold A., 3,716,253.
Metro, John G., to General Electric Company. Monolithic stereo decoder with balanced decoder operation. 3,711,652, 1-16-73, Cl. 179-15.0bt.
Metro, Stephen J.: *See—*
Bosniack, David S.; and Metro, Stephen J., 3,720,612.
Metrologic Instruments Inc.: *See—*
Adams, Larry D., 3,778,169.
Metrology Systems Corporation: *See—*
Fink, Anton, 3,727,929.
Metron Corporation: *See—*
Gerauer, Ernst A., 3,709,049.
Metropolitan Life Insurance Co.: *See—*
Lemons, Thomas M.; and Neenan, Charles, 3,762,083.
Metropolitan Tool and Products Limited: *See—*
Mann, John Brien, 3,780,538.
Metschanabl, Andreas: *See—*
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Mettier, Bruno; and Majer, Mirko, to Schweizerisches Serum- und Impfinstitut und Institut Zur Erforschung der Infektions-Krankheiten. Anhydrous, stable smallpox vaccine composition for percutaneous application and method of preparing the same. 3,739,065, 612-73, Cl. 424-78.000.
Mettig, Hermann: *See—*
Herschmann, Otto; Mettig, Hermann; Medenus, Bernhard; Howe, Hans-Ulrich; and Klatte, Hans-Jurgen, 3,744,462.
Mettig, Hermann; and Medenus, Berhard, to Klockner-Humboldt-Deutz Aktiengesellschaft. V-type reciprocable piston internal combustion engine. 3,734,071, 5-22-73, Cl. 123-55.00v.
Mettler, Hal C.: *See—*
Mettler, Hal C., 3,747,013.
Mettler, Hal C., to Mettler, Hal C. and Mettler, Lovena G. Tuned-plate tuned-grid short-wave signal generator with power output controlled by screen grid. 3,747,013, 7-17-73, Cl. 331-74.000.
Mettler Instrumente AG: *See—*
Appius, Max K., 3,709,311.
Bucher, Hans, 3,758,173.
Kupper, Walter, 3,734,218.
Von Bruning, Drost M., 3,720,900.
Mettler, Klaus: *See—*
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Metysova, Jirina: *See—*
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Metz, Anthony B. Rotary disc cutting device. 3,754,297, 8-28-73, Cl. 15-236.00r.
Metz, Josef; and Zielinski, Erich, to Rheinmetall G.m.b.H. Hydropneumatic recuperator for pieces of ordnance. 3,745,880, 7-17-73, Cl. 89-43.00r.
Metz, Joseph R., to Norco, Inc. Radial roller anti-friction transmission with eccentric bushings. 3,766,788, 10-23-73, Cl. 74-441.000.
Metz, Paul, to ARBED Acieries Reunies de Burbach-Eich-Dudelange, S.A. Granular additive for electrorefining of steel. 3,768,996, 10-30-73, Cl. 75-10.00r.
Metz, Raymond W. Inspection camera. 3,759,151, 9-18-73, Cl. 95-11.000.
Metz, Stephen A.; and Smidt, Fred A., Jr., to United States of America, Navy. Production of vacancies in metals by laser bombardment. 3,762,961, 10-2-73, Cl. 148-4.000.
Metz, Thomas R.; and Holben, Eugene F., to Conoflow Corporation. Engine performance computing arrangement. 3,722,265, 3-27-73, Cl. 73-117.300.
Metz, Thomas R., to Conoflow Corporation. Averaging digital rate indicator. 3,729,996, 5-1-73, Cl. 73-194.00e.
Metzeler Aktiengesellschaft: *See—*
Federer, Fritz; and Neumann, Henning, 3,724,497.
Metzendord, Walter: *See—*
Franck, Heinz-Gerhard; Metzendord, Walter; Turowski, Johannes; Omran, Jaafar; and Nijssen, Jozef H. G., 3,708,442.
Metzenthen, William Edward; and Verhoeckx, Nicolaas Alphonsus Maria, to U.S. Philips Corporation. Device comprising a plurality of series arranged storage elements. 3,764,991, 10-9-73, Cl. 340-172.500.
Metzer, Robert George, to Du Pont de Nemours, E. I., and Company. Water swollen cellulose and blends dyed with insoluble, non-vattable anthraquinone dyes in a glycol ether solution. 3,752,647, 8-14-73, Cl. 8-21.00c.
Metzger, Carl: *See—*
Buchel, Karl Heinz; Meiser, Werner; Plempel, Manfred; and Metzger, Carl, 3,732,242.
Von Konig, Anita; and Metzger, Carl, 3,726,680.
Metzger, Carl; Rucker, Dietrich; and Eue, Ludwig, to Bayer Aktiengesellschaft. 1-(1,3,4-Thiadiazol-2-yl)-imidazolidinone-(2) compounds. 3,758,492, 9-11-73, Cl. 260-306.80d.
Metzger, Carl; Rucker, Dietrich; and Eue, Ludwig, to Bayer Aktiengesellschaft. Certain 1-(1,3,4-thiadiazol-2-yl)-imidazolidione-(2) compounds. 3,759,939, 9-18-73, Cl. 260-306.80d.
Metzger, Carl; Rucker, Dietrich; and Eue, Ludwig, to Bayer Aktiengesellschaft. 1-(1,3,4-Thiadiazol-2-yl)-imidazolidinone-(2) compounds. 3,773,780, 11-20-73, Cl. 260-306.80d.
Metzger, Hans; Brill, Klaus; and Hornung, Friedrich, to Bosch, Robert, G.m.b.H. Foil for gas diffusion electrodes for electrochemical cells and process of making the same. 3,778,311, 12-11-73, Cl. 136-120.0fc.
Metzger, James B. Method for the utilization for organic waste material. 3,711,392, 1-16-73, Cl. 204-180.00r.
Metzger, Jean: *See—*
Borrel, Marcel; Marion, Jacques; and Metzger, Jean, 3,725,457.
Metzger, Karl; and Scheuzger, Karl, to Ciba-Geigy AG. Polyglycidyl esters. 3,714,198, 1-30-73, Cl. 260-348.00a.
Metzger, Karl Georg: *See—*
Ley, Kurt; Eholzer, Ulrich; Nast, Roland; Metzger, Karl Georg; and Fritsche, Dieter, 3,754,087.
Metzger, Lenard M.: *See—*
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Valenta, Harry L., Jr.; Martin, William A.; and Metzger, Lenard M., 3,769,457.
Metzger, Lenard M., to Eastman Kodak Company. Color temperature control for television apparatus. 3,751,580, 8-7-73, Cl. 178-5.40r.
Metzger, Lenard M.; and Babcock, David L., to Eastman Kodak Company. Film scanning for television reproduction. 3,778,545, 12-11-73, Cl. 178-7.200.
Metzger, Marshall A.: *See—*
Prill, Robert S.; Metzger, Marshall A.; and Eaton, Bradley C., 3,739,197.
Metzger, Robert W., Jr.: *See—*
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Metzger, Sidney H., to Baychem Corporation, mesne. Stabilization of polyesterurethanes with 2-imino-oxazolidines. 3,770,693, 11-6-73, Cl. 260-45.8nz.
Metzger, Willy; Ott, Rudi; Pappe, Gunter; and Schmidt, Helmut, to General American Transportation Corporation. Articles having electroless metal coatings incorporating wear-resisting particles therein. 3,753,667, 8-21-73, Cl. 29-195.000.
Metzinger, Adrien Louis; and Raillard, Charles, to American Tobacco Company Limited, mesne. Machine for inserting filters into tip-holders for smokers articles. 3,724,339, 4-3-73, Cl. 93-1.00c.
Metzler, Albert; Wright, William W.; Howell, John J.; and Collette, Richard L., to Guardian Electric Manufacturing Company. Elevator call circuit. 3,774,728, 11-27-73, Cl. 187-29.00r.
Metzler, Elmar: *See—*
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Metzler, Franklin A.: *See—*
Fedorko, Francis A.; Kantner, Donald J.; Metzler, Franklin A.; and Smith, James M., 3,757,224.
Metzler, Franklin A.; and Smith, James M., to GTE Sylvania Incorporated. Method of winding toroidal yokes. 3,766,641, 10-23-73, Cl. 29-605.000.





Metzler, J. Harold. Post lantern for attachment to structural support

Metzler, I. Harold. Post lantern for attachment to structural support member. 3,777,138, 12-4-73, Cl. 240-84.000.
Metzler, Norbert: *See—*
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Metzler, Robert H.; and Zurek, Jerome N., to Stewart-Warner Corporation. Modular gauge housing. 3,768,314, 10-30-73, Cl. 73-432.0ad.
Metzner, Franz Georg: *See—*
Kinkel, Klaus; Pfannmueller, Helmut; Schmidt-Thomee, Georg; Metzner, Franz Georg; and Gierth, Volker, 3,736,305.
Metzner, Robert G. Automatically controlled transportation system. 3,734,433, 5-22-73, Cl. 246-1.00r.
Metzner, Wolfgang; Fuhr, Karl; Rudolph, Hans; Schnell, Hermann; and Heine, Hans-Georg, to Bayer Aktiengesellschaft. Polyester moulding and coating masses which can be cured by ultraviolet irradiation. 3,720,635, 3-13-73, Cl. 260-862.000.
Metzner, Wolfgang; Rudolph, Hans; Fuhr, Karl; and Schnell, Hermann, to Bayer Aktiengesellschaft. Polyester moulding and coating materials which can be set by ultraviolet irradiation. 3,766,111, 10-16-73, Cl. 260-28.000.
Meuleman, Francois J. G.: *See—*
Keijzer, Johan H.; Meuleman, Francois J. G.; Jossa, Louis J.; and Stas, Jozef J., 3,722,639.
Meuleman, Johannes, to U.S. Philips Corporation. Method and apparatus for a semiconductor radiation detector. 3,742,215, 6-26-73, Cl. 250-83.00r.
Meulemans, Charles Cornelis: *See—*
Boekkooi, Anton; Hurx, Ardianus Antonius; Van Der Tas, Johannes Cornelis; and Meulemans, Charles Cornelis, 3,721,515.
Meulemans, Charles Cornelis Eduard: *See—*
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Meulemans, Marcel: *See—*
Habraken, Louis; Leroy, Vincent; Meulemans, Marcel; and Carteels, Florent, 3,719,475.
Meuller, Helge, AB: *See—*
Meuller, Karl Helge, 3,781,566.
Meuller, Karl Helge, to Meuller, Helge, AB. Detecting the presence of a medium in the path of a sound or light wave. 3,781,566, 12-25-73, Cl. 307-116.000.
Meuller, Roger P.: *See—*
Filsinger, John F.; and Meuller, Roger P., 3,774,529.
Meulnart, Andre. Removable end-piece for fishing float assembly. 3,763,590, 10-9-73, Cl. 43-43.110.
Meunier, Alfred C.; and Crounse, Nathan N., to Sterling Drug Inc. Benzoxazolylstilbazole fluorescent whitening agent. 3,712,982, 1-23-73, Cl. 260-240.00d.
Meurer, Hans; and Bruels, Ewald, to Wean Industries, Inc. Automatic piercing point change apparatus. 3,747,385, 7-24-73, Cl. 72-69.000.
Meurer, Heinz Hubert; and Kanow, Willy, to Lowe-Opta GmbH. Signal-seeking communications receiver with bidirectional frequency sweep capability. 3,742,362, 6-26-73, Cl. 325-470.000.
Meurer, Peter Lorenz; Dorn, Friedrich Wilhelm; and Harnisch, Heinz, to Knapsack Aktiengesellschaft. Production of phosphorus. 3,723,608, 3-27-73, Cl. 423-322.000.
Meurer, Wolfgang: *See—*
Kaiser, Wilhelm; Meurer, Wolfgang; and Muller, Georg, 3,731,549.
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Meyer, Alton H.; and Monday, William C., to Recognition Equipment Incorporated. Document feeder. 3,709,481, 1-9-73, Cl. 271-30.00a.
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Meyer, Charles Paul, Jr., to Jetco Electronic Industries, Inc., mesne. DC fishing motor speed and steering control. 3,711,755, 1-16-73, Cl. 318-139.000.
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Meyer, Dolph Allan; and Sykes, Edward Henry, to Victa Limited. Pivoted blade assemblies for rotary mowers. 3,755,999, 9-4-73, Cl. 56-295.000.
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Meyer, Engelbert A., to USM Corporation. Decorative trim strip, fastener, and method of making same. 3,740,918, 6-26-73, Cl. 52-717.000.
Meyer, Engelbert A., to USM Corporation. Structural assembly and deformable clip. 3,746,378, 7-17-73, Cl. 287-189.36r.
Meyer, Engelbert A., to USM Corporation. Vinyl top retainer assembly. 3,769,662, 11-6-73, Cl. 24-73.0hs.
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Meyer, Lawrence L., to Texas Instruments, Incorporated. Automatic tire identifier with threshold setting proportional to the received signals. 3,761,725, 9-25-73, Cl. 250-566.000.
Meyer, Leo A.; and Perkins, Robert J., to Minnesota Mining and Manufacturing Company. Stabilized light-sensitive intermediate sheet. 3,770,442, 11-6-73, Cl. 96-82.000.
Meyer, Leonard S. Portable stand adapted for tree mounting 3,749,200, 7-31-73, Cl. 182-187.000.
Meyer, Leonard S., to Berkley & Company, Inc. Laminate structure for water skis. 3,774,254, 11-27-73, Cl. 9-310.00a.
Meyer, Lloyd E., to Westinghouse Electric Corporation. Interleaved winding for electrical inductive apparatus. 3,781,739, 12-25-73, Cl. 336-70.000.
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Meyer, Robert J., to TRW Inc. Nonconsumable tungsten electrode for arc welding. 3,780,259, 12-18-73, Cl. 219-145.000.
Meyer, Robert S. Vocational guidance aids. 3,716,928, 2-20-73, Cl 35-22.00r.
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Meyer, Walter Edward; and Goldman, Leon, to American Cyanamid Company. Method of inhibiting fertility in female mammals. 3,754,089, 8-21-73, Cl. 424-274.000.
Meyer, Wilheilm. Foldable invalid chair. 3,770,073, 11-6-73, Cl. 180-65.00r.

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Meyers, George Leroy; and Belke, Paul James, to American Can Company. Method of skip applying adhesive to a carton panel. 3,756,842, 9-4-73, Cl. 117-11.000.
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Mezey, Frank G. J. Non-slipping polygonal wrench. 3,733,937, 5-22-73, Cl. 81-71.000.
Mezoff, Milton, to Artmor Services, Inc. Disposable cigarette holders. 3,771,535, 11-13-73, Cl. 131-187.000.
Mezrich, Reuben Saul, to RCA Corporation. Enhanced readout of stored holograms. 3,767,285, 10-23-73, Cl. 350-3.500.
Mezzanotte, Mario; Carretta, Ferdinando; and Turchetti, Gianni, to Industrie Pirelli S.p.A. Radial tires having a sidewall-stiffening structure. 3,736,973, 6-5-73, Cl. 152-354.000.
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Michael, Harold J., to Rockwell International Corporation. Cermet protective coating glass frit. 3,772,043, 11-13-73, Cl. 106-48.000.
Michael, Jack. Quick change system or vibratory tray system. 3,719,277, 3-6-73, Cl. 209-258.000.
Michael, John Graham. Jewelry piece and method. 3,732,134, 5-8-73, Cl. 156-58.000.
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Michaels, Edwin B.; and Lee, John W. Preparation of hexachlorophene. 3,723,540, 3-27-73, Cl. 260-619.00a.
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Michel, Donald E.; Fairbairn, Le Roy W.; and Cook, James W., to Bendix Corporation, The. Right angle electrical connector. 3,715,706, 2-6-73, Cl. 339-156.00r.
Michel, Donald E.; Fairbairn, Le Roy W.; and Cook, James E., to Bendix Corporation, The. Connector for multi-conductor tape cable. 3,721,940, 3-20-73, Cl. 339-17.00f.
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Michel, Rupprecht, to Kraftwerk Union Aktiengesellschaft. Air-cooled condensation apparatus. 3,776,306, 12-4-73, Cl. 165-111.000.
Michel, Walter. Tarpaulin cover and mounting frame for open truck bodies. 3,756,650, 9-4-73, Cl. 296-137.00c.
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Michelet, Daniel, to Rhone-Poulenc S.A. Process for the preparation of glyoxylic acid. 3,779,876, 12-18-73, Cl. 204-76.000.
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Michellone, Giancarlo; Palazzetti, Mario; and Tabasso, Giovanni, to Fiat Societa per Azioni. Antiskid braking method and apparatus. 3,713,705, 1-30-73, Cl. 303-21.00p.
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Michellone, Giancarlo; and Palazzetti, Mario, to Fiat Societa per Azioni. Anti-skid braking systems. 3,717,385, 2-20-73, Cl. 303-21.00f.
Michellone, Giancarlo; Doano, Luigi; Peruglia, Marco; and De Ambri, Diamante, to Fiat Societa per Azioni. Hydraulic antiskid vehicle braking system, having two modes of operation. 3,753,598, 8-21-73, Cl. 303-21.00f.
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Michelson, Gunnar P. Method of making a razor edge safety guard. 3,774,294, 11-27-73, Cl. 29-432.000.
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Mickelson, Grant A., to Union Oil Company of California. Hydrotreating catalyst. 3,755,196, 8-28-73, Cl. 252-435.000.
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Middelbeek, Cornelis G., to Coombs, William Charles. Roller mounted drawing triangle. 3,747,217, 7-24-73, Cl. 33-109.000.
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Middelhoek, Servaas, to N.V. Hollandse Metallurgische Industrie Billiton. Process for the preparation of vanadium (carbo) nitride. 3,745,209, 7-10-73, Cl. 423-371.000.
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Middlebrook, Terence C., to Phillips Petroleum Company. Method of bonding employing radial block copolymer adhesive compositions. 3,726,741, 4-10-73, Cl. 156-334.000.
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Middlehoek, Joris Leendert; and Snudo, Joseph Willem, to U.S. Philips Corporation. Electric filament lamp with improved filament supporting means. 3,736,456, 5-29-73, Cl. 313-278.000.
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Middleton, Terence H., to British Leyland (Austin-Morris) Limited and Borden Chemical Company (U.K.) Limited. Production of foundry cores. 3,708,154, 1-2-73, Cl. 259-2.000.
Middleton, Verne L., to Olin Corporation. Method of inflating metal strip or panels having inflatable fluid passageways. 3,728,778, 4-24-73, Cl. 29-421.000.
Middleton, Verne L., to Olin Corporation. Method of making a mechanical joint. 3,729,804, 5-1-73, Cl. 29-432.000.
Middleton, William A., to United States of America, Navy. Control system for submersibles to minimize bottom sediment disturbances. 3,752,103, 8-14-73, Cl. 114-16.00r.
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Middough, William V.; and Jaquay, Louis H., to Dravo Corporation. Vacuum furnace with an electric heater assembly. 3,764,718, 10-9-73, Cl. 13-31.000.
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Mieligan, Larry P.; Robblee, Alexander R.; Wood, John C.; and Chakrabartty, Sujit K., to Canadian Patents and Development Limited. Ruminant feed of urea-furfural reaction product. 3,736,146, 5-29-73, Cl. 99-2.0nd.
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Mielke, Clarence Harold, Jr. Apparatus and method for measuring hemostatic properties of platelets. 3,712,293, 1-23-73, Cl. 128-2.00g.
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Miettinen, Tuure Tapio. Lapping anticondensation ventilation for windows of vehicles. 3,715,966, 2-13-73, Cl. 98-2.180.
Mifune, Hideo; and Tani, Kenroku, to Matsushita Electric Industrial Co., Ltd. Ultrasonic wave microphone. 3,749,854, 7-31-73, Cl. 179-110.00a.
Mifune, Hideo; Ishii, Akira; Kokoyama, Masanori; and Yamazoe, Toshihiro, to Matsushita Electric Industrial Co., Ltd. Liquid fuel ignition apparatus. 3,759,658, 9-18-73, Cl. 431-255.000.
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Mihalik, John A., to FMC Corporation. Film extrusion die. 3,767,346, 10-23-73, Cl. 425-378.000.
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Mikajiri, Akio, to Nihon Denshi Kabushiki Kaisha. Specimen tilting device for an electron optical device. 3,778,621, 12-11-73, Cl. 250-442.000.
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Mikami, Nobunao, to Kabushiki Kaisha Ricoh. Optical system of the real image type for finders having asperic surfaces. 3,722,979, 3-27-73, Cl. 350-54.000.
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Mikeska, Alan J., to United States of America, Air Force. Stress relief grooves for pyrolytic graphite coated rocket nozzle inserts. 3,762,644, 10-2-73, Cl. 239-265.110.
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Miki, Isao, to Nippon Light Metal Company Limited. Oxygen flush die casting method and apparatus. 3,752,213, 8-14-73, Cl. 164-113.000.
Miki, Isao, to Nippon Light Metal Company Limited. Injection gate system. 3,779,304, 12-18-73, Cl. 164-312.000.
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Miki, Masamitsu. Method for producing sleeves or sheets for feeder heads formed in metal casting and an apparatus therefor. 3,776,992, 12-4-73, Cl. 264-122.000.
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Miki, Yokio, to Minolta Camera Kabushiki Kaisha. Trick photographing system in a motor driven motion picture camera. 3,751,147, 8-7-73, Cl. 352-91.000.
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Mikiya, Toshio. Manifold having plurality of quick connect-disconnect plugs for selectively receiving pressure meter, drain cock, etc. 3,760,842, 9-25-73, Cl. 137-557.000.
Mikkelson, Marvin Olaf: *See—*
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Mikles, Frank G., to Fuller Company. Fluidized solids reactor. 3,737,283, 6-5-73, Cl. 432-58.000.
Mikoda, Masanari: *See—*
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Mikofalvy, Bela K.; and Knechtges, Donald P., to Goodrich, B. F., Company, The. Low temperature curing polymers and latices thereof. 3,748,295, 7-24-73, Cl. 260-29.6ta.
Mikoshiba, Tomoyoshi: *See—*
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Miksitz, Frank J. Feeding and particle size measurement of comminuted solids. 3,718,819, 2-27-73, Cl. 250-43.50d.
Mikulecky, Harvey W., to McGraw-Edison Company. Current limiting fuse. 3,733,572, 5-15-73, Cl. 337-273.000.
Mikulecky, Harvey W., to McGraw-Edison Company. Modularized fuse with precise gap. 3,755,769, 8-28-73, Cl. 337-158.000.
Mikulecky, Harvey W.; and Huber, William J., to McGraw-Edison Company. Method of production testing fuses and circuit for accomplishing such testing. 3,772,590, 11-13-73, Cl. 324-28.00r.
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Mikulicic, Gunther M.; Katz, Yoram; and Sada, Charles A. Rotary hull single buoy offshore loading terminal. 3,735,435, 5-29-73, Cl. 9-8.00p.
Mikulski, Walter E., to United Aircraft Corporation. Method for electrolytically machining holes in hollow articles. 3,749,654, 7-31-73, Cl. 204-129.650.
Mikulyak, Robert Michael, to Bell Telephone Laboratories, Incorporated. Method of regrowing crystals of cadmium sulphide for scintillation counters. 3,725,008, 4-3-73, Cl. 23-294.000.
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Milanowski, Floyd J.; and Bowman, Arthur J., Jr., to United States of America, Army. Firing pin assembly. 3,718,093, 2-27-73, Cl. 102-73.00a.
Milard, Roland; and Hubert, Charles, to Thomson-CSF. Microwave phase-shift devices of the O-$\pi$ type. 3,745,487, 7-10-73, Cl. 333-31.00r.
Milazzo, Frank M., to International Telephone and Telegraph Corporation. Stabilization arrangement for communication buoys. 3,755,836, 9-4-73, Cl. 9-8.000.
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Miles, Floyd D., to International Telephone and Telegraph Corporation. Vacuum switching system. 3,731,026, 5-1-73, Cl. 200-144.00b.
Miles, Floyd D., to International Telephone and Telegraph Corporation. Torque tube vacuum switch. 3,739,121, 6-12-73, Cl. 200-144.00b.
Miles, Floyd D., to International Telephone and Telegraph Corporation. Capacitive fibrillation apparatus using vacuum relays. 3,775,658, 11-27-73, Cl. 320-1.000.
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Miles, Gilbert De Wayne; and McGhie, Russell Park, to Colgate-Palmolive Company. Container cap. 3,741,447, 6-26-73, Cl. 222-517.000.
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Miles, Harry Victor, II, to Dorr-Oliver Incorporated. Pressure filter having depending tubular filter elements. 3,780,868, 12-25-73, Cl. 210-333.000.
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Miles, Thomas R., to Foamat Foods Corporation. Foam piercing apparatus. 3,750,508, 8-7-73, Cl. 83-177.000.
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Milkowski, John D.; Veber, Daniel F.; and Hirschmann, Ralph F., to Merck & Co., Inc. S-lower alkanoyl- and acetonyl-antimethyl cysteine. 3,770,822, 11-6-73, Cl. 260-534.00s.
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Millenbach, Bluma. Construction for vented fecal receptacles. 3,734,096, 522-73, Cl. 128-283.000.

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Miller, Alfred H.; and Dean, George A., to Libbey-Owens-Ford Company. Apparatus for handling sheet material. 3,774,783, 11-27-73, Cl. 214-7.000.

Miller, Alfred H., to Esso Research and Engineering Company. 2-(Thiadizaolyl)-1,2,4-thiadiazolidine-3-5 diones and 1-(thiadiazolyl) -1,3-diazolidine-2,4,5-triones as herbicides (AG-80). 3,779,737, 12-18-73, Cl. 71-90.000.

Miller, Allan. Door lock cylinder plate. 3,732,712, 5-15-73, Cl. 70-452.000.

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Miller, Arthur D.; and Verbel, Robert. Electric chronometer with binary readout. 3,750,384, 8-7-73, Cl. 58-50.00r.

Miller, Arthur F.; Shaw, Wilfrid G.; and Blythe, Hugh M., to Standard Oil Company, The. Catalyst manufacturing process. 3,746,657, 7-17-73, Cl. 252-437.000.

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Miller, Arthur J.; and Miller, Robert A., to Carrier Corporation. Inlet structure for turbomachine. 3,762,833, 10-2-73, Cl. 415-136.000.

Miller, Arthur J.; and Miller, Robert A., to Carrier Corporation. Turbocharger structure. 3,778,194, 12-11-73, Cl. 417-407.000.

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Miller, Benjamin L. Teasing comb. 3,750,680, 8-7-73, Cl. 132-11.00r.

Miller, Bernard; and English, Jackson Pollard, to American Cyanamid Company. Methods of controlling insects using quinoxalinyl N4-oxide phosphate. 3,708,580, 1-2-73, Cl. 424-200.000.

Miller, Bernard F., to Ingersoll-Rand Company. Crank mechanism. 3,779,088, 12-18-73, Cl. 74-44.000.

Miller, Bernard G., to Allis-Chalmers Corporation. Rose guide for lift truck. 3,777,853, 12-11-73, Cl. 187-9.000.

Miller, Bernard H. Eyeglass frame alignment device. 3,710,653, 1-16-73, Cl. 81-3.500.

Miller, Bernard J. Liquid level measurement device. 3,735,638, 5-29-73, Cl. 73-304.00r.

Miller, Berry B.; and Miller, Carol R., to Eastman Kodak Company. Emulsion containing internally fogged photosensitive silver halide grains formed with an aqueous silver salt solution containing alkali metal iodide in thioether. 3,767,413, 10-23-73, Cl. 96107.000.

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Miller, Cecil G., Jr.: *See—*
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Miller, Cecil John. Alarm system utilizing a digital radio link. 3,713,125, 1-23-73, Cl. 340-224.00r.

Miller, Cecil V. Fishing tackle box. 3,758,977, 9-18-73, Cl. 43-57.50r.

Miller, Charles D.: *See—*
Bushmeyer, Richard W.; and Miller, Charles D., 3,723,129.

Miller, Charles E., to General Radio Company. Process and apparatus for providing image brightness over a wide range of discharge repetition rates. 3,735,238, 5-22-73, Cl. 321-15.000.

Miller, Charles Eveleigh; and Schlatter, Gerald Lance, to International Telephone and Telegraph Corporation. Densitometer. 3,713,324, 1-30-73, Cl. 73-1.00r.

Miller, Charles Eveleigh, to International Telephone and Telegraph Corporation. Densitometer probe support. 3,738,155, 6-12-73, Cl. 73-32.000.

Miller, Charles Evelengh, to International Telephone and Telegraph Corporation. Vibration densitometer probe. 3,741,000, 6-26-73, Cl. 73-32.000.

Miller, Charles G.: *See—*
Saari, Walfred S.; and Miller, Charles G., 3,714,229.

Miller, Charles G.; and Bartera, Ralph E., to California Institute of Technology. Arc control in compact arc lamps. 3,736,453, 5-29-73, Cl. 313-146.000.

Miller, Charles G., to California Institute of Technology. Purging means and method for xenon arc lamps. 3,769,544, 10-30-73, Cl. 313-175.000.

Miller, Charles H.; Broadt, David R.; and Armstrong, Donald E., to GTE Sylvania Incorporated. Photographic flashlamp unit. 3,725,692, 4-3-73, Cl. 240-1.300.

Miller, Charles K., to Technical Communications Corporation. Voice privacy device. 3,723,878, 3-27-73, Cl. 325-32.000.

Miller, Charles P.; Miller, Allen R.; and Miller, David J., to Miller Formless Co., Inc. Concrete curb laying machine. 3,749,505, 7-31-73, Cl. 404-98.000.

Miller, Charles R.; Miller, Allen R.; and Miller, David J., to Miller Formless Co., Inc. Construction machine and controls therefor. 3,710,695, 1-16-73, Cl. 94-46.00r.

Miller, Charles W., to Reynolds, R. J., Tobacco Company. Tobacco product. 3,750,674, 8-7-73, Cl. 131-17.00r.

Miller, Charlie D., to Carrier Corporation. Tube extracting mechanism. 3,718,966, 3-6-73, Cl. 29-234.000.

Miller, Christopher F., to Beckman Instruments, Inc. Light-emitting diode display. 3,771,015, 11-6-73, Cl. 315-169.00r.

Miller, Clarence O.; Welch, Floyd; deceased (by Welch, Bonnie; heiress); and McAlister, Charles G.; deceased (by McAlister, Bernice; heiress), said Miller assor. to Cities Service Company. Method of catalyst preparation. 3,721,632, 3-20-73, Cl. 252-442.000

Miller, Clarence R., to Tenneco Inc. Drain valve for fuel filter. 3,768,659, 10-30-73, Cl. 210-313.000.

Miller, Clarence S., Jr.; Staffin, Herbert Kenneth; and Staffin, Robert, to AWT Systems, Inc. Fluidized bed apparatus. 3,772,999, 11-20-73, Cl. 110-8.00r.

Miller, Clifford J., 20% to Lee, Raymond, Organization, Inc., The. Decorative fireplace. 3,777,735, 12-11-73, Cl. 126-120.000.

Miller, Curtis E., to Beckman Instruments, Inc. Illumination device. 3,737,687, 6-5-73, Cl. 240-2.180.

Miller, Cyril V.: *See—*
Cunningham, Francis V.; and Miller, Cyril V., 3,715,449.

Miller, Dale E., to Continental Oil Company. Air coupled seismic energy generator. 3,727,717, 4-17-73, Cl. 181-.5vm.



Miller, Daniel D.; and Miller, Donald D., to Miller Scientific Corporation. Card grading machine. 3,721,807, 3-20-73, Cl. 235-61.60e.

Miller, Darrow L., to North American Rockwell Corporation. Acoustical transducer with rotary pulse coupler. 3,714,817, 2-6-73, Cl. 73-71.500.

Miller, Darrow L., to North American Rockwell Corporation. Tubular transducer and dry couplant therefor. 3,732,444, 5-8-73, Cl. 310-8.100.

Miller, Darrow L., to North American Rockwell Corporation. Rapid ultrasonic inspection apparatus. 3,771,354, 11-13-73, Cl. 73-67.700.

Miller, Darwin A., to Lofaso, Gerald F. Pipe testing apparatus. 3,712,115, 1-23-73, Cl. 73-49.100.

Miller, David: *See—*
Billett, Eric Harold; and Miller, David, 3,736,347.

Miller, David A.: *See—*
Bernhoft, Gerald W.; and Miller, David A., 3,773,084.

Miller, David Christopher: *See—*
Brandle, Charles David, Jr.; and Miller, David Christopher, 3,723,599.

Miller, David Christopher, to Bell Telephone Laboratories, Incorporated. Technique for etch polishing single rare earth crystal synthetic garnet. 3,755,023, 8-28-73, Cl. 156-2.000.

Miller, David E., to General Electric Company. Means for inihibiting flutter in a numerical display. 3,735,387, 5-22-73, Cl. 340-324.00r.

Miller, David H.: *See—*
Miller, Joseph G.; Stichman, John H.; and Bernstein, Theodore, 3,708,685.

Miller, David J.: *See—*
Miller, Charles P.; Miller, Allen R.; and Miller, David J., 3,749,505.
Miller, Charles R.; Miller, Allen R.; and Miller, David J., 3,710,695.

Miller, David James: *See—*
Wiewiorowski, Tadeusz Karol; and Miller, David James, 3,737,513.
Wieworowski, Tadeusz Karol; and Miller, David James, 3,720,750.

Miller, David Joseph: *See—*
Gray, Sidney; Levin, Burton Joshua; and Miller, David Joseph, 3,721,923.

Miller, David M.; and Wilding, Morris D., to Swift & Company. Vegetable protein of high viscosity. 3,723,407, 3-27-73, Cl. 260-123.500.

Miller, David P.: *See—*
Kozak, Donald S.; and Miller, David P., 3,734,714.

Miller, David P., to United Aircraft Corporation. Vortex oil-water separator system providing clean water. 3,780,865, 12-25-73, Cl. 210-195.000.

Miller, Dean E.: *See—*
de Haas, Frank; and Miller, Dean E., 3,735,517.

Miller, Delmar S.: *See—*
Jennings, Paul; and Miller, Delmar S., 3,742,673.

Miller, Dennis Brian, to Western Electric Company, Incorporated. Methods and apparatus for imparting a desired orientation to an article. 3,776,394, 12-4-73, Cl. 214-1.00r.

Miller, Dennis D.: *See—*
Stevens, Harry S.; Karr, Jerry W.; Miller, Dennis D.; and Ballinger, Forrest H., 3,748,580.

Miller, Donald. Emergency inflatable recompression unit. 3,729,002, 4-24-73, Cl. 128-204.000.

Miller, Donald B., to Electroprint, Inc. Colored polymeric microsphere toners. 3,770,692, 11-6-73, Cl. 260-41.00c.

Miller, Donald D.: *See—*
Miller, Daniel D.; and Miller, Donald D., 3,721,807.

Miller, Donald E., to Continental Can Company, Inc. Friction drive differential screw. 3,730,016, 5-1-73, Cl. 74-424.80b.

Miller, Donald F.: *See—*
Enright, Dennis J.; Kahabka, Richard D.; and Miller, Donald F., 3,708,779.
Enright, Dennis J.; Kahabka, Richard D.; and Miller, Donald F., 3,713,214.

Miller, Donald F.; Anthone, Leo E.; and Kahabka, Richard D., to Minnesota Mining and Manufacturing Company. Mounting for wire splice modules. 3,717,334, 2-20-73, Cl. 269-37.000.

Miller, Donald F., to Du Pont de Nemours, E. I., and Company. Air-laydown apparatus for producing webs for nonwoven fabric. 3,768,120, 10-30-73, Cl. 19-156.300.

Miller, Donald G., to Canadian Patents and Development Limited. Method of drying wood. 3,721,013, 3-20-73, Cl. 34-1.000.

Miller, Donald K., to Hewlett-Packard Company. Light-emitting diode driver. 3,755,697, 8-28-73, Cl. 307-311.000.

Miller, Donald L., to Bendix Corporation, The. Self-adjusting electromagnetic clutch-brake. 3,724,619, 4-3-73, Cl. 192-81.00b.

Miller, Donald L., to Bendix Corporation, The. Overrunning clutch with multiple magnet retardation. 3,726,373, 4-10-73, Cl. 192-84.0pm.

Miller, Donald L.; and Puro, John F., to Bendix Corporation, The. Armature assembly for an electromagnetic clutch. 3,727,736, 4-17-73, Cl. 192-84.00c.

Miller, Donald L., to Bendix Corporation, The. Self-adjusting two-way electromagnetic disc clutch. 3,744,609, 7-10-73, Cl. 192-111.00a.

Miller, Donald N., to Eastman Kodak Company. Process for internal cleaning of extruders. 3,776,774, 12-4-73, Cl. 134-7.000.

Miller, Dorrow L., to North American Rockwell Corporation. Tubular transducer and dry couplant therefor. 3,714,816, 2-6-73, Cl. 73-71.500.

Miller, Douglas A.: *See—*
Underwood, Paul; and Miller, Douglas A., 3,754,803.

Miller, Duer L.: *See—*
Akerson, David W.; and Miller, Duer L., 3,758,357.

Miller, Eddie. Combined chair and exercising device. 3,738,649, 6-12-73, Cl. 272-58.000.

Miller, Edward F.; and Hellmuth, Walter W., to Texaco Inc. Ashless lubricating oil dispersant. 3,755,433, 8-28-73, Cl. 252-51.50r.

Miller, Edward Francis: *See—*
Pountney, Clifford Harold; and Miller, Edward Francis, 3,725,131.

Miller, Edward H.; and Chesmejef, Stephen, to General Electric Company. Combined moisture separator and reheater. 3,713,278, 1-30-73, Cl. 55-269.000.

Miller, Edward J., to Martin Marietta Corporation. Electrical power inverter with sinusoidal output. 3,723,848, 3-27-73, Cl. 321-45.00r.

Miller, Edward P.: *See—*
Kolker, William A., 3,770,133.

Miller, Edward W.: *See—*
Keene, Derek K.; and Miller, Edward W., 3,730,369.

Miller, Edwin A. Direct-action switch. 3,736,395, 5-29-73, Cl. 200-159.00a.

Miller, Edwin A., to Texas Instruments, Incorporated. Coinage material. 3,750,253, 8-7-73, Cl. 29-196.300.

Miller, Elbert H., to Caterpillar Tractor Company. Turbocharger cooling and lubricating system. 3,740,170, 6-19-73, Cl. 417-407.000.

Miller, Ellsworth S.: *See—*
Du Rocher, Gidson A.; and Miller, Ellsworth S., 3,753,214.

Miller, Elton W. Protective building structure. 3,725,891, 4-3-73, Cl. 340-273.000.

Miller, Emery P., to Ransburg Electro-Coating Corporation. Material deposition apparatus for an organometallic. 3,776,181, 12-4-73, Cl. 118-49.500.

Miller, Eric; and Miller, Robert Eric, to Miller, R. E., Pty., Limited. Base mounting. 3,712,571, 1-23-73, Cl. 248-183.000.

Miller, Eric; and Miller, Robert Eric, to Miller, R. E., Pty. Limited. Mounting assembly. 3,749,208, 7-31-73, Cl. 188-271.000.

Miller, Ernest W. Miniature recording altimeter. 3,715,925, 2-13-73, Cl. 73-384.000.

Miller, Eugene J. Roller align drive. 3,716,219, 2-13-73, Cl. 259-177.00r.

Miller, Everett L.: *See—*
Tolf, Ingvar L.; Herzing, Vernon J.; Miller, Everett L.; and Lightfoot, George L., 3,770,141.

Miller, Everett R.: *See—*
Davis, Carlton J., Sr.; Wood, Richard P.; and Miller, Everett R., 3,734,814.

Miller, Everett R., to Owens-Corning Fiberglas Corporation. Method of making inlaid resins and article produced thereby. 3,752,690, 8-14-73, Cl. 117-8.000.

Miller Fluid Power Corporation, mesne: *See—*
Flick, Francis S., 3,708,188.

Miller Formless Co., Inc.: *See—*
Miller, Charles P.; Miller, Allen R.; and Miller, David J., 3,749,505.
Miller, Charles R.; Miller, Allen R.; and Miller, David J., 3,710,695.

Miller, Frank E.; Smith, Erwin G.; and Sulcek, Charles E., to Whirlpool Corporation. Refuse compactor with cooperating exposed and hidden control means. 3,717,090, 2-20-73, Cl. 100-53.000.

Miller, Frank E., to Whirlpool Corporation. Refuse compactor support means. 3,753,400, 8-21-73, Cl. 100-100.000.

Miller, Frank L.: *See—*
Scocos, Peter C.; and Miller, Frank L., 3,749,692.

Miller, Franklin Elliott, to General Electric Company. Flow mixing selector valve. 3,738,107, 6-12-73, Cl. 60-241.000.

Miller, Franz Friedrich: *See—*
Erdmann, Hans; and Miller, Franz Friedrich, 3,714,211.

Miller, Fred H.; and Goyette, James W., to General Motors Corporation. Engine cooling fan. 3,763,835, 10-9-73, Cl. 123-41.110.

Miller, Frederic L.: *See—*
Brown, Charles H.; and Miller, Frederic L., 3,770,353.

Miller, Frederick L. B., to Chipper Machines and Engineering Corporation. Knife holder in log slabbing chipper. 3,777,793, 12-11-73, Cl. 144-225.000.

Miller, Gabriel Lorimer, to Bell Telephone Laboratories, Incorporated. Method and apparatus for analyzing semiconductors. 3,731,192, 51-73, Cl. 324-158.00d.

Miller, Gary L., to Magnavox Company, The. One piece character display device. 3,758,973, 9-18-73, Cl. 40-130.00e.

Miller, George A.: *See—*
Lewis Sheldon N.; Miller, George A.; and Law, Andrew B., 3,761,488.

Miller, George A., to Rohm & Haas Company. Ethylene-bis-dithiocarbamato bis-chlorostannanes. 3,723,488, 3-27-73, Cl. 260-429.700.

Miller, George A., to Texas Instruments, Incorporated. Etching composition preparatory to nickel plating. 3,767,582, 10-23-73, Cl. 252-79.400.

Miller, George A.; and Greenfield, Stanley A., to Rohm & Haas Company. Substituted 1-(2-hydroxybenzylidene)-4-alkoxycarbonylthiosemicarbazides and related compounds. 3,776,942, 12-4-73, Cl. 260-470.000.

Miller, George J.: *See—*
Hullett, David F.; Lytton, Kenneth G.; and Miller, George J., 3,738,476.

Miller, George J., to SCM Corporation. Developing unit. 3,753,174, 8-14-73, Cl. 355-10.000.

Miller, George Langham: *See—*
Lewis, Brynley; Miller, George Langham; Brooks, Kenneth John; and Goss, Arthur George, 3,779,006.

Miller, George T., to Hooker Chemical Corporation. Metalizing substrates. 3,709,727, 1-9-73, Cl. 117-213.000.

Miller, George T., to Hooker Chemical Corporation. Method for stimulating plant growth. 3,764,294, 10-9-73, Cl. 71-122.000.

Miller, George T., to Hooker Chemical Corporation. Metal plating of synthetic polymers. 3,771,973, 11-13-73, Cl. 29-195.000.

Miller, George T., to Hooker Chemical Corporation. Leather treatment. 3,775,162, 11-27-73, Cl. 117-93.1dh.

Miller, George T., to Hooker Chemical Corporation. Metal plating of synthetic polymers. 3,779,790, 12-18-73, Cl. 117-47.00a.

Miller, Gordon H., to Texaco Inc. Large scale tank cleaning method. 3,728,156, 4-17-73, Cl. 134-10.000.

Miller, Gordon H., to Texaco Inc. Preparation of curable polymeric triazine compositions. 3,763,115, 10-2-73, Cl. 260-78.40n.

Miller, Gordon H., to Texaco Inc. Polymerization of aromatic nitriles. 3,775,380, 11-27-73, Cl. 260-78.40n.

Miller, Gordon R.: *See—*
Coker, William P.; Phillips, Prella M.; and Miller, Gordon R., 3,726,862.

Miller, Harmon B., III; Fernander, Bill; and Hanson, Larry. Sign. 3,757,443, 9-11-73, Cl. 40-125.00h.

Miller, Harold C., to Super-Cut, Inc. Drill shank and chuck assembly for a drill press. 3,753,622, 8-21-73, Cl. 408-59.000.

Miller, Harold C., to Super-Cut, Inc. Method of forming a peripheral grinding wheel. 3,756,796, 9-4-73, Cl. 51-293.000.

Miller, Harold L.: *See—*
Cameron, Frank L.; and Miller, Harold L., 3,742,415.

Miller, Harold L., to Vemco Products, Inc. Overhead door operator release. 3,722,141, 3-27-73, Cl. 49-139.000.

Miller, Harold N., to Esso Research and Engineering Company. Polymeric wax crystal modifiers for high wax content petroleum oils. 3,729,296, 4-24-73, Cl. 44-62.000.

Miller, Harold R. Work holder. 3,738,606, 6-12-73, Cl. 248-449.000.

Miller, Harry. Remote control latch pin mechanism. 3,764,153, 10-9-73, Cl. 279-86.000.

Miller, Harry C., to Sargent & Greenleaf, Inc. Key operable padlock with rotatable seal for plug. 3,710,603, 1-16-73, Cl. 70-38.00a.

Miller, Harry C., to Sargent & Greenleaf, Inc. Key operable padlock with slidable seal for plug. 3,713,309, 1-30-73, Cl. 70-38.00a.

Miller, Henry F.: *See—*
Shichman, Daniel; Miller, Henry F.; and Ren, Mann, 3,776,054.

Miller, Henry F.; and Bredimus, Robert L., to Uniroyal, Inc. Device for testing power transmission components. 3,739,632, 6-19-73, Cl. 73-136.00a.

Miller, Henry F., to Uniroyal, Inc. Positive power transmission system. 3,756,091, 9-4-73, Cl. 74-231.00c.

Miller, Herbert E., to Epsco Incorporated. Random pulse generator. 3,758,873, 9-11-73, Cl. 331-78.000.

Miller, Herman, Inc.: *See—*
Kelley, James O.; and Propst, Robert L., 3,712,697.
Ostertag, Hubert L., 3,709,555.
Propst, Robert L.; and Kelley, James O., 3,712,698.
Propst, Robert L.; and Kelley, James O., 3,716,282.
Propst, Robert L.; and Kelley, James O., 3,734,526.
Propst, Robert L.; and Kelley, James O., 3,752,547.
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Watamura, Donald; and Doester, Everett L., 3,774,962.

Miller, Herman, Research Corporation: *See—*
Propst, Robert L.; and Propst, Howard B., 3,770,182.

Miller, Hobart G.; and Mariol, James F., to Apeco Corporation. Recreational vehicle. 3,719,244, 3-6-73, Cl. 180-14.00r.

Miller, Homer R.; and Vallone, Giacinto, to General Electric Company. Thermal protective assembly. 3,723,932, 3-27-73, Cl. 337-405.000.

Miller, Howard A.: *See—*
Worth, Joseph H.; Miller, Howard A.; and Glover, Clyde P., 3,748,137.

Miller, Howard A., to Eastman Kodak Company. Method of preparing magnetically responsive carrier particles. 3,718,594, 2-27-73, Cl. 252-62.100.

Miller, Howard A., to Eastman Kodak Company. Highly conductive carrier particles. 3,736,257, 5-29-73, Cl. 252-62.100.

Miller, Howard F., to Aerojet-General Corporation. Stacker crane control system. 3,734,310, 5-22-73, Cl. 214-16.40a.

Miller, Imrich M., to Universal Manufacturing Corporation. Moisture-resistant housing for electrical components and method and apparatus for making the same. 3,778,529, 12-11-73, Cl. 174-52.0pe.

Miller Industries, Inc.: *See—*
Miller, Alexander, 3,726,205.

Miller, Ira H., to Owens-Illinois, Inc. Dual seal pourout fitment and closure combination. 3,762,612, 10-2-73, Cl. 222-479.000.

Miller, Irene: *See—*
Galuska, Charles W., 3,763,655.

Miller, J. H., Jr.: *See—*
Fair, Delbert W.; and Miller, J. H., Jr., 3,745,885.
Fair, Delbert W.; Brown, Graydon L.; and Miller, J. H., Jr., 3,777,843.

Miller, Jack. Can puncturing and bottle cap removing device. 3,727,247, 4-17-73, Cl. 7-14.250.

Miller, Jack. Method for pumping oil through terrain containing permafrost. 3,735,769, 5-29-73, Cl. 137-13.000.

Miller, Jack L., to CTS Corporation. Wirewound variable resistance control and method of making the same. 3,750,081, 7-31-73, Cl. 338-174.000.

Miller, Jack V.; and Monte, Ernest, to Sunbeam Lighting Co. Fluorescent luminaire with vertically oriented U-shaped lamp. 3,733,482, 5-15-73, Cl. 240-51.120.

Miller, Jack V., to Sunbeam Lighting Co. Variable density diffuser for lighting fixtures. 3,760,178, 9-18-73, Cl. 240-106.00r.

Miller, James D.: *See—*
Jaffa, David; and Miller, James D., 3,719,141.

Miller, James F.: *See—*
Haas, Charles B.; Taylor, Richard E.; Crockett, David E.; Miller, James F.; Paul, Howard R.; and Reid, Charles J., 3,769,876.
Maurer, William C.; Miller, James F.; and Hickman, Ira D., 3,752,507.

Miller, James F. Snap-off mud flaps. 3,726,544, 4-10-73, Cl. 280-154.50r.

Miller, James H.; and Schaumburg, Edward G., to Gould Inc. Connection forming apparatus. 3,736,642, 6-5-73, Cl. 29-204.000.

Miller, James H.; and Darlington, Henry S., to Teledyne Mid-America Corporation. Shipping and cleaning box. 3,747,751, 7-24-73, Cl. 206-65.00a.

Miller, James H.; and Hakarine, Duane D., to Gould, Inc. Battery side terminal assembly. 3,767,467, 10-23-73, Cl. 136-135.000.

Miller, James R.: *See—*
Martincic, Paul W.; and Miller, James R., 3,708,875.

Miller, James R.; Pierce, Richard H.; Linton, Robert W.; and Wills, John H., to Philadelphia Quartz Company. Silica. 3,714,068, 1-30-73, Cl. 252-358.000.

Miller, James S.: *See—*
Hilger, Edwin T.; and Miller, James S., 3,746,148.

Miller, Jay H.: *See—*
Spielvogel, Paul; Sagal, William R.; and Miller, Jay H., 3,717,395.

Miller, Jaydee W. Gas-fog alkylation process. 3,717,686, 2-20-73, Cl. 260-683.590.

Miller, Jaydee W., to Sun Oil Company of Pennsylvania. Gas-fog alkylation with strong sulfuric acid and promoter. 3,780,130, 12-18-73, Cl. 260-683.630.

Miller, John: *See—*
Marks, Colin Elliott; and Miller, John, 3,728,281.

Miller, John A., to Olin Corporation. Fusee cover. 3,741,121, 6-26-73, Cl. 102-37.800.

Miller, John B.; and Horrigan, Marion F., to Transelco, Inc. Glass polishing agent of sodium zirconium silicate. 3,775,068, 11-27-73, Cl. 51-308.000.

Miller, John C.: *See—*
Keeler, Frederick D.; Ellis, Carleton, Jr.; and Miller, John C., 3,773,205.

Miller, John H., to Hy-Way Heat Systems, Inc. Direct fired heating device. 3,757,745, 9-11-73, Cl. 122-136.00r.

Miller, John H., to Hy-Way Heat Systems, Inc. Regenerative heat exchanger. 3,776,199, 12-4-73, Cl. 122-33.000.

Miller, John H., III, to Hewlett-Packard Company. Translational motion apparatus for the magnetic transducers of a disc memory. 3,743,794, 7-3-73, Cl. 179-100.2ca.

Miller, John J.; and Vesper, George J., to McGraw-Edison Company. Slant mounted laundry machine. 3,768,282, 10-30-73, Cl. 68-146.000.

Miller, John Paul: *See—*





Brockins, Richard R.; and Miller, John Paul, 3,770,130.

Miller, John R.: *See—*
Dobson, James J.; Dellecave, Thomas L.; Donegen, Rudolf R.; and Miller, John R., 3,745,877.

Miller, John T., Jr.: *See—*
Parts, Leo P.; and Miller, John T., Jr., 3,766,157.

Miller, John W., Jr., to United States of America, Navy. Spline wear measurement gage. 3,732,626, 5-15-73, Cl. 33-179.50r.

Miller, Joseph A.; Kruglinski, Frank A.; and Freakes, Anthony, to General Corrugated Machinery Co., Inc. Case sealer. 3,769,777, 11-6-73, Cl. 53-76.000.

Miller, Joseph A., Jr., to Lilly, Eli, and Company. Analgesic compositions. 3,749,797, 7-31-73, Cl. 424-308.000.

Miller, Joseph G.: *See—*
Bernstein, Theodore; and Miller, Joseph G., 3,713,336.
Miller, Joseph G.; Stichman, John H.; and Bernstein, Theodore, 3,708,685.

Miller, Joseph G.; Stichman, John H.; and Bernstein, Theodore, 1/3 to said Miller, Joseph G., 1/3 to Evans, Marvin and 1/3 to Miller, David H. High inductive load energizing circuit. 3,708,685, 1-2-73, Cl. 307-104.000.

Miller, Joseph J.: *See—*
Cribben, James T.; and Miller, Joseph J., 3,774,343.

Miller, Judith R. Game device. 3,727,916, 4-17-73, Cl. 273-153.00s.

Miller, Keith A.: *See—*
Stowasser, William P.; and Miller, Keith A., 3,771,718.

Miller, Kenneth J.: *See—*
McElwain, Merle G.; and Miller, Kenneth J., 3,710,473.

Miller, Kenneth J.; and Patton, Eugene K., to Caterpillar Tractor Company. Apparatus for deforming sheet material. 3,748,889, 7-31-73, Cl. 72-382.000.

Miller, Lacy J. Safety apparatus. 3,762,499, 10-2-73, Cl. 182-3.000.

Miller, Larry. Camping furniture. 3,722,011, 3-27-73, Cl. 5-118.000.

Miller, Larry W.: *See—*
Rabb, Joseph C.; and Miller, Larry W., 3,733,795.

Miller, Laurence L., to TRW Inc. Shaft retaining means for hydrostatic steering devices. 3,767,165, 10-23-73, Cl. 251-213.000.

Miller, Lawrence J., to Caterpillar Tractor Company. Tractor-scraper with moveable floor. 3,739,504, 6-19-73, Cl. 37-124.000.

Miller, Lawrence J., to Caterpillar Tractor Company. Multi-elevator scraper. 3,758,966, 9-18-73, Cl. 37-8.000.

Miller, Lee A.: *See—*
Curtis, John S.; and Miller, Lee A., 3,776,539.

Miller, Leo A.: *See—*
Terrana, Jack D.; and Miller, Leo A., 3,719,742.

Miller, Leo C.: *See—*
Schroader, Irvin H.; Hosea, Melvin E.; Caggiano, Vincent J.; and Miller, Leo C., 3,741,502.

Miller, Leonidas C. Flow switch vane with apertures covering substantially the entire surface area to minimize turbulence. 3,761,657, 9-25-73, Cl. 200-81.90r.

Miller, Leonidas C. Well pressure measuring and recording device. 3,780,574, 12-25-73, Cl. 73-151.000.

Miller, Leslie T., to Speedriver Tool Corporation. Wire nut tool. 3,769,862, 11-6-73, Cl. 81-90.00d.

Miller, Lester I., to Du Pont de Nemours, E. I., and Company. Non-yellowing acrylic enamel containing an acid phosphate catalyst. 3,753,935, 8-21-73, Cl. 260-22.0ca.

Miller, Lewis F., to International Business Machines Corporation. Metallizing composition. 3,717,483, 2-20-73, Cl. 106-100.000.

Miller, Lewis S., to Weyerhaeuser Company. Coating compositions and processes. 3,734,764, 5-22-73, Cl. 110-93.310.

Miller, Lloyd E., Jr. Positive displacement compressor/turbine. 3,728,049, 4-17-73, Cl. 418-55.000.

Miller, Louis A., to DND Electronics. PABX-interface interconnection device. 3,715,513, 2-6-73, Cl. 179-18.0ad.

Miller, Luther B., to Polyspede Electronics Corporation. Motor speed control system using controlled rectifiers. 3,719,876, 3-6-73, Cl. 318-341.000.

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Miller, Marvin, to Mileahead Industries Incorporated. Portable waste disposal unit. 3,723,999, 4-3-73, Cl. 4-142.000.

Miller, Marvin A. Ball-return billiard table with cooperating racking device. 3,727,914, 4-17-73, Cl. 273-11.00r.

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Miller, Max W., to Pfizer Inc. 1-Phenyl-6-azacytosines as coccidiostats. 3,773,938, 11-20-73, Cl. 424-249.000.

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Miller, Nathan W., to Flag-Matic Inc. Water skier safety alarm. 3,735,724, 5-29-73, Cl. 116-132.000.

Miller, Norman C. Method of preventing the spread of and extinguishing fires. 3,754,600, 8-28-73, Cl. 169-1.00a.

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Miller, Richard G., to Ontario Cancer Institute. Device for separating living cells. 3,709,361, 1-9-73, Cl. 210-83.000.
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Miller, Roy W., to Pullman Incorporated. Motor actuated hopper doors. 3,717,110, 2-20-73, Cl. 105-284.000.
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Mills, Allen William. Self-shaping earplugs. 3,736,929, 6-5-73, Cl. 128-152.000.

Mills, Archie W. Tapping and dispensing device for fluid filled containers. 3,720,356, 3-13-73, Cl. 222-569.000.

Mills, Archie W. Pump. 3,753,632, 8-21-73, Cl. 417-520.000.

Mills, Archie W. Food grinder. 3,768,741, 10-30-73, Cl. 241-82.100.

Mills, Arnold, to Corkland, Alvin. Lighting fixtures using circular, tubular fluorescent lamps. 3,742,208, 6-26-73, Cl. 240-51.120.

Mills, Carl R. Fluid torgue operator. 3,772,966, 11-20-73, Cl. 92-66.000.

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Mills, Donald N., to Union Carbide Canada Limited. Iris type cut off knife. 3,759,127, 9-18-73, Cl. 83-318.000.

Mills, Francis Duncan, to Baker Equipment Engineering Co., Inc. Manual override apparatus for electrohydraulic valve control station. 3,759,485, 9-18-73, Cl. 251-130.000.

Mills, Frank, Jr., to Tote-Cart Company. Shopping cart construction. 3,717,358, 2-20-73, Cl. 280-33.99r.

Mills, Franky D., to Hamby Company, The. Ammonia trailer improvements. 3,718,343, 2-27-73, Cl. 280-116.000.

Mills, Franky D., to Hamby Company, The. Adjustable shank mounting. 3,743,029, 7-3-73, Cl. 172-34.000.

Mills, Geoffrey Spottiswoode. Milking inflations. 3,771,494, 11-13-73, Cl. 119-14.470.

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Mills, George T.; and Okcuoğlu, Selahattin A., to International Business Machines Corporation. Type element support. 3,771,635, 11-13-73, Cl. 197-52.000.

Mills, Hadley B. Apparatus for producing a mist of a fluid. 3,767,172, 10-23-73, Cl. 261-18.00a.

Mills, Harold E.; and Caesar, Michael B., to Occidental Petroleum Corporation. Production of potassium polyphosphates from phosphate acid sludges. 3,770,410, 11-6-73, Cl. 71-1.000.

Mills, Harry N.; and Roll, Henry E., to Owens-Illinois, Inc. Method of feeding glass batch. 3,725,022, 4-3-73, Cl. 65-27.000.

Mills, Ivor W.; and Melchiore, John J., to Sun Oil Company. Refrigeration oil composition having wide boiling range. 3,715,302, 2-6-73, Cl. 208-14.000.

Mills, Ivor W.; Kirk, Merritt C., Jr.; and Olenzak, Albert T., to Sun Oil Company. Catalytic hydrofinishing of lube oil product of solvent extraction of petroleum distillate. 3,732,154, 5-8-73, Cl. 208-87.000.

Mills, Ivor W.; and Dimeler, Glenn R., to Sun Oil Company of Pennsylvania. Blend comprising hydrorefined oil and unhydrorefined oil. 3,759,817, 9-18-73, Cl. 208-14.000.

Mills, Jack F.: *See—*
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Mills, Jack F., to Dow Chemical Company, The. Inhibiting corrosion of iron-by bromine. 3,767,767, 10-23-73, Cl. 423-269.000.

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Mills, Jeffrey P., to GTE Automatic Electric Laboratories, Incorporated. Relay release delay circuit. 3,732,467, 5-8-73, Cl. 317-141.00s.

Mills, John Edward. Antiglare safety rearview mirror for automotive vehicles. 3,738,737, 6-12-73, Cl. 350-278.000.

Mills, King L., to Phillips Petroleum Company. Electrode for electrolytic conversion cells including passage means in the electrode for electrolyte flow through the electrode. 3,772,201, 11-13-73, Cl. 204-277.000.

Mills, King L., to Phillips Petroleum Company. Carbon black pelleting process. 3,776,750, 12-4-73, Cl. 106-307.000.

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Mills, Stephen D. Golf putter. 3,749,408, 7-31-73, Cl. 273-171.000.

Mills, Stephen H.: *See—*
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Mills, Truett P. Hosel-less wood type golf club. 3,759,517, 9-18-73, Cl. 273-80.700.

Mills, William D. Strip measuring apparatus. 3,709,078, 1-9-73, Cl. 83-226.000.

Mills, William R.; and Griffin, Roger C., Jr., to Reynolds Metals Company. Laminate and method of making same. 3,756,892, 9-4-73, Cl. 156-323.000.

Millward, John David, to Decca Limited. Synchronising systems. 3,769,574, 10-30-73, Cl. 323-101.000.

Milly, George H., to Mining and Exploration, Company, mesne. Method of prospecting for mercury and associated noble and base metals. 3,730,683, 5-1-73, Cl. 23-230.0ep.

Milly, George H., to Geomet Mining and Exploration Company, mesne. Method of prospecting for hydrocarbons. 3,734,489, 5-22-73, Cl. 73-23.000.

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Milo, William C., to United States of America, Army. Liquid cryogen detector. 3,740,740, 6-19-73, Cl. 340-244.00r.

Milo, William C., to United States of America, Army. Detecting helium liquid level. 3,755,801, 8-28-73, Cl. 340-244.00r.

Milo, William C., to United States of America, Army. Cryogen temperature indicator. 3,780,585, 12-25-73, Cl. 73-362.0sc.

Milovancevic, Slavko. Vehicular drift indicator-speedmeter. 3,756,077, 9-4-73, Cl. 73-187.000.

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Miltenberger, Louis E., to United States of America, Navy. Thrust vectoring control system for rocket nozzles. 3,726,480, 4-10-73, Cl. 239-265.190.

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Milton, Kirby Mitchell, to Eastman Kodak Company. Silver halide emulsions predominantly chloride containing silver halide grains with surfaces chemically sensitized and interiors free from chemical sensitization and the use thereof in reversal processes. 3761,266, 9-25-73, Cl. 96-64.000.

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Milutin, Ivan Cutakoui; Bartell, Charles; and Blum, Alfred, to Borden Inc. Transfer proof ink for pressure sensitive adhesive tapes. 3,773,538, 11-20-73, Cl. 117-15.000.

Milvich, Boris. Predetermining counter. 3,711,016, 1-16-73, Cl. 235-132.00e.

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Mimeur, Robert, to Ets. Carpano & Pons S.A. Device for limiting the number of revolution of a rotating shaft. 3,718,215, 2-27-73, Cl. 192-141.000.

Mimeur, Robert, to Etablissments Carpano & Pons S.A. Safety-release ski binding toe-stop member. 3,761,105, 9-25-73, Cl. 280-11.357.

Mimeur, Robert, to Etablissements Carpano & Pons S.A. Ski binding. 3,773,341, 11-20-73, Cl. 280-11.35t.

Mimino, Tohru; Kinoshita, Kazuhisa; and Hattori, Keisuke, to Nippon Kokan Kabushiki Kaisha. High temperature low alloy steel. 3,708,280, 1-2-73, Cl. 75-124.000.

Mimino, Tohru; Kinoshita, Kazuhisa; Tanaka, Ryohei; and Shinoda, Takayuki, to Nippon Kokan Kabushiki Kaisha. Austenitic heat resisting steel. 3,716,353, 2-13-73, Cl. 75-128.00g.

Mimino, Tohru; Kinoshita, Kazuhisa; Minegishi, Isao; and Shinoda, Takayuki. Austenitic heat resisting steel. 3,751,244, 8-7-73, Cl. 75-128.00g.

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Mimoun, Hubert; De Roch, Irenee Seree; Sajus, Lucien; and Mengu, Pierre, to Institut Francais du Petrole des Carburants et Lubrifiants. Organo-metallic peroxidic derivatives of molybdenum and tungsten and their process of manufacture and use. 3,766,232, 1-16-73, Cl. 260-429.00r.

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Minami, Hirosi, to Toyo-Kogyo Co., Ltd. and Fuji Electric Co., Ltd. Control system for an electric automotive vehicle. 3,728,599, 4-17-73, Cl. 318-139.000.

Minami, Keiichi; Nakaue, Tokuji; Susami, Kozo; Masaaki, Tabata; and Hirota, Masakazu, to Toray Industries, Inc. Method and apparatus for producing yarns by the open-end spinning system. 3,721,070, 3-20-73, Cl. 57-58.950.

Minami, Keiichi; Susami, Kozo; and Sakai, Masaaki, to Toray Industries, Inc. Process and apparatus for feeding fiber in an open end spinning machine. 3,750,382, 8-7-73, Cl. 57-58.910.

Minami, Muneyoshi, to Toray Industries, Inc. Process for the preparation of polyimides. 3,709,862, 1-9-73, Cl. 260-47.0cp.

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Misch, Robert D.; and Daus, Donald A., to MBT Corporation. Method of treating plastic and elastomeric materials and articles produced thereby. 3,732,620, 5-15-73, Cl. 32-2.000.

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Mishcon, Lester, to Singer Company, The. Circular knitting machine with pattern wheels and adjustable cams. 3,763,667, 10-9-73, Cl. 66-50.00a.

Mishcon, Lester, to Singer Company, The. Needle actuating camming for circular knitting machines. 3,780,539, 12-25-73, Cl. 66-42.000.

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Mistarz, Robert J.; and Mojonnier, Albert B., Sr., to Koehring Company. Heat sealing apparatus and method. 3,726,749, 4-10-73, Cl. 156-580.000.

Mistarz, Robert J.; and Mojonnier, Albert B., Sr., to Koehring Company. Jaw-operated cup dispensing mechanism and method. 3,735,896, 5-29-73, Cl. 221-210.000.

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Misumi, Teruyuki; Miyauchi, Hirotsugu; Tsushima, Sakae; Takeda, Kunihiko; and Miyaji, Toshio, to Asahi Kasei Kogyo Kabushiki Kaisha. Graft polymeric substrate. 3,759,738, 9-18-73, Cl. 117-93.310.

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Mitani, Taizo, to Canon Kabushiki Kaisha. Single lens reflex camera with an interchangeable focus screen. 3,710,699, 1-16-73, Cl. 95-10.0po.

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Mitchell, Alfred J.; and Bratkovic, Mirko A., to General Motors Corporation. Rotary machine roto side seal groove construction. 3,773,442, 11-20-73, Cl. 418-142.000.

Mitchell, Angelo Michael, to Corning Glass Works. Automatic tube transfer firepolishing apparatus and method. 3,708,273, 1-2-73, Cl. 65-120.000.

Mitchell, Barbara: *See—*
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Mitchell, Byron V. Snow vehicle. 3,773,345, 11-20-73, Cl. 280-21.00r.

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Mitchell, David B. Upholstery nail. 3,733,658, 5-22-73, Cl. 24-152.000.

Mitchell, David C.; and Latreille, Charles W., to D.A.B. Industries, Inc. Method for adhering friction material to ring-like element. 3,740,512, 6-19-73, Cl. 219-10.410.

Mitchell, David L.; and Speight, James G., 30% to Canada-Cities Service, Ltd., 30% to Imperial Oil, Limited, 30% to Atlantic Richfield Company and 10% to Gulf Oil Canada Limited. Preparation of mineral free asphaltenes. 3,779,902, 12-18-73, Cl. 208-251.000

Mitchell, David S., to Chevron Research Company. Catalyst rejuvenation. 3,761,400, 9-25-73, Cl. 208-216.000.
Mitchell, David Thomas Somerled; and Melsom, Henry Roy Francis, to Hunting Oilfield Services Limited. Clearing solid material from elongate tubes and passages. 3,775,805, 12-4-73, Cl. 15-304.000.
Mitchell, Dean W.: *See—*
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Mitchell, Douglas, to Technicon Instruments Corporation. Apparatus for simultaneous multielement analysis by atomic fluorescence spectroscopy. 3,715,163, 2-6-73, Cl. 356-85.000.
Mitchell, Douglas G., to Technicon Instruments Corporation. Method and apparatus for sample analysis by atomic spectroscopy. 3,740,145, 6-19-73, Cl. 356-87.000.
Mitchell, Douglas Graham; and Adler, Leonard. Apparatus for collecting and dispensing liquids and for particle counting. 3,741,726, 6-26-73, Cl. 23-230.00r.
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Mitchell, Forrest R.; and Vogiatzis, John P., to Shell Oil Company. Method for determining the distance between a cased and an open well. 3,748,574, 7-24-73, Cl. 324-1.000.
Mitchell, Francis Marion: *See—*
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Mitchell, Hal D., to A.T.O. Inc. Football shoulder pad. 3,740,763, 6-26-73, Cl. 2-2.000.
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Mitchell, John E., to Biome Company Inc., The. Payload deployment system. 3,732,588, 5-15-73, Cl. 9-8.00r.
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Mitchell, John H. Cable grip grapple. 3,746,385, 7-17-73, Cl. 294-112.000.
Mitchell, John K. Radar side lobe echo eliminator. 3,781,889, 12-25-73, Cl. 343-17.10r.
Mitchell, John O.; Roberts, Spencer D.; and van Pelt, Richard W., to International Business Machines Corporation. Deceleration and stop-lock motor control apparatus. 3,731,176, 5-1-73, Cl. 318-619.000.
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Mitchell, Ralph W. Cutter bar. 3,741,609, 6-26-73, Cl. 299-82.000.
Mitchell, Ray M. Display device. 3,751,839, 8-14-73, Cl. 40-158.00r.
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Mitchell, Richard Frank, to U.S. Philips Corporation. Acoustic surface wave devices. 3,768,032, 10-23-73, Cl. 333-30.00r.
Mitchell, Robert Davis, to Combustion Engineering, Inc. Ram tip securing arrangement. 3,736,083, 5-29-73, Cl. 425-78.000.
Mitchell, Robert Davis, to Combustion Engineering, Inc. Briquetting press with briquette conveying facility. 3,736,084, 5-29-73, Cl. 425-78.000.
Mitchell, Robert Davis, to Combustion Engineering, Inc. Briquetting press with briquette removal mechanism. 3,736,085, 5-29-73, Cl. 425-78.000.
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Mitchell, Robert S., to Monsanto Company. Corrosion inhibition compositions containing substituted diamine phosphonates and processes for using the same. 3,723,347, 3-27-73, Cl. 252-389.00a.
Mitchell, Robert W. Color comparator. 3,748,045, 7-24-73, Cl. 356-191.000.
Mitchell, Sammy C. Automatic change return apparatus. 3,747,732, 7-24-73, Cl. 194-1.00m.
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Mitchell, Thomas O., to Bennett Pump Incorporated. Liquid pumping system. 3,738,531, 6-12-73, Cl. 222-52.000.
Mitchell, Wallace F., to Ammco Tools, Inc. Vibration dampener. 3,710,661, 1-16-73, Cl. 82-38.00a.
Mitchell, Wallace F., to Ammco Tools Inc. Hydraulic brake system bleeder. 3,730,307, 5-1-73, Cl. 188-352.000.
Mitchell, Wallace F., to Ammco Tools, Inc. Mount for wheel balancer. 3,742,766, 7-3-73, Cl. 73-484.000.
Mitchell, Wallace F., to Ammco Tools, Inc. Torque measuring wrench. 3,747,423, 7-24-73, Cl. 73-139.000.
Mitchell, Wallace F.; and Valentincic, Charles C., to Ammco Tools, Inc. Hydraulic brake system bleeder. 3,756,367, 9-4-73, Cl. 188-352.000.
Mitchell, Wallace F., to Ammco Tools, Inc. Spacer assembly. 3,769,692, 11-6-73, Cl. 29-559.000.
Mitchell, Wallace F., to Ammco Tools, Inc. Vibration dampener. 3,774,472, 11-27-73, Cl. 74-574.000.
Mitchell, Wallace F. Vibration dampener. 3,774,473, 11-27-73, Cl. 74-574.000.



Mitchell, William A.; and Stahl, Howard D., to General Foods Corporation. Honey-malt flavor material and process of preparation. 3,711,302, 1-16-73, Cl. 99-141.00a.
Mitchell, William A.; and Seidel, William C., to General Foods Corporation. Fat sponge. 3,769,038, 10-30-73, Cl. 426-363.000.
Mitchell, William D., to Du Pont de Nemours, E. I., and Company. Method for improving the yield of fruits. 3,711,273, 1-16-73, Cl. 71-120.000.
Mitchell, William E., to Dunlop Holdings Limited. Method of mounting pneumatic tire on vehicle wheels. 3,708,847, 1-9-73, Cl. 29-159.010.
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Mito, Hiroshi. Mechanism for relative adjustment of axially spaced lens components. 3,765,748, 10-16-73, Cl. 350-187.000.
Mito, Hiroshi. Operation device for objective lens of camera. 3,772,978, 11-20-73, Cl. 95-45.000.
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Mitsche, Roy T.; and Michalko, Edward, to Universal Oil Products Company. Process for the isomerization of hydrocarbons. 3,723,552, 3-27-73, Cl. 260-668.00a.
Mitsche, Roy T.; and Wilhelm, Frederick C., to Universal Oil Products Company. Preparation of a catalytic composite containing germanium and platinum. 3,772,213, 11-13-73, Cl. 252-466.0pt.
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Ozutsumi, Minoru; Miyazawa, Yoshihide; Motohashi, Katsuiti; Ogawa, Satoshi; and Mishima, Shizuo, 3,736,168.
Miyazawa, Yoshihide; and Ozutsumi, Minoru, to Hodogaya Chemical Co., Ltd. Color-forming duplicating method. 3,774,539, 11-27-73, Cl. 101-469.000.
Miyoshi, Akeyoshi: *See*—
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Miyoshi, Katsuyoshi; Iwasaki, Yoichi; Hotta, Yunichi; and Fujii, Masaki, to Toho Titanium Company Limited. Process for polymerization of α-olefin. 3,764,591, 10-9-73, Cl. 260-88.20r.
Miyoshi, Mituji; and Matsuura, Kazuo, to Nippon Oil Company, Limited. Method for producing alternative copolymers containing little gel of a conjugated vinyl compound and a conjugated diene. 3,753,951, 8-21-73, Cl. 260-63.0bb.
Miyoshi, Seizo: *See*—
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Miyoshi, Toshio: *See*—
Miyairi, Norimasa; Miyoshi, Toshio; Kohsaka, Masanobu; Ikoshima, Koichi; and Imanaka, Hiroshi, 3,761,587.
Mize, Lawrence A. Two cycle internal combustion engine with sequential opening and closing of exhaust and intake ports. 3,766,894, 10-23-73, Cl. 123-53.00b.
Mizell, Louis R.; and Schur, Mary S., to I.W.S. Nominee Company, Limited. Production of embossed fibrous sheets. 3,769,119, 10-30-73, Cl. 156-83.000.
Mizell, Louis Richard: *See*—
Ernst, Ian Thomas; and Mizell, Louis Richard, 3,732,135.
Mizen, Walter J.; Lewis, Richard L.; and Hendrickson, Richard T., to Bendix Corporation, The. Surge brake with solenoid-actuated master cylinder lock and emergency release. 3,768,606, 10-30-73, Cl. 188-112.000.
Mizianty, Michael F., to GAF Corporation. Diazo-type reproduction process. 3,719,491, 3-6-73, Cl. 96-49.000.
Mizikar, Eugene A.; and Rehmus, Frederick H., to Jones & Laughlin Steel Corporation. Process for cooling vacuum-cast ingots. 3,759,312, 9-18-73, Cl. 164-64.000.
Mizobata, Shiro; Kawano, Yoshiro; and Matsumoto, Masamiki, to Matsushita Electric Works, Ltd. Lawn mower. 3,774,379, 11-27-73, Cl. 56-10.300.
Mizobe, Akio: *See*—
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Tanaka, Toru; Mizoguchi, Kenichi; and Nagaoka, Hiroto, 3,723,335.
Mizoguchi, Sutemaru. Boring head. 3,730,636, 5-1-73, Cl. 408-169.000.
Mizoguchi, Toshiaki: *See*—
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Mizoroki, Tsutomu: *See*—
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Mizote, Masanori, to Nissan Motor Company, Limited. Transmission shift pattern generator. 3,726,159, 4-10-73, Cl. 74-866.000.
Mizote, Masanori, to Nissan Motor Company Limited. Electronic control device for automatic power transmission. 3,733,930, 5-22-73, Cl. 74-866.000.
Mizote, Masanori, to Nissan Motor Company, Limited. Multichannel transmission system using clock pulses each occuring within a definite time position. 3,757,050, 9-4-73, Cl. 179-15.0al.
Mizoule, Jacques: *See*—
Francois, Raymond; Sarbach, Jacques; Dong, Le Hao; Mizoule, Jacques; and Ricci, Charles, 3,716,642.
Mizrahi, Albert H. Noise maker. 3,716,944, 2-20-73, Cl. 46-175.000.
Mizrahi, Robert: *See*—
Haning, James O.; Kool, Bram; Moritz, Jules G.; and Mizrahi, Robert, 3,743,400.
Mizu, Kouichi: *See*—
Mori, Yubi; and Mizu, Kouichi, 3,760,886.
Mizuguchi, Kazuo, to Mitani Valve Company, Limited. Gas injection for gas lighters. 3,746,059, 7-17-73, Cl. 141-295.000.
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Mizumoto, Yoshiro, to Alps Motorola, Inc. Circuit bilaterally employable in cartridge type tape recorder for two channel and four channel operations. 3,764,754, 10-9-73, Cl. 179-100.2ca.
Mizuno, Akinori: *See*—
Okuno, Zenjiro; Mizuno, Akinori; and Kondoh, Ikuyo, 3,770,637.
Mizuno, Hideaki; and Akiyama, Naoki, to Victor Company of Japan, Limited. Television picture tube having an electron scattering prevention film. 3,764,367, 10-9-73, Cl. 117-33.50c.
Mizuno, Hideaki; and Akiyama, Naoki, to Victor Company of Japan, Limited. Electron scattering prevention film and method of manufacturing the same. 3,767,447, 10-23-73, Cl. 117-33.5cp.
Mizuno, Hideaki; Konno, Toshio; and Akiyama, Naoki, to Victor Company of Japan, Limited. Method of forming a black patterned portion on a phosphor screen of a cathode-ray tube for color television sets. 3,778,266, 12-11-73, Cl. 96-361.000.
Mizuno, Hideo; Kimura, Sadao; Akutsu, Hidezo; Yamazaki, Haruo; Okamoto, Takio; Watarai, Yoshiaki; and Baba, Shoichi, to Matsushita Electronics Corporation. High-pressure metal-vapour discharge tube. 3,716,743, 2-13-73, Cl. 313-220.000.
Mizuno, Katsumi: *See*—
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Mizuno, Ken Ichi: *See*—
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Mizuno, William G.: *See*—
Johnson, Dwight; and Mizuno, William G., 3,715,307.
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Mizuno, William G.; Brunelle, Thomas E.; Rue, Larry M.; and Crecelius, Samuel B., to Economics Laboratory, Inc. Detergent compositions. 3,764,559, 10-9-73, Cl. 252-99.000.
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Mizunuma, Yoshiyuki, to Tokyo Shibaura Electric Co., Ltd. Apparatus for classifying and counting sheets. 3,710,936, 1-16-73, Cl. 209-82.000.
Mizusawa Industrial Chemicals, Ltd.: *See*—
Sugahara, Yujiro; and Tanaka, Masanori, 3,709,823.
Mizusawa Kagaku Kogyo Kabushiki Kaisha: *See*—
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Mizusawa, Mitutoyo; and Takeuchi, Hiroo, to Nisshin Kogyo Kabushiki Kaisha. Vacuum type servo device. 3,777,496, 12-11-73, Cl. 60-593.000.
Mizushima, Yoshihiko; and Sudo, Tsuneta, to Nippon Telegraph and Telephone Public Corporation. Semiconductor switching element and a semiconductor switching involving the same. 3,781,806, 12-25-73, Cl. 340-166.00r.
Mizushina, Yoichi: *See*—
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Mizutani, Nagao; and Nojima, Masamitsu, to Citizen Watch Co., Ltd. Starting device for a vibrating element for time measuring means. 3,731,167, 5-1-73, Cl. 318-114.000.
Mizutani, Norio; Sasaki, Ichiro; Ito, Takamitsu; Ueno, Hiroshi; Nishizaki, Shoichi; and Ishizuka, Tetsuo, to Daiichi Seiyaku Company, Limited. Method for the purification of sucrose esters of fatty acids. 3,748,324, 7-24-73, Cl. 260-234.00r.
Mizutani, Takashi: *See*—
Tani, Hideo; Nagakura, Masahiko; and Mizutani, Takashi, 3,729,468.
Mizutani, Takayuki; and Yamamoto, Tsutomu, to Nippon Electric Company, Limited. Apparatus for producing single crystals including halogen lamps aligned with the common major axes of a spheroidal reflector pair. 3,761,677, 9-25-73, Cl. 219-349.000.
Mizutani, Toshio: *See*—
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Mizzoni, Renat Herbert; and Blatter, Herbert Morton, to Ciba-Geigy Corporation. Anilino-3-pyridinesulfonic acids. 3,718,654, 2-27-73, Cl. 260-294.80r.
Mizzoni, Renat Herbert; and De Stevens, George. Quinoline derivatives exhibiting growth promoting and anticoccidial effects. 3,761,592, 9-25-73, Cl. 424-258.000.
Mizzy Inc.: *See*—
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MI2, Inc.: *See*—
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Moen, Alfred M. Bottom outlet grommet mixing valve. 3,726,317, 4-10-73, Cl. 137-625.170.
Moen, Alfred M. Single lever mixing valve. 3,730,222, 5-1-73, Cl. 137-625.170.
Moen, Alfred M. Faucet handle construction. 3,773,079, 11-20-73, Cl. 137-625.170.
Moen, Art Murphy Dean; and Robison, Jim Ray, to International Telephone and Telegraph Corporation. Control and indicator circuits for coulometric titrators. 3,779,886, 12-18-73, Cl. 204-195.00t.
Moen, Forrest E. Attachment for silo unloaders. 3,713,551, 1-30-73, Cl. 214-17.0cb.
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Moerkens, Jozef Cornelis, to U.S. Philips Corporation. Arrangement for the ignition and alternating current supply for a gas-and/or vapour discharge lamp. 3,740,609, 6-19-73, Cl. 315-200.000.
Moersch, George W.; and Creger, Paul L. Ethers of 2,2,9,9,-tetramethyl-1,10-decanediol. 3,742,068, 6-26-73, Cl. 260-615.00r.
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Moffett, Robert B., to Upjohn Company, The. 1-Aminophenyl-4H-s-triazols [4,3-a] [1,4] benzodiazepines. 3,743,652, 7-3-73, Cl. 260-308.00r.
Moffett, Robert B., to Upjohn Company, The. Certain triazolobenzodiazepinone compounds and their production. 3,772,318, 11-13-73, Cl. 260-308.00c.



Moffett, Robert Bruce, to Upjohn Company, The. S-triazino [1,2-a] [1,4]-benzodiazepine-1,3 (2H,4H and 2H, 2H,5H). 3,773,765, 11-20-73, Cl. 260-248.0ns.
Moffett, Robin Henry; Smith, Peter William; and Vonwiller, Christopher Charles, to Plessey Handel und Investments A.G. Data switching exchanges. 3,766,322, 10-16-73, Cl. 179-15.0bv.
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Mohler, David Brian, to Ledex, Inc. Electromechanical stepping mechanism for positioning load devices. 3,714,518, 1-30-73, Cl. 317-139.000.
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Mokrytzki, Boris; and Meier, Udo, to Westinghouse Air Brake Company. System for phase shifting inverters to obtain a variable modulated waveform. 3,781,615, 12-25-73, Cl. 318-227.000.
Mokrytzki, Boris; and Hammond, Peter W., to Westinghouse Air Brake Company. Induction motor control system. 3,781,616, 12-25-73, Cl. 318-230.000.
Mola, Michel; Barthelemy, Philippe; Bentz, Gerard; and Galey, Jean, to Societe Civile d'Etudes de Centrifugation. Method of continuous rotary casting of metal utilizing a liquefied gas to facilitate solidification. 3,776,295, 12-4-73, Cl. 164-66.000.
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Molina, Orlando G., 1/2 to North American Rockwell Corporation and 1/2 to Air Products and Chemicals, Inc. Dye penetrant remover. 3,716,494, 2-13-73, Cl. 252-408.000.
Molina, Orlando G., to North American Rockwell Corporation. Nonaqueous developer composition for penetrant inspection and method for employing same. 3,748,469, 7-24-73, Cl. 250-459.000.
Molina, Orlando G., to North American Rockwell Corporation. Liquid oxygen compatible dye penetrant method for metal defect inspection. 3,753,647, 8-21-73, Cl. 8-85.000.
Molina, Orlando G., to North American Rockwell Corporation. Water washable dye penetrant composition and method of application. 3,777,157, 12-4-73, Cl. 250-302.000.
Molinario, Rene, to S.A. Molinario. Hair pieces. 3,722,517, 3-27-73, Cl. 132-5.000.



Moline, John H.; and Locher, Robert J. Charcoal-type cooker assembly with pivotally mounted fire box. 3,717,137, 2-20-73, Cl. 126-25.00b.
Moline, John H. Dispensing apparatus for packing grease in friction bearings and the like. 3,717,222, 2-20-73, Cl. 184-1.00d.
Moline Machine Company Inc.: *See—*
Harrison, Edmund, Jr., 3,720,311.
Moline, Robert Alan: *See—*
Dalton, John Vincent; Mac Rae, Alfred Urquhart; Mathews, James Robert; Moline, Robert Alan; Pickar, Kenneth Arnold; and Seidel, Harvey Donald, 3,717,790.
Mac Rae, Alfred Urquhart; and Moline, Robert Alan, 3,769,109.
MacRae, Alfred Urquhart; and Moline, Robert Alan, 3,767,492.
Moline, Robert Alan, to Bell Telephone Laboratories, Incorporated. Integrated circuits with ion implanted chan stops. 3,728,161, 4-17-73, Cl. 148-1.500.
Moline, Roy Virgil, to Jeno's Inc. Method of scoring frozen pizza. 3,765,909, 10-16-73, Cl. 426-383.000.
Moline, Sheldon W.: *See—*
Tobin, Carlton D., Jr.; Moline, Sheldon W.; Walder, Robert J.; Kirkpatrick, Melvin D.; Cochran, Troy L.; and Watwood, Robert P., 3,772,849.
Molino, Angelo R. Rolling and beading machine. 3,724,250, 4-3-73, Cl. 72-171.000.
Molino, Angelo R. Duct forming apparatus. 3,724,255, 4-3-73, Cl. 72-306.000.
Molins, Desmond W.; and Labbe, Francis A. M., to Molins Machine Company, Limited. Cigarettes and the like. 3,736,941, 6-5-73, Cl. 131-21.00r.
Molins, Desmond Walter; Ahern, Ronald Albert; and Maurice Labbe, Francis Auguste, to Molins Limited. Cigarette-making machines of the continuous-rod type. 3,716,062, 2-13-73, Cl. 131-110.000.
Molins, Desmond Walter; and Rowlands, Tom, to Molins Machine Company Limited. Continuous webs. 3,717,537, 2-20-73, Cl. 156-466.000.
Molins, Desmond Walter, to Molins Organization Limited, The. Method of testing cigarette paper. 3,720,095, 3-13-73, Cl. 73-38.000.
Molins, Desmond Walter; and Labbe, Francis A. M., to Molins Machine Company Limited. Method and apparatus for making cigarettes. 3,732,871, 5-15-73, Cl. 131-84.00c.
Molins, Desmond Walter; Labbe, Francis Auguste Maurice; and Perkins, Clive, to Molins Limited. Cigarette filters. 3,735,672, 5-29-73, Cl. 93-1.00c.
Molins, Desmond Walter; and Preston, Edward George, to Molins Limited. Cut-off devices for continuous rod cigarette-making machines and other similar machines. 3,753,379, 8-21-73, Cl. 83-174.000.
Molins Limited: *See—*
Coates, John Robert, 3,776,105.
Davies, Robert William, 3,725,181.
Davies, Robert William; Veness, Maxwell Francis; and Thornton, Leonard, 3,762,130.
Doerman, Eryk Stefan, 3,709,028.
Doerman, Eryk Stefan, 3,760,631.
Labbe, Francis Auguste Maurice; Preston, Edward George; and Marritt, Clifford Russell, 3,769,989.
Labbe, Francis Auguste Maurice; and Mitchell, Michael Bruce, 3,773,883.
Labee, Francis A. M.; Preston, Edward George; Dingli, Paul; Hirsh, Ivan Y.; and Dyett, Derek Henry, 3,760,672.
Molins, Desmond Walter; Ahern, Ronald Albert; and Maurice Labbe, Francis Auguste, 3,716,062.
Molins, Desmond Walter; Labbe, Francis Auguste Maurice; and Perkins, Clive, 3,735,672.
Molins, Desmond Walter; and Preston, Edward George, 3,753,379.
New, John Elliott, 3,717,236.
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Molin's Machine Company Limited: *See—*
Hall, Charles Thomas, 3,727,828.
Harris, Richard William; and Handley, John, 3,728,197.
Hillman, James George Edward, 3,718,224.
Labbe, Francis A. M., 3,750,678.
Labbe, Francis Auguste Maurice; and Powell, Gordon Francis Wellington, 3,738,376.
Labbe, Francis Auguste Maurice, 3,757,649.
Labbe, Francis Auguste Maurice, 3,779,253.
Molins, Desmond W.; and Labbe, Francis A. M., 3,736,941.
Molins, Desmond Walter; and Rowlands, Tom, 3,717,537.
Molins, Desmond Walter; and Labbe, Francis A. M., 3,732,871.
Preston, Edward George; Williams, Robert Ernest; and Maw, Philip Arthur, 3,712,160.
Preston, Edward George, 3,715,056.
Preston, Edward George, 3,716,443.
Rowlands, Tom; and Hillman, James George Edward, 3,759,408.
Williamson, David T. N.; Moffat, James; and Wood, William, 3,709,384.
Williamson, David T. N.; Hutchison, James Moffat; and Wilson, Kenneth C. (said Hutchison, said Williams and said Wilson assors. to), 3,710,466.
Molins Organisation Limited, The: *See—*
Pocock, Frederick, 3,731,693.
Molins Organization Limited, The: *See—*
Molins, Desmond Walter, 3,720,095.
Molinski, John, to United States of America, Navy. Drag reduction method. 3,727,570, 4-17-73, Cl. 114-20.00r.
Molis, Benedict, to Lift Parts Mfg., Inc. Stock picker assembly with self-contained drive means. 3,752,345, 8-14-73, Cl. 214-515.000.
Molis, John. Spring-liquamatic press O-ring plastic roto seal for rotary pump shafts. 3,715,169, 2-6-73, Cl. 415-170.000.
Moliterni, Samuel S. Bird feeder. 3,712,267, 1-23-73, Cl. 119-18.000.
Moliterno, Louis J., to Ajax Magnethermic Corporation. Tandem scan hardening of pipe. 3,755,010, 8-28-73, Cl. 148-153.000.
Molkereigenossenchaft Dahlenburg EGmbH: *See—*
Kautz, Kurt; and Stahnke, Otto, 3,754,650.
Molkereigenossenschaft Dahlenburg & GmbH: *See—*
Kautz, Kurt; and Stahnke, Otto, 3,757,005.
Moll, Adolf: *See—*
Kulterer, Reinhard; Moll, Adolf; and Hofmann, Wilfried, 3,748,037.
Moll, Franz: *See—*
Gaub, Walter; Von Konig, Anita; Moll, Franz; Muller-Bardorff, Wolfgang; and Saleck, Wilhelm, 3,761,278.
Himmelmann, Wolfgang; Von Konig, Anita; Moll, Franz; Rocker, Dietrich; and Saleck, Wilhelm, 3,764,339.
Matejec, Reinhart; Meyer, Rudolf; Moll, Franz; Ranz, Erwin; and Weyde, Edith, 3,776,730.
Moll, Franz; Morcher, Bernard; Reckziegel, Erich; and Saleck, Wilhelm, to Agfa-Gevaert Aktiengesellschaft. Silver halide emulsions for the production of reversal colorphotographic images. 3,779,764, 12-18-73, Cl. 96-59.000.
Moll, John H.: *See—*
Kimmel, Cleve C.; and Moll, John H., 3,717,006.
Moll, John L.: *See—*
Komiya, Yoshio; Moll, John L.; and Tarui, Yasuo, 3,714,522.
Moll, Oswin C.,: *See—*
Moll, Oswin C., 3,720,783.
Moll, Oswin C., to Moll, Oswin C.,, King, Leonard H. and Campani, John. Fire retardant grounding means for junction boxes. 3,720,783, 3-13-73, Cl. 174-51.000.
Mollberg, Rene: *See—*
Eriksoo, Edgar; Fex, Hans; Hogberg, Knut Bertil; Mollberg, Rene; and Rohte, Oskar, 3,718,694.
Moller, Ake: *See—*
Soderlund, Lars; and Moller, Ake, 3,730,072.
Moller, Bynum W. Flattening metal cans. 3,732,804, 5-15-73, Cl. 100-42.000.
Moller, Bynum W. Golf exercising device. 3,738,661, 6-12-73, Cl. 273-191.00r.
Moller, Friedrich; Roegler, Manfred; Simmler, Walter; and De Montigny, Armand, to Bayer Aktiengesellschaft. Process for preparing cellular polyurethanes. 3,723,492, 3-27-73, Cl. 260-448.80r.
Moller, George O.: *See—*
Tobey, Hubert E.; Moller, George O.; and Twiford, Richard L., 3,774,749.
Moller, Hans. Apparatus for stacking sheets. 3,756,591, 9-4-73, Cl. 271-69.000.
Moller, Hermann: *See—*
Andres, Rudolf; Stolz, Albert; and Moller, Hermann, 3,724,752.
Moller, Jens L., to Continental Can Company, Inc. Die forming and perforating pilfer-proof band of closure caps. 3,746,202, 7-17-73, Cl. 215-42.000.
Moller, Jens L.; and Devane, William A., to Continental Can Company, Inc. Easy opening structure. 3,756,448, 9-4-73, Cl. 220-53.000.
Moller, Klaus; Munch, Dietrich; and Wolert, Hartmut, to Dravo Corporation. Device for sealing travelling grates. 3,713,634, 1-30-73, Cl. 266-21.000.
Moller, Siegfried: *See—*
Oei, Han Young; and Moller, Siegfried, 3,723,192.
Moller, Tilo; and Ketterer, Dieter, to Heckler & Koch GmbH. Firearms. 3,731,417, 5-8-73, Cl. 42-75.00c.
Moller, Tilo; and Ketterer, Dieter, to Heckler & Koch GmbH. Automatic hand firearm with interchangeable magazine. 3,736,686, 6-5-73, Cl. 42-6.000.
Moller, Tilo; and Ketterer, Dieter, to Heckler & Koch GmbH. Breech block buffer. 3,748,959, 7-31-73, Cl. 89-132.000.
Moller, Tilo; and Ketterer, Dieter, to Heckler & Koch GmbH. Charging device for automatic firearms. 3,774,498, 11-27-73, Cl. 89-1.00k.
Moller, Tilo; and Ketterer, Dieter, to Heckler & Koch GmbH. Firearm carrying handle and sight protector. 3,777,381, 12-11-73, Cl. 42-1.00s.



Mollere, John C., to Western Geophysical Company of America.
Molson Industries, Limited: *See—*



Monaghan, William Thomas; and Rodgers, Leonard John, to Rolls-
Ruddemeyer, Bruce D.; and Mangravite, John P., 3,768,717.

Mollere, John C., to Western Geophysical Company of America. Pressure-operated multiport fluid control valve. 3,747,637, 7-24-73, Cl. 137-594.000.

Mollere, John C., to Western Geophysical Company of America. Method for generating seismic impulses below the earth's surface. 3,752,256, 8-14-73, Cl. 181-.5xc.

Mollering, Karl F., to Dragerwerk Aktiengesellschaft. Method and apparatus for mixing pressure gases particularly for respirators and medical apparatus. 3,762,427, 10-2-73, Cl. 137-7.000.

Mollet, Adrianus Josephus Theresia: *See—*
Ridders, Johannes Antonius Maria; Mollet, Adrianus Josephus Theresia; and Termuelen, Arend Jan, 3,764,842.

Mollevik, Asbjorn: *See—*
Jacobsen, Gunnar Monrad; and Mollevik, Asbjorn, 3,738,307.

Mollica, Richard J., Jr.; Hunter, Joseph E., Jr.; and Bladzik, Kenneth R., to General Motors Corporation. Method of producing stainless steel-low carbon steel composites. 3,729,805, 5-1-73, Cl. 29-471.700.

Mollman, Robert E., to Alside Inc. Molded siding. 3,740,915, 6-26-73, Cl. 52-531.000.

Mollod, Leonard D., to International Telephone and Telegraph Corporation. Reduction of timing resolution in digital phase lock loops. 3,731,210, 5-1-73, Cl. 328-155.000.

Mollod, Leonard D.; and Steele, Leroy D., to International Telephone and Telegraph Corporation. Automatic calibration of Loran envelope to cycle discrepancy. 3,774,210, 11-20-73, Cl. 343-103.000.

Molloy, Bryan B.: *See—*
Fuller, Ray W.; and Molloy, Bryan B., 3,781,443.

Molloy, Bryan B.; Fuller, Ray W.; and Hauser, Kenneth L., to Lilly, Eli, and Company. Fluorinated beta-phenyl-alpha-methylethylamines. 3,719,713, 3-6-73, Cl. 260-570.50r.

Molloy, Bryan B.; and Tuttle, Ronald R., to Lilly, Eli, and Company. Anti-arrythmic agent. 3,769,426, 10-30-73, Cl. 424-321.000.

Molloy, Edward W.; and Williams, Charles K., to General Motors Corporation. Method of manufacturing drawn cup bearing races with crowned pathways. 3,732,836, 5-15-73, Cl. 113-117.000.

Molloy, Edward W., to General Motors Corporation. Means to improve retention of rollers in cage. 3,736,034, 5-29-73, Cl. 308-213.000.

Molloy, James Oscar; Dunnill, Peter; and Lilly, Malcom Douglas, to M.S.E. Holdings, Limited. Centrifugal photometric analyzer. 3,771,878, 11-13-73, Cl. 356-197.000.

Molloy, Kenneth H.; Ward, John P.; and Benson, Victor Mark, to Computer Systems Engineering, Inc. Traffic signal control system. 3,754,209, 8-21-73, Cl. 340-41.000.

Molloy, Robert E.; and Ritter, John A., to Ortner Freight Car Co. Spring loaded railway car. 3,776,142, 12-4-73, Cl. 105-253.000.

Mollura, Carlos A. Apparatus for edge joining panels. 3,729,363, 4-24-73, Cl. 156-559.000.

Mollura, Carlos A. Method of making tubular flexible bag with lap welded ends. 3,753,819, 8-21-73, Cl. 156-69.000.

Molly, Hane. Hydrostatic drive unit. 3,775,981, 12-4-73, Cl. 60-490.000.

Molly, Hans. Half-moon shaped machine. 3,759,639, 9-18-73, Cl. 418-170.000.

Molly, Hans. Axial piston type machine. 3,760,692, 9-25-73, Cl. 91-505.000.

Molly, Patrick C.: *See—*
Roberts, Carroll R.; Glidden, Ramon L.; and Molly, Patrick C., 3,739,625.

Molnar, Eugene J., to Coc Laboratories. Monomer soluble X-ray opaque methacrylate particles. 3,715,331, 2-6-73, Cl. 260-41.00b.

Molnar, Karoly: *See—*
Tuba, Zoltan; Bor, Maria, nee Szabo; Molnar, Karoly; and Gorog, Sandor, 3,761,496.

Molnar, Laszlo A., to North American Rockwell Corporation. Capture combination system. 3,733,593, 5-15-73, Cl. 340-172.500.

Molnar, Steven I. Pump with basically reduced pumper force. 3,748,064, 7-24-73, Cl. 417-400.000.

Molnau, Erwin P.; deceased (by Molnau, Margaret L.; administratrix). Sugar beet harvester. 3,734,193, 5-22-73, Cl. 171-57.000.

Molnau, Margaret L.: *See—*
Molnau, Erwin P., 3,734,193.

Molnlycke AB: *See—*
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Berg, Bror Hugo Olof, 3,758,367.

Molnlycke AG Golebargsvagen: *See—*
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Molon Motor & Coil Corporation: *See—*
Cary, Frank Holper; and Thon, Ronald A., 3,742,269.
Holper, Frank, 3,757,149.

Moloney, William F., Jr.: *See—*
Eino, Ernest; Moloney, William F., Jr.; and Toledo, Emil, 3,775,268.

Molotsky, Hyman M.: *See—*
Hicks, James P.; Gramera, Robert E.; and Molotsky, Hyman M., 3,723,412.

Molotsky, Hyman M., to CPC International Inc. Polyurethane resins. 3,743,621, 7-3-73, Cl. 260-37.00n.

Molson Industries, Limited: *See—*
Dadic, Miroslav; Van Gheluwe, Joris E. A.; and Valyi, Zoltan, 3,770,453.
Van Gheluwe, Joris E. A.; and Dadic, Miroslav, 3,770,455.

Molstedt, Byron V., to Esso Research and Engineering Company. Process for fluid coking gasification in an integrated system. 3,779,900, 12-18-73, Cl. 208-127.000.

Molus, Michael H., to Monogram Industries, Inc. Diaphragm pump for a recirculating toilet. 3,776,107, 12-4-73, Cl. 92-99.000.

Molybdenum Corporation of America: *See—*
Daugherty, Ellsworth W.; Erhard, Albert E.; and Drobnick, James L., 3,739,057.
Goldsmith, James R.; Kruesi, Paul R.; and Masarky, Henri, 3,729,397.
Peterson, Hal D., 3,751,555.

Molyneaux, John William. Rotary internal combustion engine. 3,709,199, 1-9-73, Cl. 123-8.470.

Molyneux, George, to Econa (G.&B.) Plastics Limited. Building construction and elements for use therein. 3,707,815, 1-2-73, Cl. 52-213.000.

Molyneux, George; and Molyneux, George Walter. Anchorages for track rails. 3,724,754, 4-3-73, Cl. 238-349.000.

Molyneux, George Walter: *See—*
Molyneux, George; and Molyneux, George Walter, 3,724,754.

Molyneux, Walter Guillam, to National Research Development Corporation. Method of making fibre reinforced composites. 3,713,946, 1-30-73, Cl. 156-293.000.

Molz, Udo, to Kampf, Erwin, Maschinenfabrik. Machine for simultaneous biaxial stretching of a web of thermoplastic sheeting. 3,755,862, 9-4-73, Cl. 26-57.00r.

Molzahn, Herbert W., to International Harvester Company. Final drive system for self-propelled vehicle. 3,762,490, 10-2-73, Cl. 180-70.00r.

Molzaon, Herbert W.; Tashiro, Donald R.; and Ralph, Harold D., to International Harvester Company. Implement transport structure. 3,751,891, 8-14-73, Cl. 56-228.000.

Momiyama, Kikuo: *See—*
Tajima, Akira; and Momiyama, Kikuo, 3,748,021.

Mommens, Jacques H.: *See—*
Cocke, John; Mommens, Jacques H.; and Raviv, Josef, 3,717,851.

Momoi, Yoshikazu: *See—*
Ohkawa, Masaaki; Matsuo, Masatoshi; Sakaguchi, Tadao; Sato, Syozi; and Momoi, Yoshikazu, 3,743,602.

Momoki, Yoshio: *See—*
Komatsu, Nobuhiko; Kikumoto, Syoichi; Kimura, Keitaro; Sakai, Sumio; Kamasuka, Teruo; Momoki, Yoshio; Takada, Shoichi; Yamamoto, Toshiyuki; and Sugayama, Sunichi, 3,759,896.

Momose, Yutaka: *See—*
Asano, Tadao; Kitano, Shin; Yamaguchi, Hiroji; and Momose, Yutaka, 3,765,520.

Momose, Yutaka, to Aisin Seiki Kabushiki Kaisha. Pressure controls for inching clutches. 3,757,915, 9-11-73, Cl. 192-87.190.

Momota, Kenzo: *See—*
Fukushima, Yoshikiyo; Ishihara, Yasushi; Momota, Kenzo; Usui, Yasuo; Sakumura, Tuyoshi; Sogo, Satoru; and Nunokawa, Koji, 3,716,210.
Fukushima, Yoshikiyo; Ishihara, Yasushi; Momota, Kenzo; Usui, Yasuo; Sakumura, Tuyoshi; Sogo, Satoru; and Numokawa, Kogi, 3,726,461.

Momsen, Marc F.: *See—*
Lottridge, Neil M.; and Momsen, Marc F., 3,780,834.

Mona Industries, Inc.: *See—*
Messerschmidt, Harold J.; Heyman, Karl; and Johnsen, Bernadou W., II, 3,725,159.
Messerschmidt, Harold J.; Heyman, Karl; and Johnsen, Bernadou W., II, 3,728,180.
Messerschmidt, Harold J.; Heyman, Karl; and Johnsen, Bernadou W., II, 3,736,197.
Messerschmidt, Harold J., Jr.; Heyman, Karl; and Johnsen, Bernadou W., II, 3,725,158.

Monacelli, Umberto. Tack driving device. 3,764,054, 10-9-73, Cl. 227-114.000.

Monaco, Frank P. Horizontal target bar and hooked projectile. 3,731,931, 5-8-73, Cl. 273-95.00r.

Monaghan, Alfred C., to Monaghan Automated Systems, Inc. Container construction and container blank. 3,774,835, 11-27-73, Cl. 229-32.000.

Monaghan Automated Systems, Inc.: *See—*
Monaghan, Alfred C., 3,774,835.

Monaghan, Frank. Diagnostic swab with stored culture medium. 3,776,220, 12-4-73, Cl. 128-2.00w.

Monaghan, James. Vehicle safety device. 3,741,330, 6-26-73, Cl. 180-91.000.

Monaghan, James. Vehicle safety device. 3,759,343, 9-18-73, Cl. 180-91.000.

Monaghan, Stephen R.: *See—*
Mohr, Max C.; Malancon, Leo; and Monaghan, Stephen R., 3,736,535.





Monaghan, William Thomas; and Rodgers, Leonard John, to Rolls-Royce Limited. Thrust deflector for a gas turbine engine. 3,731,489, 58-73, Cl. 60-226.00a.

Monahan, Edward J. Low pressure back-fill and process therefore. 3,747,353, 7-24-73, Cl. 61-39.000.

Monahan, Gerald L.: *See—*
Monahan, Victor C.; Monahan, Gerald L.; and Cundy, Clyde Y., 3,746,776.

Monahan, Jack J.: *See—*
Lesyk, Joseph N.; Ludwig, David P.; and Monahan, Jack J., 3,771,711.

Monahan, John Francis: *See—*
Olson, Charles Langdon; Monahan, John Francis; and Dischert, Robert Adams, 3,715,477.

Monahan, Thomas J.; and Adams, Richard C., to Schjeldahl, G. T., Company. Intermittent drive mechanism. 3,776,804, 12-4-73, Cl. 156-515.000.

Monahan, Victor C.; Monahan, Gerald L.; and Cundy, Clyde Y., to Cascade Pole Company. Resin coated wooden poles and light standards incorporating same. 3,746,776, 7-17-73, Cl. 174-45.00r.

Monarch Enterprises, Inc.: *See—*
Garman, Mark B., 3,726,607.

Monarch Machine Tool Company, The: *See—*
Kuck, Kermit T., 3,711,212.
Sturm, Walter V.; and Doll, Claude S., 3,709,377.

Monarch Marking System Company, The: *See—*
Hamisch, Paul H., Sr., 3,711,683.
Hamisch, Paul H., Sr., 3,762,317.
Vanderpool, James L.; and Dobras, Bruce W., 3,778,597.

Monarch Marking Systems, Inc.: *See—*
Grushon, Harold N., 3,709,420.
Hamisch, Paul H., Jr.; and Pabodie, Robert M., 3,758,010.
Hamisch, Paul H., Sr., 3,742,851.
Herrin, Carlos E., 3,752,963.
Keefe, Jack D., 3,781,555.
Pabodie, Robert M., 3,767,098.

Monarch Marking Systems, Inc., mesne: *See—*
Olsen, Robert F., 3,765,110.

Monarch Tool & Manufacturing Company: *See—*
Hall, Mitchell A., 3,732,962.
Hall, Mitchell A., 3,738,134.

Monark-Crescent AB: *See—*
Seidl, Jiri, 3,761,207.

Monash University: *See—*
Brown, Roger Frederick Challis; and Smith, Reginald James, 3,745,174.
Cherry, Edward Moore, 3,711,660.

Monbaliu, Marcel Jacob; van den Bergh, Armand Maria; and Priem, Jan Jozef, to Agfa-Gevaert N.V. Polymeric colour couplers and their use in colour photography. 3,767,412, 10-23-73, Cl. 96-100.000.

Monchamp, Roch R.; Weber, Marvin J.; and Bass, Michael, to Raytheon Company. Laser with a monocrystalline $YA10_3$:Nd+ active medium. 3,719,901, 3-6-73, Cl. 331-94.500.

Moncrieff, Alexander D. F., to Bird Island, Inc. Gear making. 3,710,685, 1-16-73, Cl. 90-3.000.

Mond International, Limited: *See—*
Green, Patrick Hart; and Foster, George Wilbert, 3,751,319.

Monday, William C.: *See—*
Meyer, Alton H.; and Monday, William C., 3,709,481.

Monday, William C., to Recognition Equipment Incorporated. Document stacker system. 3,737,160, 6-5-73, Cl. 271-64.000.

Mondo Kabushiki Kaisha: *See—*
Tsukagushi, Tsunehiro, 3,764,084.

Mondok, Frank: *See—*
Duron, Paul P.; Carter, Thomas A., Jr.; and Mondok, Frank, 3,733,848.

Mondshine, Thomas C.; and Watson, Kenneth E., to N L Industries, Inc. Composition and process for increasing the lubricity of water base drilling fluids. 3,761,410, 9-25-73, Cl. 252-8.50c.

Mondshine, William G.; and Bishop, Charles D., to Cardio-Pulmonary Instrument Corporation. Spirometer with automatic electronic zeroing circuit. 3,726,271, 4-10-73, Cl. 128-2.080.

Moneagle, Otto F.: *See—*
Dayger, Jonas E.; Drejza, John E.; and Moneagle, Otto F., 3,735,696.

Moneagle, Otto F.; and Svatek, Karl, to International Business Machines Corporation. Ribbon feed and correction device for a high speed printer. 3,759,456, 9-18-73, Cl. 242-57.100.

Monestere, Martin, Jr.; and Pronier, Frederick, to Bard, C. R., Inc. Catheter introduction system. 3,739,778, 6-19-73, Cl. 128-214.400.

Money, Anthony Patrick: *See—*
Hamblyn, Stephen Mark; Money, Anthony Patrick; and MacKinnon, Ian Malcolm, 3,723,290.

Money, Maxine B.: *See—*
Morrison, Willard L., 3,762,415.

Money, Maxine E. Bacteriostatic sanitary napkin. 3,732,867, 5-15-73, Cl. 128-290.00r.

Moneymaker, John R.: *See—*
Buddemeyer, Bruce D.; and Moneymaker, John R., 3,759,717.
Buddemeyer, Bruce D.; and Moneymaker, John R., 3,762,932.

Monfort, Platt. Reinforced mast construction. 3,765,360, 10-16-73, Cl. 114-90.000.

Monforts, A., Monchengladbach: *See—*
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Mongelli, Massimo; and Vinciguerra, Ruggero, to Archibernetica S.r.l. Shutting and opening device, particularly for doors. 3,768,207, 10-30-73, Cl. 49-503.000.

Mongeon, Robert J.: *See—*
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Monger, Kenneth Sydney; and Wallis, Frank, to Marconi Company, Limited, The. Method and apparatus for measuring solderability of metal surfaces. 3,761,181, 9-25-73, Cl. 356-156.000.

Mongredien, Emile R., to La Telemecanique Electrique. Mechanism for servering and stripping wires covered by a sheet. 3,731,561, 5-8-73, Cl. 81-9.50a.

Moniak, John; and Bridenbaugh, Edwin R., to International Telephone and Telegraph Corporation. Loudspeaking telephone station circuit. 3,725,585, 4-3-73, Cl. 179-1.0hf.

Monier, Paulin, to Rhone-Poulenc S.A. Oxidation of o-toluenesulfonamides by molecular oxygen. 3,759,936, 9-18-73, Cl. 260-301.000.

Monier Research & Development Pty. Ltd.: *See—*
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Monin, Claude, to C.I.T.-Compagnie Industrielle des Telecommunications. Telephone dialer with two different pulse rates. 3,761,640, 9-25-73, Cl. 179-9.0ok.

Monin, Claude; and Arpin, Daniel, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Current-analyzing and coding device usable particularly in telecommunications for number dialing by means of a key set. 3,777,068, 12-4-73, Cl. 179-84.50s.

Monitor Cabinents; a division of Comerco, Inc.: *See—*
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Monkovic, Ivo; and Conway, Terry Thomas, to Bristol-Myers Company. Process for the preparation of 14-hydroxymorphinan derivatives. 3,775,414, 11-27-73, Cl. 260-285.000.

Monks, David E., to Eastman Kodak Company. Means for preventing film movement in a camera. 3,724,348, 4-3-73, Cl. 95-31.00r.

Monks, David E., to Eastman Kodak Company. Battery contact wiper for cameras. 3,753,389, 8-21-73, Cl. 95-11.000.

Monks, Joseph R.: *See—*
Grubb, Everett F.; Hammer, Friedrich; and Monks, Joseph R., 3,728,095.

Monne, Maxime; and Eudier, Michel. Chain conveyors. 3,744,618, 7-10-73, Cl. 198-177.000.

Monnerjahn, Walter. Gripper for unscrewing caps. 3,730,025, 5-1-73, Cl. 81-3.400.

Monnich, Carl Eugene. Driver for boring bar for electric discharge machine. 3,727,023, 4-10-73, Cl. 219-69.00v.

Monnin, Philip V.: *See—*
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Mono Pumps (Engineering) Limited: *See—*
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Monogram Industries, Inc.: *See—*
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Monola, Wilbert E., to Mini-Products, Inc. Multiband quad and loop antenna. 3,737,907, 6-5-73, Cl. 343-744.000.

Monola, Wilbert E., to Mini-Products, Inc. Multiband quad and loop antenna. 3,740,753, 6-19-73, Cl. 343-744.000.

Monolithic Dielectrics, Inc.: *See—*
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Monolon Co., Ltd.: *See—*
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Monostruct Corporation Limited: *See—*

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Monpetit, Louis: *See*—
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Monpetit, Louis, to Societe des Procedes Modernes d'Injection Sopromi. Electronic fuel injecting system for internal combustion engines. 3,744,460, 7-10-73, Cl. 123-32.0ea.
Monpetit, Louis A., to Societe des Procedes Modernes d'Injection Sopromi. Method and apparatus for coding and reading data governing the duration of energization of fuel injection in an internal combustion engine. 3,720,193, 3-13-73, Cl. 123-32.0ea.
Monpetit, Louis A.; Schneider, Jurg V.; Gueret, Herve; Advenier, Pierre; Sallot, Georges R.; Jourde, Jean-Pierre Paul; and Ufnaleski, Jacek W., to Societe des Procedes Modernes d'Injection Sopromi. Control system for the injection of fuel into internal comustion engines. 3,728,989, 4-24-73, Cl. 123-32.0ea.
Monpetit, Louis A.; Gueret, Herve; Schneider, J. V.; and Ufnalewski, J. W., to Societe des Procedes Modernes d'Injection Sopromi. Electro magnetic injector. 3,735,927, 5-29-73, Cl. 239-585.000.
Monrick Holdings Limited: *See*—
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Monro, Richard J., to Combustion Equipment Associates, Inc. Acoustic nozzle. 3,779,460, 12-18-73, Cl. 239-102.000.
Monroe Auto Equipment Co.: *See*—
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Monroe, Donald V. Loud speaker cabinet. 3,712,411, 1-23-73, Cl. 181-31.00b.
Monroe, Edwin T. Pipe construction. 3,779,594, 12-18-73, Cl. 294-91.000.
Monroe, Francis Robert: *See*—
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Monroe, John N., to Thompson Ramo Wooldridge, Inc. Detecting with ultraviolet light. 3,736,428, 5-29-73, Cl. 250-71.00g.
Monroe, Maurice. Fluid driven cleaning implement for swimming pools. 3,716,883, 2-20-73, Cl. 15-1.700.
Monroe, Roger F.: *See*—
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Meeks, Merritt R.; Monroe, Roger F.; and Weber, Richard M., 3,777,934.
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Monroe, William E., to Bendix Corporation, The. Dual ratio force transfer apparatus. 3,733,822, 5-22-73, Cl. 60-54.50r.
Monroe X-Ray Company, Inc.: *See*—
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Foster, Robert D.; and Holleron, William K., 3,775,612.
Monroy, Jeffrey L., to Poly-Optics, Inc. Fiber optics decorative ornament. 3,727,044, 4-10-73, Cl. 240-10.00r.
Mons, Johannes Jan, to U.S. Philips Corporation. Arrangements for tuning a receiver. 3,740,651, 6-19-73, Cl. 325-464.000.
Monsanto Australia Limited: *See*—
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Monsanto Chemicals Limited: *See*—
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Monsanto Company, mesne: *See—*
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Monsanto Europe S.A.: *See—*
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Monsees, Claude E., to Wright Machinery Company, Inc. Continuous tube sealer. 3,729,359, 4-24-73, Cl. 156-466.000.

Monsees, Claude E., to Wright Machinery Company, Inc. Article arranging and counting machine. 3,730,386, 5-1-73, Cl. 221-7.000.

Monsen, Per Reidar, to Navalco A/S. Arrangement for the determination of liquid levels. 3,712,136, 1-23-73, Cl. 73-290.000.

Monser, George J., to Raytheon Company. Combined pitot tube and antenna. 3,781,895, 12-25-73, Cl. 343-708.000.

Monson, Donald R.: *See—*
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Monsun-Tison AB: *See—*
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Montabert, Roger. Percussion apparatus. 3,766,830, 10-23-73, Cl. 91-26.000.

Montacie, Marcel, to Union Industrielle Blanzy-Ouest. Universal continuous boring machine. 3,713,700, 1-30-73, Cl. 299-31.000.

Montacie, Marcel, to Union Industrielle Blanzy-Ouest. Tool with sweeping movement for a continuous boring or cutting machine. 3,773,387, 11-20-73, Cl. 299-86.000.

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Montagna, Carlo, 1/2 to Innocenti Societa Generale per l'Industria Metallurgica e Meccanica. Tube rolling mills. 3,735,622, 5-29-73, Cl. 72-209.000.

Montagne, Jean Bernard, to Compagnie Generale des Etablissements Michelin, raison Sociale Michelin & Cie. Bead area carcass cord arrangement for radial tires. 3,709,276, 1-9-73, Cl. 152-362.000.

Montagne, Jean Bernard, to Compagnie Generale des Etablissements Michelin, raison Sociale Michelin & Cie. Elastomers associated with cords of radial tires at points close to and removed from beads. 3,709,277, 1-9-73, Cl. 152-374.000.

Montagne, Jean Bernard, to Compagnie Generale des Etablissements Michelin raison sociale Michelin & Cie. Tire tread with protruding elements between adjacent ribs. 3,763,911, 10-9-73, Cl. 152-209.000.

Montagne, Jean Bernard, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Truck tire having carcass extension. 3,774,663, 11-27-73, Cl. 152-362.00r.

Montagne, Jean Bernard, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Pneumatic tires. 3,777,799, 12-11-73, Cl. 152-362.00r.

Montague, Archer A., Jr. Clasp for watchbands. 3,747,171, 7-24-73, Cl. 24-265.0ws.

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Montague, Grant R.: *See—*
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Montanari, Lucio; and Knirsch, Franco, to Olivetti, Ing., C., & C., S.p.A. Electro-thermic printing device. 3,744,611, 7-10-73, Cl. 197-1.00r.

Montano, Joseph V., to Litton Industrial Systems, Inc. Chain connecting link. 3,709,054, 1-9-73, Cl. 74-258.000.

Montanvert, Michel; and Jeymond, Jacques, to Cometa S.A. Method and apparatus for optical detection. 3,772,523, 11-13-73, Cl. 250-552.000.

Montblanc-Simplo GmbH: *See—*
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Herrnring, Heinz Gunther, 3,731,366.

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Monte, Ernest; and Quadri, Syed H., to Sunbeam Lighting Co. Fluorescent luminaire with circular heat-exchange louver. 3,710,094, 1-9-73, Cl. 240-9.00a.

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Montefiore, Herbert Ralph; deceased (by the National Westminster Bank, Limited; executor). Keyed joint. 3,759,065, 9-18-73, Cl. 64-23.000.

Monteiro, Hugo Jorge; and Siddall, John B., to Zoecon Corporation. Lower alkyl 5-methylhexo-3,4-dienoates and preparation thereof. 3,737,452, 6-5-73, Cl. 260-486.00r.

Montel, Jean-Pierre: *See—*
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Montelcone, Robert A., to United Aircraft Corporation. Blade for high speed helicopter. 3,721,507, 3-20-73, Cl. 416-223.000.

Montelius, Torsten, to Aktiebolaget Imo-Industri. Pumping units. 3,723,027, 3-27-73, Cl. 417-313.000.

Montell, Joseph J.; and Houghton, George L., to Rug Crafters. Hooking needle. 3,714,915, 2-6-73, Cl. 112-80.000.

Monten, Gordon A., to San Juan Products, Inc. Trailer for transporting one piece swimming pool shells. 3,738,515, 6-12-73, Cl. 214-152.000.

Montesi, Louis J., to United States of America, Navy. Water-armed air safetied detonator. 3,765,331, 10-16-73, Cl. 102-16.000.

Montesi, Robert Paul, to Dresser Industries, Inc. Valve seat construction. 3,749,359, 7-31-73, Cl. 251-306.000.

Montgomery, Allen M.: *See—*
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Montgomery, Andrew P.; deceased (by Montgomery, Ann P.; executrix), to Philco-Ford Corporation. Touch-button actuated electronic latching device with means for ensuring latch operation upon the application of power. 3,720,876, 3-13-73, Cl. 325-464.000.

Montgomery, Ann P.: *See—*
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Montgomery, Delmar L.: *See—*
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Montgomery, Donald B.: *See—*
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Montgomery, Donald Lee. Method of making flat rotatable disc assemblies. 3,718,519, 2-27-73, Cl. 156-250.000.

Montgomery, Donald R., to Union Carbide Corporation. Compatible and reactive vinyl copolymer resin. 3,755,271, 8-28-73, Cl. 260-80.750.

Montgomery Elevator Company: *See—*
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Montgomery, Frederick Dorsey: *See—*
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Montgomery, Harold S.; and Stevens, Alan F., to Nutting, David J. and said Stevens assor. to Nutting, Phyllis M., mesne. Automated information transmitting apparatus. 3,733,717, 5-22-73, Cl. 35-9.00a.

Montgomery, Harold S.; and Budnik, Roger J., to Nutting, David J. and Nutting, Phyllis M., mesne. Multiple play or instructional device. 3,765,105, 10-16-73, Cl. 35-9.00a.

Montgomery, James Boring: *See—*
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Montgomery, James R.: *See—*
Holgate, Richard L.; and Montgomery, James R., 3,710,118.

Montgomery, James William; and Reifel, Michael D., to Tenneco Oil Company. Method for locating the position of members relative to each other. 3,735,129, 5-22-73, Cl. 250-65.000.

Montgomery, John D.: *See—*
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Montgomery, John R.: *See—*
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Montgomery, Lionel C.: *See—*
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Montgomery, Lionel C., to Union Carbide Corporation. Boron nitride containing vessel having a surface coating of zirconium silicon. 3,724,996, 4-3-73, Cl. 263-47.00r.

Montgomery, Lionel C., to Union Carbide Corporation. Boron nitride base evaporation vessel having a surface coating of titanium-silicon thereon. 3,730,507, 5-1-73, Cl. 266-39.000.

Montgomery, Marshall A.: *See—*
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Montgomery, Neal R.: *See—*
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Montgomery, Neal R., to Amoco Production Company. Process for producing sulfur from sour gas. 3,749,762, 7-31-73, Cl. 423-574.000.

Montgomery, Phillip D.: *See—*
Franz, Raymond A.; Montgomery, Phillip D.; and Gebhart, Herbert J., Jr., 3,739,038.

Montgomery, Rex; Bateson, George F.; Corcoran, John D.; and Krbechek, Le Roy O., to General Mills, Inc. Preparation of carboxyalkyl derivatives of polygalactomannans. 3,740,388, 6-19-73, Cl. 260-209.00r.

Montgomery, Robert M.: *See—*
Price, Thomas C.; and Montgomery, Robert M., 3,769,695.

Montgomery, Robert Terry, to Celanese Corporation. Supported ribbons. 3,776,808, 12-4-73, Cl. 161-141.000.

Montgomery, Robin M.; and Messner, Gordon E., to Max Factor & Co. Apparatus and method for applying cosmetics. 3,763,870, 10-9-73, Cl. 132-85.000.

Montgomery, Ronald Eugene; and Incho, Harry Hobart, to FMC Corporation. Insecticidal compositions and methods of combatting insects using cyclopropanecarboxylate insecticides with a synergistic compound of mono(alkyl and alkenyl) mono-omega-alkynylaralkyphosphonate. 3,709,988, 1-9-73, Cl. 424-219.000.

Montgomery, Stewart Robert, to Grace, W. R., & Co. Process for producing copper chromite catalysts. 3,767,595, 10-23-73, Cl. 252-454.000.

Montgomery Ward & Co., Incorporated: *See—*
Armstrong, William H., 3,732,675.
Armstrong, William H., 3,754,386.

Montgomery, William C., Jr.; and Orr, William R., to Shell Oil Company. Seismic exploration system. 3,748,638, 7-24-73, Cl. 343-15.5mc.

Montgomery, William E., III, to Westinghouse Electric Corporation. Solid state multi-color sensor. 3,717,724, 2-20-73, Cl. 178-5.4st.

Montgomery, William Herbert, to American Cyanamid Company. Package for plural reactable components with rupturable ultrasonic seal. 3,749,620, 7-31-73, Cl. 156-73.000.

Montgomery, William Lloyd, to Bell Telephone Laboratories, Incorporated. Digital expandor for PCM code words. 3,778,605, 12-11-73, Cl. 235-154.000.

Montgomery, William W.; and Hood, Eugene B. T-shaped tracheal stent. 3,721,233, 3-20-73, Cl. 128-351.000.

Monti, Anthony: *See—*
Broeg, Charles Burton; Monti, Anthony; and Troy, John P., 3,745,022.

Monti, Giancarlo: *See—*
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Monti, Giancarlo, to Societa Italiana Telecomunicazioni Siemens S.p.A. PCM telecommunication system with TDMA voice transmission. 3,760,106, 9-18-73, Cl. 179-15.0ba.

Monti, Louis F. Push pull type weight shaft exercising device. 3,756,597, 9-4-73, Cl. 272-81.000.

Montiague, Josef. Convertible sofa. 3,747,134, 7-24-73, Cl. 5-8.000.

Montierth, Max R., to Corning Glass Works. Low-expansion glass-ceramic cementing method. 3,715,196, 2-6-73, Cl. 65-33.000.

Montino, Franco; and Guerrieri, Franco, to Montecatini Edison S.p.A. Process for preparing finely particled nickel powder. 3,711,274, 1-16-73, Cl. 75-.50a.

Montino, Franco; and Guerrieri, Franco, to Montecatini Edison S.p.A. Process for preparing finely particled metallic nickel powder having a spheroidal form. 3,748,118, 7-24-73, Cl. 75-.5aa.

Montjourides, Pierre, to Societe Anonyme D.B.A. Hydraulic brake automatic adjuster. 3,734,246, 5-22-73, Cl. 188-196.00a.

Montone, Anthony W.: *See—*
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Montone, Gregory E.: *See—*
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Montorsi, Giorgio: *See—*
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Montoya, John L.: *See—*
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Montreal Envelope Inc.: *See—*
Falasconi, Rolando; Daly, Frank Joseph; and Purdy, Richard, 3,712,185.

Montrella, Anthony James. Swim training paddle. 3,765,042, 10-16-73, Cl. 9-307.000.





Montres Rolex S.A.: *See—*
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Mookherjee, Braja D.; and Theimer, Ernst T., to International

Montres Rolex S.A.: *See—*
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Montross, Robert C., to Square D Company. Heat sink mounting for the power semiconductor in a solid state D. C. motor control circuit. 3,729,664, 4-24-73, Cl. 318-139.000.
Montross, Robert C., to Square D Company. Light operated variable impedance transducer. 3,755,681, 8-28-73, Cl. 250-229.000.
Montuschi, Mario; and Palazzetti, Mario, to Fiat Societa per Azioni. Capacitive discharge ignition circuit. 3,728,991, 4-24-73, Cl. 123-148.00e.
Monty Enterprises, Inc.: *See—*
Zakaski, Roman, 3,720,963.
Moodie, Donald E., to Polaroid Corporation. Arrangement for effecting rotational motion between polarizing elements. 3,743,381, 7-3-73, Cl. 350-159.000.
Moodie, Donald E., to Polaroid Corporation. Multiple photograph camera system. 3,762,293, 10-2-73, Cl. 95-37.000.
Moody, Anthony Gifford; and Ripley, Ian Stanley, to Imperial Chemical Industries Limited. Polymerisation processes using improved Friedel crafts catalysts. 3,763,125, 10-2-73, Cl. 260-81.000.
Moody Aquamatic Systems, Inc.: *See—*
Moody, Dwight L.; and Troglione, Vincent R., 3,756,410.
Troglione, Vincent R., 3,726,404.
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Moody, David L.; Loftis, James B.; and Boyle, James E., to Joy Manufacturing Company. Drilling apparatus. 3,766,996, 10-23-73, Cl. 173-57.000.
Moody, Dwight L.; and Troglione, Vincent R., to Moody Aquamatic Systems, Inc. Sewage disposal effluent purifier. 3,756,410, 9-4-73, Cl. 210-139.000.
Moody, Earl A., to Wagner Electric Corporation. Centrifugal governor. 3,731,024, 5-1-73, Cl. 200-80.000.
Moody, Floyd O.: *See—*
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Moody, Harry A.: *See—*
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Moody, John K., to Harnischfeger Corporation. Self-adjusting power operated brake. 3,710,897, 1-16-73, Cl. 188-75.000.
Moody, Larry D., to Western Electric Company, Incorporated. Method of applying a waterproofing jelly-like compound to an elongated strand and forming a sheath about the strand. 3,733,225, 5-15-73, Cl. 156-48.000.
Moody, Leonard A.: *See—*
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Arrington, Thomas B.; and Moody, Leonard A., 3,776,296.
Moody, Paul E., to United States of America, Navy. Submarine outboard greasing system. 3,724,600, 4-3-73, Cl. 184-70.000.
Moody, Robert E.; and Wilson, David A., to Hewlett-Packard Company. Spectrophotometer utilizing memory storage calibration techniques. 3,734,621, 5-22-73, Cl. 356-95.000.
Moody, Robert J., to Scott & Williams, Inc. Pantyhose construction. 3,757,354, 9-11-73, Cl. 2-224.00r.
Moody, Roy A.: *See—*
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Moody, Roy Alleyne: *See—*
Caveney, Jack Edward; Moody, Roy Alleyne; and Bulanda, John Jean, 3,778,750.
Mooers, Alden J.: *See—*
Marsh, Robert W.; and Mooers, Alden J., 3,781,114.
Mooers, Calvin N. Signalling system. 3,751,638, 8-7-73, Cl. 236-61.60r.
Moog Inc.: *See—*
Dark, Patrick M., 3,718,016.
Garnjost, Kenneth D., 3,741,073.
Hague, Robert Z.; Hantman, Edwin F.; Laucks, Howard H.; Loos, George J.; Marsicano, Matthew F.; and Mastropole, Alfred J., 3,722,363.
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Moog Industries, Inc.: *See—*
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Gallagher, James P.; and Mooi, John, 3,726,790.
Mook, Philip H., to Sweco, Inc. Rotating screen separator. 3,743,094, 7-3-73, Cl. 210-78.000.
Mook, Philip H.; and Westfall, Theodore R., to Sweco, Inc. Screening aerator concentrator. 3,775,311, 11-27-73, Cl. 210-44.000.
Mookherjee, Braja D.: *See—*
Grossman, James D.; Mookherjee, Braja D.; De Simone, Robert S.; and Theimer, Ernst T., 3,748,284.
Mookherjee, Braja D.; Giacini, Christopher; Karoll, Elizabeth A.; and Vock, Manfred H., to International Flavors & Fragrances Inc. 2-Acetyl-3-ethylpyrazine and process for the preparation thereof. 3,711,482, 1-16-73, Cl. 260-250.00r.
Mookherjee, Braja D.; and Theimer, Ernst T., to International Flavors & Fragrances, Inc. Process for the preparation of macrocyclic compounds and novel compounds produced thereby. 3,718,696, 2-27-73, Cl. 260-586.00a.
Mookherjee, Braja D.; and Taylor, William I., to International Flavors & Fragrances Inc. Process for the preparation of macrocyclic lactones. 3,728,358, 4-17-73, Cl. 260-343.000.
Mookherjee, Braja D.; and Taylor, William I., to International Flavors & Fragrances Inc. Hydroxy cyclohexadecanolides. 3,728,359, 4-17-73, Cl. 260-343.000.
Mookherjee, Braja D.; Giacino, Christopher; Karoll, Elizabeth A.; and Vock, Manfred H., to International Flavors & Fragrances Inc. Process of flavoring of foodstuffs with 2-acetyl-3-ethylpyrazine. 3,767,428, 10-23-73, Cl. 99-14.00r.
Mookherjee, Braja O.; and Blets, Moos G. J., to International Flavors & Fragrances Inc. Flavoring process using oxycyclic pyrazines. 3,764,349, 10-9-73, Cl. 426-65.000.
Moon Bat Kabushiki Kaisha: *See—*
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Moon, Charles L., to White Motor Corporation. Engine cooling system. 3,726,262, 4-10-73, Cl. 123-41.100.
Moon, Clive D., to Phillips Petroleum Company. Stabilized olefin polymers. 3,717,577, 2-20-73, Cl. 260-45.780.
Moon, Jacob R., to Moon Water Saver, Inc. Water saving apparatus for water closets. 3,731,324, 5-8-73, Cl. 4-18.000.
Moon, Jacob R., to Moon Water Saver, Inc. Water saving cup device for toilet tanks. 3,732,577, 5-15-73, Cl. 4-18.000.
Moon, Jerry W. Refuse compactor. 3,714,890, 2-6-73, Cl. 100-229.00a.
Moon, Jerry W. Refuse compactor. 3,717,091, 2-20-73, Cl. 100-53.000.
Moon, Jerry W. Refuse compactor. 3,722,404, 3-27-73, Cl. 100-52.000.
Moon, Jerry W. Refuse compactor. 3,732,805, 5-15-73, Cl. 100-226.000.
Moon, Malcolm W.; and Rizzo, Victor L., to Upjohn Company, The. Compositions method of combatting insects using 1'-variable-1',1'-dihalohalobenzeneazomethanes. 3,737,533, 6-5-73, Cl. 424-226.000.
Moon Water Saver, Inc.: *See—*
Moon, Jacob R., 3,731,324.
Moon, Jacob R., 3,732,577.
Mooney Chemicals, Inc.: *See—*
Alkaitis, Anthony; and Thomas, Gordon A., 3,723,152.
Collins, Albert V., 3,762,890.
Mooney, Daniel L.; and Herzog, William F., to Ampex Corporation. Time-base error correction system. 3,748,386, 7-24-73, Cl. 178-69:5dc.
Mooney, David H., Jr.: *See—*
Longuemare, R. Noel, Jr.; and Mooney, David H., Jr., 3,778,829.
Mooney, James J., Jr., to General Motors Corporation. Hydromechanical transmission. 3,714,845, 2-6-73, Cl. 74-687.000.
Mooney, James J., Jr.; and Polak, James C., to General Motors Corporation. Multi-range coaxial hydromechanical transmission. 3,777,593, 12-11-73, Cl. 74-687.000.
Mooney, John B., to Photophysics, Inc. Impregnated porous photoconductive device and method of manufacture. 3,745,504, 7-10-73, Cl. 338-15.000.
Mooney, John B., to Varian Associates. Electrophotographic plate. 3,754,965, 8-28-73, Cl. 117-34.000.
Mooney, John E.: *See—*
Marlor, Guy A.; and Mooney, John E., 3,754,985.
Mooney, Thomas: *See—*
Eidelberg, Jonah; Mooney, Thomas; and Brett, John J., 3,710,911.
Mooney, Thomas J.; and Lynch, Thomas, to Xerox Corporation. Fuser control apparatus. 3,748,088, 7-24-73, Cl. 432-46.000.
Moonier, Brian G., to Singer Company, The. Wide band digital sinc wave synthesizer. 3,757,096, 9-4-73, Cl. 235-152.000.
Moor, Hans. Pneumatic jack. 3,743,248, 7-3-73, Cl. 254-93.00r.
Moorad, Stanley: *See—*
Henschke, Ernest J.; Logemann, George H.; Moorad, Stanley; and Savio, Lino P., 3,741,410.
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Moore & Munger, Inc.: *See—*
Gaab, Frederick; Padgett, John W.; and Van, Sherman T., 3,772,233.
Moore, Alvin Edward. Light-weight, crashproof, tubular structure. 3,716,953, 2-20-73, Cl. 52-2.000.
Moore, Alvin Edward. Barrel-curved, wreck-resistant cabin. 3,718,295, 2-27-73, Cl. 244-119.000.
Moore, Alvin Edward. Cushioned, barrel-curved, wreck-resistant vehicle. 3,735,947, 5-29-73, Cl. 244-119.000.
Moore, Alvin Edward. Rotary tubular impeller. 3,743,440, 7-3-73, Cl. 416-84.000.
Moore, Alvin Edward. Ballooned, VTOL aircraft. 3,753,539, 8-21-73, Cl. 244-5.000.
Moore, Alvin Edward. Light-weight, crash-resistant, vehicular body. 3,768,430, 10-30-73, Cl. 114-66.50h.



Moore, Alvin Edward. Light-weight, crash-resistant, vehicular structure. 3,774,566, 11-27-73, Cl. 114-65.00r.
Moore, Alvin G., to Hercules Incorporated. Instrument for electrically measuring pressure changes. 3,769,827, 11-6-73, Cl. 73-398.00r.
Moore, Arthur B. Buffer coil. 3,761,069, 9-25-73, Cl. 267-152.000.
Moore, Arthur H.: *See—*
Samiran, David; and Moore, Arthur H., 3,773,320.
Vasas, Martin M.; and Moore, Arthur H., 3,741,666.
Moore, Arthur H., to Hugle Industries, Inc. Wafer spreader. 3,714,704, 2-6-73, Cl. 29-569.000.
Moore, Arthur H., to Hugle Industries, Inc. Wafer spreader. 3,766,638, 10-23-73, Cl. 29-583.000.
Moore, Arthur Ronald. Device for sorting carpet rolls. 3,768,669, 10-30-73, Cl. 214-64.000.
Moore Associates: *See—*
Moore, Joseph L., 3,712,660.
Moore, Brian B., to International Business Machines Corporation. Operation request block usage. 3,778,780, 12-11-73, Cl. 340-172.500.
Moore Business Forms, Inc.: *See—*
Harrod, Jimmie A., 3,712,216.
Hulbert, Allison G., 3,764,061.
Macaulay, Norman; and Ruus, Henn, 3,720,534.
Sandbach, Peter, 3,726,455.
Moore, Cecil L.; and McCarthy, Roger L., to McDonald, A. Y., Mfg. Co. Valve fitting for bottles. 3,759,291, 9-18-73, Cl. 137-588.000.
Moore, Charles C., III: *See—*
Carter, Nick G.; and Moore, Charles C., III, 3,754,275.
Moore, Charles Gregg: *See—*
Roe, Elverton O.; and Moore, Charles Gregg, 3,751,748.
Moore, Charles H. Method of making a connector tee for pressure pipe lines. 3,740,813, 6-26-73, Cl. 29-157.00t.
Moore, Charles H., Sr. Process for producing hollow forging with frusto-conical exterior and interior surfaces. 3,740,993, 6-26-73, Cl. 72-370.000.
Moore, Charles T. Animal, bird or like cage. 3,774,576, 11-27-73, Cl. 119-17.000.
Moore, Christopher John; and Barry, Brian, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Fan or compressor for a gas turbine engine. 3,730,639, 5-1-73, Cl. 415-119.000.
Moore, Claude A.; and Heer, William F., to Babcock & Wilcox Company, The. Loading of fuel rods. 3,735,550, 5-29-73, Cl. 53-22.00r.
Moore, Clifford J., to Misterhouse Toys, Inc. Children's play garage with self-contained storage compartment. 3,774,357, 11-27-73, Cl. 52-36.000.
Moore, Curtis L.: *See—*
Martincic, Paul W.; and Moore, Curtis L., 3,769,446.
Moore, Donald R.; and Tesoro, Giuliana C., to Stevens, J. P., & Co., Inc. Aryl carbonates of polyols. 3,716,572, 2-13-73, Cl. 260-463.000.
Moore Dry Kiln Company of Oregon: *See—*
Faley, Arnold F., 3,717,249.
Moore, Duncan Thomas; and Sands, Peter John, to Western Electric Company, Incorporated. Optical system comprising a single element having a continuously varying index of refraction. 3,729,253, 4-24-73, Cl. 350-175.0gn.
Moore, Duncan Thomas, to Western Electric Company, Incorporated. Telecentric lens. 3,773,404, 11-20-73, Cl. 350-226.000.
Moore, Earl P., Jr.: *See—*
Beyer, James N.; Moore, Earl P., Jr.; and Rusher, Robert L., 3,751,276.
Moore, Earl P., Jr., to Du Pont de Nemours, E. I. and Company. Stable positively charged alumina coated silica sols and their preparation by post neutralization. 3,719,607, 3-6-73, Cl. 252-313.00s.
Moore, Earl P., Jr., to Du Pont de Nemours, E. I., and Company. Stable positively charged alumina coated silica sols. 3,745,126, 7-10-73, Cl. 252-313.00s.
Moore, Earl P., Jr., to Du Pont de Nemours, E. I., and Company. Refractory laminate based on positive sols and polyfunctional organic and inorganic acids and salts. 3,748,156, 7-24-73, Cl. 106-38.300.
Moore, Earl P., Jr., to Du Pont de Nemours, E. I., and Company. Refractory laminate based on negative sols or silicates and basic aluminum salts. 3,748,157, 7-24-73, Cl. 106-38.350.
Moore, Earl P., Jr., to Du Pont de Nemours, E. I., and Company. Refractory laminate based on negative sols or silicates and polymeric lattices containing cationic surfactants. 3,752,679, 8-14-73, Cl. 106-38.350.
Moore, Earl P., Jr., to Du Pont de Nemours, E. I., and Company. Refractory laminate based on positive sols and polymer lattices containing anionic surfactants. 3,752,680, 8-14-73, Cl. 106-38.350.
Moore, Earl P., Jr., to Du Pont de Nemours, E. I., and Company. Refractory laminate based on positive sols and monofunctional organic acids and salts. 3,752,681, 8-14-73, Cl. 106-38.350.
Moore, Earl P., Jr., to Du Pont de Nemours, E. I., and Company. Refractory laminate based on positive sols and organic or inorganic bases. 3,752,689, 8-14-73, Cl. 106-38.300.
Moore, Earl P., Jr., to Du Pont de Nemours, E. I., and Company. Refractory laminate based on negative sols or silicates and polycationic organic compounds. 3,754,945, 8-28-73, Cl. 106-38.350.
Moore, Earl P., Jr., to Du Pont de Nemours, E. I., and Company. Refractory laminate based on negative sols or silicates and nonpolymeric organic cationic nitrogen-containing compounds. 3,754,946, 8-28-73, Cl. 106-38.350.
Moore, Earl P., Jr.; and Sowards, Donald M., to Du Pont de Nemours, E. I., and Company. Monolithic inorganic structures. 3,758,317, 9-11-73, Cl. 106-65.000.
Moore, Earl P., Jr., to Du Pont de Nemours, E. I., and Company. Stabilization of positive sol-refractory grain slurries. 3,764,355, 10-9-73, Cl. 106-57.000.
Moore, Earl P., Jr., to Du Pont de Nemours, E. I., and Company. Particulate refactory material coated with a negative silica sol setting agent. 3,767,458, 10-23-73, Cl. 117-100.00s.
Moore, Elmor: *See—*
Moore, Jimmie; and Moore, Elmor, 3,738,762.
Moore, Francis C.; and Perkinson, Leon R., to Moore-Perk Corporation. Method of sterile packaging. 3,725,003, 4-3-73, Cl. 21-58.000.
Moore, Francis C.; and Perkinson, Leon R., to Moore-Perk Corporation. Sterile packaging method. 3,754,368, 8-28-73, Cl. 53-21.0fc.
Moore, Fred W.; Robitaille, Dennis R.; and Barry, Henry F., to American Metal Climax, Inc. Corrosion inhibiting molybdate pigment and process for making same. 3,726,694, 4-10-73, Cl. 106-14.000.
Moore, George A. Breading machine. 3,709,193, 1-9-73, Cl. 118-19.000.
Moore, George D.: *See—*
Lavik, Melvin T.; Moore, George D.; and Hubbell, Ronald D., 3,775,318.
Moore, George E.; and Horlacher, Joseph D., to Watson Manufacturing Company, Inc. File tray control plate system. 3,718,232, 2-27-73, Cl. 220-22.300.
Moore, George E.; and Tomlinson, Lee H., to General Electric Company. Burner-flame arrester for burning off-gas from a boiling water reactor power plant. 3,740,313, 6-19-73, Cl. 176-37.000.
Moore, George E., to General Electric Company. Combustor-boiler for rankine-cycle engines. 3,750,399, 8-7-73, Cl. 60-108.000.
Moore, George E., to General Electric Company. Combustion process for producing high surface area silica. 3,772,427, 11-13-73, Cl. 423-337.000.
Moore, George G. I.; and Harrington, Joseph Kenneth, to Riker Laboratories, Inc., mesne. Diphenylamine derivatives. 3,755,605, 8-28-73, Cl. 424-321.000.
Moore, George L.: *See—*
Tedeschi, Robert J.; and Moore, George L., 3,709,946.
Terrell, Ross C.; and Moore, George L., 3,745,220.
Terrell, Ross C.; and Moore, George L., 3,749,791.
Terrell, Ross C.; and Moore, George L., 3,749,793.
Terrell, Ross C.; and Moore, George L., 3,749,794.
Moore, George L., to Air Reduction Company, Incorporated. 2-Methoxy-3-H-perfluorobutane as an inhalation anesthetic agent. 3,723,629, 3-27-73, Cl. 424-342.000.
Moore, Gerling, Inc., mesne: *See—*
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Moore, Glen F.: *See—*
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Moore, Glen T. Phonograph record interlocking means. 3,778,068, 12-11-73, Cl. 274-42.004.
Moore, Glenn E.; and Guertin, Robert W., to Dover Corporation. Mixing valve for fluid dispensing nozzle. 3,739,945, 6-19-73, Cl. 222-129.000.
Moore, Glenn R.: *See—*
Wilking, Werner C.; and Moore, Glenn R., 3,757,111.
Moore, H. Daniel. Form board for child education. 3,775,868, 12-4-73, Cl. 35-22.00a.
Moore, Harold Edward, to McCulloch Corporation. Chain saw safety method and apparatus. 3,739,475, 6-19-73, Cl. 30-383.000.
Moore, Harold R., to Westinghouse Electric Corporation. Method of constructing a continuously transposed transformer coil. 3,747,205, 7-24-73, Cl. 29-605.000.
Moore, Harrington. Convertible bird house and feeder. 3,730,139, 5-1-73, Cl. 119-23.000.
Moore, Harry: *See—*
Boose, Robert Carl; Weaver, Henry; and Moore, Harry, 3,723,693.
Moore, Hugh K. Paint tube dispensing cap. 3,777,939, 12-11-73, Cl. 222-189.000.
Moore Industries Inc.: *See—*
Moore, Leonard; and Bodle, Ronald L., 3,781,724.
Moore, James F., Jr. Game boards. 3,731,935, 5-8-73, Cl. 273-136.00f.
Moore, James R. Scavenger mechanism for two-cycle internal combustion engine. 3,722,482, 3-27-73, Cl. 123-66.000.



Moore, Jimmie; and Moore, Elmor. Disposable toothbrush.
Moore, Richard E.: *See—*

Moore, Jimmie; and Moore, Elmor. Disposable toothbrush. 3,738,762, 6-12-73, Cl. 401-186.000.

Moore, Jimmy J.; and Ward, Allen C. Diver decompression apparatus. 3,746,850, 7-17-73, Cl. 235-184.000.

Moore, John H., to Armstrong Cork Company. Prefabricated flooring. 3,717,247, 2-20-73, Cl. 206-59.00f.

Moore, John H., to Zenith Radio Corporation. Automatic hue control circuit. 3,749,825, 7-31-73, Cl. 178-5.4he.

Moore, John J.: *See*—
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Moore, John Russell Crompton. Resilient mounting arrangement. 3,759,503, 9-18-73, Cl. 267-58.000.

Moore, John S.: *See*—
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Moore, John W., to Swan Corporation. Wall paneling. 3,740,908, 6-26-73, Cl. 52-261.000.

Moore, Joseph B.: *See*—
Athey, Roy L.; and Moore, Joseph B., 3,711,936.
Athey, Roy L.; and Moore, Joseph B., 3,741,821.

Moore, Joseph E., to Chevron Research Company. Hydrocarbyl-1-(substituted carbamoyl)-2-benzimidazole carbamates. 3,732,241, 5-8-73, Cl. 260-309.200.

Moore, Joseph F.: *See*—
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Moore, Joseph L., to Moore Associates. Litter retrieving device. 3,712,660, 1-23-73, Cl. 294-61.000.

Moore, Lawrence A.; and Mauger, Leroy, to Beloit Corporation. Parison oven. 3,740,868, 6-26-73, Cl. 34-105.000.

Moore, Lawrence A., to Beloit Corporation. Method and apparatus for forming containers by blow-molding. 3,741,553, 6-26-73, Cl. 432-11.000.

Moore, Lawrence A., to Beloit Corporation. Furnace for blow moulding method and apparatus. 3,752,641, 8-14-73, Cl. 432-57.000.

Moore, Lawrence A. Blow molding apparatus. 3,765,813, 10-16-73, Cl. 425-174.000.

Moore, Lawrence A.; and Voll, Gordon R., to Beloit Corporation. Parison oven with improved parison removal structure. 3,773,192, 11-20-73, Cl. 214-21.000.

Moore, Lee C., Corporation: *See*—
Donnally, Robert B., 3,718,266.
Woolslayer, Homer J.; Woolslayer, Joseph R.; Jenkins, Cecil; and Campbell, Erwin A., 3,716,155.

Moore, Leon E. Automatic concrete forming machine for producing high density products. 3,781,156, 12-25-73, Cl. 425-424.000.

Moore, Leonard; and Bodle, Ronald L., to Moore Industries Inc. Terminal block. 3,781,724, 12-25-73, Cl. 333-79.000.

Moore, Lester P. Gas-liquid separator. 3,713,279, 1-30-73, Cl. 55-319.000.

Moore, Marvin D. Process for the removal of sulphate from brines. 3,753,900, 8-21-73, Cl. 210-45.000.

Moore, Morrison B., III: *See*—
Leverance, Robert A.; and Moore, Morrison B., III, 3,776,093.

Moore, Norman D. Metal art forms and method for producing the same. 3,738,417, 6-12-73, Cl. 164-76.000.

Moore, Oliver K., to Display Corporation International. Book binding. 3,716,256, 2-13-73, Cl. 281-29.000.

Moore, Paul, Company Limited, The: *See*—
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Moore, Paul J. Liquids and fluids dispensing applicator assembly. 3,754,557, 8-28-73, Cl. 132-114.000.

Moore, Peter N.; and Pierce, Leo F. Mud flap mounting means. 3,778,086, 12-11-73, Cl. 280-154.50r.

Moore, Philip D. Device for teaching time and rhythm. 3,760,680, 9-25-73, Cl. 84-483.000.

Moore Products Co.: *See*—
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Huslin, Theodore J., Jr., 3,771,346.

Moore, Ralph Bishop: *See*—
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Moore, Ralph J. Automatic loading cross-bow. 3,739,765, 6-19-73, Cl. 124-25.000.

Moore, Ray D. Plastic fishing worm. 3,760,528, 9-25-73, Cl. 43-42.240.

Moore, Raymond Frederick: *See*—
McGrath, Harry; Moore, Raymond Frederick; and Smith, Eric, 3,728,292.

Moore, Raymond L., to Summit Hill Laboratories. Sterilized glyceryl guaiacolate powder and process for manufacturing same. 3,754,040, 8-21-73, Cl. 260-613.00d.

Moore, Richard C.: *See*—
Weise, Gary V.; Moore, Richard C.; and Sweat, James C., 3,742,889.

Moore, Richard D.: *See*—
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Moore, Richard E.: *See*—
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Moore, Richard F.: *See*—
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Engelbrecht, Robert M.; Hill, James C.; and Moore, Richard N., 3,714,003.
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Moore, Robert A.; and Nelson, Theodore M., to Westinghouse Electric Corporation. Yig filter having a single substrate with all transmission line means located on a common surface thereof. 3,740,675, 6-19-73, Cl. 333-73.00r.

Moore, Robert B. Amusement and exercise device. 3,770,275, 11-6-73, Cl. 273-106.00r.

Moore, Robert D., Sr., to United States Gypsum Company. Double-revolving disc refiner. 3,746,270, 7-17-73, Cl. 241-251.000.

Moore, Robert David, Jr. Heatronic capacitor. 3,738,421, 6-12-73, Cl. 165-32.000.

Moore, Robert David, Jr. Heat transfer apparatus with immiscible fluids. 3,741,289, 6-26-73, Cl. 165-32.000.

Moore, Robert David, Jr. High heat flux heat pipe. 3,750,745, 8-7-73, Cl. 165-105.000.

Moore, Robert E., to Sun Oil Company of Pennsylvania. Bis-(dialkyla damantyl)benzenes. 3,760,020, 9-18-73, Cl. 260-668.00f.

Moore, Robert F., to Grimm, G. H., Co., Inc. Hay tedding machine. 3,760,575, 9-25-73, Cl. 56-370.000.

Moore, Robert G., Jr., to Bendix Corporation, The. Method of and apparatus for control of helicopter gas turbine engine during autorotation. 3,777,478, 12-11-73, Cl. 60-39.16r.

Moore, Robert L., to Westinghouse Electric Corporation. Door lock for laundry apparatus. 3,765,194, 10-16-73, Cl. 68-139.000.

Moore, Robert M. Automatic fluid flow control for pressure actuated devices. 3,762,433, 10-2-73, Cl. 137-469.000.

Moore, Robert P., to United States of America, Navy. Automatic integrator control for radiometric guidance. 3,725,931, 4-3-73, Cl. 343-100.0me.

Moore, Robert R., to United States of America, Atomic Energy Commission. Gauging system. 3,747,219, 7-24-73, Cl. 33-174.00l.

Moore, Robert S., to Eastman Kodak Company. Plastic optical element having refractive index gradient. 3,718,383, 2-27-73, Cl. 350-175.0gn.

Moore, Roy Edward, to Dart Industries Inc. Reinforced large polystyrene container. 3,754,699, 8-28-73, Cl. 229-15.00b.

Moore, Roy N., to Murphy, G. W., Industries, Inc. Drill bit nozzles. 3,744,581, 7-10-73, Cl. 175-340.000.

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Schrock, James Douglas, 3,720,235.
Whittaker, Dewey E.; and Jenks, Charles D., 3,780,208.

Moore, Stuart I., to United States of America, Navy. Cable connector. 3,753,215, 8-14-73, Cl. 339-136.00m.

Moore, Thomas. Automatic transmission fluid level indicator. 3,728,704, 4-17-73, Cl. 340-244.00a.

Moore, Thomas H.: *See*—
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Moore, Thomas J.: *See*—
Holko, Kenneth H.; and Moore, Thomas J., 3,745,300.
Holko, Kenneth H.; and Moore, Thomas J., 3,758,741.
Holko, Kenneth H.; and Moore, Thomas J., 3,770,933.

Moore, Thomas J., to United States of America, National Aeronautics and Space Administration. Production of hollow components for rolling element bearings by diffusion welding. 3,748,722, 7-31-73, Cl. 29-487.000.

Moore, Thomas S., to Transworld Drilling Company. Method for bending and laying pipe under water. 3,754,404, 8-28-73, Cl. 61-72.300.

Moore, Thomas W.; Dimeo, Frank N.; and Collins, Richard E., to Academic Associates, Inc. Defibrillation electrode. 3,762,420, 10-2-73, Cl. 128-417.000.

Moore, Victor J., to Anglo American Corporation of South Africa Limited. Segregation apparatus. 3,722,869, 3-27-73, Cl. 266-20.000.

Moore, Ward J.; Ingersoll, Philip F.; Richter, Arnold; and Kieffer, William L., to United States of America, Army. Turbine alternator utilizing fluid bearings. 3,772,992, 11-20-73, Cl. 102-70.20g.

Moore, Wesley D.; and Baker, Silveus M., to Royal Industries, Inc. Control rod drive mechanism. 3,714,479, 1-30-73, Cl. 310-80.000.

Moore, Wilcy I.: *See*—
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Moore, Wilcy I.; and LaFond, Gerard L., to Versadyne, Inc., mesne. Vehicle guidance system. 3,757,887, 9-11-73, Cl. 180-98.000.

Moore, William C.; Pilgrim, William S.; and Caldwell, Melvin R., to Welch Allyn Inc. Disposable light-conductive speculum. 3,716,047, 2-13-73, Cl. 128-18.000.

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Action, Floyd; Cochran, Paul E.; and Moore, William G., 3,781,622.

Moore, William H.: *See*—
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Moore, William H.; and Kessler, Harry H., to Meehanite Metal Corporation. Gating system for introducing additives to molten metal. 3,746,078, 7-17-73, Cl. 164-363.000.

Moore, William H., to Meehanite Metal Corporation. Method of melting cast iron. 3,764,298, 10-9-73, Cl. 75-12.000.

Moore, William J.: *See*—
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Bishop, Stephen G.; and Moore, William J., 3,781,748.

Moore, William M.: *See*—
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Moore, William M. Method of making modular iron castings. 3,765,876, 10-16-73, Cl. 75-130.00a.

Moore, William Percy, Jr., to Allied Chemical Corporation. Process for the production of hydrogen-halides from a brine. 3,752,883, 8-14-73, Cl. 423-481.000.

Moore, William Ross, to Dow Chemical Company, The. Random copolymers of sulfur dioxide with allyl ether of polyoxyalkyleneglycols. 3,711,453, 1-16-73, Cl. 260-79.30a.

Moore, William Ross; and Langner, Ralph Rolland, to Dow Chemical Company, The. Fabrics sized with copolymers of sulfur dioxide and allyl epoxyalkane ethers. 3,725,125, 4-3-73, Cl. 117-139.50a.

Moore, William S. Spindle assembly for textile machine. 3,724,195, 4-3-73, Cl. 57-75.000.

Moore, William Stanley, to National Research Development Corporation. Waveguide coupling device. 3,708,767, 1-2-73, Cl. 333-24.00r.

Moore, Zack J., to Dow Chemical Company, The. Fog abatement with polyhydric organic compounds. 3,722,815, 3-27-73, Cl. 239-2.00r.

Moore-lem, Inc.: *See*—
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Lunden, Sidney L., 3,737,053.

Moore-Perk Corporation: *See*—
Moore, Francis C.; and Perkinson, Leon R., 3,725,003.
Moore, Francis C.; and Perkinson, Leon R., 3,754,368.

Moorefield, Carlton Swain. Electronic lock system. 3,739,340, 6-12-73, Cl. 340-147.0md.

Moorefield, Samuel A.: *See*—
Copeland, Robert L.; Moorefield, Samuel A.; Beeler, David R.; and Chase, Vance A., 3,764,449.

Moorehead, Harvey; Reading, George R.; and Smith, Silas S., to Deseret Pharmaceutical Company, Inc. Y stylet catheter placement assembly. 3,766,916, 10-23-73, Cl. 128-214.400.

Moorehead, Thomas J.: *See*—
Borbas, Robert A.; Dufton, John P.; Duthie, Robert W.; Lighthall, John T.; Moorehead, Thomas J.; and Verbaas, George, 3,767,863.

Moorehead, Thomas J., to GTE Automatic Electric Laboratories, Incorporated. Lockout selection circuit. 3,760,120, 9-18-73, Cl. 179-19.000.

Moorer, Henry D.; and Stokeld, Richard W., Jr., to Texaco Inc. Alkylation process employing flash vaporization of excess olefin from an olefin absorption step. 3,720,731, 3-13-73, Cl. 260-683.620.

Moorhead, Seth B., Jr.: *See*—
Kinnaird, Laird D.; Moorhead, Seth B., Jr.; and Casadevall, James L., 3,745,928.

Moorhead, Walter H. Change speed transmission. 3,709,063, 1-9-73, Cl. 74-750.000.

Moorman, Charles J.; and Goldman, Myron D., to Mosler Safe Company, The. Vertically reciprocating door and actuating mechanism therefor. 3,747,274, 7-24-73, Cl. 49-280.000.

Moorman, Earl J., to General Motors Corporation. Apparatus for controlling shaft end play. 3,726,575, 4-10-73, Cl. 308-135.000.

Moos, Jakob: *See*—
Brumm, Karl; Moos, Jakob; Weber, Jorg; Drott, Helmut; and Stelzig, Russelsheim, 3,738,197.

Moose, Robert R. Aircraft glide slope instrumentation system. 3,781,891, 12-25-73, Cl. 343-108.00r.

Moosmann, Alois. Pressure operated device for a pressure operated servo-turbine. 3,775,022, 11-27-73, Cl. 415-61.000.

Moot, John R., to Cornwall Corporation. Corn popper. 3,774,523, 11-27-73, Cl. 99-323.800.

Mor-Fish-Ent, Inc.: *See*—
Kahrs, James W.; and Osborn, Paul E., 3,730,142.

Mora, Paul L.: *See*—
Brown, Victor E.; Mora, Paul L.; and Evans, Morton I., 3,720,995.

Mora, Raul L.: *See*—
Brown, Victor E.; Mora, Raul L.; and Morton, Evans T., 3,717,964.

Morabtto, Pascal Pierre. Method for producing ornamental articles. 3,778,875, 12-18-73, Cl. 29-160.600.

Moradian, Ebrahim. Rust preventive coating composition. 3,754,942, 8-28-73, Cl. 106-14.000.

Moradzadeh, Yaqub, to International Business Machines Corporation. Adjustment of color balance in electroporesis by modification of particle size. 3,745,003, 7-10-73, Cl. 96-1.200.

Morales, Gerald A., to American Safety Equipment Corporation. Electrical sensor unit for a safety belt retractor. 3,767,134, 10-23-73, Cl. 242-107.400.

Morales, Juan G.: *See*—
Soloway, Samuel B.; and Morales, Juan G., 3,740,428.
Soloway, Samuel B.; and Morales, Juan G., 3,740,429.
Soloway, Samuel B.; and Morales, Juan G., 3,745,198.

Morales, Manuel F. Automatic card dispenser. 3,710,929, 1-16-73, Cl. 206-39.000.

Moran, Daniel Bryan: *See*—
Allen, George Rodger, Jr.; McEvoy, Francis Joseph; DeVries, Vern Gordon; Moran, Daniel Bryan; and Littell, Ruddy, 3,751,416.
Allen, George Rodger, Jr.; McEvoy, Francis Joseph; DeVries, Vern Gordon; Moran, Daniel Bryan; and Littell, Ruddy, 3,751,417.

Moran, Edward E.; and Wine, Jeffrey J., to PPG Industries, Inc. Poly (vinylidene fluoride) compositions. 3,753,942, 8-21-73, Cl. 260-30.200.

Moran, Eric: *See*—
Hayhurst, George; and Moran, Eric, 3,750,227.

Moran, Harold J., to Switlik Parachute Co., Inc. Life preserver. 3,771,183, 11-13-73, Cl. 9-342.000.

Moran, Harry Hamilton. Thermoplastic bag. 3,719,318, 3-6-73, Cl. 229-58.000.

Moran, James G. Inflatable and illuminable figure. 3,745,677, 7-17-73, Cl. 40-126.00b.

Moran, James H.; Bakamjian, Barkev Y.; and Muricchio, Thomas, to Schlumberger Technology Corporation. Cement evaluation logging. 3,732,947, 5-15-73, Cl. 181-.5ac.

Moran, James J.: *See*—
Watson, William R.; and Moran, James J., 3,710,237.

Moran, John J., to Hycel, Inc. Optical analyzing means for automatic chemical testing apparatus. 3,711,206, 1-16-73, Cl. 356-201.000.

Moran, John J., to Hycel, Inc. Fume exhaust and treating system. 3,713,785, 1-30-73, Cl. 23-292.000.

Moran, John J., to Hycel, Inc. Sample fluid dispensing apparatus for chemical testing apparatus. 3,716,338, 2-13-73, Cl. 23-259.000.

Moran, John J., to Hycel, Inc. Reagent dispensing means for chemical testing apparatus. 3,723,066, 3-27-73, Cl. 23-253.00r.

Moran, John J., to Hycel, Inc. Automatic chemical testing apparatus. 3,728,079, 4-17-73, Cl. 23-253.00r.

Moran, John J., to Hycel, Inc. Control apparatus for automatic chemical testing apparatus. 3,728,080, 4-17-73, Cl. 23-259.000.

Moran, John J., to Hycel, Inc. Loop conveyor for automatic chemical testing apparatus. 3,762,879, 10-2-73, Cl. 23-259.000.

Moran, John P. Heater for automotive vehicles. 3,758,031, 9-11-73, Cl. 237-8.00a.

Moran, Kevin P.: *See*—
Antonatti, Vincent W.; Gorta, Omkarnath P.; and Moran, Kevin P., 3,774,677.

Moran, Kevin P. Stack gas scrubber. 3,772,856, 11-20-73, Cl. 55-238.000.

Moran, Paul J., to General Electric Company. Method of charging secondary metal-air cell. 3,713,892, 1-30-73, Cl. 136-86.00a.

Moran, Paul J., to General Electric Company. High-speed data processing system. 3,739,350, 6-12-73, Cl. 340-172.500.

Moran, Ralph T.: *See*—
Hwa, Chih M.; and Moran, Ralph T., 3,766,077.

Moran, Richard J., to McGraw-Edison Company. Overcurrent sensing and restraint control for sectionalizing switch. 3,739,229, 6-12-73, Cl. 317-22.000.

Moran, Robert L. Automatic television programmer. 3,778,721, 12-11-73, Cl. 325-396.000.

Moran, Thomas M., to Eaton Corporation. Fastening assembly. 3,741,067, 6-26-73, Cl. 85-72.000.

Moran, William F.: *See*—
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Moran, William Joseph: *See*—
Bann, Robert Francis; Moran, William Joseph; and Roth, Philip B., 3,746,505.

Morandi, Battista: *See*—
Siclari, Francesco; Magnoni, Franco; and Morandi, Battista, 3,781,213.

Morane, Bruno P.; Paoletti, Charles; Maurelli, Manlio; Merrien, Louis; and Sathicq, Robert, to L'Oreal. Pressure-responsive safety device for aerosol dispenser and containers equipped therewith. 3,712,501, 1-23-73, Cl. 220-85.00r.

Morane, Bruno P., to L'Oreal. Injector package for catamenial tampon. 3,717,149, 2-20-73, Cl. 128-263.000.

Morane, Bruno P.; and Alexandre, Pierre E., to L'Oreal. Method of attaching innermost of two containers to a dispensing valve carried by the outermost container. 3,720,376, 3-13-73, Cl. 239-308.000.

Morane, Bruno P., to L'Oreal. Container for corrosive products to be stored under pressure. 3,738,540, 6-12-73, Cl. 222-397.000.

Morane, Bruno P., to L'Oreal. Spout for dispensing fluids from pressurized containers. 3,744,681, 7-10-73, Cl. 222-402.120.





Morane, Bruno P., to L'Oreal. Diffusing box. 3,754,707, 8-28-73, Cl.

Morehouse, Edward Lewis, to Union Carbide Corporation. Lactose

Morane, Bruno P., to L'Oreal. Diffusing box. 3,754,707, 8-28-73, Cl. 239-59.000.
Morange, Theodore Adam: *See—*
Leone, Louis William; Morange, Theodore Adam; Reilly, Donald Francis; and Schram, Paul James, 3,750,018.
Moransais, Charles, to Zafira France. Cable-tightening device. 3,709,071, 1-9-73, Cl. 81-3.00j.
Morante, Robert J., to Bausch & Lomb Incorporated. Inverted telephoto lenses having elements in edge contact. 3,713,724, 1-30-73, Cl. 359-216.000.
Morasz, Walter, to U.S. Philips Corporation. Reflector having radial flutes. 3,758,770, 9-11-73, Cl. 240-41.360.
Morat, Franz, G.m.b.H., Firma: *See—*
Doslik, Peter, 3,763,313.
Gottschal, Gernot, 3,766,394.
Schmidt, Gerhard; and Jansch, Werner, 3,762,185.
Schnattinger, Walter Ludvig; Seelos, Albert; Mayer, Heinz; Oelmayer, Reinhold; Duell, Josef; Hertl, Wilhelm; Koch, Hans-Jorg; and Stock, Hans-Joachim, 3,767,844.
Schunack, Johannes, 3,720,779.
Seitz, Helmut, 3,745,243.
Moravec, Vincent J., Jr.; and Meerbott, William K., to Shell Oil Company. Regeneration of platinum-germanium reforming catalyst. 3,776,840, 12-4-73, Cl. 208-139.000.
Morawetz, Peter L.: *See—*
Tinklenberg, Meryl W.; Morawetz, Peter L.; and Olson, Roger, 3,764,486.
Moray, Forest J. Electrical wire terminal. 3,740,702, 6-19-73, Cl. 339-223.00s.
Morbark Industries, Inc.: *See—*
Morey, Norval K.; and Smith, Leward N., 3,774,660.
Smith, Leward N., 3,771,397.
Morceau, Marcel E. Container with safety closure cap therefor. 3,743,127, 7-3-73, Cl. 215-9.000.
Morchand, Charles A., to Data-Plex Systems, Inc. Television transmission system for two classes of information. 3,730,986, 5-1-73, Cl. 178-5.600.
Morchand, Charles A.; and Dudley, Don J., to Data-Plex Systems, Inc. Television transmission methods and apparatus. 3,745,240, 7-10-73, Cl. 178-5.600.
Morchand, Charles A.; and Dudley, Don J., to Data-Plex Systems, Inc. High resolution television transmission. 3,752,911, 8-14-73, Cl. 178-6.800.
Morcher, Bernard: *See—*
Moll, Franz; Morcher, Bernard; Reckziegel, Erich; and Saleck, Wilhelm, 3,779,764.
Morcher, Bernhard: *See—*
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Morck, Charles W., Jr., to Selas Corporation of America. Safety blowout. 3,709,239, 1-9-73, Cl. 137-68.000.
Mordchelles Regnier, Georges: *See—*
Marchal, Philippe Albert Hippolyte; Simonnet, Jacques Louis Paul; Mordchelles Regnier, Georges; and Verrien, Jean Prudent Fernand Rene, 3,748,826.
Morden, Russell L.: *See—*
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Morden, Russell L., to General Motors Corporation. Torque responsive transmission mechanism. 3,757,605, 9-11-73, Cl. 74-751.000.
More, Philip M.: *See—*
Stevens, Walter Chandler, Jr.; and More, Philip M., 3,723,050.
Moreau, Albert T. Apparatus for cleaning coke oven doors. 3,774,258, 11-27-73, Cl. 15-93.00a.
Moreau, Charles: *See—*
Ducrocq, Roger; and Moreau, Charles, 3,713,410.
Moreau, Claude, to Societe Financiere et Industrielle des Ateliers et Chantiers de Bretagne. Sealing system for chain conveyors. 3,719,264, 3-6-73, Cl. 198-1.000.
Moreau, Claude R. M. Alternative puzzle system. 3,779,558, 12-18-73, Cl. 273-157.00r.
Moreau, Jean Pierre; and Boudry, Jean Marie, to Sescosem-Societe Europeenne de Semiconducteurs et de Microelectronique. Divider circuits. 3,725,791, 4-3-73, Cl. 328-41.000.
Moreau, Jean Pierre A.; and Schuler, Georges, to Sescosem-Societe Europeenne de Semiconducteurs et de Microelectronique. Crystal-controlled oscillators. 3,753,154, 8-14-73, Cl. 331-116.00r.
Moreau, Jean-Francois: *See—*
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Moreau, Jerry P.: *See—*
Chance, Leon H.; and Moreau, Jerry P., 3,719,448.
Chance, Leon H.; and Moreau, Jerry P., 3,763,282.
Moreau, Jerry P.; Drake, George L., Jr.; and Reeves, Wilson A., to United States of America, Agriculture. Fluoroamide-amino polymers and process for imparting oleophobic yet hydrophilic properties to fibrous materials. 3,769,307, 10-30-73, Cl. 260-404.500.
Morehouse, Edward L., to Union Carbide Corporation. Process for reducing flammability of polyurethane foams. 3,779,956, 12-18-73, Cl. 260-2.5ah.
Morehouse, Edward Lewis, to Union Carbide Corporation. Cold cure high resilience foam. 3,741,917, 6-26-73, Cl. 260-2.5ah.
Morehouse, Edward Lewis, to Union Carbide Corporation. Lactone-silicone compositions. 3,778,458, 12-11-73, Cl. 260-448.20b.
Morehouse, John D.: *See—*
Morehouse, John H.; and Morehouse, John D., 3,764,072.
Morehouse, John H.; and Morehouse, John D. Spray tank. 3,764,072, 10-9-73, Cl. 239-286.000.
Moreines, Harold: *See—*
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Moreira, Luiz Carlos: *See—*
Schenk, Josef; Von Ehrenstein, Christian; and Moreira, Luiz Carlos, 3,766,453.
Moreira, Renan. Rotary jet twin propulsion engine. 3,716,989, 2-20-73, Cl. 60-39.340.
Morek, Stanely J.: *See—*
Babut, John S.; and Morek, Stanely J., 3,769,931.
Morel, Andre, to Constructions Mecaniques F. Laroche & Fils. Fiber opening machine. 3,780,399, 12-25-73, Cl. 19-97.000.
Morel, Charles: *See—*
Baschang, Gerhard; Frei, Joerg; Morel, Charles; and Wacker, Oskar, 3,743,663.
Morel, Jacques, to Rhone-Poulenc S.A. Preparation of carotenoid compounds. 3,755,422, 8-28-73, Cl. 260-497.00r.
Morel, Joseph Julien: *See—*
Vezeau, Roland, 3,719,006.
Morel, Rene; and Simmen, Robert, to Mefina S.A. Fuze for a non-gyratory projectile. 3,715,987, 2-13-73, Cl. 102-74.000.
Morel, Rene, to Mefina S.A. Safety device for a gyratory rocket missile. 3,777,666, 12-11-73, Cl. 102-80.000.
Moreland, Fred E. Deep-sea dive suit and life support system. 3,730,178, 5-1-73, Cl. 128-142.500.
Moreland, Michael L.: *See—*
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Moreland, Stephen T. Apparatus for continuous sausage manufacture. 3,752,618, 8-14-73, Cl. 425-133.000.
Moreland, William C., II: *See—*
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Moreland, William C., II; Cobb, William R.; and Tyke, Charles R., to Westinghouse Electric Corporation. Magnetically coupled control for appliance. 3,711,672, 1-16-73, Cl. 219-10.490.
Morell, Josef: *See—*
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Morelli, Benjamin J. Projector table cabinet. 3,774,872, 11-27-73, Cl. 248-11.000.
Morelli, Dino: *See—*
Hyde, Richard E.; Vogler, Paul; Morelli, Dino; and Carmichael, Lee T., 3,762,768.
Morello, Bartolomeo: *See—*
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Morello, Edwin F.: *See—*
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Morello, Edwin F., to Standard Oil Company. Polyamide-imide compositions containing guanidine salts of weak acids as bonding agents. 3,716,514, 2-13-73, Cl. 260-33.40p.
Morello, Edwin F., to Standard Oil Company. Composition and process for producing polyamideimide and polyamide polymers. 3,753,998, 8-21-73, Cl. 260-30.20r.
Morelock, Charles R., to General Electric Company. Filament coating apparatus including mercury contact heating means. 3,738,314, 6-12-73, Cl. 118-49.500.
Moren, Robert A., to Plastofilm Industries, Inc. Three component package having at least two components formed of vacuum molded plastic film. 3,744,663, 7-10-73, Cl. 220-4.00d.
Morena, John J.; and Grauso, Robert N., to Martin, C. F., & Co. Snare drum and improved snare wire therefor. 3,757,027, 9-4-73, Cl. 84-416.000.
Morenar S.A.: *See—*
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Morency, Roger L.: *See—*
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Moreno, Frederick E.: *See—*
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Moreno, Isabel L.; and Ruiz, Edward F., said Moreno assor. to said Ruiz, Edward F. Dough sheet spreader. 3,748,079, 7-24-73, Cl. 425-466.000.
Moreschini, Victor. Extension lamp bulb guard and reflector. 3,755,668, 8-28-73, Cl. 240-54.00a.
Moret, Michel: *See—*
Jousson, Pierre J.; and Moret, Michel, 3,720,486.
Moret, Michel A.; and Jousson, Pierre, to Etablissments SOPHIMDAR. Hydraulically operated hand appliance for personal hygiene. 3,771,186, 11-13-73, Cl. 15-22.00r.
Moret, Michel A.; and Jousson, Pierre J., to Institut de Recherche Woog. Reservoir for a liquid pump, including a float valve. 3,771,557, 11-13-73, Cl. 137-565.000.
Moret, Michel Antoine Cesar; Bergman, Manfred; Jousson, Pierre Jean; and Mira, Jean, to Wood Institute for Industrial Research &



Distribution. Method and apparatus for the practice of oral hygiene using a plurality of pulsated liquid jets. 3,756,225, 9-4-7, Cl. 128-66.000.
Moretti, Alberto; and Feroli, Settimio, to Italspier S.p.A. Railway car wite elastic side walls. 3,712,251, 1-23-73, Cl. 105-409.000.
Moretti, Alfred J., to Xerox Corporation. Store and forward speed changer for off-line transmission of binary data. 3,714,377, 1-30-73, Cl. 179-15.55r.
Moretti, John A.: *See—*
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Moretti, Joseph G., Jr. Low bed trailer for heavy equipment. 3,779,411, 12-18-73, Cl. 214-505.000.
Moretti, Turini Renzo: *See—*
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Morewood, Charles Alan: *See—*
Pugh, Algernon Walter; and Morewood, Charles Alan, 3,750,251.
Morewood, William Henry. Self-feeding device for handicapped persons. 3,734,306, 5-22-73, Cl. 214-1.00t.
Morey, Edward F.: *See—*
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Morey, Roger John: *See—*
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Morey, Woodruff A.: *See—*
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Morgan, Albert R.: *See—*
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Morgan, Alfred Arthur, to Hawker Siddeley Aviation Limited. Aircraft with lift engines. 3,730,456, 5-1-73, Cl. 244-12.00b.
Morgan, Alfred Arthur, to Hawker Siddeley Aviation Limited. Aircraft. 3,746,283, 7-17-73, Cl. 244-42.0cb.
Morgan, Anthony J. Compound tear label. 3,750,317, 8-7-73, Cl. 40-310.000.
Morgan, Barrie O.: *See—*
Goode, George E.; Morgan, Barrie O.; and Branscome, Kenneth M., 3,781,472.
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Carter, Andrew G.; and Morgan, Charles L., 3,749,485.
Morgan, Charles R.: *See—*
Godfrey, John J.; and Morgan, Charles R., 3,714,223.
Morgan, Charles Robert, to Grace, W. R., & Co. Photocurable polyene-polythiol polymers using a phosphine plus an additional sensitizer. 3,729,404, 4-24-73, Cl. 204-159.150.
Morgan, Charles Robert, to Grace, W. R., & Co. Solid photoresist comprising a polyene and a polythiol. 3,767,398, 10-23-73, Cl. 96-36.200.
Morgan Company: *See—*
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Morgan Construction Company: *See—*
Alexander, Frank A., Jr., 3,764,259.
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Hill, William J.; Woodrow, Harold E.; and Klusmier, Kenneth L., 3,735,880.
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Shore, Terence Michael, 3,711,918.
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Morgan, Cyril Alfred; Arber, Scott Gordin; and Young, Oswald William John, to United States Borax & Chemical Corporation. Process for purification of refractory metal nitrides. 3,718,490, 2-27-73, Cl. 106-65.000.
Morgan, Daniel Ruben. Hydrofoil surfboards. 3,747,138, 7-24-73, Cl. 9-310.00e.
Morgan, David A., to Honeywell Inc. Chromagography valve. 3,751,992, 8-14-73, Cl. 73-422.0gc.
Morgan, David Keith: *See—*
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Morgan, David W.: *See—*
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Morgan, David W., to Corning Glass Works. Chemically resistant aluminophosphate glasses. 3,746,556, 7-17-73, Cl. 106-47.00r.
Morgan, David W., to Corning Glass Works. Glasses containing cadium sulfide as a colorant. 3,773,530, 11-20-73, Cl. 106-54.000.
Morgan, Dean T., to Thermo Electron Corporation. Vapor generator. 3,734,402, 5-22-73, Cl. 236-21.00b.
Morgan, Donald G.: *See—*
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Morgan, Edwin, to Morgan Mills Incorporated. Mobile beam carriage assembly. 3,747,316, 7-24-73, Cl. 57-90.000.
Morgan, Everett V.; Haynes, Robert W.; and Schmidt, Gordon F. Metering apparatus. 3,773,220, 11-20-73, Cl. 222-48.000.
Morgan, Fred K.: *See—*
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Morgan, Fred Keith: *See—*
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Morgan, George H.; and Nehrig, R. Harlan, to Auto Specialties Manufacturing Company. Vehicle jack. 3,737,147, 6-5-73, Cl. 254-108.000.
Morgan, George H.; and Nehrig, Robert Harlan, to Auto Specialties Manufacturing Company. Scissors jack. 3,741,524, 6-26-73, Cl. 254-122.000.
Morgan, George, Jr., to Procter & Gamble Company, The. Disintegration process for fibrous sheet material. 3,750,962, 8-7-73, Cl. 241-18.000.
Morgan, Gerard E., to Riddell, Inc. Ski boot construction. 3,722,112, 3-27-73, Cl. 36-2.5al.
Morgan, Grant T. Photographic type-composing machines. 3,733,977, 5-22-73, Cl. 95-4.50r.
Morgan, Hubert Davies, to British Steel Corporation. Cooling transport mechanism. 3,779,034, 12-18-73, Cl. 62-381.000.
Morgan, Huw C.: *See—*
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Morgan, Ian H., to Texas Instruments, Incorporated. Junction field effect transistor and method of fabrication. 3,725,136, 4-3-73, Cl. 148-1.500.
Morgan, James B.: *See—*
Kurtenbach, Aelred J.; Morgan, James B.; and Espeset, Paul A., 3,768,188.
Morgan, James E., to PPG Industries, Inc. Process for preparing silica pigment. 3,730,749, 5-1-73, Cl. 106-288.00b.
Morgan, James Gail; and Schumacher, Delmar Francis, to Du Pont de Nemours, E. I., and Company. Conductive carbon antistatic backing for photographic film. 3,753,765, 8-21-73, Cl. 117-76.00f.
Morgan, James K. Game call. 3,722,133, 3-27-73, Cl. 46-178.000.
Morgan, Joe M.: *See—*
Blakeley, Clyde A.; and Morgan, Joe M., 3,773,197.
Morgan, John A.: *See—*
Whitson, Bobbie L.; and Morgan, John A., 3,780,761.
Morgan, John A. Marine anti-corrosion anode structure. 3,726,779, 4-10-73, Cl. 204-197.000.
Morgan, John D., to General Motors Corporation. Flexible torque transmitting unit. 3,726,133, 4-10-73, Cl. 73-118.000.
Morgan, John Edward: *See—*
Schlueter, David F.; and Morgan, John Edward, 3,775,935.
Morgan, Joseph S.: *See—*
Hunt, Ronald E.; and Morgan, Joseph S., 3,750,797.
Morgan, Kenneth A., to Universal Oil Products Company. Solvent extraction of germanium from alum solution. 3,760,060, 9-18-73, Cl. 423-89.000.
Morgan, Kenneth A., to Universal Oil Products Company. Solvent extraction of germanium from alum solution. 3,764,652, 10-9-73, Cl. 423-89.000.
Morgan, Lee W.; and Desai, Shrikrishna N., to Johnson, S. C., & Son, Inc. Fabric treating shampoo compositions. 3,723,323, 3-27-73, Cl. 252-90.000.
Morgan, Lee W.; and Rogers, John R., to Johnson, S. C., & Son, Inc. Fabric treating shampoo compositions. 3,723,358, 3-27-73, Cl. 252-546.000.
Morgan, Marcus S.: *See—*
Mihelic, Edward L.; and Morgan, Marcus S., 3,749,688.
Morgan, Martin J.; Evans, William C.; Rappaport, Richard A.; and Gutzmer, Alfred N., to Sybron Corporation. Amplifier systems and modulation. 3,720,873, 3-13-73, Cl. 324-158.00t.
Morgan, Marvin R.: *See—*
Hill, Homer E., 3,746,419.
Morgan Mills Incorporated: *See—*
Morgan, Edwin, 3,747,316.
Morgan, Neal O.: *See—*
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Morgan, Norman D.: *See—*



Costa, Robert B.; Wichman, William J.; and Morgan, Norman D., 3,764,073.
Morgenroth, Henri. Carburetor for automotive engines with a meter-



Mori, Hiroshi; Yamamoto, Michio; Namie, Koshi; and Kimoto, Toru,

Costa, Robert B.; Wichman, William J.; and Morgan, Norman D., 3,764,073.
Morgan, Ora B., Jr., to United States of America, Atomic Energy Commission. Multi-ampere duopigatron ion source. 3,740,554, 6-19-73, Cl. 250-41.9se.
Morgan, Paul E., to USM Corporation. Automatic progressive hem forming mechanism. 3,776,156, 12-4-73, Cl. 112-141.000.
Morgan, R. A., Co., Inc.: *See—*
Rinehart, Louis P., 3,751,152.
Morgan Refractories, Limited: *See—*
Steen, William John, 3,759,725.
Morgan, Robert A.; and Rishel, Paul A., to Maschinenfabrik Gehring KG. Universal transducer mounting bracket and assembly. 3,714,619, 1-30-73, Cl. 340-8.00s.
Morgan, Robert D. Artificial leg. 3,707,731, 1-2-73, Cl. 3-21.000.
Morgan, Robert D., to Carrier Corporation. Refrigeration system including refrigerant metering means. 3,732,704, 5-15-73, Cl. 62-202.000.
Morgan, Robert E.; and Palma, James D., to General Motors Corporation. Rotary engine oil metering pump. 3,764,234, 10-9-73, Cl. 418-84.000.
Morgan, Robert H. Treestump removing machine. 3,760,515, 9-25-73, Cl. 37-2.00r.
Morgan, Robert L.: *See—*
Evers, Ernst T.; and Morgan, Robert L., 3,780,967.
Morgan, Robert L. Container partitions. 3,767,106, 10-23-73, Cl. 229-15.000.
Morgan, Robert W. Repositionable T-shaped back cleaning device. 3,750,226, 8-7-73, Cl. 15-187.000.
Morgan, Roy E., Jr.: *See—*
Allison, Ronald D.; Rey, Louis G.; and Morgan, Roy E., Jr., 3,728,308.
Morgan, Stephen William Kenneth, to Metallurgical Processes Limited and Imperial Smelting Corporation, (N.S.C.) Limited. Operation of a blast furnace. 3,764,301, 10-9-73, Cl. 75-87.000.
Morgan, Thomas E., Jr.: *See—*
Morgan, Thomas E., Sr.; and Morgan, Thomas E., Jr., 3,752,062.
Morgan, Thomas E., Sr.; and Morgan, Thomas E., Jr., to Friedman, Leonard. Apparatus for bonding brake linings. 3,752,062, 8-14-73, Cl. 100-93.0pb.
Morgan, Thomas Edward; Kaminski, George Frank; and Mraz, Francis J., to International Telephone and Telegraph Corporation. Split wire guide. 3,710,483, 1-16-73, Cl. 29-203.00d.
Morgan, Thomas Edward, to International Telephone and Telegraph Corporation. Cable strap with multiple tooth pawl. 3,761,999, 10-2-73, Cl. 24-16.0pb.
Morgan, Thomas R.; Low, William W.; Wamser, Christian A.; and Bruen, Charles P., to Allied Chemical Corporation. Process for the manufacture of chrome chemicals. 3,715,425, 2-6-73, Cl. 423-61.000.
Morgan, Veldon. Bridle control bit. 3,751,877, 8-14-73, Cl. 54-6.000.
Morgan, Vernon: *See—*
Coast, Geoffrey; Prince, Kenneth; Spruce, Brian; and Morgan, Vernon, 3,713,972.
Morgan, Walter A., to Esso Research and Engineering Company. Method of forming ribbed battery separators. 3,773,590, 11-20-73, Cl. 156-244.000.
Morgan, Walter C. Mailbox. 3,735,919, 5-29-73, Cl. 232-17.000.
Morgan, Walter C. Mailbox. 3,758,027, 9-11-73, Cl. 232-17.000.
Morgan, Wendell D., to Feeders Corporation. Height adjustment means. 3,734,589, 5-22-73, Cl. 312-351.000.
Morgan, William A., to Brown & Root, Inc. Method for connecting pipelines. 3,733,676, 5-22-73, Cl. 29-407.000.
Morgan, William L.: *See—*
Wilson, Donald R.; and Morgan, William L., 3,774,598.
Morgan, William R., Jr. Flooring system. 3,713,264, 1-30-73, Cl. 52-489.000.
Morgan, Willis Ema. Non-slip retention means for use on a wearer's head. 3,741,202, 6-26-73, Cl. 128-76.00b.
Morgan, Willis Ema. Non-slip retention means for use on a wearers head. 3,776,244, 12-4-73, Cl. 132-46.00r.
Morgan-Voyce, Albert M., to Honeywell Information Systems, Inc. Apparatus for forming a multiple image laser optical memory. 3,721,965, 3-20-73, Cl. 340-174.0yc.
Morganite Ceramic Fibres Limited: *See—*
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Morganite Incorporated: *See—*
Respess, John H., 3,763,556.
Morganite Research and Development Limited: *See—*
Dorril, David Trevor; and Cooper, Charles Frank, 3,719,553.
Morgans, David Evan Bryan, to Imperial Chemical Industries Limited. Filled polytetrafluoroethylene compositions. 3,772,249, 11-13-73, Cl. 260-41.00b.
Morganson, Peter H.: *See—*
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Morganti, Victor M., to Honeywell Inc. Dynamic scanning algorithm for a buffered printer. 3,728,684, 4-17-73, Cl. 340-172.500.
Morgenroth, Henri. Carburetor for automotive engines with a metering suction partly derived from a laminar air flow matrix. 3,730,496, 5-1-73, Cl. 261-23.00a.
Morgenroth, Henri. Heat deflector shield for fuel metering device or the like. 3,769,954, 11-6-73, Cl. 123-198.00e.
Morgenstern, Arthur Stanley, to Procter & Gamble Company, The. Scouring cleanser composition. 3,715,314, 2-6-73, Cl. 252-95.000.
Morgenstern, David. Filtered cigarettes. 3,756,250, 9-4-73, Cl. 131-10.300.
Morgenstern, Harold L., to First National Bank of Missoula of Montana. Method and apparatus for mixing and transporting concrete. 3,767,170, 10-23-73, Cl. 259-148.000.
Morgenthaler, Frederic R., to Chu Associates, Inc. Electromagnetic wave-elastic wave transducer and method. 3,753,163, 8-14-73, Cl. 333-30.00r.
Morgenthaler, Frederic R., to Chu Associates, Inc. Tunable variable bandwidth magneto-elastic filter and method. 3,753,165, 8-14-73, Cl. 333-17.000.
Morgese, Nicholas V., to Continental Can Company, Inc. Blister pack carrier. 3,724,653, 4-3-73, Cl. 206-65.00r.
Morgolenko, Anatoly Sergeevich: *See—*
Fedosenko, Igor Grigorievich; Kononenko, Vadim Grigorievich; Morgolenko, Anatoly Sergeevich; and Selivanov, Gennady Dmitrievich, 3,776,020.
Morgott, Horst; and Schmalzl, Dieter, to Siemens Aktiengesellschaft. Control unit for electronic systems. 3,763,451, 10-2-73, Cl. 335-206.000.
Morgren, C. A., Limited: *See—*
Pass, Peter John; Carr, Douglas Wesley; Knight, Rogers Evert; Gelder, Ronald; Morrell, Moreton; Smith, Leslie William; Harris, Leonard Frederick; and Van Bastelaere, Karel Leon August, 3,741,236.
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Mori, Akikazu; Nara, Hideo; Kataoka, Toshiki; Kashiwa, Norio; Tokuzumi, Tadaichi; Horota, Yutaka; and Fujimura, Hiroshi, to Mitsui Petrochemical Industries, Ltd. Process for the preparation of ethylene polymer or copolymer. 3,781,253, 12-25-73, Cl. 260-85.0r.
Mori, Akira; Nagata, Yozi; and Nakagawa, Hiromi, to Kao Soap Co., Ltd. Deodorizing method by film and steam distillation. 3,737,378, 6-5-73, Cl. 203-89.000.
Mori, Atsushi: *See—*
Suzuki, Hideo; Yoshida, Harumi; Ozawa, Yoshiko; Kamibayashi, Akira; Sato, Munetaka; Mori, Atsushi; and Endo, Makoto, 3,767,526.
Mori, Chiharo, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera having automatic exposure and automatic flash controls. 3,757,654, 9-11-73, Cl. 95-10.0ce.
Mori, Chiharu: *See—*
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Mori, Chiharu, to Asahi Kogaku Kogyo Kabushiki Kaisha. Shutter-control of single-lens reflex cameras. 3,726,196, 4-10-73, Cl. 95-10.0ct.
Mori, Chiharu, to Asahi Kogaku Kogyo Kabushiki Kaisha. Dual light-measurement and compensation circuitry for cameras. 3,781,119, 12-25-73, Cl. 356-222.000.
Mori, Chiharu, to Asahi Kogaku Kogyo Kabushiki Kaisha. Electronic shutter-control circuits for cameras. 3,781,551, 12-25-73, Cl. 250-214.00p.
Mori, Eiko: *See—*
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Mori, Hideo; and Garcia, Joseph M., to Abex Corporation. Thin film polarization rotation microwave reflectors. 3,737,904, 6-5-73, Cl. 343-18.00b.
Mori, Hirokazu: *See—*
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Mori, Hiroshi; Yamamoto, Michio; and Namie, Koshi, to Teijin Hercules Chemical Company, Limited. Stabilization of thermally unstable DMT by certain phosphonic acid derivatives. 3,742,025, 6-26-73, Cl. 260-475.00b.



Mori, Hiroshi; Yamamoto, Michio; Namie, Koshi; and Kimoto, Teruhisa, to Teijin Hercules Chemical Company, Limited. Stabilization of thermally unstable DMT with BHET. 3,742,026, 6-26-73, Cl. 260-475.00b.
Mori, Hiroshi; Yamamoto, Michio; Kondo, Chitoshi; Kimoto, Teruhisa; Takahashi, Satoshi; and Ochi, Toshiyuki, to Teijin Hercules Chemical Company, Limited. Stabilization of thermally unstable DMT by mixture of $C_1$-$C_4$ alkanol material and certain cobalt salt material. 3,742,027, 6-26-73, Cl. 260-475.00b.
Mori, Hiroshi; Wakasa, Yutaka; and Uchiike, Hisayuki, to Yokogawa Electric Works, Ltd. Circuitry for transmitting pulses with ground isolation but without pulse waveform distortion. 3,760,198, 9-18-73, Cl. 307-268.000.
Mori, Ikuo, to Nippon Kogaku K.K. Retrofocus type ultra-wide angle lens. 3,728,011, 4-17-73, Cl. 350-214.000.
Mori, Ikuo, to Kabushiki Kaisha Komatsu Seisakusho. Method for attaching back-hoe. 3,728,768, 4-24-73, Cl. 29-148.300.
Mori, Iwao, to Sony Corporation. Plural-microscope with light indicator. 3,734,593, 5-22-73, Cl. 350-31.000.
Mori, Kan; Imaizumi, Fumitake; Sato, Hisaya; Nagaoka, Isao; Hirayanagi, Shigetoshi; Shibata, Toru; and Kawatani, Shigeo, to Japan Synthetic Rubber Co., Ltd. Preparation of cis-1,4-polyisoprene. 3,709,851, 1-9-73, Cl. 260-94.300.
Mori, Kaoru: *See—*
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Yamamoto, Hisao; Inaba, Shigeho; Okamoto, Tadashi; Hirohashi, Toshiyuki; Ishizumi, Kikuo; Yamamoto, Michihiro; Maruyama, Isamu; Mori, Kazuo; and Kobayashi, Tsuyoshi, 3,732,285.
Yamamoto, Hisao; Inaba, Shigeho; Hirohashi, Toshiyuki; Yamamoto, Michihiro; Ishizumi, Kikuo; Akatsu, Mitsuhiro; Maruyama, Isamu; Kume, Yoshiharu; Mori, Kazuo; and Izumi, Takahiro, 3,752,806.
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Mori, Keijiro; Sugahara, Akito; Yamamoto, Kozo; and Takeda, Yukio, to Matsushita Electric Industries Co., Ltd. Magnetic-recording and reproducing apparatus which is automatically placed in forward mode after response to a previous control signal. 3,752,937 8-14-73, Cl. 179-100.20s.
Mori, Kijuu: *See—*
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Mori, Kiroyuki: *See—*
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Mori, Kunio; and Shirage, Yoshio, to Nippon Kokan Kabushiki Kaisha. Slidable mobile bridge. 3,715,769, 2-13-73, Cl. 14-71.000.
Mori, Masanori: *See—*
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Mori, Shigejiro; Uchikawa, Hiroshi; and Uchida, Shunichiro, to Onoda Cement Company, Limited. Rapid hardening Portland cement clinker composition. 3,767,435, 10-23-73, Cl. 106-89.000.
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Mori, Takaaki; Higuchi, Hisayuki; and Uehara, Keijiro, to Hitachi, Ltd. Washed emitter method for improving passivation of a transister. 3,759,761, 9-18-73, Cl. 148-187.000.
Mori, Takaazu, to Toyota Jidosha Kogyo Kabushiki Kaisha. Abrupt brake application indicator for a motor vehicle. 3,708,782, 1-2-73, Cl. 340-66.000.
Mori, Takakazu: *See—*
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Mori, Tetsuo; Nishimura, Hiromi; Yoshino, Hideaki; and Morimoto, Masami, to Matsushita Electric Works, Ltd. Flat type balanced armature relay. 3,748,607, 7-24-73, Cl. 335-125.000.
Mori, Toshihiro; and Ando, Seigo, to Nippon Kokan Kabushiki Kaisha. Phase sensitive eddy current defect detector utilizing frequency doubling of detected signal prior to phase detection. 3,721,896, 3-20-73, Cl. 324-37.000.
Mori, Toshio: *See—*
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Mori, Toshiyuki; Okada, Takeshi; Konoshita, Kunio; and Ouchi, Teruo, to Olympus Optical Co., Ltd. Endoscope. 3,773,039, 11-20-73, Cl. 128-6.000.
Mori, Tushiyoki, to Olympus Optical Co., Ltd. Bendable tube of an endoscope. 3,739,770, 6-19-73, Cl. 128-6.000.
Mori, Yasuki: *See—*
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Mori, Yoichi, to Nissan Motor Company, Limited. Electronic governor for automotive automatic transmission. 3,732,754, 5-15-73, Cl. 74-866.000.
Mori, Yoichi, to Nissan Motor Company, Limited. Hydrostatic power transmission system. 3,740,951, 6-26-73, Cl. 60-465.000.
Mori, Yoichi, to Nissan Motor Company, Limited. Hydrostatic power transmission system. 3,740,953, 6-26-73, Cl. 60-489.000.
Mori, Yoichi, to Nissan Motor Company, Limited. Hydromechanical power transmission system. 3,766,804, 10-23-73, Cl. 74-687.000.
Mori, Yoshio; Sato, Yoshihito; and Takahashi, Kentaro, to Nippon Piston Ring Kabushiki Kaisha. Facing materials for an internal combustion engine cylinder and a cooperating piston ring. 3,731,941, 5-8-73, Cl. 277-235.00r.
Mori, Yoshitaka, to Mitsubishi Jukogyo Kabushiki Kaisha. Fuel injection nozzle. 3,735,930, 5-29-73, Cl. 239-419.500.
Mori, Yubi; and Mizu, Kouichi, to Matsushita Electric Industrial Co., Ltd. Electrically-powered device for exerting rotational impact force to a fastener element. 3,760,886, 9-25-73, Cl. 173-93.600.
Mori, Yubi; Tanaka, Tamufsu; Hara, Shoji; Iwashita, Masakatu; and Igaki, Yasuyuki, to Matsushita Electric Industrial Co. Ltd. Fastener feeding apparatus. 3,779,422, 12-18-73, Cl. 221-10.000.
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Morifuji, Noboru: *See—*
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Morii, Eiji; Furuya, Kazuya; Sato, Shui; and Wakabayashi, Yasuo, to Konishiroku Photo Industry Co. Ltd. Photographic gelatinous coating composition. 3,762,924, 10-2-73, Cl. 96-94.000.
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Morikawa, Hiroyuki; Nakamura, Akiya; Tamura, Noriyoshi; and Yamagishi, Kazuo, to Mitsubishi Petrochemical Company, Limited. Process for producing cyclododecatrienes. 3,758,621, 9-11-73, Cl. 260-666.00b.
Morikawa, Mitsuaki, to Ise Electronics Corporation. Dispersion type electroluminescent elements. 3,775,631, 11-27-73, Cl. 313-108.00a.
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Morimoto, Hiroshi; Watanabe, Masazumi; and Imada, Isuke, to Takeda Chemical Industries, Ltd. Quinone derivatives. 3,728,363, 4-17-73, Cl. 260-396.00r.
Morimoto, Hiroshi; and Tatsumi, Masanori, to Toray Industries, Inc. Process for the separation of styrene from thermally cracked petroleum by polymer inhibition and extractive distillation. 3,763,015, 10-2-73, Cl. 203-9.000.
Morimoto, Ikohisa; Fujimoto, Hiroaki; Yamada, Kiyoshi; and Hisano, Kowashi, to Matsushita Electric Works, Ltd. Electromagnetic relay. 3,747,035, 7-17-73, Cl. 335-106.000.
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Morimoto, Kazuo; and Naito, Etsuo, to Eisai Kabushiki Kaisha. Certain hydroxamic acids as growth promoting agents. 3,714,361, 1-30-73, Cl. 424-320.000.
Morimoto, Mamoru; Saito, Masahiro; and Goukon, Atsushi, to Kao Soap Co., Ltd. Process for polymerizing unsaturated fatty acids and their esters. 3,773,806, 11-20-73, Cl. 260-407.000.
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Morimoto, Yasuo, to Daida Chemical Engineering Corporation. Regeneration of sulfuric acid pickling waste. 3,743,484, 7-3-73, Cl. 23-306.000.
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Morin, Eugene P. Molded golf shoe heel and instep structure and method of making same. 3,739,499, 6-19-73, Cl. 36-2.5ah.
Morin, Gerard, to Societe Anonyme DBA. Double universal joint. 3,747,368, 7-24-73, Cl. 64-21.000.
Morin, Gerard, to Societe Anonyme DBA. Extensible universal joint. 3,747,369, 7-24-73, Cl. 64-21.000.
Morin, Henri. Orthopedic treatment table. 3,741,200, 6-26-73, Cl. 128-71.000.
Morin, Jean-Yves Henri, to Etat Francais. Cavitation detector. 3,757,288, 9-4-73, Cl. 340-5.00r.
Morin, Joseph C.: *See*—
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Morine, Richard L.; and Hokes, James J., to Fedco, Inc. Dispensing pump assembly for bakery materials. 3,715,061, 2-6-73, Cl. 222-334.000.
Morine, Richard L.; and Hokes, James J., to Fedco, Inc. Dispensing head and conveyor. 3,722,560, 3-27-73, Cl. 141-172.000.
Morine, Richard L.; and Hokes, James J., to Tedco, Inc. Direct transfer seeder. 3,734,356, 5-22-73, Cl. 222-199.000.
Morine, Richard L.; and Hokes, James J., to Fedco, Inc. Apparatus for dispensing a plurality of discrete quantities of fluent material. 3,760,989, 9-25-73, Cl. 222-276.000.
Morino, Hideki: *See*—
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Morino, Hideki; and Watanabe, Katsunori, to Toyota Jidosha Kogyo Kabushiki Kaisha. Neutral position detector switch and actuating means for vehicle transmission. 3,748,417, 7-24-73, Cl. 200-61.910.
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Morio, Minoru; Suzuki, Tadahiko; and Nakagawa, Yutaka, to Sony Corporation. High and low voltage regulating circuit. 3,742,242, 6-26-73, Cl. 307-17.000.
Morioka, Hiroaki: *See*—
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Morisawa, Nobuo, to K.K. Morisawa Shashin Shokujiki Seisakusho. Photo-typesetting apparatus for musical notes. 3,730,062, 5-1-73, Cl. 95-4.50r.
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Morishima, Tsuyoshi; and Shimizu, Rentaro, to Kabushiki Kaisha Ricoh. Treating solution for planographic printing plates. 3,769,043, 10-30-73, Cl. 106-2.000.
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Morita, Houyo; and Okino, Kazuyoshi. Combination of archery bow and vibration dampener. 3,752,142, 8-14-73, Cl. 124-24.000.
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Morita, Katsumi, to Hakamada Kinzoku Kogyo Kabushiki Kaisha. Hard chrome plated vibrating board of an ultrasonic-wave washer. 3,730,489, 5-1-73, Cl. 259-72.000.
Morita, Katsuyuki: *See*—
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Morita, Kazutoshi, to Sumitomo Electric Industries, Ltd. Method of granulating powder. 3,739,048, 6-12-73, Cl. 264-.500.
Morita, Ken-Ichi; and Kobayashi, Tsuneo, to Toray Industries, Inc. 3-butene-3-cyano-1, 2,-dicarboxylic acid esters. 3,708,516, 1-2-73, Cl. 260-464.000.
Morita, Koh; and Shimizu, Itsuo, to Chisso Corporation. Method of plating using a protective coating on an electroplating work support. 3,728,232, 4-17-73, Cl. 204-30.000.
Morita, Koji: *See*—
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Moritz, Gunther, to Vereinigte Aluminium-Werke Aktiengesellschaft. Continuous casting of metallic elements. 3,726,336, 4-10-73, Cl. 164-283.000.
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Moriya, Nobuyoshi, to Mansei Kogyo Kabushiki Kaisha. Piezoelectric gas lighter. 3,764,256, 10-9-73, Cl. 431-255.000.
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Moriyama, Inao, to Canon Kabushiki Kaisha. Variable sector shutter device. 3,775,002, 11-27-73, Cl. 352-216.000.
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Moriyama, Yasuhiro; and Okamoto, Takafumi, to Nitto Electric Industrial Co., Ltd. Method for preparing laminated film of polymeric substances. 3,769,137, 10-30-73, Cl. 156-309.000.
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Morley, Edwin R., to AMF Incorporated. Synchronous motor with improved starting characteristics. 3,746,900, 7-17-73, Cl. 310-41.000.
Morley, Edwin R.; and Jacobs, Roger E., to AMF Incorporated. Synchronus motor construction with directional control. 3,751,697, 8-7-73, Cl. 310-41.000.
Morley, Edwin Richard; and Schmidt, Gerald Frederick, to AMF Incorporated. One-way directional control means for synchronous A.C. motors. 3,751,695, 8-7-73, Cl. 310-41.000.
Morley, Fred W. Automatic sandwich grill. 3,776,124, 12-4-73, Cl. 99-335.000.
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Morley, Michael; and Knott, Allan Roy, to International Nickel Company, Inc., The. Nickel-chromium-iron alloys. 3,758,295, 9-11-73, Cl. 75-122.000.
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Morlock, Elizabeth Benz; Albright, Jay Donald; and Goldman, Leon, to American Cyanamid Company. Derivatives of 4a,9b-dihydro-8-9b-dimethyl-dibenzofuran-3(4H)-one. 3,741,992, 6-26-73, Cl. 260-346.20m.
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Morooka, Yasuo; Tanuma, Masaya; and Onari, Mikihiko, to Hitachi, Ltd. Thickness control apparatus for rolling mill. 3,727,441, 4-17-73, Cl. 72-6.000.
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Morozumi, Yoshimi. Automatic stop lamp device of a car. 3,735,345, 5-22-73, Cl. 340-62.000.
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Morreale, Anthony P., to Computer Devices Corporation. Tooth arrangement for a stepping motor. 3,751,696, 8-7-73, Cl. 310-49.000.
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Morrey, Walter T., to Bendix Corporation, The. CRT-sweep return circuit. 3,739,224, 6-12-73, Cl. 315-27.0td.
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Morris, Arthur Leslie; Colclough, Terence; and Brookes, Ronald, to Esso Research and Engineering Company. Process for preparing phosphorothinyl disulphides. 3,770,854, 11-6-73, Cl. 260-985.000.
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Morris, Derek S., to United States of America, Army. Data diversity combining technique. 3,781,794, 12-25-73, Cl. 340-146.10r.
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Morris, Errick G., to Eaton Yale & Towne, Inc. Vehicle control mechanism. 3,720,423, 3-13-73, Cl. 280-87.00a.
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Morris, Francis Edwin. Coupler for trailer hitch or the like. 3,759,549, 9-18-73, Cl. 280-512.000.
Morris, Geoffrey William, to Rolls-Royce Limited. Gas turbine ducted fan engines for aircraft. 3,750,983, 8-7-73, Cl. 244-54.000.
Morris, Gerald H., Jr., to Hutton, Larry D. and Schlotterbeck, Paul W. Anti-glare sunshade. 3,710,392, 1-16-73, Cl. 2-12.000.
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Morrison, John Malcolm, to Ferranti Limited. Electric analogue calculating circuits. 3,736,415, 5-29-73, Cl. 235-193.000.
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Morrison, John R. Method of making decorative articles. 3,770,535, 11-6-73, Cl. 156-63.000.
Morrison, Joseph N., Jr., to Dravo Corporation. Pollution control system for discharging operations of coke oven. 3,746,626, 7-17-73, Cl. 202-263.000.
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Morrison, Robert C.; and Kamienski, Conrad W., to Lithium Corporation of America. Preparation of polymers. 3,725,368, 4-3-73, Cl. 260-84.700.
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Morrison, Walter C., to Harris-Intertype Corporation. Method of reducing sound level of single facer machine. 3,730,803, 5-1-73, Cl. 156-205.000.
Morrison, Wilbur J., to Bell & Howell Company. Gripper jaw insert mistake detector. 3,744,787, 7-10-73, Cl. 270-56.000.
Morrison, Willard L., to Money, Maxine B. Anti-bacterial menses absorbing pads. 3,762,415, 10-2-73, Cl. 128-290.000.
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Morrisroe, John J.; and Banigan, Thomas F., to Pilot Chemical Company. 1,3,4 Triols and derivatives thereof. 3,778,482, 12-11-73, Cl. 260-635.00r.
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Morrissey, William D. Cleaner device for balls. 3,740,784, 6-26-73, Cl. 15-21.00a.
Morrissey, William J., to General Instrument Corporation. Glass for coating semiconductors, and semiconductors coated therewith. 3,752,701, 8-14-73, Cl. 117-201.000.
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Morrow, Dennis W., to Eagle Industries, Inc. Boom assembly for lift and tow truck. 3,780,878, 12-25-73, Cl. 212-59.00r.
Morrow, Jack H.; and McCarthy, James A., said McCarthy assor. to Sylvester, Rowland L. Rail for use in strapping loads of multiple parts. 3,727,543, 4-17-73, Cl. 100-1.000.
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Morrow, Warren P., to United States of America, Army. Mine fuze. 3,717,094, 2-20-73, Cl. 102-19.200.
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Morrow, William B., to Aqua-West, Incorporated. Receptacle type humidifier for air conveying ducts and the like. 3,770,254, 11-6-73, Cl. 261-105.000.
Morrow, William J.; and Davenport, James M., to Sperry Rand Corporation. Power transmission. 3,756,262, 9-4-73, Cl. 137-38.000.
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Morse, Donald B.; and Pribish, Bernard A., to Kemlite Corporation. Machine for trimming the edges of panels. 3,769,864, 11-6-73, Cl. 83-79.000.
Morse, Douglas C. Combinational book for both normal reading and panoramic display. 3,738,686, 6-12-73, Cl. 283-63.000.
Morse, Glenn B. Drill press attachment assembly. 3,709,622, 1-9-73, Cl. 408-20.000.
Morse, Harold H.; Easterday, Cecil L.; deceased (by Easterday, Dorothy E.; representative, Washington Court House); Plock, Layne S.; and Morgan, Fred K., to United States Steel Corporation. Method for producing refractory metals. 3,736,132, 5-29-73, Cl. 75200.000.
Morse, Harold H.; Plock, Layne F.; and Morgan, Fred Keith, to National Distillers and Chemical Corporation. Reactor for preparing an easily compactable material. 3,765,653, 10-16-73, Cl. 259-3.000.
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Morse, John E., to Eastman Kodak Company. Apparatus for recording images appearing on a display surface. 3,743,412, 7-3-73, Cl. 355-18.000.
Morse, John Edwin, to Eastman Kodak Company. Device for processing photographic material. 3,728,953, 4-24-73, Cl. 95-93.000.
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Morse, John F. Explosion-safe boat hull construction. 3,765,041, 10-16-73, Cl. 9-6.000.
Morse, Leighton L., to United States of America, Navy. High resolution recorder. 3,754,282, 8-21-73, Cl. 346-139.00c.
Morse, Lewis D.; and Hammes, Paul A., to Merck & Co., Inc. Stabilized beverages. 3,734,742, 5-22-73, Cl. 99-28.000.



Morse, Lynn H.; and Nielsen, Anker J., Jr. Locking bolts for shut-off valves and switches. 3,714,802, 2-6-73, Cl. 70-34.000.
Morse, Milton. Chain shifting means for derailleur speed changing devices. 3,748,916, 7-31-73, Cl. 74-217.00b.
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Morse, Stephan L. Device for reducing severity of impact forces. 3,762,505, 10-2-73, Cl. 188-1.00c.
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Mort, Edgar A. Roof truss forming machine. 3,771,439, 11-13-73, Cl. 100-100.000.
Mort, Joseph; Sharp. James H.; Bean, Lloyd F.; Chen, Inan; and Emerald, Robert L., to Xerox Corporation. Ambipolar electrophotographic plate. 3,764,315, 10-9-73, Cl. 96-1.500.
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Mortell, Charles H. Method and apparatus for electrolytically recovering metals. 3,718,552, 2-27-73, Cl. 204-105.00r.
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Morton, Bernard W.; and Morton, Willard E., to Environmental Industries, Inc. Steam humidifier with centrifugal separator. 3,724,180, 4-3-73, Cl. 55-410.000.
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Morton, Donald E.; and Leiser, Roger S., to Staley, A. E., Manufacturing Company. Rejuvenation of deteriorated anion exchange resins occluded with organic impurities. 3,762,948, 10-2-73, Cl. 127-46.00a.
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Mottet, Arthur Louis: *See—*
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Mottez, Paul; and Lejeune, Regis, to Societe Chimique des Charbonnages. Plasticisers for vinyl polymers and processes for their production. 3,714,053, 1-30-73, Cl. 252-182.000.
Mottez, Paul; and Lejeune, Regis, to Societe Chimique des Charbonnages C.d.F. Chimie. Method for direct preparation of anti-stain plasticizer composition. 3,755,191, 8-28-73, Cl. 252-364.000.
Mottier, Francois: *See—*
Dandliker, Rene; and Mottier, Francois, 3,776,636.
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Mottier, Francois, to Brown, Boveri & Company Limited. Apparatus for the holographic analysis of oscillating objects. 3,719,076, 3-6-73, Cl. 73-71.300.
Mottl, George: *See—*
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Mottoon, Robert T.: *See—*
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Motz, Carl H.; and Anthony, Russell W., to Lear Siegler, Inc. Gear rolling machine. 3,712,094, 1-23-73, Cl. 72-21.000.
Motz, Carl H., to Siegler, Lear, Inc. Rolling of gear locks. 3,717,019, 2-20-73, Cl. 72-102.000.
Motz, Carl H.; Anthony, Russell W.; and Peterson, George C., to Lear Siegler, Inc. Gear rolling machine. 3,738,140, 6-12-73, Cl. 72-94.000.
Motz, Joseph W.; Dick, Charles E.; Placious, Robert C.; and Sparrow, Julian H., to United States of America, Commerce. Method of producing an intense, high-purity K X-ray beam. 3,752,989, 8-14-73, Cl. 250-401.000.
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Motz, Kaye L.; and Friend, John, to Continental Oil Company. Process for the production of trialkyl aluminum compounds. 3,712,923, 1-23-73, Cl. 260-448.00a.
Motz, Phillip R., to General Motors Corporation. Vehicle seat belt warning and control system. 3,742,448, 6-26-73, Cl. 340-52.00e.
Motzer, Alfred E., to Hobson and Motzer. Apparatus and method for cutting and forming objects. 3,728,888, 4-24-73, Cl. 72-325.000.
Motzer, Alfred E.; and Zollinger, Henry, Jr., to Hobson and Motzer. Forming method and machine. 3,729,977, 5-1-73, Cl. 72-405.000.
Mouillon, Paul, to Barthalon, Maurice. Switching system for a moving unit guided along a track. 3,774,544, 11-27-73, Cl. 104-130.000.
Mouis, Louis, to Furnas Electric Company. Thermal overload device. 3,737,727, 6-5-73, Cl. 317-40.00a.
Mould, Henry Manifold, to Perkin-Elmer Limited. Optical beam switching devices utilizing a pair of plane mirrors. 3,733,131, 5-15-73, Cl. 356-100.000.
Mouldings, Inc.: *See—*
Rash, James T., 3,713,421.
Moulds, Gordon M., to Du Pont de Nemours, E. I., and Company. Process for preparing porous aromatic polyamide fibers. 3,760,054, 9-18-73, Cl. 264-210.00f.
Moulds, John W.; and Storey, Edwin C., to General Motors Corporation. Pressure-inductance transducer. 3,730,146, 5-1-73, Cl. 123-32.0ea.
Moulin, Jean; and Dallet, Bernard, to Societe de Traitements Electrolytiques et Electrothermiques. Brazing press particularly for brazing a pressing including curved portions to a matching plate. 3,754,109, 8-21-73, Cl. 219-9.500.
Moulin, Michel, to Thomson-CSF. Process for epitaxially growing semiconductor crystals. 3,718,511, 2-27-73, Cl. 148-171.000.
Moulin, Robert L., to Hughes Aircraft Company. Environment proof connector. 3,725,845, 4-3-73, Cl. 339-49.00r.
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Moulton, Eric W.: *See—*
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Moulton, James A., to North American Aviation, Inc. Monopulse receiver system. 3,740,750, 6-19-73, Cl. 343-119.000.
Moulton, James A., to North American Rockwell Corporation. Phase-coded pulse compression apparatus. 3,757,331, 9-40-73, Cl. 343-16.00m.
Moulton, Marc L.: *See—*
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Moulton, Marc L., to United States of America, Navy. Digital phase discriminators and video gate generators. 3,775,558, 11-27-73, Cl. 178-6.800.
Moulton, Robert James: *See—*
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Mounce, William R., to Cities Service Research & Development Company. Burning unconverted H-oil residual. 3,708,569, 1-2-73, Cl. 423-574.000.
Mounce, William R., to Cities Service Research & Development Company. Process for semi-continuous regeneration of catalyst with wash liquid in a closed system. 3,772,211, 11-13-73, Cl. 252-414.000.
Mounier, Francois: *See—*
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Mount, Alfred G., to Borg-Warner Corporation. Rotary sliding vane compressor with hydrostatic bearings. 3,744,942, 7-10-73, Cl. 418-76.000.
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Mount, Robert E.; De Gelleke, Gerrit; and Pundyk, Joseph, to Midland-Ross Corporation. Coil and mandrel separating machinery. 3,718,302, 2-27-73, Cl. 242-81.000.
Mount, Robert E.; De Gelleke, Gerrit; and Pundyk, Joseph, to Midland-Ross Corporation. Turnstile-type coil-gathering machine. 3,718,303, 2-27-73, Cl. 242-81.000.
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Mouret, Gerard Marcel. Stain removing composition. 3,725,289, 4-3-73, Cl. 252-95.000.
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Mouri, Katsuo: *See—*
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Mouri, Katsuo; and Miyazaki, Gentaro, to Hitachi, Ltd. Phase detector. 3,761,608, 9-25-73, Cl. 178-5.4sy.
Mourier, Georges: *See—*
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Moussoulos, Lucas Sofoclis. Process of producing ferro-nickel in a rotary furnace including pelletizing and pre-reducing ore. 3,746,533, 7-17-73, Cl. 75-3.000.
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Mouttet, Henri; and Lafortune, Gerard, to Societe Nationale Industrielle Aerospatiale. Mechanical transmission relay for a control facility comprising a manual element and a servomotor, and its use in aircraft control systems. 3,750,984, 8-7-73, Cl. 244-7600r.
Movchan, Boris Alexeevich: *See—*
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Mowat, Geoffrey C. Guiding devices. 3,718,896, 2-27-73, Cl. 340-1.00r.
Mowbray, Dorian Farrar: *See—*
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Mowdood, Syed K.; and Gebhart, Charles J., to Goodyear Tire & Rubber Company, The. Vinyl chloride polymers having improved thermal stability and method of making. 3,719,624, 3-6-73, Cl. 260-23.0xa.
Mowery, James E., to Sta-Rite Industries, Inc. Clamping device for flexible hose. 3,773,290, 11-20-73, Cl. 251-9.000.
Mowid Anstalt: *See—*
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Moxey, Harold J., 20% to Lee, Raymond, Organization, Inc., The and 21% to Moffett, Ray H. Air charger packer. 3,749,164, 7-31-73, Cl. 166-68.000.
Moy, Bertram K.: *See—*
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Moy, Bertram K.; Mac Kenzie, Gerald L.; and Pisacane, Frank J., to United States of America, Navy. Gas generating solid propellant containing 5-aminotetrazole nitrate. 3,734,789, 5-22-73, Cl. 149-19.000.
Moyer, Carl W., to Allied Machine Works; a division of Buckeye Supply Co. Lock means for plug valves. 3,741,519, 6-26-73, Cl. 251-111.000.
Moyer, Craig R.: *See—*
Hikido, Tsutomu; and Moyer, Craig R., 3,750,266.
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Moyer, Elton S.: *See—*
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Moyer, Harris P.; and Klein, Herbert H., to Unarco Industries, Inc. Hollow beam. 3,735,547, 5-29-73, Cl. 52-731.000.
Moyer, Joseph D.: *See—*
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Moyer, Lillian R. Hot air register. 3,715,971, 2-13-73, Cl. 98-110.000.
Moyer, Richard E. Apparatus for drying fabrics. 3,766,662, 10-23-73, Cl. 34-158.000.
Moyer, Robert C., to United States Steel Corporation. Varying angle of gas impingement in gas knife process for removing excess coating. 3,736,174, 5-29-73, Cl. 117-102.00m.
Moyer, Robert D. Load binder. 3,730,480, 5-1-73, Cl. 254-71.000.
Moyer, Ronald C.; and Uffner, Melville W. Functional surface coating compositions for cellulosic material. 3,767,439, 10-23-73, Cl. 106-210.000.
Moyer, Ross; and Karandy, Fred, to Carrier Corporation. Method for attaching solder rings to work pieces. 3,745,644, 7-17-73, Cl. 29-515.000.
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Moyer, Xopher W.; and Webb, John B., to United States of America, National Aeronautics and Space Administration. Delayed simultaneous release mechanism. 3,715,092, 2-6-73, Cl. 244-1.0ss.
Moylan, Philip John, to Bell Telephone Laboratories, Incorporated. Programmable switching array. 3,731,073, 5-1-73, Cl. 235-152.000.
Moyldew, Oraham Edward; and Shemack, John Lindsay, to Elevators Pty. Limited. Pattern generator for the control of motion of a body movable over a predetermined path. 3,777,855, 12-11-73, Cl. 187-29.00r.
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Mozley, James M.: *See—*
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Mravic, Brian; and Porter, Lew F., to United States of America, Navy. High-toughness alloy steel with improved weldability. 3,759,706, 9-18-73, Cl. 75-124.000.
Mraz, Francis J.: *See*—
Morgan, Thomas Edward; Kaminski, George Frank; and Mraz, Francis J., 3,710,483.
Mraz, Hans, to Dunlop Holdings Limited. Extrusion head. 3,709,645, 1-9-73, Cl. 425-192.000.
Mraz, Joseph, to Mraz Research Center, Ltd. Method and apparatus for grading shrimp. 3,770,123, 11-6-73, Cl. 209-107.000.
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Mrazek, James A., to United Aircraft Corporation. Starter-pawl ratchet clutch snubber. 3,727,733, 4-17-73, Cl. 192-42.000.
Mrowca, Joseph J. Cyclopentadienyl(group IV-B metal) hydrocarbyl sulfinates. 3,728,365, 4-17-73, Cl. 260-429.500.
Mrowca, Joseph J., to Du Pont de Nemours, E. I., and Company. Phosphinite, phosphonite, thiophosphinite, and dithiophosphonite compounds of palladium and platinum. 3,776,929, 12-4-73, Cl. 260-429.00r.
Mroz, Walter. Backlash-proof fishing reel. 3,721,399, 3-20-73, Cl. 242-84.51r.
Mrozek, James M., to Brady, W. H., Co. Disc for label-making machine and method of manufacture. 3,748,977, 7-31-73, Cl. 95-85.000.
Mrozek, James M.; and Heuser, Elliott G., to Brady, W. H., Co. Alignment device for individual labels. 3,761,344, 9-25-73, Cl. 161-39.000.
Mrozik, Helmut; and Hoff, Dale R., to Merck & Co., Inc. Substituted thiobenzanilides. 3,715,395, 2-6-73, Cl. 260-551.00s.
Mrozik, Helmut H., to Merck & Co., Inc. Polyhaloalkoxy salicylanilides and thios alicylanilides. 3,719,707, 3-6-73, Cl. 260-551.00s.
Mrozik, Helmut H., to Merck & Co., Inc. 4-Azosulfonamides as anthelmintics for treating liver fluke. 3,773,935, 11-20-73, Cl. 424-226.000.
Mrugala, Ronald O., to Cornelius Company, The. Sanitary valve. 3,774,632, 11-27-73, Cl. 137-315.000.
Mruk, Norbert J., to Koppers Company, Inc. Method for the oxidation of aryl methyl groups to carboxylic acid groups. 3,775,473, 11-27-73, Cl. 260-524.00m.
Mruz, John M. Foot impellent toy. 3,759,518, 9-18-73, Cl. 273-106.00b.
M.S.E. Holdings Limited: *See*—
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Mt. Pleasant, Edison P., III, to Carborundum Company, The. Hot pressing a refractory article of complex shape in a mold of simple shape. 3,717,694, 2-20-73, Cl. 264-67.000.
MTD Products, Inc.: *See*—
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Muckelrath, Ernest R., to Air Heaters, Inc. Indirect or direct fired heater. 3,779,230, 12-18-73, Cl. 126-116.00r.
Muckelroy, William L., to United States of America, Army. Method for sintering thick-film oxidizable silk-screened circuitry. 3,726,006, 4-10-73, Cl. 29-625.000.
Muckelroy, William L. Method for handling beam-lead and odd-shaped semi-conductor devices. 3,731,377, 5-8-73, Cl. 29-626.000.
Muckelroy, William L.; and Hawkins, Sandra R. Three dimensional circuit modules for thick-film circuits and the like and methods for making same. 3,755,891, 9-4-73, Cl. 29-628.000.
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Mudd, Courtney Payne, to United States of America, Health, Education and Welfare. Bacterial growth detector. 3,773,426, 11-20-73, Cl. 356-205.000.
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Mudd, Derek Percival, to Lionweld Limited. Grids, gratings or like open work support surfaces of floors. 3,765,136, 10-16-73, Cl. 52-180.000.
Mudd, Harvey, College: *See*—
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Mudde, John P.: *See*—
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Gatermann, Willi; Sorgel, Rolf; Mudder, Hinderk; Thieme, Klaus-Dietrich; Sedlacek, Herbert; Weers, Uwe; and Hermes, Heinz, 3,748,955.
Mudgett, John C.: *See*—
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Mudrak, Anton; and Zelek, John A., to Kewanee Oil Company. Disperse and direct terephthaloyl chloride-aminoazobenzene cotton dye mixture and polyester and cellulose dyeing with said mixture. 3,738,800, 6-12-73, Cl. 8-21.00c.
Mudsam, Udo; Reuter, Ernst; and Maslowski, Stefan, to Licentia Patent-Verwaltungs-G.m.b.H. Apparatus for scanning signals. 3,780,266, 12-18-73, Cl. 235-61.11d.
Muecke, Kurt H.; and Milnes, Marchall A., to Flextrac Nodwell Ltd. Mechanisms for mounting and stowing seismic vibrators on a vehicle. 3,717,217, 2-20-73, Cl. 181-.5vm.
Muecke, Thomas W.; and Brooks, Fred A., Jr., to Esso Production Company. Method and apparatus for treating subterranean formations. 3,727,691, 4-17-73, Cl. 166-295.000.
Mueh, Alfred E., to Tempo Communications, Inc. Advertising sheet carrier. 3,753,305, 8-21-73, Cl. 40-125.00r.
Muehl, Herman D. Tank vent and product valve system. 3,770,011, 11-6-73, Cl. 137-587.000.
Muehlberger, Erich, to Geotel, Inc. Plasma torch, and electrode means therefor. 3,740,522, 6-19-73, Cl. 219-121.00p.
Muehleman, Russell N.: *See*—
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Muehllehner, Gerd: *See*—
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Muehllehner, Gerd, to Nuclear-Chicago Corporation. Radiation imaging device. 3,745,345, 7-10-73, Cl. 250-71.550.
Mueller & Co., A.G.: *See*—
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Mueller, Albrecht; Osieka, Hans; and Pommer, Ernst-Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Substituted benzanilides. 3,721,709, 3-20-73, Cl. 260-558.00d.
Mueller, Alfred: *See*—
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Mueller, Allen Howard, to Daniel Industries, Inc. Method and apparatus for direct measurement of percent. 3,768,006, 10-23-73, Cl. 324-61.00r.
Mueller, Arthur C., to Bell & Howell Company. Camera shutter control system. 3,751,149, 8-7-73, Cl. 352-177.000.
Mueller, Arthur Thomas, to Gulf & Western Industrial Products Company. Feed mechanism. 3,734,265, 5-22-73, Cl. 198-24.000.
Mueller, Bernhard: *See*—
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Mueller, David Charles, to American Can Company. Display carton with locking flaps. 3,765,529, 10-16-73, Cl. 206-45.140.
Mueller, David Charles, to American Can Company. Method of forming a package. 3,772,846, 11-20-73, Cl. 53-29.000.
Mueller, David Charles, to American Can Company. Dispensing Carton. 3,773,247, 11-20-73, Cl. 229-440.00b.
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Anderson, Reg A.; Chandler, Ronald W.; Mueller, Frederick N.; and Osborn, Norbert I., 3,779,519.
Mueller, Fritz Kurt; Martin, Billy Otis; Chandler, James Parker; and Martin, Robert Cherry, to Royal Medical Corporation. Electronic, digital thermometer. 3,729,998, 5-1-73, Cl. 73-362.0ar.
Mueller, Gerhard; and Raffenberg, Hermann-Josef, to BASF Wyandotte Corporation. Apparatus for making polyurethanes. 3,753,554, 8-21-73, Cl. 259-8.000.
Mueller, Gunter H., to Ethyl Corporation of Canada Limited. Mixing nozzle. 3,770,208, 11-6-73, Cl. 239-417.300.
Mueller, Hans: *See*—
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Mueller, Helmut; and Purcell, Lawrence N. Sealed and grounded electric motor housing. 3,721,071, 3-20-73, Cl. 55-360.000.
Mueller, Helmut C., to Bigelow-Sanford, Inc. Looper and method for producing cut pile tufts. 3,752,096, 8-14-73, Cl. 112-79.00r.
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Mueller, Kurt Hugo, to Bell Telephone Laboratories, Incorporated. Automatic tap-gain incrementation of adaptive equalizers. 3,781,720, 12-25-73, Cl. 333-18.000.
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Mueller, Norman W., to Milwaukee Boiler Mnufacturing Co. Power takeoff interlock. 3,709,046, 1-9-73, Cl. 74-15.860.
Mueller, Otto. Transmission with brake operated down shifter. 3,752,275, 8-14-73, Cl. 192-4.00a.
Mueller, Otto. Variable torque transmission. 3,773,130, 11-20-73, Cl. 180-24.090.
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Mueller, Rolf K.; and Carrico, John P., to Bendix Corporation, The. Continuous injection mass spectrometer. 3,767,914, 10-23-73, Cl. 250-290.000.
Mueller, Ronald J.; and Sinko, Verl. Safety control arrangement. 3,768,956, 10-30-73, Cl. 431-20.000.
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Mueller, Walter F. Fish and bait trap. 3,748,776, 7-31-73, Cl. 43-103.000.
Mueller, Warren E.; and Yocom, David C., to Armco Steel Corporation. Collapsible truss structure. 3,760,550, 9-25-73, Cl. 52-641.000.
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Mueller, William J.; and Cuomo, Frank W., to United States of America, Navy. Sum difference transducer shading. 3,729,703, 4-24-73, Cl. 340-6.00r.
Mueller, William Lynn. Emergency gas shut-off valve. 3,768,497, 10-30-73, Cl. 137-38.000.
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Muenchhausen, Meinolf; and Weber, Ekke, to Siemens Aktiengesellschaft. Method and apparatus for determining and storing the contour course of a written symbol scanned column by column. 3,713,098, 1-23-73, Cl. 340-146.3ac.

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Muir, Francis; and Morrison, Jerry L., to Chevron Research Company. Anti-aliasing of spatial frequencies by geophone and source placement. 3,719,924, 3-6-73, Cl. 340-15.5af.

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Muir, Thomas G., to United States of America, Navy. Shrapnel sonar. 3,763,463, 10-2-73, Cl. 340-1.00r.

Muirhead, Leslie A., to Shell Oil Company. High impact polyvinyl-aromatic compositions. 3,718,616, 2-27-73, Cl. 260-28.50b.

Muize, Heinz; Barth, Gerhard; and Pfuller, Kurt, to VEB Wirkmaschinenbau. Full-fashioned knot fabric and method and apparatus for the production thereof. 3,759,070, 9-18-73, Cl. 66-189.000.

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Mukaiyama, Teruaki; Ueki, Masaaki; Matsueda, Rei; and Maruyama, Hiroshi, to Sankyo Company Limited. Process for the preparation of a carboxylic acid amide. 3,737,423, 6-5-73, Cl. 260-112.500.

Mukaiyama, Teruaki; Ueki, Masaaki; Maruyama, Hiroshi; Matsueda, Rei; and Gotow, Kuniaki. Process for the production of peptides. 3,778,428, 12-11-73, Cl. 260-112.500.

Mukherjee, Dilip Kumar; Chowdhury, Priya Bandhu; Sama, Jugal Kishore; Basu, Amarendra Nath; Basak, Nitya Goral; and Lahiri, Adinath, to Council of Scientific & Industrial Research. Hydrogenation of coal. 3,775,286, 11-27-73, Cl. 208-10.000.

Mukoh, Akio; Mori, Yasuki; Sakashita, Kiyoshi; Nozaki, Sukekatsu; and Hagitani, Akira, to Hitachi, Ltd. Organic photoconductive materials. 3,764,590, 10-9-73, Cl. 260-85.50r.

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Mulasmajic, Dzemal. Anti-friction magnetic wheel. 3,734,565, 5-22-73, Cl. 301-5.00r.

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Mulich, Stephen F.; and Sweeney, James A., to MB Associates. Projectile launcher baton. 3,728,809, 4-24-73, Cl. 42-13.000.

Mulier, Pieter M. J. Cardiac pacer with externally controllable variable width output pulse. 3,713,449, 1-30-73, Cl. 128-419.00p.

Mulier, Pieter M. J.; and Helland, John R., to Medtronic, Inc. Automatic threshold compensating demand pacemaker. 3,757,792, 9-11-73, Cl. 128-419.00p.

Mulier, Pieter M.J., to Medtronic, Inc. Electrically shielded, gas-permeable implantable electro-medical apparatus. 3,718,142, 2-27-73, Cl. 128-419.00p.

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Mullan, Norman P. O.; and Zamarra, Paul A. Molded plastic landscape edging and border structure. 3,762,113, 10-2-73, Cl. 52-102.000.

Mullaney, John J., to Sealol, Inc. Rotary mechanical fluid seal. 3,764,148, 10-9-73, Cl. 277-40.000.

Mullarkey, Thomas W., to Thermal Reduction Corporation. Apparatus for ammunition disposal. 3,772,958, 11-20-73, Cl. 86-1.000.

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Mullen, John L., to Crest/Good Manufacturing Company. System for replacing faucet handles. 3,776,373, 12-4-73, Cl. 206-16.00r.

Mullen, Richard M., to General Motors Corporation. Method for producing directionally solidified cast alloy articles. 3,754,592, 8-28-73, Cl. 164-60.000.

Mullen, William T. Expansion joints for roofs. 3,713,263, 1-30-73, Cl. 52-403.000.

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Muller, Albert, to Contraves AG. Bistable controllable flip-flop circuit. 3,757,143, 9-4-73, Cl. 307-291.000.

Muller, Albert F. Air cushion system for aircraft removal. 3,726,493, 4-10-73, Cl. 244-2.000.

Muller, Alfred, to Siemens Aktiengesellschaft. Superconductive alloy and method for its production. 3,759,750, 9-18-73, Cl. 148-2.000.

Muller, Anton, to Pistor-Kette GmbH. Web link for tire chains. 3,709,275, 1-9-73, Cl. 152-243.000.

Muller, Anton, to Pistor-Kette GmbH. Connecting link for tire anti-skid chains. 3,714,975, 2-6-73, Cl. 152-243.000.

Muller, Arnold. Variable-speed asynchronous motor with multiple rotors. 3,749,949, 7-31-73, Cl. 310-59.000.

Muller, Charles B.; and Jones, Fred C., to Scientific Glass Blowing Company. Filter and filter support apparatus. 3,707,832, 1-2-73, Cl. 55-486.000.

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Muller, Dieter; and Jurisch, Wilhelm, to Daimler-Benz Aktiengesellschaft. Vehicle gas turbines with ratio couplings therebetween. 3,744,241, 7-10-73, Cl. 60-39.160.

Muller, Dietrich, to Fried Krupp Gesellschaft mit beschrankter Haftung. Reflected-beam ranging system. 3,711,822, 1-16-73, Cl. 340-3.00r.

Muller, Dietrich; and Wulf, Heiner, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Video signal brightness control circuit arrangement. 3,757,156, 9-4-73, Cl. 315-30.000.

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Muller, Ernest. Method and apparatus for producing high hydraulic pressure, particularly for operating a forging press. 3,732,691, 5-15-73, Cl. 60-51.000.

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Muller, Fritz. Vehicle anti-skid device. 3,727,662, 4-17-73, Cl. 152-222.000.

Muller, Fritz; Stendenbach, Karl-Heinz; Dany, Franz-Josef; Steidl, Dieter; Weizenkor, Horst Heinrich; and Forst, Willi, to Knapsack Aktiengesellschaft. Apparatus for the manufacture of most finely pulverized red phosphorus. 3,731,882, 5-8-73, Cl. 241-46.15.

Muller, Fritz; Queck, Robert; Koch, Josef; Kowalski, Werner; Nolden, Werner; Selbsi, Gunter; and During, Helmut, to Knapsack Aktiengesellschaft. Spray nozzle for a spray dryer. 3,770,207, 11-6-73, Cl. 239-397.500.

Muller, Fritz; Stendenbach, Karl-Heinz; Kartlapp, Gerhard; Forst, Wilhelm; and Schrodter, Hermann, to Knapsack Aktiengesellschaft. Purification of yellow phosphorus. 3,780,164, 12-18-73, Cl. 423-322.000.

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Muller, Hans. Removing a cell culture from a carrier. 3,778,353, 12-11-73, Cl. 195-105.000.
Muller, Harro. Electronic switch actuated by proximity of the human body. 3,764,819, 10-9-73, Cl. 307-116.000.
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Muller, Helmut, to Winterhalter, Karl, KG. Automatic dish rinsing machine having a centrifugal force separator. 3,765,430, 10-16-73, Cl. 134-109.000.
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Muller, Johannes, to Handtmann, Albert, Metallgusswerk, Armaturen- und Fleischereimaschinenfabrik, Firma. Hydraulically operating sausage-filling and turn-off machine. 3,769,657, 11-6-73, Cl. 17-35.000.
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Muller, Karl-Heinz; and Rindfleisch, Volker, to Siemens Aktiengesellschaft. Control and regulating arrangement for the current fed to electromagnetic coils of corpuscular beam apparatus. 3,757,120, 9-4-73, Cl. 250-396.000.
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Muller, Peter, to Cerberus AG. Optical smoke detector. 3,760,395, 9-18-73, Cl. 340-237.00s.
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Muller, Wolfgang; and Dathe, Joachim, to Siemens Aktiengesellschaft. Method of doping a silicon crystal by indiffusing boron or phosphorus from a layer produced on the silicon surface. 3,764,412, 10-9-73, Cl. 148-188.000.
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Murato, Kenichi; Maruyama, Yasuo; Wakao, Mitsuro; Takahashi, Shogo; and Takami, Hisao, to Japanese National Railways and Kayaba Kogyo Kabushiki Kaisha. Automatic releasing apparatus for couplers of railway vehicles. 3,750,897, 8-7-73, Cl. 213-211.000.
Murayama, Keisuke; Morimura, Syoji; Higashida, Susumu; Matsui, Katsuaki; Kurumada, Tomoyuki; and Onta, Noriyuki, to Sankyo Company, Limited. Process for the preparation of N.N' disulfide compounds. 3,708,488, 1-2-73, Cl. 260-293.630.
Murayama, Keisuke; Toda, Toshimasa; and Mori, Eiko, to Sankyo Company Limited. Inhibition of the polymerization of vinyl monomers. 3,733,326, 5-15-73, Cl. 260-290.00v.
Murayama, Masao; Seto, Eisuke; Okubo, Takashi; Morita, Iwao; and Dobashi, Itsuo, to Nippon Shinyaku Co., Ltd. Intermediates for the preparation of 4-aminomethylcyclohexane-1-carboxylic acid. 3,743,666, 7-3-73, Cl. 260-464.000.
Murayama, Masayuki; and Abe, Koichi, to Japan Gas-Chemical Company, Inc. Process for producing hydroxyalkylacrylates or hydroxyalkylmethacrylates. 3,708,524, 1-2-73, Cl. 260-486.00b.
Murayama, Masayuki; and Abe, Koichi, to Japan Gas-Chemical Company, Inc. Process for purifying hydroxyalkylacrylates or hydroxyalkylmethacrylates by distilling in the presence of poly-alkyleneglycols. 3,709,928, 1-9-73, Cl. 260-486.00b.
Murayama, Naohiro; and Fukuda, Makoto, to Kureha Kagaku Kogyo Kabushiki Kaisha. Non-thrombogenic articles. 3,723,754, 3-27-73, Cl. 307-88.0et.
Murayama, Naohiro; and Hashizume, Hideyuki, to Kureha Kagaku Kogyo Kabushiki Kaisha. Pyroelectric coordinate input process and apparatus. 3,772,518, 11-13-73, Cl. 250-211.00r.
Murayama, Teruo; Honda, Kazuhiko; Kasugai, Tsuneo; and Minagawa, Nobuhiko, to Fuji Photo Film Co., Ltd. Process for producing laminated paper. 3,748,204, 7-24-73, Cl. 156-244.000.
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Murphy, Bob G.; and Scott, J. O., to Cities Service Oil Company. Gas well stimulation. 3,720,263, 3-13-73, Cl. 166-303.000.
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Murphy, Edmund, to Ruckluft Patent AG, mesne. Art of evaporative cooling. 3,775,993, 12-4-73, Cl. 62-95.000.
Murphy, Emmett J., to Marcona Corporation. Method and apparatus for a continuous dumbbell tube anchoring system for submarine pipelines. 3,779,027, 12-18-73, Cl. 61-72.000.
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Murphy, John Brian, to Bissett-Berman Corporation, The. Thermal pollution monitoring device. 3,757,229, 9-4-73, Cl. 328-1.000.

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Murphy, John Michael, to Explosives and Chemical Products Limited. Resinous cartridges for securing fixing elements. 3,756,388, 9-4-73, Cl. 206-47.00a.

Murphy, John P., to Lubrizol Corporation, The. Acylating agents, their salts, and lubricants and fuels containing the same. 3,725,441, 4-3-73, Cl. 260-400.000.

Murphy, John P., to Lubrizol Corporation, The. Lubricants and fuels containing nitrogen-bearing compositions. 3,778,372, 12-11-73, Cl. 252-51.50a.

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Murphy, Joseph, to Westinghouse Electric Corporation. Laser and fluorescent crystalline materials. 3,725,811, 4-3-73, Cl. 331-94.500.

Murphy, Joseph C. Fishing reel with depth memory. 3,730,455, 5-1-73, Cl. 242-84.10l.

Murphy, Joseph P., to Avco Corporation. Dynamic blade particle separator. 3,720,045, 3-13-73, Cl. 55-306.000.

Murphy, Judson D. Co-axial coordinator and method of use in aligning rotating units in propulsion systems. 3,736,062, 5-29-73, Cl. 356-153.000.

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Murphy, Peter, to Girling Limited. Railway vehicle braking systems. 3,777,858, 12-11-73, Cl. 188-181.00r.

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Murphy, Robert P., to Amoco Production Company. Method of logging a sub-surface formation. 3,748,474, 7-24-73, Cl. 250-259.000.

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Murphy, Thomas V. Crane for extracting horizontal long tube bundles. 3,765,544, 10-16-73, Cl. 214-1.00p.

Murphy, Vincent H., to Dempco, Inc. Lock for trailer hitch coupler. 3,770,299, 11-6-73, Cl. 280-507.000.

Murphy, Walter T., to Goodrich, B. F., Company, The. Process of producing a permeable synthetic film. 3,765,925, 10-16-73, Cl. 117-63.000.

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Murr, Julius W. Universally pivotal tow hitch apparatus. 3,740,078, 6-19-73, Cl. 280-478.00r.

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Murray, Charles Robertson, to Canadian Industries Limited. Valve bag. 3,746,246, 7-17-73, Cl. 229-62.500.

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Murray, Dudley Charles, to Pains-Wessex Limited. Pyrotechnic devices. 3,715,984, 2-13-73, Cl. 102-34.200.

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Murray, Everett C.: *See—*
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Murray, Frank McDonald, to Imperial Chemical Industries Limited. Seismic prospecting. 3,729,060, 4-24-73, Cl. 181-.5xc.

Murray, Glen W.; and Coy, Donald C. Rotating and tilting double bed trailer. 3,720,336, 3-13-73, Cl. 214-505.000.

Murray, Gordon E., to Hughes Aircraft Company. Digital differential analyzer spiral scan generator. 3,751,712, 8-7-73, Cl. 315-24.000.

Murray, Harry E. Weedless basket plug. 3,768,194, 10-30-73, Cl. 43-42.100.

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Lania, Anthony R.; Chase, Edward L.; Chase, Francis M.; Graham, Leonard P.; and Murray, James E., 3,745,233.

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Murray, James Emmett, to Harris-Intertype Corporation. Measurement of reflection density. 3,748,046, 7-24-73, Cl. 356-195.000.

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Murray, John C.: *See—*
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Murray, Kenneth J.; Hopkins, Don J.; and Lederman, Peter B., to Esso Production Research Company. Viscous surfactant water flooding. 3,776,309, 12-4-73, Cl. 166-273.000.

Murray, Myles N.; and Beaver, Dale M., to Industrial Electronic Rubber Company. Solenoid valve plunger. 3,712,579, 1-23-73, Cl. 251-38.000.

Murray, Omer E.; and Kilpatrick, Robert G., to General Electric Company. Luminaire closure device. 3,748,465, 7-24-73, Cl. 240-147.000.

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Murray, Robert L.: *See—*
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Madden, Michael J.; Murray, Robert L.; Lemon, Stephen C.; and Ostand, Paul R., 3,753,453.

Murray, Robert L. Shut-off valve for liquid dispensing nozzle. 3,719,215, 3-6-73, Cl. 141-207.000.

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Murray, Stephen F.; and Simmons, Harold T., to Mallory, P. R., & Co. Inc. Bussing block. 3,771,102, 11-6-73, Cl. 339-19.000.

Murray, Thomas J.: *See—*
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Murray, Thomas P., to United States Steel Corporation. Apparatus for determining correct pyrometer readings with steam interference present. 3,759,102, 9-18-73, Cl. 73-355.00r.

Murray, William A.: *See—*
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Murre, Robert W.; and Schulz, Herman C., to Bell & Howell Company. Severing mechanism. 3,745,863, 7-17-73, Cl. 83-224.000.

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Murrell, Donald K., to Robertshaw Controls Company. Screen retainer assembly. 3,732,985, 5-15-73, Cl. 210-446.000.

Murrell, Thomas: *See—*
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Murrmann, Helmuth, to Siemens Aktiengesellschaft. Method of producing a silicon transistor device. 3,754,321, 8-28-73, Cl. 29-578.000.

Murry, Edward J. Method and apparatus for translating ultrasonic energy. 3,735,159, 5-22-73, Cl. 310-8.300.

Mursic, Marjan: *See—*
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Murthy, Nanjundiah Narasimha; Macura, Joseph Steven; Gergely, William, Jr.; and Berg, Allen Charles, to Pitney Bowes-Alpex, Inc. High-speed parallel printer. 3,724,366, 4-3-73, Cl. 101-93.00c.

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Murtin, Fernand; Mercier, Loic; and Barat, Jean, to Societe Industrielle d'Electronique et d'Informatique. Electronically controlled fuel-supply system for compression-ignition engine. 3,742;918, 7-3-73, Cl. 123-32.0ea.

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Murto, Robert A., to Chore-Time Equipment, Inc. Conveyor and trough feeder for poultry and the like. 3,776,191, 12-4-73, Cl. 119-18.000.

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Murton, Crawford B., to Air Repair, Inc. Method of applying refractory lining on hot metallurgical ladles, soaking pits and furnaces. 3,737,489, 6-5-73, Cl. 264-30.000.

Murty, Dasika R. K.: *See—*
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Muschelknautz, Egar: *See—*
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Muse, George B. Universal blocks. 3,780,484, 12-25-73, Cl. 52-585.000.

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Musgrave, Daniel D. Magazine loading guide. 3,710,497, 1-16-73, Cl. 42-87.000.

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Musgrove, Peter James, to National Research Corporation. Electrogasdynamic ganerators. 3,723,777, 3-27-73, Cl. 310-5.000.

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Mushines, Anthony. System for converting heat to kinetic energy. 3,733,819, 5-22-73, Cl. 60-108.000.

Mushrush, George W. Adjustable electromagnetic vibrator. 3,733,500, 5-15-73, Cl. 310-17.000.

Music, William A., to Schwien Engineering, Inc. Pressure standard. 3,748,891, 7-31-73, Cl. 73-4.00d.

Musick, Charles R.; and Remshaw, Richard P., to Combustion Engineering, Inc. Instrumentation for nuclear reactor core power measurements. 3,752,735, 8-14-73, Cl. 176-19.000.

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Musschoot, Albert, to General Kinematics Corporation. Sound deadener for vibratory conveyor. 3,743,080, 7-3-73, Cl. 198-220.0ba.
Musschoot, Albert, to General Kinematics Corporation. Vibratory conveyor with counterpoise. 3,750,866, 8-7-73, Cl. 198-220.0ch.
Musschoot, Albert, to General Kinematics Corporation. Vibratory conveyor with sound deadening means. 3,770,097, 11-6-73, Cl. 198-220.0ba.
Musschoot, Albert, to General Kinematics Corporation. Sealed drive for vibratory material handling device. 3,776,352, 12-4-73, Cl. 198-220.0db.
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Myers, Dirck Van Buren: *See—*
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Myers Excavating Ltd.: *See—*
Daviduke, Peter M., 3,765,109.
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Myers, H. George: *See—*
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Myers, Hugh I., Jr., to FMC Corporation, mesne. Tire mounting and demounting machine. 3,742,999, 7-3-73, Cl. 157-1.280.
Myers, Jack N. Ornamental container. 3,776,413, 12-4-73, Cl. 220-9.00r.
Myers, James G.; Berg, Francis J.; and Martus, Bernard R., to Philco-Ford Corporation. Apparatus for boresighting a laser beam emitter device. 3,752,587, 8-14-73, Cl. 356-153.000.
Myers, John L., to Ledex Inc. External stop for rotary solenoid. 3,750,065, 7-31-73, Cl. 335-272.000.
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Myers, John W., to Phillips Petroleum Company. Isomerization of neohexene. 3,781,377, 12-25-73, Cl. 260-683.200.
Myers, Julia S.; and Wilber, Paul F. Quick detachable button. 3,720,982, 3-20-73, Cl. 24-104.000.
Myers, Kent R. Ventilated suit. 3,761,962, 10-2-73, Cl. 2-79.000.
Myers, Lawrence R.; and Lakovits, John J., to Bendix Corporation, The. Cushioned valve plunger. 3,727,516, 4-17-73, Cl. 91-37.00c.
Myers, Lawrence R., to Bendix Corporation, The. Tandem servomotor partition. 3,760,693, 9-25-73, Cl. 92-48.000.
Myers, Lewis William: *See—*
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Myers, Nijah F., to Dresser Industries, Inc. Method and apparatus for producing multiple zone oil and gas wells. 3,735,815, 5-29-73, Cl. 166-313.000.
Myers, Paul H. Triple bucket hook. 3,737,188, 6-5-73, Cl. 294-27.00r.
Myers, Paul K., to Cardinal-Ordinal Corporation. Cardinal-ordinal digital calculators and computers. 3,718,810, 2-27-73, Cl. 235-156.000.
Myers, Philip. Theft-prevention ignition system. 3,720,284, 3-13-73, Cl. 180-114.000.
Myers, Raymond T. Portable ground continuity tester. 3,723,863, 3-27-73, Cl. 324-51.000.
Myers, Reginald Lewis. Retainer and attachment means. 3,775,922, 12-4-73, Cl. 52-367.000.
Myers, Richard Stanley, to RCA Corporation. Regulated ignition system. 3,709,206, 1-9-73, Cl. 123-148.00e.
Myers, Robert C. Tilt responsive switch with ball contact actuating structure. 3,729,602, 4-24-73, Cl. 200-61.520.
Myers, Robert E. Dental floss holder. 3,718,146, 2-27-73, Cl. 132-92.000.
Myers, Robert E., to M & M International Plastics, Inc. Apparatus and method for making fiberglass grating. 3,772,126, 11-13-73, Cl. 156-434.000.
Myers, Robert Gale. Flower corsage frame. 3,760,460, 9-25-73, Cl. 24-5.000.
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Myers, Robert T. Anesthetic gas exhaust system. 3,721,239, 3-20-73, Cl. 128-188.000.
Myers, Stanley L.: *See—*
Beach, Robert C.; and Myers, Stanley L., 3,771,168.
Myers, William N.; and Hawkins, Miller C., to Beaunit Corporation. Process for the preparation of weavable crosslined and carbon filled polyolefin filaments. 3,755,519, 8-28-73, Cl. 264-26.000.



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Myers, William P.: *See—*
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Myers, William P., to Bendix Corporation, The. Indicator for volume ventilator apparatus. 3,768,469, 10-30-73, Cl. 128-145.800.
Myhr, Lars H.; and Svensson, Lars-Ake Erling, to Borgs Fabriks AB. Means and method for regulating a hydraulic energy absorbing device. 3,739,884, 6-19-73, Cl. 188-296.000.
Myhr, Lars Halvar: *See—*
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Myhre, Kjell E.; and Harrison, A. Michael, to Micron Instruments, Inc. Methods and devices for enclosing electrical components. 3,742,118, 6-26-73, Cl. 174-52.00s.
Myhre, Kjell E., to Micron Instruments, Inc. Diaphragm for low-pressure transducers. 3,769,110, 10-30-73, Cl. 156-6.000.
Mykolenko, Petro, to General Motors Corporation. Vehicle suspension control arm. 3,727,939, 4-17-73, Cl. 280-124.00r.
Mylec, Inc.: *See—*
Carbonneau, Rene R., 3,772,704.
Mylee Digital Sciences, Inc.: *See—*
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Myler, George W.; Reid, Edward A., Jr.; and Venendaal, Robert G., to Columbia Gas System Service Corporation. Tilting brazier. 3,744,475, 7-10-73, Cl. 126-39.00r.
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Gibson, James O.; Schumacher, Robert L.; and Myler, Kay L., 3,766,000.
Myles, Asa H.; and Erb, Fred, to Square D Company. Adjustable voltage thyristor-controlled hoist control for a DC motor. 3,746,954, 7-17-73, Cl. 318-247.000.
Myles, Charles E., to Alvey, Inc. Universal suction head conveyor. 3,751,095, 8-7-73, Cl. 294-64.00r.
Myles Digital Sciences, Inc.: *See—*
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Myles, J. E., Inc.: *See—*
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Myles, J. Edgar, to Myles, J. E., Inc. Swimming pool cover. 3,777,319, 12-11-73, Cl. 4-172.140.
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Myren, Darrell P. Body scrubbing articles. 3,778,172, 12-11-73, Cl. 401-7.000.
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Myrent, Harry L.; and Fluder, Chester H., to Vapor Corporation. Combined pulse generator and odometer assembly for a railway locomotive. 3,779,086, 12-18-73, Cl. 73-490.000.
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Myrtle, James F.: *See—*
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Nabae, Mitsuo: *See—*
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Naber, Charles T.; and Lockwood, George C., to National Cash Register Company, The. Semiconductor memory device. 3,719,866, 3-6-73, Cl. 317-235.00r.
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Naber, Jaap E., to Shell Oil Company. Process for the removal of sulfur trioxide from industrial off-gases. 3,755,535, 8-28-73, Cl. 423-244.000.
Naber, John S. Control circuit for single stroke electrical tools. 3,715,605, 2-6-73, Cl. 307-246.000.
Naber, Robert H., to United States of America, Navy. Discrete step frequency sweep. 3,777,277, 12-4-73, Cl. 331-49.000.
Nabeta, Saburo; Kuniyoshi, Ieji; and Inagaki, Masahiro, to Daiichi Seiyaku Company, Limited. Process for optical resolution of O-acetylpantolactone. 3,732,255, 5-8-73, Cl. 260-343.600.
Nabih, Ibrahim Mohamed, to Astra Lakemedel Aktiebolag. Cyclohexeno-thioxanthones. 3,767,674, 10-23-73, Cl. 260-328.000.
Nabisco, Inc.: *See—*
Albrecht, Robert J.; Griner, Arthur J.; and Hoagland, Frank V. N., 3,719,019.
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Nablo, Sam V., to Energy Sciences, Inc. Apparatus for and method of controlling relativistic charged particle beam distribution and transport. 3,720,828, 3-13-73, Cl. 250-49.50r.
Nablo, Sam V., to Energy Sciences, Inc. Process and apparatus for surface sterilization of materials. 3,780,308, 12-18-73, Cl. 250-492.000.
Nablo, Samuel V., to Energy Sciences, Inc. Process for bulk sterilization, minimizing chemical and physical damage. 3,779,706, 12-18-73, Cl. 21-54.00r.
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Naccarato, James E.; and Farkas, David R. Ventilation device. 3,733,996, 5-22-73, Cl. 98-2.120.
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Nachbur, Hermann; Huber-Emden, Helmut; Kern, Joerg; and Maeder, Arthur, to Ciba-Geigy AG. Process for flameproofing cellulose-containing fibre material. 3,754,981, 8-28-73, Cl. 117-136.000.
Nachbur, Hermann; and Maeder, Arthur, to Ciba-Geigy AG. Phosphonocarboxylic acid amides. 3,773,860, 11-20-73, Cl. 260-943.000.
Nachev, Chudomir Kirilov: *See—*
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Naddox, Jim, Jr., to Texaco Inc. Carboxylic acid salts of 1-aminoalkyl-2-polymerized carboxylic fatty acid imidazolines. 3,758,493, 9-11-73, Cl. 260-309.600.
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Nadkarni, Anil V.; and Klar, Erhard, to SCM Corporation. Dispersion strengthening of metals by internal oxidation. 3,779,714, 12-18-73, Cl. 29-182.500.
Nadler, Franz: *See—*
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Naegele, Erich O.; Petkovsek, Richard J.; Sekse, Torkjell; and Sevilla, Ernesto G., to Cogar Corporation. Tape travel guiding apparatus. 3,756,610, 9-4-73, Cl. 274-4.00r.
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Naegeli, Werner, to Pavena AG. Working process for an impregnation liquid for continuous treatment of a textile fiber band. 3,770,375, 11-6-73, Cl. 8-149.100.
Naegeli, Werner, to Pavena AG. Method of producing a stable band consisting of adhesively bonded staple fibers of high lengthwise stability. 3,770,538, 11-6-73, Cl. 156-85.000.
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Nagae, Tadashi; Tsuji, Nobuo; and Miyazako, Takushi, to Fuji Photo Film Co., Ltd. Process for improving color developability of reversal photographic films. 3,745,007, 7-10-73, Cl. 96-22.000.
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Nagae, Tadashi; and Tsuji, Nobuo, to Fuji Photo Film Co., Ltd. Color photographic light-sensitive material. 3,764,327, 10-9-73, Cl. 96-55.000.
Nagae, Yasuyuki, to Central Glass Company, Limited. Method and apparatus for automatically detecting defects and irregularities in glass sheet. 3,737,665, 6-5-73, Cl. 250-219.0df.
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Nagahiro, Michinori; Yabu, Toshiomi; Hosono, Hiroo; and Ushihara, Masharu, to Matsushita Electric Industrial Co., Ltd. Magnetic recording and reproducing apparatus. 3,758,009, 9-11-73, Cl. 226-11.000.
Nagahiro, Michinori; Yabu, Toshiomi; Hosono, Hiroo; and Ushihara, Masaharu, to Matsushita Electric Industrial Co., Ltd. Control system for magnetic recording and reproducing apparatus. 3,773,277, 11-20-73, Cl. 242-201.000.
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Nagai, Hiroshi; Shirohama, Masatoshi; Matsumoto, Kenichi; and Kamimura, Haruo, to Nippon Kokan Kabushiki Kaisha. Method of ejecting plug for rolling mill and an apparatus therefor. 3,733,871, 5-22-73, Cl. 72-209.000.
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Nagai, Kiyoshi, to Tokyo Shibaura Electric Co., Ltd. Van-atta array antenna device. 3,731,313, 5-1-73, Cl. 343-854.000.
Nagai, Nobuo, to Nintendo Co., Ltd. Copying apparatus. 3,728,024, 4-17-73, Cl. 355-110.000.
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Nagai, Tamiji, to Sony Corporation. Horizontal deflection circuit. 3,778,670, 12-11-73, Cl. 315-27.0td.
Nagai, Tomomasu, to Kyoraku Kogyo Co., Ltd. Hollow double-wall article. 3,746,204, 7-17-73, Cl. 220-9.00r.
Nagai, Yoshibaru: *See—*
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Nagasaki, Yoichi, to Nippon Gakki Seizo Kabushiki Kaisha. Heel-holding device for safety ski bindings. 3,746,354, 7-17-73, Cl. 280-11.35t.
Nagasawa, Taro; Kawashima, Takuji; Suzuki, Kiyoshi; and Kawase, Kouzo, to Morinaga Milk Industry Co., Ltd. Process for preparing a lactulose powder. 3,716,408, 2-13-73, Cl. 127-46.00r.
Nagasawa, Taro; Okonogi, Shigeo; Oizumi, Saburo; and Ohya, Tatsumi, to Morinaga Milk Industry Co., Ltd. Canned carbonated sherbert mix. 3,761,285, 9-25-73, Cl. 99-137.000.
Nagasawa, Yoshio; and Yano, Shunji, to Daiwa Can Co., Ltd. Container for foodstuffs. 3,743,522, 7-3-73, Cl. 99-181.00r.
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Nagase, Yukihiko; Yoshida, Mitsutoshi; Kimoto, Yohichi; and Sakano, Toyoshi, to Mitsubishi Jidosha Kogyo Kabushiki Kaisha. Hydraulic systems. 3,739,577, 6-19-73, Cl. 60-385.000.
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Nagasima, Takeomi, to Asahi Glass Company, Ltd. Defogging glass plate. 3,749,885, 7-31-73, Cl. 219-522.000.
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Nagaswa, Masao, to Nippondenso Co., Ltd. Ignition timing signal generator. 3,775,627, 11-27-73, Cl. 310-70.000.
Nagata, Kanjiro. High impact resistant double-walled container. 3,752,351, 8-14-73, Cl. 220-9.00r.
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Nagata, Nobuyoshi; and Mizuguchi, Ryuzo, to Nippon Paint Co., Ltd. Coating composition of a copolymer of methyl methacrylate with the polymerizable addition reaction product of an $\alpha,\beta$-ethylenically unsaturated acid and an epoxy compound with a cellulosic ester or ether. 3,775,356, 11-27-73, Cl. 260-17.00r.
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Nagati, Rashed N., to Pennsylvania Engineering Corporation. Molten metal vessel suspension system. 3,756,583, 9-4-73, Cl. 266-36.00p.
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Nagel, Raymond; Wharton, Norman; and Cockburn, Thomas, to Hatchway Dynamics Limited. Ships hatches. 3,763,814, 10-9-73, Cl. 114-202.000.
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Nagy, Daniel Elmer, to American Cyanamid Company. Manufacture of water-soluble cationic non-thermosetting methylamine-epichlorohydrin polymer at constant temperature. 3,732,173, 5-8-73, Cl. 260-2.0bp.
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Nametkin, Nikolai Sergeevich; Durgarian, Sergei Garievich; Khotimsky, Valery Samuilovich; Kopkov, Vadim Ivanovich; and Chernyakov, Iosif Efimovich. Method of polymerization of vinyltriorganosilanes. 3,729,454, 4-24-73, Cl. 260-80.0ps.

Nametkin, Nikolai Sergeevich; Durgarian, Sergei Garievich; Kopkov, Vadim Ivanovich; Khotimsky, Valery Samuilovich; Bryantseva, Irina Sergeevna; Petrov, Gennady Nikolaevich; Tolstopyatov, Gennady Mikhailovich; Stadnichuk, Tatyana Validimirovna; Kornilova, Ttyana Alexeevna; and Shoikhet, Anna Berkovna. Process for polymerizing unsaturated monomers with dilithium organosilane oligomers. 3,769,266, 10-30-73, Cl. 260-80.0ps.

Namie, Koshi: *See—*
Mori, Hiroshi; Yamamoto, Michio; and Namie, Koshi, 3,742,025.
Mori, Hiroshi; Yamamoto, Michio; Namie, Koshi; and Kimoto, Teruhisa, 3,742,026.

Namikawa, Sumio: *See—*
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Namiki, Hiroshi: *See—*
Yoshida, Yasuo; Kawai, Katsuhiro; and Namiki, Hiroshi, 3,772,557.

Namiki, Masayuki: *See—*
Teruuchi, Yoshifumi; Namiki, Masayuki; and Nishii, Tomio, 3,778,066.

Namon, Richard. Impedance related blood flow measuring device. 3,730,171, 5-1-73, Cl. 128-2.05f.

Namoto, Yoshiteru: *See—*
Sakumoto, Hideki; and Namoto, Yoshiteru, 3,774,131.

Namy, Philippe, to Creusot-Loire. Roller pair type continuous casting apparatus. 3,730,254, 5-1-73, Cl. 164-268.000.

Nan Jo, Yoshimasa: *See—*
Yukinaga, Hisajiro; Nan Jo, Yoshimasa; and Wada, Takashi, 3,720,530.

Nanamatsu, Satoshi; Kimura, Masakazu; and Doi, Kikuo, to Nippon Electric Company Limited. Strontium niovate electro-optic modulator. 3,747,022, 7-17-73, Cl. 332-7.510.

Nanba, Hironobu, to Funai Electric Co., Ltd. Tape recorder for endless tape cartridges. 3,774,916, 11-27-73, Cl. 274-4.00f.

Nanba, Yasuhiro: *See—*
Sahara, Masayoshi; and Nanba, Yasuhiro, 3,714,543.
Yata, Kotaro; Nanba, Yasuhiro; and Sahara, Masayoshi, 3,777,638.
Yata, Kotaro; Nanba, Yasuhiro; and Yamada, Seiji, 3,779,142.

Nanba, Yasuhiro, to Minolta Camera Kabushiki Kaisha. Photoelectric light measuring device. 3,723,014, 3-27-73, Cl. 356-226.000.

Nanba, Yasuhiro; Sahara, Masayoshi; and Yada, Kintaro, to Minolta Camera Co., Ltd. Exposure time control device in a through the lens type single reflex camera. 3,756,130, 9-4-73, Cl. 95-10.0ct.

Nancy, Denise; and Ninet, Leon, to Rhone-Poulenc S.A. Compositions for the nutrition of animals. 3,781,421, 12-25-73, Cl. 424-118.000.

Nangarrow, John; Jones, Paul Victor; and Clark, Peter Stanley, to Foseco Trading A.G. Hot topping an ingot mould by adhesively bonding slabs to the mould wall. 3,749,628, 7-31-73, Cl. 156-309.000.

Nangeroni, Lindo Paul, to American Cyanamid Company. Method of pigmenting vinyl tile. 3,761,442, 9-25-73, Cl. 260-41.00b.

Nanishi, Kiyoshi: *See—*
Watanabe, Tadashi; Murata, Kouichiro; Nanishi, Kiyoshi; and Yamamoto, Akira, 3,723,370.

Naniwa Seitei Company, Ltd.: *See—*
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Nankee, Robert J.; and Carswell, Robert, to Dow Chemical Company, The. Functional fluids containing morpholine-initated polyglycol corrosion inhibitors. 3,753,912, 8-21-73, Cl. 252-77.000.

Nankivell, Erby Roy, to Ralide, Inc. Integral saddle tree and ground seat. 3,712,024, 1-23-73, Cl. 54-44.000.

Nankivell, Erby Roy, Jr., to Ralide, Inc. Molded saddle tree and metallic saddle horn. 3,780,494, 12-25-73, Cl. 54-44.000.

Nanninga, William W.: *See—*
Alberti, John; and Nanninga, William W., 3,724,022.
Alberti, John; and Nanninga, William W., 3,741,504.

Nannini, Luciano: *See—*
Aiuola, Franco; and Nannini, Luciano, 3,753,484.

Nanodata Corporation: *See—*
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Nanri, Nobuya: *See—*
Ueda, Seinosuke; Nanri, Nobuya; and Hongo, Motoyoshi, 3,716,455.

Nansel, Harold K., to National Crane Corporation. Extendible boom with latch means for extension and retraction. 3,738,075, 6-12-73, Cl. 52-115.000.

Nansel, Harold K., to National Crane Corporation. Solenoid controlled valve system. 3,743,241, 7-3-73, Cl. 251-138.000.

Nantka-Namirski, Pawel: *See—*
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Naogaoka, Yohishi: *See—*
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Naoi, Fusaji: *See—*
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Naoshi Kubo and Osaka Consulting Engineers, Ltd.: *See—*
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Napadow, Stanley C., to ILG Industries, Inc. Method and apparatus for protecting chain conveyor. 3,749,229, 7-31-73, Cl. 198-177.00r.

Naphtachimie: *See—*
Bailly, Jean Claude, 3,737,476.
Bernard, Jean C.; and Pascal, Pierre J., 3,712,828.
Bouchet, Robert, 3,721,530.
Poite, Michel, 3,778,451.

Napier, Clarence H. Electric fuel control for gas griddle. 3,733,027, 5-15-73, Cl. 236-20.000.

Napier, John M.; and Caputo, Anthony J. Method for providing metallic carbide coating and graphite. 3,781,173, 12-25-73, Cl. 117-95.000.

Napier, Roger P., to Mobil Oil Corporation. Pyrrole derivative fungidical agents and treatments. 3,725,550, 4-3-73, Cl. 424-274.000.

Napierski, Reinhard: *See—*
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Napjus, Petrus Jan: *See—*
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Napoleon Spring Works, Inc.: *See—*
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Napoleone, Nunzio: *See—*
Swett, Alan; and Napoleone, Nunzio, 3,761,687.

Napoleone, Nunzio; and Swett, Alan M., to Dennison Manufacturing Company. Ticket stacker. 3,771,670, 11-13-73, Cl. 214-6.0ba.

Napoli, Angelo. Vehicle washing apparatus. 3,708,816, 1-9-73, Cl. 15-21.00e.

Napoli, Louis Sebastian; and Hughes, John Joseph, to RCA Corporation. Method of making semiconductor devices. 3,716,429, 2-13-73, Cl. 156-17.000.

Napoli, Louis Sebastian; and Hughes, John Joseph, to RCA Corporation. Frequency translator circuit. 3,731,180, 5-1-73, Cl. 321-69.0nl.

Napoli, Louis Sebastian, to RCA Corporation. Balanced mixer. 3,735,267, 5-22-73, Cl. 325-446.000.

Napoli, Louis Sebastian; and Reichert, Walter Francis, to RCA Corporation. Semiconductor devices and methods of making the same. 3,764,865, 10-9-73, Cl. 317-235.00r.

Napoli, Ruby. Board game apparatus. 3,721,443, 3-20-73, Cl. 273-135.0aa.

Napolitano, John P. Dealkylation of N-alkyl aromatic amines. 3,759,997, 9-18-73, Cl. 260-578.000.

Napolitano, John P., to Ethyl Corporation. Rearrangement of N-alkyl aromatic amines. 3,761,520, 9-25-73, Cl. 260-578.000.

Napolitano, Orlando: *See—*
Morris, Robert Charles; Napolitano, Orlando; Pasternack, Gerald Philip; and Saltzberg, Burton R., 3,766,484.





Napor, Carl A.; and Krumm, Charles G., to Kahle Engineering Co. Film scroll winding machine. 3,712,553, 1-23-73, Cl. 242-56.00r.

Narayanan, Venkatachala L.; and Haugwitz, Rudiger D., to Squibb, E. R. & Sons, Inc. Mercaptobenzimidazole derivatives. 3,755,

Narusawa, Izumi: *See—*

Napor, Carl A.; and Krumm, Charles G., to Kahle Engineering Co. Film scroll winding machine. 3,712,553, 1-23-73, Cl. 242-56.00r.

Napor, Carl A.; and Krumm, Charles G., to Kahle Engineering Co. Automatic flux spray dispenser. 3,741,150, 6-26-73, Cl. 118-2.000.

Napor, Carl A.; Lehman, Jaime; and Milana, Anthony A., to Kahle Engineering Co. Automatic capacitor inspection machine. 3,761,806, 9-25-73, Cl. 324-60.00e.

Napp, Sidney M., to Bendix Corporation, The. Portable ring storage and feeding unit. 3,726,391, 4-10-73, Cl. 198-212.000.

Napper, Mason Wayne, to Galaxie Manufacturing & Sales, Inc. Drill pipe protector. 3,709,569, 1-9-73, Cl. 308-4.00a.

Nappi, John J. Disposable swab-type applicator package. 3,759,375, 9-18-73, Cl. 206-63.20r.

Nappier, Henry A.: *See—*
Hubbuch, Theodore N.; Murfree, James A., Jr.; Duncan, William A.; Sandlin, Billy J.; and Nappier, Henry A., 3,710,573.

Nara, Akinao, to Hitachi, Ltd. Automatic control system for hot-strip mill and the like. 3,764,789, 10-9-73, Cl. 235-151.100.

Nara, Hideo: *See—*
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Nara, Hirohisa: *See—*
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Nara, Kiyoshi; Ohta, Kazuhiko; Katamoto, Kazuyoshi; Yamazaki, Osami; and Fukuda, Hideo, to Takeda Chemical Industries, Ltd. Method for separating citric acid. 3,725,474, 4-3-73, Cl. 260-535.00p.

Nara Sewing Machine Industrial Co., Ltd.: *See—*
Matsumoto, Mitsuo; Nishizuka, Yoshihide; and Iwata, Teruo, 3,760,747.

Nara, Takashi; and Okachi, Ryo, to Kyowa Hakko Kogyo Co., Ltd. Method for preparing aminocyclohexylpenicillin. 3,717,548, 2-20-73, Cl. 195-36.00p.

Narad, Inc.: *See—*
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Narahara, Kimio: *See—*
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Narahari, Gatiu, to Sycon Corporation. Wheel suspension system. 3,751,066, 8-7-73, Cl. 280-124.00f.

Naramura, Isuyoshi: *See—*
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Naraoka, Kiyotake; Sano, Hisumi; and Itoh, Yokichi, to Hitachi, Ltd. Contact members for silicon semiconductor devices. 3,746,944, 7-17-73, Cl. 317-234.00r.

Naraoka, Kyyotake: *See—*
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Narayan, T. V. Lakshmi: *See—*
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Narayan, T. V. Lakshmi; and Cenker, Moses, to BASF Wyandotte Corporation. Polyisocyanates blocked with polyhaloalcohols. 3,746,689, 7-17-73, Cl. 260-77.5tb.

Narayan, Venkat Chellam, to Aktiengesellschaft Brown, Boveri & Cie. Circuit arrangement for producing two frequency independent mutually phase shifted output A.C. voltages from two input A.C. voltages. 3,775,668, 11-27-73, Cl. 323-122.000.

Narayanan, Venkatachala; and Haugwitz, Rudiger D., to Squibb, E. R., & Sons, Inc. Mercaptobenzimidazole derivatives. 3,720,686, 3-13-73, Cl. 260-309.200.

Narayanan, Venkatachala L.: *See—*
Bodanszky, Miklos; Ondetti, Miguel A.; Vonsaltza, Malcolm H.; Narayanan, Venkatachala L.; and Levine, Seymour D., 3,767,639.
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Haugwitz, Rudiger D.; and Narayanan, Venkatachala L., 3,732,215.
Haugwitz, Rudiger D.; and Narayanan, Venkatachala L., 3,732,240.
Haugwitz, Rudiger D.; and Narayanan, Venkatachala L., 3,738,993.
Haugwitz, Rudiger D.; and Narayanan, Venkatachala L., 3,740,396.
Haugwitz, Rudiger D.; Maurer, Barbara V.; and Narayanan, Venkatachala L., 3,749,717.
Haugwitz, Rudiger D.; and Narayanan, Venkatachala L., 3,759,903.
Haugwitz, Rudiger D.; and Narayanan, Venkatachala L., 3,767,654.

Narayanan, Venkatachala L., to Squibb, E. R., & Sons, Inc. Delta 2, alpha-adamantaneacetanilide derivatives and related compounds. 3,711,538, 1-16-73, Cl. 260-557.00b.

Narayanan, Venkatachala L.; and Haugwitz, Rudiger D., to Squibb, E. R., & Sons, Inc. Mercaptobenzimidazolyl ureas and thioureas. 3,718,662, 2-27-73, Cl. 260-309.200.

Narayanan, Venkatachala L.; and Haugwitz, Rudiger D., to Squibb, E. R., & Sons, Inc. Thiazolinyl and thiazinyl derivatives of indoles. 3,755,316, 8-28-73, Cl. 260-243.00r.

Narayanan, Venkatachala L.; and Haugwitz, Rudiger D., to Squibb, E. R., & Sons, Inc. Adamantane carboxylic acid esters of chloramphenicol. 3,767,694, 10-23-73, Cl. 260-468.00g.

Narayanan, Venkatachala Lakeshmi: *See—*
Haugwitz, Rudiger D.; and Narayanan, Venkatachala Lakeshmi, 3,714,180.

Narayanan, Venkatachala Lakshmi; and Setescak, Lina Louise, to Squibb, E. R., & Sons, Inc. 4-Azatricyclo[4.3.1.1$^{3,8}$]undecan and related compounds. 3,763,165, 10-2-73, Cl. 260-268.0pc.

Narbaits-Jaureguy, Jean Raymond. Navigating and landing device for aircraft. 3,721,499, 3-20-73, Cl. 356-152.000.

Narbaits-Jaureguy, Jean Raymond; and Billottet, Henri, to Thomson-CSF. Limited range radiocommunication system. 3,760,278, 9-18-73, Cl. 325-51.000.

Narbaits-Jaureguy, Jean Raymond. Measuring of the coordinates of a subject through a television receiver. 3,780,221, 12-18-73, Cl. 178-6.800.

Narbone, Victor Elie. Dental prosthesis with concealed hook. 3,742,604, 7-3-73, Cl. 32-5.000.

Narco Scientific Industries, Inc.: *See—*
Bail, John W., 3,781,888.
McClaskey, Boyd M., 3,723,899.
Messinger, Norman A., 3,748,495.
Smith, John F., 3,750,057.
Wisser, William L., 3,721,941.

Nard, Georges; Millot, Gerard; and Lamiraux, Christian, to Societa d'Etudes Recherches et Constructions Electronique Sercel. Method of and apparatus for transmitting phase corrections, in particular for the Omega radio navigation-system. 3,774,211, 11-20-7, Cl. 343-105.00r.

Nardi, Giancarlo, to Compagnia Italiana Westinghouse Freni e Segnali. Carburetion system. 3,751,016, 8-7-73, Cl. 261-36.00a.

Nardin, Roy; and Sposato, Frank J., to Logimetrics, Incorporated. Signal generators employing digital phase locked loops and compensating circuits. 3,753,142, 8-14-73, Cl. 331-1.00a.

Nardizzi, Alfred M.: *See—*
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Narita, Hiroshi: *See—*
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Narita, Kiichi; Mori, Takasuke; and Itoo, Takamichi, to Kobe Steel, Ltd. Method for manufacturing of sound killed steel ingots. 3,724,528, 4-3-72, Cl. 164-58.000.

Narita, Takamichi: *See—*
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Naritomi, Yasumitsu, to Shigeru Kawayama. Steam generating instrument for hair-dressing. 3,745,306, 7-10-73, Cl. 219-272.000.

Narjarian, John, to France Neckwear Co., Inc. Pre-formed clip bow ties. 3,777,312, 12-11-73, Cl. 2-154.000.

Narken, Bernt: *See—*
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Narkie, Walter E. Ladder jack. 3,759,474, 9-18-73, Cl. 248-238.000.

Narland Products, Inc.: *See—*
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Naro, Paul A.: *See—*
Chang, Clarence D.; Naro, Paul A.; and Silvestri, Anthony J., 3,772,185.

Narodny, Leo; and Sharpe, Louis E., to Kollsman Instrument Corporation. Synthesized hologram for an artificial optical template. 3,721,498, 3-20-73, Cl. 356-109.000.

Narog, Anthony. Metal pleating machine. 3,766,873, 10-23-73, Cl. 113-1.00c.

Narozny, Ronald S., to Thomas & Betts Corporation. Electrical connector. 3,713,073, 1-23-73, Cl. 339-17.00f.

Narr, Berthold: *See—*
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Naru, Robert B.: *See—*
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Narukawa, Osamu: *See—*
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Narumi, Natsuo, to Messrs. Mitsubishi Jukogyo Kabushiki Kaisha. Tank support and bracing structure. 3,717,280, 2-20-73, Cl. 220-69.000.

Narumi, Natsuo, to Mitsubishi Jukogyo Kabushiki Kaisha. Regenerative filtration apparatus. 3,731,460, 5-8-73, Cl. 55-179.000.

Narumi, Tadataka, to Toyoda Machine Works, Limited. Flow divider. 3,729,014, 4-24-73, Cl. 137-101.000.





Narusawa, Izumi: *See—*
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Naruse, Takeo: *See—*
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Naruse, Yohsuke; Utsunomiya, Kimtake; and Fuse, Yuzo, to Sony Corporation. Shadow mask having apertures at intersections of barrel-shaped and pin-cushion shaped lines. 3,721,853, 3-20-73, Cl. 313-85.00s.

Naruto, Tatsuo: *See—*
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Narvesen, Bjarne; and Troen, Edvard. Arrangement in rockets. 3,722,413, 3-27-73, Cl. 102-49.200.

Nascher, Reinold: *See—*
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Naschke, John H.; and Keil, Eugene O., to Esso Research and Engineering Company. Distillation of water and alcohol while preventing foaming and formation of emulsions. 3,729,387, 4-24-73, Cl. 203-19.000.

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Nasco, Inc.: *See—*
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Nash Bros. Co.: *See—*
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Nash, David E. Storage battery heater and combined storage battery and heater. 3,708,346, 1-2-73, Cl. 136-161.000.

Nash, Douglas B. Lever-release cam cleat. 3,765,061, 10-16-73, Cl. 24-134.000.

Nash, Dudley O., to General Electric Company. Cooled augmentor liner. 3,712,062, 1-23-73, Cl. 60-261.000.

Nash Engineering Company: *See—*
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Shearwood, Raymond S., 3,712,764.

Nash, James H., Jr.: *See—*
Premru, Brian Allan; and Nash, James H., Jr., 3,718,832.

Nash, John Barry: *See—*
Evans, Evan Franklin; and Nash, John Barry, 3,739,056.

Nash, John E.; and Grennan, Charles W., to Chandler Evans Inc. Pump operated cooling system using cold fuel. 3,733,816, 5-22-73, Cl. 60-39.28r.

Nash, Leonard A.: *See—*
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Nashua Corporation: *See—*
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Nasica, Jean R., to Intercan S.A. Apparatus for producing containers with complex walls. 3,709,643, 1-9-73, Cl. 425-109.000.

Nasica, Jean Roger; and Torterotot, Roland Marc, to Intercan S.A. Apparatus for metering and distributing liquid and paste-like substances. 3,744,538, 7-10-73, Cl. 141-242.000.

Nasica, Jean Roger, to Intercan S.A. Apparatus and method for producing container with composite walls. 3,765,976, 10-16-73, Cl. 156-105.000.

Naske, Christoph, to WHB-Anbaumobel von Poschinger K.G. Furniture hinge. 3,731,343, 5-8-73, Cl. 16-163.000.

Nasmith, Donald C. Supporting device. 3,708,144, 1-2-73, Cl. 248-167.000.

Nason, Steven B.: *See—*
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Pratt, Richard J.; Crowley, Arthur W.; Nason, Steven B.; and Schmehr, William R., 3,766,109.

Nass, Gerald I.; and Sprenger, Gerhard E., to Sun Chemical Corporation. Photopolymerizable compositions. 3,763,224, 10-2-73, Cl. 260-486.00h.

Nassenstein, Heinrich; and Eggers, Joachim, to Agfa-Gevaert Aktiengesellschaft. Transmission holograms. 3,776,727, 12-4-73, Cl. 96-27.00h.

Nasser, Gamal El Din; and Waldmann, Hans, to Linde Aktiengesellschaft. Heat exchanger. 3,720,071, 3-13-73, Cl. 62-42.000.

Nasser, Gamal El Din; and Waldmann, Hans, to Linde Aktiengesellschaft. Heat exchanger. 3,759,322, 9-18-73, Cl. 165-166.000.

Nassimbene, Ernie George, to International Business Machines Corporation. Retrospective pulse modulation and apparatus therefor. 3,708,748, 1-2-73, Cl. 325-38.000.

Nassimbene, Ernie George. Retrospective pulse modulation decoding apparatus. 3,763,353, 10-2-73, Cl. 235-61.11e.

Nast, Roland: *See—*
Ley, Kurt; Eholzer, Ulrich; Nast, Roland; Metzger, Karl Georg; and Fritsche, Dieter, 3,754,087.
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Nastasic, Vladimir, to Interconsult S.p.A. Monomooring sea platform. 3,759,045, 9-18-73, Cl. 61-46.000.

Nastjukha, Alexandr Ivanovich; Bespalov, Oleg Georgievich; Knyazyatov, Andrei Serafimovich; Smirnov, Pavel Alexandrovich; and Udovenko, Alexandr Nikolaevich. Gas-discharge switching device. 3,739,227, 6-12-73, Cl. 315-338.000.

Nasu, Takeo: *See—*
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Nasuta, Anthony T., Jr.: *See—*
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Nasutavicus, Wilmonte A.: *See—*
Johnson, Francis; and Nasutavicus, Wilmonte A., 3,725,401.

Nasypany, Paul, to Remington Arms Company, Inc. Forestock latching mechanism for firearms. 3,751,841, 8-14-73, Cl. 42-75.00a.

Nasyrov, Gakif Zakirovich. Method of producing potassium sulphate from alkali metal sulphates or their mixtures with carbonates. 3,728,438, 4-17-73, Cl. 423-551.000.

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Nederveld, Terrill L., to Packaging Corporation of America. Container and blank therefor. 3,743,171, 7-3-73, Cl. 229-40.000.
Nederveld, Terrill L., to Packaging Corporation of America. Folding container. 3,744,698, 7-10-73, Cl. 229-170.0rs.
Nedopil, Erich; Krohe, Wilfried; and Wittmann, Karl, to Sigri Elektrographit GmbH. Method of burning molded carbon bodies in round-down-draft kilns. 3,744,959, 7-10-73, Cl. 432-12.000.
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Nedreski, Robert Joseph, to General Electric Company. Static field current control apparatus for reel drives. 3,749,329, 7-31-73, Cl. 242-75.510.
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Need, Lester E., to General Motors Corporation. Timed input-output motion transmitting device. 3,727,480, 4-17-73, Cl. 74-470.000.
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Needham, Donald G.; and Myers, Luther O., Jr., to Phillips Petroleum Company. Polymer particulating process. 3,763,059, 10-2-73, Cl. 260-2.50b.
Needham, James M., to Bendix Corporation, The. Simplified adaptive braking logic. 3,778,117, 12-11-73, Cl. 303-21.0cg.
Needham, Lyle L.; Shulick, Robert J.; and Swanson, Harold V., to Babson Bros. Co. Automatic milker. 3,726,252, 4-10-73, Cl. 119-14.080.
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Neefe, Charles W. Method of reshaping the cornea to eliminate refractive errors. 3,760,807, 9-25-73, Cl. 128-260.000.
Neefe, Charles W. Method of rapidly reshaping cornea to eliminate refractive errors. 3,776,230, 12-4-73, Cl. 128-260.000.
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Neeff, Rutger; and Kuth, Robert, to Bayer Aktiengesellschaft. Process for the continuous dyeing of synthetic fibre materials. 3,753,644, 8-21-73, Cl. 8-25.000.
Neeff, Rutger; Wegner, Peter; Hederich, Volker; and Kuth, Robert, to Bayer Aktiengesellschaft. Continuous dyeing of polyester fibers with water-immiscible halogenated hydrocarbons and amino anthraquinone dyestuffs. 3,753,645, 8-21-73, Cl. 8-39.000.
Neeff, Rutger, to Bayer Aktiengesellschaft. Process for the continuous dyeing of polyester fibers with anthraquinone dyestuffs. 3,775,048, 11-27-73, Cl. 8-39.000.
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Neff, Joseph J., to Bell & Howell Company. Information recording and replay methods and apparatus. 3,730,613, 5-1-73, Cl. 352-72.000.
Neff, Robert O.; Morrison, Kenneth V.; and Groechel, William D., to Milprint, Inc. Apparatus and method for the manufacture of tubular containers. 3,764,425, 10-9-73, Cl. 156-69.000.
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Negre, Robert Numa Paul, to Pont-A-Mousson S.A. Sealing means



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Negre, Robert Numa Paul, to Pont-A-Mousson S.A. Sealing means for a machine for centrifugally casting pipes and a machine including said sealing means. 3,756,307, 9-4-73, Cl. 164-297.000.
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Nehmsmann, Louis J.; and Schenck, Leslie M., to GAF Corporation. Continuous production of primary and secondary phosphate ester admixture. 3,776,985, 12-4-73, Cl. 260-980.000.
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Neil, Peter C., to Standard Oil Company. Material handling system for plastic film molding apparatus. 3,733,160, 5-15-73, Cl. 425-217.000.
Neil, Peter C., to Standard Oil Company. Plug assembly for thermoforming. 3,740,178, 6-19-73, Cl. 425-182.000.
Neil, Peter C., to Standard Oil Company. Apparatus for making articles of manufacture from a thin film of plastic. 3,746,497, 7-17-73, Cl. 425-378.000.
Neil, Peter C., to Standard Oil Company (Indiana). Apparatus for counting and separating nested articles of manufacture. 3,756,371, 9-4-73, Cl. 198-40.000.
Neil, Peter C., to Standard Oil Company. Thermoforming apparatus. 3,776,681, 12-4-73, Cl. 425-346.000.
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Neill, Donald E., to Carrier Corporation. Motor relay protection for refrigerant compressor motors. 3,742,302, 6-26-73, Cl. 317-13.00r.
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Neimark, Lawrence A., to United States of America, Atomic Energy Commission. Fuel pin for a liquid-metal-cooled fast-breeder nuclear reactor. 3,740,314, 6-19-73, Cl. 176-68.000.
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Neitzel, Joseph C., to Northern Electric Company Limited. Air and fiber separator. 3,727,383, 4-17-73, Cl. 55-337.000.
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Neitzel, Ulrich E. G.; and Andreasen, Frederick J., to Irving Trust Company, trustee, mesne. Production of langbeinite from a potassium magnesium sulfate salt and magnesium sulfate. 3,726,965, 4-10-73, Cl. 423-551.000.
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Nelkin, Arthur; and Geil, Frederick G., to Westinghouse Electric Corporation. Pulse reflection test means for balanced pressure surveillance detector. 3,753,260, 8-14-73, Cl. 340-242.000.



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Nelsen, Thomas Sloan. Voice controlled target release system. 3,770,981, 11-6-73, Cl. 307-154.000.
Nelson, Alden T. Frame for producing casting flasks. 3,741,701, 6-26-73, Cl. 425-175.000.
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Nelson, Arthur John. Apparatus and method to establish and sustain a subaqueous strata drilling system. 3,738,434, 6-12-73, Cl. 175-6.000.
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Nelson, Bill W. Lubrication seal for a crawler track. 3,731,551, 5-8-73, Cl. 74-257.000.
Nelson, Bobby H., to Vetco Offshore Industries, Inc. Apparatus for aligning and connecting flowlines. 3,716,100, 2-13-73, Cl. 166-.600.
Nelson, Bobby H., to Vetco Offshore Industries, Inc. Underwater pipe connection apparatus. 3,721,294, 3-20-73, Cl. 166-.600.
Nelson, Bobby H.; and Baugh, Benton F., to Vetco Offshore Industries, Inc. Apparatus for aligning and connecting underwater flowlines. 3,722,585, 3-27-73, Cl. 166-.600.
Nelson, Bruce C.: *See—*
Scibor, Alphonse G.; and Nelson, Bruce C., 3,728,938.
Nelson, Bruce C.; and Scibor, Alphonse G. Gas fired caseless ammunition rifle. 3,728,937, 4-24-73, Cl. 89-7.000.
Nelson, Carl R.; Cattorini, Joseph F.; and Terbay, Joseph J., to National Cash Register Company, The. High speed document feeder. 3,709,482, 1-9-73, Cl. 271-37.000.
Nelson, Carl S., Jr., to Mattel, Inc. Low distortion optical organ. 3,749,808, 7-31-73, Cl. 84-1.180.
Nelson, Carl S., Jr., to Opsonar Organ Corporation, mesne. Electronic musical instrument keying assembly providing a minimum of electrical noise. 3,769,869, 11-6-73, Cl. 84-1.010.
Nelson, Charles E., to Environmental Control Systems, Inc. Gas or oil fired heat exchanger for forced air heating unit. 3,712,286, 1-23-73, Cl. 126-110.00b.
Nelson, Charles H.: *See—*
Fredricks, Richard A.; Nelson, Charles H.; and Zepka, David J., 3,772,354.
Nelson, Charles, Jr.: *See—*
Spencer, Joseph T., 3,742,914.
Nelson, Charles R. Board game apparatus. 3,730,527, 5-1-73, Cl. 273-131.0kn.
Nelson, Clarence N., to Eastman Kodak Company. Optical spatial filtering with multiple light sources. 3,729,252, 4-24-73, Cl. 350-162.0sf.
Nelson, David A.: *See—*
Gum, Wilson F.; and Nelson, David A., 3,758,616.
Gum, Wilson F., Jr.; and Nelson, David A., 3,754,042.
Gum, Wilson F., Jr.; and Nelson, David A., 3,760,013.
Nelson, Donald D.; and Shevlin, Thomas S., to Minnesota Mining and Manufacturing Company. Thermostatically controlled heating implement. 3,719,798, 3-6-73, Cl. 219-512.000.
Nelson, Donald E. Educational demonstration model. 3,750,308, 8-7-73, Cl. 35-45.000.
Nelson, Donald F. Power transmission system. 3,750,616, 8-7-73, Cl. 115-35.00r.
Nelson, Donald O.: *See—*
Wells, Robert R.; and Nelson, Donald O., 3,742,446.
Nelson, Douglas Carlyle; and Knaggs, Edward Andrew, to Stepan Chemical Company. Oxyacetic acid compounds as builders for detergent compositions. 3,725,290, 4-3-73, Cl. 252-110.000.
Nelson, Edward J.; and Brown, Ilo M., to Ballantyne of Omaha, Inc. Projector mechanism. 3,752,569, 8-14-73, Cl. 352-139.000.
Nelson, Eldrid W.: *See—*
Olson, Buford W., Sr.; Nelson, Eldrid W.; and Davidson, Albin A., 3,738,285.
Olson, Buford W., Sr.; Nelson, Eldrid W.; and Davidson, Albin A., 3,763,789.
Nelson, Forrest A., to Varian Associates. RF spectrometer having means for exciting RF resonance of a plurality of resonance lines simultaneously using a high speed scanning means. 3,725,773, 4-3-73, Cl. 324-.5ac.
Nelson, Frank, to Lee, Raymond, Organization, Inc., The. Bowling target. 3,761,090, 9-25-73, Cl. 273-127.00b.
Nelson, Gary K. Portable information retriever. 3,748,023, 7-24-73, Cl. 350-241.000.
Nelson, George E. Up and over door mount. 3,739,526, 6-19-73, Cl. 49-197.000.
Nelson, George H.; Boomers, Jerry L.; and Egtvedt, Robert B., to Wolverine World Wide Inc. Heat setting apparatus. 3,744,073, 7-10-73, Cl. 12-1.00a.
Nelson, George L., to Bird Machine Company, Inc. Screening machine with slotted screen. 3,713,541, 1-30-73, Cl. 210-415.000.
Nelson, George P., to United States of America, Navy. Pulse train decoder-degarbler. 3,732,563, 5-8-73, Cl. 343-6.5lc.
Nelson, Gerald V.: *See—*
Coons, William R., Jr.; Colvert, James H.; and Nelson, Gerald V., 3,716,476.
Youngblood, Douglas J.; Colvert, James H.; and Nelson, Gerald V., 3,755,141.
Nelson, Gunner E.: *See—*
Pearson, Tillmon H.; and Nelson, Gunner E., 3,769,223.
Pearson, Tillmon H.; and Nelson, Gunner E., 3,776,850.
Nelson, Harold C.; and Sharp, Richard A., to McDonnell Douglas Corporation. Retractable post. 3,737,010, 6-5-73, Cl. 188-32.000.
Nelson, Harry N.; and Peck, Donald E., to General Motors Corporation. Parallel chain drive device. 3,727,515, 4-17-73, Cl. 89-47.000.
Nelson, Henry A.; and Straslicka, William A., to Carrier Corporation. Turbine inlet valve structure. 3,753,449, 8-21-73, Cl. 137-630.190.
Nelson, Herbert: *See—*
Kressel, Henry; and Nelson, Herbert, 3,762,968.
Nelson, Herbert T. Photoprint holder and storage container. 3,733,726, 5-22-73, Cl. 40-104.170.
Nelson, Hersey B.: *See—*
Ambrose, Alwin W.; and Nelson, Hersey B., 3,729,797.
Roberts, James C., Jr.; and Nelson, Hersey B., 3,751,783.
Nelson, Howard W., to Veeder Industries, Inc. Full dispensing system with indicator verification means. 3,749,283, 7-31-73, Cl. 222-27.000.
Nelson Irrigation Corporation, mesne: *See—*
Bruninga, Kenneth J., 3,779,462.
Meyer, Larry P., 3,744,720.
Nelson, Ivan Lloyd, to Deere & Company. Power shaft and drive for a farm grinder-mixer implement. 3,727,847, 4-17-73, Cl. 241-101.00b.
Nelson, Iver L.: *See—*
Peltier, Theodore E.; and Nelson, Iver L., 3,772,121.
Nelson, J. Roy: *See—*
Meek, John S.; and Nelson, J. Roy, 3,744,151.
Nelson, James F., to Bobrick Corporation, The. Roll paper dispenser. 3,771,739, 11-13-73, Cl. 242-55.300.
Nelson, James Thomas: *See—*
Boll, Harry Joseph; Heightley, John Donnell; Koo, James Teh-Zen; Lynch, William Thomas; Nelson, James Thomas; Bard, Richard; Waaben, Sigurd Gunther; and Waggener, Herbert Atkin, 3,771,147.
Nelson, Jerome W.: *See—*
Paysinger, Joseph R.; Sims, Eugene F.; and Nelson, Jerome W., 3,733,939.
Randolph, James B.; Nelson, Jerome W.; Paysinger, Joe R.; and Crump, E. Eugene, 3,718,798.
Nelson, Jerry G.; and Francesconi, Alfredo, to Detroit Edison Company, The. Transformer phase angle error and ratio correction factor transducer. 3,732,489, 5-8-73, Cl. 324-55.000.
Nelson, John: *See—*
Brouwer, Charles W.; and Nelson, John, 3,774,859.
Nelson, John; and Stoppard, William E., to Leesona Corporation. Bobbin processing. 3,727,852, 4-17-73, Cl. 242-35.60r.
Nelson, John, to Leesona Corporation. Spinning system. 3,735,576, 5-29-73, Cl. 57-53.000.
Nelson, John; and Pitts, Thomas E., to Leesona Corporation. Spin-wind system. 3,768,241, 10-30-73, Cl. 57-34.00r.
Nelson, John Archiblad; and Zaunius, Giedre Maria, to Ciba Corporation. Partial reduction of phthalonitriles. 3,720,702, 3-13-73, Cl. 260-465.00d.



Nelson, John Edward; and Guerguerian, Laurent, to Dominion Engineering Works, Limited. Grinding mills. 3,739,993, 6-19-73, Cl.
Sanders, Robert K.; Marlow, Jerry R.; Dornfeld, Kenneth A.;



Namie, Clarence T., to Caribbean Cashew Company. Nut shelling. Nesconset, Arthur, to De Paola, Nesconset, Farmingdale

Nelson, John Edward; and Guerguerian, Laurent, to Dominion Engineering Works, Limited. Grinding mills. 3,739,993, 6-19-73, Cl. 241-70.000.
Nelson, John F.: *See—*
McCarthy, Paul; and Nelson, John F., 3,731,574.
Nelson, John H.; and Witt, Paul R., to Dairyland Food Laboratories, Inc. Chillproofing beer with enzyme obtained from Mucor pulsillus Lindt. 3,740,233, 6-19-73, Cl. 99-48.000.
Nelson, John J.: *See—*
Becker, Roger T.; McMullin, Donald, Jr.; and Nelson, John J., 3,762,535.
Nelson, John W.: *See—*
Dahlgren, Donald A.; and Nelson, John W., 3,745,155.
Nelson, John W., to Upjohn Company, The. Prostanoic acid derivatives. 3,725,469, 4-3-73, Cl. 260-514.00d.
Nelson, Kenneth E., to Early California Industries, Inc. Fire retardant composition and method of production. 3,730,890, 5-1-73, Cl. 252-7.000.
Nelson, Lloyd A., to Gerber Products Company. Glass jar handling system. 3,724,686, 4-3-73, Cl. 214-8.50a.
Nelson, Lorne W., to Honeywell Inc. Fluid expandable temperature apparatus having excessive temperature relief apparatus. 3,715,924, 2-13-73, Cl. 73-368.000.
Nelson, Lorne W. Combustion control valve means and system. 3,741,710, 6-26-73, Cl. 431-90.000.
Nelson, Louis W.; and Wesner, Charles R., to Sperry Rand Corporation. Marine fin stabilizer control circuit. 3,727,572, 4-17-73, Cl. 114-126.000.
Nelson, Maynard E.; and De Witt, Robert G. Fishing rod support and hook setting apparatus. 3,762,090, 10-2-73, Cl. 43-15.000.
Nelson, Melvin A.; Clark, John C.; and Lackey, Jerry G., to EG & G, Inc. Light pulse analyzing detector system. 3,766,392, 10-16-73, Cl. 250-199.000.
Nelson, Melvin O., to Phillips Petroleum Company. Apparatus for removing the flashed waste from a blow molded object. 3,713,764, 1-30-73, Cl. 425-30.00r.
Nelson, Michael A.; Patrick, Robert F.; and Wehrenberg, Thomas M., to Corhart Refractories Company. Burned basic refractory and batch therefor. 3,726,699, 4-10-73, Cl. 106-59.000.
Nelson, Michael A.; Patrick, Robert F.; and Wehrenberg, Thomas M., to Corhart Refractories Company. Burned basic refractory and batch therefor. 3,751,273, 8-7-73, Cl. 106-57.000.
Nelson, Nels, to United States Gypsum Company. Integral stud and bracket standard for use in a wall construction. 3,712,015, 1-23-73, Cl. 52-729.000.
Nelson, Nicholas R. Adjustable socket. 3,724,299, 4-3-73, Cl. 81-128.000.
Nelson, Nicholas R. Circuit completion game using a rotary, multiple-contact switch. 3,771,791, 11-13-73, Cl. 273-130.0ab.
Nelson, Norman A., to Upjohn Company, The. Organic compounds and processes. 3,741,990, 6-26-73, Cl. 260-345.300.
Nelson, Norman A., to Texas Iron Works, Inc. Valve and actuator assembly. 3,765,642, 10-16-73, Cl. 251-14.000.
Nelson, Norman A., to Texas Iron Works, Inc. Gate valve having pressure balanced stem. 3,770,247, 11-6-73, Cl. 251-282.000.
Nelson, Norman C.; and Patti, Frank S., to Kel-Lite Industries, Inc. Baton-flashlight. 3,737,649, 6-5-73, Cl. 240-6.420.
Nelson, Norman C., to Kel-Lite Industries, Inc. Ammunition loader for revolvers. 3,769,733, 11-6-73, Cl. 42-89.000.
Nelson, Norvell J., to Eastman Kodak Company. Image-forming compositions including an azide and transistion metal complexes of triorganophosphines. 3,764,335, 10-9-73, Cl. 96-91.00d.
Nelson, Oscar M. Vehicle axle-frame lock. 3,754,774, 8-28-73, Cl. 280-150.00g.
Nelson, Paul A.: *See—*
Vissers, Donald R.; Holmes, John T.; and Nelson, Paul A., 3,731,523.
Nelson, Peter H.; and Untch, Karl G., to Syntex Corporation. Synthesis of [10]-annulenes. 3,708,547, 1-2-73, Cl. 260-648.00r.
Nelson, Peter H.; Unich, Karl G.; and Fried, John H., to Syntex Corporation. 2-(2-Hydroxy-3-aminopropyl-1-yloxy)-1,6-difluoro- and -1,6-methano-[10] annulenes and the salts thereof. 3,758,583, 9-11-73, Cl. 260-570.700.
Nelson, Philip E., to Purdue Research Foundation. Aseptic storage and valving system. 3,714,956, 2-6-73, Cl. 137-238.000.
Nelson, Ralph R. Car trunk rack. 3,709,413, 1-9-73, Cl. 224-42.10h.
Nelson Research & Development Company: *See—*
Smythies, John R.; and Eakins, Kenneth E., 3,732,261.
Nelson, Richard B. Grounding plug. 3,754,202, 8-21-73, Cl. 339-14.00r.
Nelson, Richard Kent, to Bell Telephone Laboratories, Incorporated. Control circuit for linear control of bode network. 3,750,007, 7-31-73, Cl. 323-19.000.
Nelson, Richard L.; and Nelson, Walter P. Apparatus and method for making filled food item. 3,763,765, 10-9-73, Cl. 99-450.700.
Nelson, Robert B., to Maytag Company, The. Latch mechanism. 3,734,290, 5-22-73, Cl. 210-146.000.
Nelson, Robert C., to West Virginia Armature Company. Portable belt conveyor. 3,762,532, 10-2-73, Cl. 198-117.000.
Nelson, Robert E.: *See—*
Sanders, Robert K.; Marlow, Jerry R.; Dornfeld, Kenneth A.; and Nelson, Robert E., 3,754,482.
Nelson, Robert E., to General Motors Corporation. Thermocouple signal amplifier. 3,735,274, 5-22-73, Cl. 330-1.00a.
Nelson, Robert E.; and Watts, Oran A., III, to General Motors Corporation. Automatic relight. 3,765,176, 10-16-73, Cl. 60-223.000.
Nelson, Robert J. Sunglasses containing embedded louver means. 3,756,703, 9-4-73, Cl. 351-45.000.
Nelson, Robert T.: *See—*
Goff, James R., 3,756,377.
Nelson, Robert W., to AVM Corporation. Linen inspection table. 3,712,744, 1-23-73, Cl. 356-238.000.
Nelson, Roger P.: *See—*
Hess, Hans-Jurgen E.; and Nelson, Roger P., 3,740,417.
Hess, Hans-Jurgen E.; and Nelson, Roger P., 3,766,206.
Nelson, Roland D.: *See—*
Garnier, Michael F.; and Nelson, Roland D., 3,769,469.
Nelson, Rolland D., to RTE Corporation. Water cooled direct buried electrical equipment. 3,748,535, 7-24-73, Cl. 317-15.000.
Nelson, Ronald C.; and Grover, Lawrence L., to Heath Company. Automatic battery charger. 3,781,631, 12-25-73, Cl. 320-25.000.
Nelson, Ronald H., Sr.: *See—*
Bethke, Robert P.; Mac Fadden, David P.; Nelson, Ronald H., Sr.; and Ross, Steven G., 3,758,024.
Nelson, Roy E.; and Matthews, Charles William, to American Gilsonite Company. Insulating and corrosion protective material. 3,745,030, 7-10-73, Cl. 106-14.000.
Nelson, Seddon C., to FMC Corporation. Trim tensioning limiter. 3,731,570, 5-8-73, Cl. 83-370.000.
Nelson, Sherman A.; Nickel, Donavon D.; and Dunbar, Neil F., to Licentia Patent-Verwaltungs-G.m.b.H. Heavy duty space frame four-way space frame. 3,744,206, 7-10-73, Cl. 52-650.000.
Nelson, Simon P.: *See—*
Sewell, Richard B. H.; and Nelson, Simon P., 3,764,016.
Nelson, Stanley E. Toothbrushes. 3,720,975, 3-20-73, Cl. 15-167.00r.
Nelson, Stanley L.: *See—*
McEwen, Thomas A.; and Nelson, Stanley L., 3,755,945.
Nelson, Terrance D.; and Hannula, Raymond H., to Allen-Bradley Company. Switch mounting structure. 3,770,925, 11-6-73, Cl. 200-168.00c.
Nelson, Theodore M.: *See—*
Moore, Robert A.; and Nelson, Theodore M., 3,740,675.
Nelson, Thomas W., to Omark Industries, Inc. Air relay valve. 3,730,226, 5-1-73, Cl. 137-627.500.
Nelson, Tom Worsley: *See—*
Sedgwick, Gordon; Lindop, Roy; and Nelson, Tom Worsley, 3,746,374.
Nelson, Victor. Sector motor, direct motion rotary actuator. 3,761,851, 9-25-73, Cl. 335-253.000.
Nelson, Victor J.: *See—*
Paasschens, Cornelis W. M.; and Nelson, Victor J., 3,781,000.
Nelson, Victor R. Cure assembly apparatus for plywood lay-up apparatus. 3,779,366, 12-18-73, Cl. 198-160.000.
Nelson, Walter P.: *See—*
Nelson, Richard L.; and Nelson, Walter P., 3,763,765.
Nelson, Warren Leonard, to AL E. & C. Ltd. Adsorption process for natural gas purification. 3,710,547, 1-16-73, Cl. 55-58.000.
Nelson, William B., to Ames Rubber Corporation. Apparatus for making rolls. 3,724,983, 4-3-73, Cl. 425-129.000.
Nelson, William B., Jr. Component assembler and method. 3,755,871, 9-4-73, Cl. 29-200.00a.
Nelson, William T.: *See—*
Billings, William G.; and Nelson, William T., 3,748,280.
Nelsson, Nels, to United States Gypsum Company. Shaft cavity wall and stud. 3,707,818, 1-2-73, Cl. 52-220.000.
Nelsson, Nels, to United States Gypsum Company. Demountable partition assembly and studs therefor. 3,732,657, 5-15-73, Cl. 52-241.000.
Nelsson, Nels, to United States Gypsum Company. Integral stud and bracket standard and the assembly thereof in a wall construction. 3,778,939, 12-18-73, Cl. 52-36.000.
Nemag N.V.: *See—*
van Huuksloot, Leendert, 3,716,265.
Nembhard, Roy L.; and Sinclair, James A. Staple remover. 3,761,057, 9-25-73, Cl. 254-28.000.
Nemecek, Petr: *See—*
Zacpal, Zdenek; and Nemecek, Petr, 3,752,455.
Nemeth, Harold C.: *See—*
Betty, Roy J., Jr.; and Nemeth, Harold C., 3,756,835.
Nemeth, Jozsef: *See—*
Burany, Janos; Csovak, Erno; Gulyas, Gabor; Nemeth, Jozsef; Van, Ivan; Vollak, Andor; and Erdosi, Jozsef, 3,727,253.
Nemeth, Robert C., to Vacuum Instrument Corporation. Differential sorption chromatography. 3,768,300, 10-30-73, Cl. 73-23.100.
Nemeth, Tibor Laszlo, to Panasote Company of New York, Inc., The. Finely divided carbon black modified unmasticated polymers of vinyl monomers. 3,775,357, 11-27-73, Cl. 260-17.00a.
Nemfth, Petfr: *See—*
Wright, James C.; and Nemfth, Petfr, 3,716,960.



Nemir, Clarence T., to Carribean Cashew Company. Nut shelling machine. 3,774,526, 11-27-73, Cl. 99-582.000.
Nemis, Coniston James: *See—*
Parisotto, Antonio; and Nemis, Coniston James, 3,717,390.
Nemit, Jeffrey T., to International Telephone and Telegraph Corporation. Doppler navigation beacon system with angular filter. 3,737,908, 6-5-73, Cl. 343-754.000.
Nemit, Jeffrey T., to International Telephone and Telegraph Corporation. Wideband dual-slot waveguide array. 3,740,751, 6-19-73, Cl. 343-771.000.
Nemit, Jeffrey T., to International Telephone and Telegraph Corporation. Technique for generating planar beams from a linear doppler line source employing a circular parallel-plate waveguide. 3,775,773, 11-27-73, Cl. 343-781.000.
Nemo Corporation: *See—*
Harrison, Robert R., 3,738,228.
Nemo Industries, Inc.: *See—*
Elsas, Norman E., 3,722,435.
Nemoto, Kenji; and Ozawa, Fumihiro, to Seiko Seiki Kabushiki Kaisha. Quill spindle. 3,741,572, 6-26-73, Cl. 279-50.000.
Nemoto, Kouji. Circuit for driving a moving element. 3,711,754, 1-16-73, Cl. 318-126.000.
Nemoto, Mitsuo; and Honma, Kimiyasu, to Kabushiki Kaisha Audio-Technica. Cartridge for detecting vibrations representing stereophonic sound. 3,761,647, 9-25-73, Cl. 179-100.41k.
Nemoto, Tadashi: *See—*
Asakura, Shigetsugu; Watanabe, Kiyoshi; Wachi, Hiroshi; and Nemoto, Tadashi, 3,767,388.
Nemoto, Yuhei; and Takahashi, Shiro, to Dainippon Ink and Chemicals, Incorporated. Photopolymerizable printing ink. 3,781,214, 12-25-73, Cl. 260-22.0tn.
Nenadal, Clarence G., to Premix, Inc. Enclosure for air-conditioners and the like. 3,741,290, 6-26-73, Cl. 165-48.000.
Neotec Corporation: *See—*
Ganssle, Eugene R., 3,717,879.
Ganssle, Eugene R.; and Webster, Donald R., 3,765,775.
Selgin, Paul J., 3,773,424.
Neotechnic Engineering Limited: *See—*
Wilmot, Kenneth, 3,727,806.
Neovius, Torsten Otto; and Svensson, Karl-Erik, to Telefonaktiebolaget L M Ericsson. Apparatus for changing the relative position of the conductors during the manufacture of a telecommunications cable. 3,757,505, 9-11-73, Cl. 57-34.00r.
Nepela, Daniel A. Variable contrast image projection. 3,724,938, 4-3-73, Cl. 353-20.000.
Nephew, Oliver T.: *See—*
Chalupsky, Paul A.; and Nephew, Oliver T., 3,770,138.
Nephew, Oliver T., to FMC Corporation. Boom extension control system. 3,721,350, 3-20-73, Cl. 212-55.000.
Nephew, Oliver T., to FMC Corporation. Boom extension control system. 3,726,417, 4-10-73, Cl. 212-55.000.
Nepomiastchy, Alexis: *See—*
Boulin, Jacques R.; and Nepomiastchy, Alexis, 3,755,762.
Nepon, Juanita Edna. Quilting and beading frame. 3,757,395, 9-11-73, Cl. 28-15.000.
Nepote, Alain Robert, to Etablissements Carpano & Pons S.A. Fishing reel. 3,771,740, 11-13-73, Cl. 242-84.20a.
Nepper, John P.; Lane, Joseph J.; and Skuja, Juris, to Arctic Enterprises, Inc. Mounting device for securing a handle to a lawn mower. 3,764,156, 10-9-73, Cl. 280-47.370.
Neptune Microfloc Incorporated: *See—*
Hsiung, Andrew K., 3,741,401.
Nerad, Frank O., to Armorlite Lens Company, Inc. Lens bland and frame coordinator and method of using same. 3,740,857, 6-26-73, Cl. 33-174.00a.
Neradka, Vincent F.: *See—*
Bauer, Peter; and Neradka, Vincent F., 3,770,200.
Neradka, Vincent F., to Bowles Fluidics Corporation. Flow sensor. 3,768,308, 10-30-73, Cl. 73-189.000.
Nereid N.V.: *See—*
Lok, Harmannus Henderikus, 3,724,410.
Neri, Carlo; and Perrotti, Emilio, to Snam Progetti S.p.A. Process for preparing epoxide compounds. 3,773,798, 11-20-73, Cl. 260-348.00r.
Neri, Dino: *See—*
Gerontopoulos, Panayotis; Neri, Dino; and Renzoni, Ruggero, 3,728,274.
Neri, Vincenzo. Chair for use in dentistry. 3,719,391, 3-6-73, Cl. 297-341.000.
Nerio, Katsumasa: *See—*
Yasutomi, Shunichi; Takahashi, Shigeaki; and Nerio, Katsumasa, 3,768,244.
Nerlich, Gunter, to Dimensional Production Limited. Viewer. 3,734,596, 5-22-73, Cl. 350-140.000.
Neroni, Peter J.: *See—*
Kleykamp, Donald L.; Neroni, Peter J.; and Holden, Homer N., 3,727,949.
Nerozzi, Nerio, to AMMI S.p.A. Plant for the treatment and the oxidation of antimony minerals. 3,759,500, 9-18-73, Cl. 266-9.000.
Nersasian, Arthur, to Du Pont de Nemours, E. I., and Company. Fluorocarbon polymer blend and vulcanizates thereof. 3,769,371, 10-30-73, Cl. 260-900.000.
Nerurkar, Mohanial Shantaram; and Dawson, Paul Ernest, to Imperial Chemical Industries Limited. Method of producing a photographic film base having a subbing layer. 3,751,280, 8-7-73, Cl. 117-73.000.
Nerwin, Hubert, to Eastman Kodak Company. Self-processing camera and film pack for use therewith. 3,712,198, 1-23-73, Cl. 95-13.000.
Nerwin, Hubert, to Eastman Kodak Company. Photographic cartridge. 3,714,876, 2-6-73, Cl. 95-13.000.
Nerwin, Hubert, to Eastman Kodak Company. Film assemblage. 3,745,900, 7-17-73, Cl. 95-19.000.
Nerwin, Hubert, to Eastman Kodak Company. Photographic film unit. 3,775,127, 11-27-73, Cl. 96-76.00c.
Nerwin, Robert, to Eastman Kodak Company. Photographic film unit. 3,751,254, 8-7-73, Cl. 96-76.00r.
Nes, Per Sigurd. Method for mounting bundles of perforated paper sheets between two perforated file covers, and a device for carrying out the method. 3,728,751, 4-24-73, Cl. 11-1.00r.
Nes, Ragnar Jonas: *See—*
Berg, Leif; and Nes, Ragnar Jonas, 3,716,154.
Nesbit, J.-Evans & Company, Limited: *See—*
Croxton, John Mervyn, 3,733,623.
Nesbitt, Frank E.: *See—*
Hawkey, Lynn J.; Landers, William A.; and Nesbitt, Frank E., 3,728,484.
Nesbitt, George G., to Denver Wood Products Co. Skirting for mobile homes. 3,753,323, 8-21-73, Cl. 52-169.000.
Nesbitt, William E. Amusement device. 3,736,698, 6-5-73, Cl. 46-41.000.
Nesgen, Hermann. Control panel with dial setting template. 3,767,873, 10-23-73, Cl. 200-50.00a.
Nesler, Margaret L.: *See—*
Apodesta, Dorothy; Cardillo, Judy I.; Eisele, Nancy E.; Fox, Eileen; and Nesler, Margaret L., 3,741,649.
Nesmith, Charles A., Jr. Binder. 3,734,542, 5-22-73, Cl. 281-47.000.
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Neuffer, Bruce H., to Brown Engineering Company, Inc. Momentum



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Newallis, Peter E., to Allied Chemical Corporation. Cyclic urea amide phosphates useful as insecticides. 3,728,451, 4-17-73, Cl. 424-200.000.
Newallis, Peter E.; Poje, Albert J.; and Epstein, Peter F., to Chemagro Corporation. Certain heterocyclic isothiocyanates used as fungicides. 3,740,435, 6-19-73, Cl. 424-285.000.
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Newell, Isaac Laird; and Houlihan, William F., to Heatbath Corporation. Corrosion resistant composition and method. 3,752,708, 8-14-73, Cl. 148-6.200.
Newell, Keith, to Sno Pac Corporation, mesne. Apparatus for aiding disposal of snow by compacting it to great density. 3,765,321, 10-16-73, Cl. 100-45.000.



Newell, Richard M., to Zeta Research, Inc. Pattern generator and method. 3,716,705, 2-13-73, Cl. 235-151.000.
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Newey, Herbert A.; and Holler, Howard V., to Shell Oil Company. Cyano-substituted polyepoxides. 3,723,361, 3-27-73, Cl. 260-2.0ep.
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Newman, Dewey F., to United States of America, National Aeronautics and Space Administration. Test stand system for vacuum chambers. 3,714,833, 2-6-73, Cl. 73-432.0sd.
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Newman, Douglas A., to Columbia Ribbon and Carbon Manufacturing Co., Inc. Thermographic transfer sheet and process of copying therewith. 3,751,286, 8-7-73, Cl. 117-36.200.
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Nibby, Chester M., Jr.; Manton, John C.; Curley, John L.; and Franklin, Benjamin S., to Honeywell Information Systems, Inc. Apparatus and method for memory refreshment control. 3,760,379, 9-18-73, Cl. 340-173.00r.
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Nicastro, Carmine A., Jr.; Vander Noordaa, Roelant S. L.; and Ward, William A., to Corning Glass Works. Manufacture of vitreous silica bodies. 3,775,077, 11-27-73, Cl. 65-18.000.
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Nicholas, David C., to Iowa State University Research Foundation, Inc. Method and system for synchronizing the transmission of digital data while providing variable length filler code. 3,777,066, 12-4-73, Cl. 178-69.50r.
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Nicholas, Merle E., to Honeywell Inc. Electrochemical vapor detector. 3,743,589, 7-3-73, Cl. 204-195.00r.
Nicholas, Michael George; and MacPhain, Iain, to United Kingdom Atomic Energy Authority. Manufacturing composite articles. 3,778,261, 12-11-73, Cl. 75-204.000.
Nicholas, Paul P., to Goodrich, B. F., Company, The. Vulcanization of halogen containing elastomers with thioalkanoic acids and their salts and uncured and cured products thereof. 3,732,174, 5-8-73, Cl. 260-2.00a.
Nicholas, Paul P., to Goodrich, B. F., Company, The. Polythiol vulcanization of epihalohydrin elastomers. 3,732,191, 5-8-73, Cl. 260-79.000.
Nicholas, Robert D.; and Clifford, James D., to Eastman Kodak Company. Photographic elements and processes. 3,737,317, 6-5-73, Cl. 96-74.000.
Nicholds, Kenneth Edmund, to Hymatic Engineering Company, Limited, The. Cryogenic cooling apparatus. 3,747,365, 7-24-73, Cl. 62-514.000.
Nicholes, Paul S. Filtration system. 3,713,440, 1-30-73, Cl. 128-188.000.
Nicholl, Edward McKillop. Manufacture of methylamines. 3,720,715, 3-13-73, Cl. 260-583.00j.
Nicholl, Thomas H. Collapsible warning device. 3,738,309, 6-12-73, Cl. 116-63.00p.
Nicholls, Arthur Ernest, to Farrow and Jackson Limited. Apparatus for filling containers with liquid. 3,776,285, 12-4-73, Cl. 141-386.000.
Nicholls, Augustus H. Mixing and proportioning syringe. 3,738,535, 6-12-73, Cl. 222-137.000.
Nicholls, Lawrence G., to Girling Limited. Vehicle suspension units. 3,726,539, 4-10-73, Cl. 280-96.20r.
Nicholls, Lawrence George, to Girling Limited. Sockets for ball and socket joints. 3,756,734, 9-4-73, Cl. 403-14.000.
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Nichols, Duane C.; and Linstromberg, William J., to Whirlpool Corporation. Unitary drive for ice maker mechanism, defrost means and air flow means. 3,771,319, 11-13-73, Cl. 62-233.000.
Nichols, Duane C., to Whirlpool Corporation. Ice maker water fill control. 3,779,032, 12-18-73, Cl. 62-233.000.
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Nichols, George E., Jr., to Bird Machine Company, Inc. Process of making a metal screen. 3,748,428, 7-24-73, Cl. 219-69.00m.
Nichols, George M., to Stauffer Chemical Company. Process for preparing aryl alkyl phosphates. 3,737,487, 6-5-73, Cl. 260-973.000.
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Nichols, John J.; and Cowell, Arvel L. Vine turner. 3,744,571, 7-10-73, Cl. 172-517.000.
Nichols, Joseph, to Princeton Biomedix Incorporated. Medicated gelled oils. 3,751,562, 8-7-73, Cl. 424-45.000.
Nichols, Kenneth E., to Gates Rubber Company, The. Turbo-compressor-pump. 3,728,857, 4-24-73, Cl. 60-36.000.
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Nichols, Matthew, to Sauter Packaging Company. Punch and die cutout station. 3,724,308, 4-3-73, Cl. 83-557.000.
Nichols, Nathan P. Battery tester having a pliable resilient body member for accomodating the battery to be tested. 3,753,095, 8-14-73, Cl. 324-29.500.
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Nichols, Richard A., to Parker-Hannifin Corporation. Vapor recovery. 3,771,317, 11-13-73, Cl. 62-54.000.
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Nicholson, Bruce; and Mitchell, James, to T.M.M. (Research) Limited. Processes and apparatus for crimping synthetic filamentary materials. 3,724,037, 4-3-73, Cl. 28-1.600.
Nicholson, Charles B., Jr., to Broughton Corporation. Rolling diaphragm vacuum control. 3,766,933, 10-23-73, Cl. 137-116.300.
Nicholson, D. Allan; and Campbell, Darrel, to Procter & Gamble Company, The. Butane-1,2,3 4-tetraphosphonic lower alkyl esters and process for same. 3,755,504, 8-28-73, Cl. 260-932.000.
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Nicholson, Morris R. Firearm with removable locking system. 3,733,731, 5-22-73, Cl. 42-69.00a.
Nicholson, Myron M., to Ford Motor Company. Spare tire extractor assist device. 3,712,586, 1-23-73, Cl. 254-1.000.
Nicholson, Newton H. Combination electric lock. 3,755,718, 8-28-73, Cl. 317-134.000.
Nicholson, Peter, to British Insulated Callenders Cables Limited. Manufacture of insulated electric cables. 3,737,490, 6-5-73, Cl. 264-40.000.
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Nicholson, Robert D., to Koehring Company. Fluidic feedback servo valve. 3,777,784, 12-11-73, Cl. 137-625.620.
Nicholson, Terence Peter, to Corrugated Packing, The and Sheet Metal Company Limited. Sealing means. 3,761,102, 9-25-73, Cl. 277-206.00r.
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Nickel, Ernst Gunter; Severin, Hans Peter; and Frye, Helmut, to Deutsche Edelstahlwerke Aktiengesellschaft. Vacuum induction melting furnaces. 3,708,600, 1-2-73, Cl. 13-27.000.
Nickel, George H., to United States of America, Air Force. Acoustic beam splitter for infrared lasers. 3,741,648, 6-26-73, Cl. 356-51.000.
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Nickell, Claude H., to Nickell, Claude H., Weldon, Winfred D., Pinke, Manuel and Pianga, Adam. Refrigerant compressor for vehicles. 3,781,135, 12-25-73, Cl. 417-295.000.
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Nickelson, Robert W., to Sunbeam Corporation. Vacuum cleaner. 3,715,775, 2-13-73, Cl. 15-410.000.
Nickerson, Charles, to American Telephone and Telegraph Company. Battery protection circuit. 3,721,887, 3-20-73, Cl. 320-13.000.
Nickerson, Charles, to American Telephone and Telegraph Company. Central office private branch exchange telephone system. 3,740,485, 6-19-73, Cl. 179-18.0ad.
Nickerson, Clive L.; and McClaine, Leslie A., to United States of America, Army. Signal conditioner for improved utilization of recording range of unbiased magnetic tape. 3,727,011, 4-10-73, Cl. 179-100.20k.
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Nickerson, Douglas W., to Motorola, Inc. Selective signalling apparatus with storage of call signals. 3,742,481, 6-26-73, Cl. 340-311.00r.
Nickerson, Earl F.; and Cole, John M., to Thomas & Betts Corporation. Wiring adapter. 3,777,299, 12-4-73, Cl. 339-17.001.
Nickerson, Economos and Noonan: *See—*
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Nickerson, Harvey R., to Resistoflex Corporation. Metal tube end fitting. 3,711,132, 1-16-73, Cl. 285-382.400.
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Nickerson, Ralph F., to Monsanto Company. Polyvinyl alcohol adhesive composition with high wet tack containing a boron compound and a cis 1, 2 polyol compound. 3,720,633, 3-13-73, Cl. 260-17.4st.
Nickerson, Robert J.; and Economos, James N., to Nickerson, Economos and Noonan. Glider toy. 3,715,833, 2-13-73, Cl. 46-79.000.
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Nickles, Stephen K.; Stogner, Joel M.; and Doerksen, James L., to Halliburton Company. Method and apparatus for measuring absolute densities. 3,747,415, 7-24-73, Cl. 73-433.000.
Nicklin, Thomas; and Farrington, Frederick, to Gas Council, The. Treatment of gases and liquids. 3,714,328, 1-30-73, Cl. 423-244.000.
Nicklin, Thomas; and Farrington, Frederick, to Gas Council, The. Treatment of gases. 3,717,699, 2-20-73, Cl. 423-222.000.
Nicko, Stanley. Fluid treatment devices. 3,715,032, 2-6-73, Cl. 210-133.000.
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Nicks, Larry J.; Lei, Kenneth P. V.; and Sullivan, Thomas A., to United States of America, Interior. Recovery of nickel and cobalt. 3,764,493, 10-9-73, Cl. 204-64.00r.
Nicks, Peter Francis, to Imperial Chemical Industries Limited. Coating compositions. 3,759,864, 9-18-73, Cl. 260-33.6ep.
Nicksic, Stephen W.; and Suzuki, Shigeto, to Chevron Research Company. $H_2S$ removal. 3,777,010, 12-4-73, Cl. 423-573.000.
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Jones, John Paul; and Nicol, Charles H., 3,749,674.
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Nicol, Ronald; and Davis, Ralph B., to Heinemann Electric Company. Circuit breaker with on, off, and trip indication. 3,742,402, 6-26-73, Cl. 335-13.000.
Nicol, Ronald, to Heinemann Electric Company. Circuit breaker with on, off, and trip indication. 3,742,403, 6-26-73, Cl. 335-13.000.
Nicol, Ronald, to Heinemann Electric Company. Circuit breaker with improved lighted indicator. 3,767,879, 10-23-73, Cl. 200-167.00a.
Nicolai, Van O.; and Fox, Harry W., to United States of America, Navy. Holding cladding for laser slabs. 3,766,493, 10-16-73, Cl. 331-94.500.
Nicolaides, John D. Golf ball testing and demonstrating apparatus. 3,777,548, 12-11-73, Cl. 73-12.000.
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Nicolas, Jean Pierre, to Feller, Adolf, Aktiengesellschaft. Electronic control device with condition responsive oscillator. 3,723,901, 3-27-73, Cl. 331-65.000.
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Nicolas, Michel; and Alison, Jacques, to Compagnie Industrielle Francaise des Tubes Electroniques. Method for making dry reed switches. 3,749,562, 7-31-73, Cl. 65-34.000.
Nicolas, Michel Jacques Robert; and Mast, Christian Francois, to Thomson-CSF. Electrical connecting device. 3,743,989, 7-3-73, Cl. 336-5.000.
Nicolaus, Horst F. E.; and Pietsch, Helmut E. W., to Vereinigte Papierwerke Schickedanz & Co. Method and apparatus for forming composite sheets of reinforced, nonwoven fibrous materials. 3,773,592, 11-20-73, Cl. 156-272.000.
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Nicolay, Karl; and Goldbeck, Heinz, to Durkoppwerke GmbH. Sewing machine with improved binder-feed arrangement. 3,747,544, 7-24-73, Cl. 112-65.000.
Nicolay, Karl; and Goldbeck, Heinz, to Durkoppwerke GmbH. Sewing apparatus for the formation of edge-piping openings. 3,747,545, 7-24-73, Cl. 112-68.000.
Nicolay, Theodore E. Container and closure for the same. 3,750,933, 8-7-73, Cl. 229-39.00r.
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Nicolle, Frederick Villeneuve. Prosthetic joint having a tissue ingrowth preventive capsule. 3,739,403, 6-19-73, Cl. 3-1.000.
Nicoloff, Nick; Courson, Richard B.; and Boden, Robert Lee, to Almo Manifold and Tool Company. Liquid spray system for metal rolling. 3,771,730, 11-13-73, Cl. 239-536.000.
Nicolson, Alexander M., to Sperry Rand Corporation. Non-destructive electromagnetic energy testing of web material. 3,715,667, 2-6-73, Cl. 324-58.50b.
Nicolson, Alexander M.; and Brophy, Robert J., to Sperry Rand Corporation. Detector having a constant false alarm rate and method for providing same. 3,755,696, 8-28-73, Cl. 307-296.000.
Nicolson, Alexander M., to Sperry Rand Corporation. Base band vehicle safety apparatus. 3,760,414, 9-18-73, Cl. 343-6.50r.
Nicolson, John G. Wheeled ski. 3,749,413, 7-31-73, Cl. 280-11.200.
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Niedrach, Leonard W.; and Bergeron, John A., to General Electric Company. Carbon dioxide sensor. 3,709,812, 1-9-73, Cl. 204-195.00p.
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Niedzielski, Donald A.; and Paffrath, Edgar C., to General Motors Corporation. Fluidic control mechanism. 3,754,449, 8-28-73, Cl. 91-35.000.
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Niehaus, Edward J.; and Benney, Harry D., to Rockwell Manufacturing Company. Circular saw blade guard. 3,754,493, 8-28-73, Cl.

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James, Donald N.; and Nightingale, Peter A., 3,758,716.

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Nielsen, Alex L. Denture. 3,768,165, 10-30-73, Cl. 32-17.000.
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Nielsen, Donald R., to PPG Industries, Inc. Diperisophthalic acid compositions. 3,770,816, 1-6-73, Cl. 260-502.00r.
Nielsen, Edward G.: *See—*
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Nielsen, Edwin: *See—*
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Nielsen, Edwin, to Ideal Toy Corporation. Cam-controlled boat. 3,736,699, 6-5-73, Cl. 46-93.000.
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Nielsen, Erling Juul, to Scan-Dia. Machine for grinding and polishing metallographic and mineralogic samples. 3,762,103, 10-2-73, Cl. 51-110.000.
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Nielsen, Jorgen F., to GTI Corporation. Wire bonder. 3,764,055, 10-9-73, Cl. 228-3.000.
Nielsen, Lars Stig, to Christian Roosing A/S. Pacemaker with continuously adjustable output amplitude. 3,777,762, 12-11-73, Cl. 128-419.00p.
Nielsen, Ole Bent Ivaermose: *See—*
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Nielsen, Ole Bent Tvaermose: *See—*
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Nielsen, Robert A.: *See—*
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Nielson, Jay P. Mechanical heart system. 3,734,648, 5-22-73, Cl. 417-310.000.
Nielson, Lonnie Ray. Inventory-recording apparatus. 3,774,228, 11-20-73, Cl. 346-104.000.
Nieman, John J. Roofing removal apparatus. 3,779,605, 12-18-73, Cl. 299-37.000.
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Niemann, Fred T. Fence guard. 3,713,624, 1-30-73, Cl. 256-32.000.
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Niemann, Heinz, to ESGE-Marby Gesellschaft mit beschrankter Haftung & Co., Firma. Universal luggage rack for placement on cycles with wheels of various diameters, such as various size bicycles. 3,779,435, 12-18-73, Cl. 224-37.000.
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Niemiec, Albin J.; and Pettibone, Raymond B., to Sperry Rand Corporation. Vane pump with fluid-biased end walls. 3,752,609, 8-14-73, Cl. 418-133.000.
Niemiec, Leo P. Snap lock plastic fencing. 3,711,066, 1-16-73, Cl. 256-19.000.
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Niemoth, Hubert R., to United States of America, Atomic Energy Commission. Alkali metal leak detector. 3,721,970, 3-20-73, Cl. 340-242.000.
Niems, Lee H. Apparatus for cooling particles. 3,721,017, 3-20-73, Cl. 34-167.000.
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Niesen, George P.; and Yoon, Moo S. Roll end detector. 3,709,604, 1-9-73, Cl. 355-64.000.
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Niesen, George P.; and Domego, Edward, to Dick, A. B., Company. Liquid developer system for electrostatic copier. 3,753,393, 8-21-73, Cl. 95-94.00r.
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Niewulis, Albin J., to Hoover Ball and Bearing Company. Seating structure with foam embedded reinforcement frame. 3,768,864, 10-30-73, Cl. 297-454.000.
Niewyk, Anthony; and Janke, Donald E., to Whirlpool Corporation. Total sensing combination washer-dryer. 3,707,856, 1-2-73, Cl. 68-12.00r.
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Niggemann, Richard E., to Sundstrand Corporation. Rankine cycle engine. 3,769,789, 11-6-73, Cl. 60-36.000.
Nighingale, Eric Gordon; and Cullis, Roger, to Rank Organisation, Limited, The. Mask and apparatus used for alignment purposes in photolithography. 3,771,872, 11-13-73, Cl. 355-125.000.
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Nitta, Haruo; Sagawa, Natoshi; Enjoji, Hideo; Niwa, Kakuo; and Kume, Shinji, to Mitsubishi Petrochemical Company, Limited. Apparatus for plasticizing thermoplastic synthetic. 3,748,074, 7-24-73, Cl. 425-207.000.

Nitta, Tohei: *See—*
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Nitta, Tohei; Shibuya, Yoshikazu; Yamada, Naoya; and Fujiwara, Yukio, to Mitsubishi Denki Kabushiki Kaisha. Discharge gap structure for lightning arresters. 3,727,090, 4-10-73, Cl. 313-214.000.

Nitta, Tsuneharu; Taki, Hiromitsu; and Nagase, Kaneomi, to Matsushita Electric Industrial Co., Ltd. Dielectric ceramic composition comprising lead-lanthanum titanate solid solution. 3,732,117, 5-8-73, Cl. 106-39.00r.

Nitta, Yoshio; Kiyokuni, Nobuaki; and Kawasaki, Kikuo, to Fuji Denki Seizo Kabushiki Kaisha. Circuit breaker. 3,736,440, 5-29-73, Cl. 307-140.000.

Nitta, Yoshio; Kiyokuni, Nobuaki; and Kawasaki, Kikuo, to Fuji Denki Seizo Kabushiki Kaisha. High-tension circuit breaker. 3,780,349, 12-18-73, Cl. 317-58.000.

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Nittel, Fritz: *See—*
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Nittel, Fritz; Pollet, Robert Joseph; and Van Poucke, Raphael K., to Agfa-Gevaert N.V. Method of incorporating photographic adjuvants into hydrophilic colloids. 3,762,925, 10-2-73, Cl. 96-100.000.

Nittel, Fritz, to Agfa-Gevaert Aktiengesellschaft. Process of incorporating additives into photographic emulsions. 3,765,897, 10-16-73, Cl. 96-100.000.

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Nitto Boseki Co., Ltd.: *See—*
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Nitto Chemical Industry Co., Ltd.: *See—*
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Nitto Kohki Company Limited, mesne: *See—*
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Nitto, Yoshio; Kiyokuni, Nobuaki; and Kawasaki, Kikuo, to Fuji Denki Seizo Kabushiki Kaisha. Control device for a circuit breaker. 3,742,246, 6-26-73, Cl. 307-143.000.

Nitton Company, Limited: *See—*
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Nitz, Albert H. Hose clamp. 3,765,066, 10-16-73, Cl. 24-279.000.

Nitz, Allen R., to Allis-Chalmers Corporation. Vacuum interrupter. 3,777,089, 12-4-73, Cl. 200-144.00b.

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Nitzsche, Siegfried; Pirson, Ewald; and Roth, Michael, to Wacker-Chemie G.m.b.H. Water-repellent for treating building materials. 3,716,399, 2-13-73, Cl. 117-123.00d.

Nitzsche, Siegfried; Pirson, Ewald; and Huber, Peter, to Wacker-Chemie G.m.b.H. Method for preparing organopolysiloxane-polyoxyalkylene block copolymers. 3,755,399, 8-28-73, Cl. 260-448.80r.

Nitzsche, Siegfried; Kaiser, Wolfgang; Wohlfarth, Ernst; and Hittmair, Paul, to Wacker-Chemie G.m.b.H. Room temperature vulcanizable silicone rubber stocks. 3,758,441, 9-11-73, Cl. 260-46.50g.

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Niven, Mary G. Golf score counter. 3,760,519, 9-25-73, Cl. 40-70.00r.

Nivon, Edmond. Grain drying apparatus. 3,739,493, 6-19-73, Cl. 34-167.000.

Niwa, Kakuo: *See—*
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Nix, William H.: *See—*
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Nix, William O.; and Fitzgerald, Timothy P., to Image Systems Inc. Carrousel-mounted microfiche magazine. 3,747,754, 7-24-73, Cl. 209-80.500.

Nix, William R. Method and apparatus for cutting openings in paneling or the like. 3,733,707, 5-22-73, Cl. 33-180.00r.

Nix, William R. Door jamb jig. 3,753,556, 8-21-73, Cl. 269-97.000.

Nixdorf Computer AG: *See—*





Buschmann, Hans; Mehlhart, Erwin; Pomplun, Emil; and Schwibbe, Alfred, 3,755,700.

Nixdorff, Frank, Jr., to Anchor Hocking Corporation. Safety closure for containers. 3,744,655, 7-10-73, Cl. 215-9.000.

Nixdorff-Krein Mfg., Co.: *See—*
Sander, Benjamin; Rueff, Robert C.; and Woltzen, Herschel E., 3,739,432.

Nixen, David; and Lee, Chune, to North American Rockwell Corporation. Plastic package assembly for electronic circuit and process for producing the package. 3,714,370, 1-30-73, Cl. 174-52.00s.

Nixon, Barrie K.: *See—*
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Nixon, Charles Roy: *See—*
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Nixon, Charles Roy; and Gasafi, Anton, to Nixon, Charles Roy. Wheel balancing device. 3,724,904, 4-3-73, Cl. 301-5.0ba.

Nixon, Douglas C. Cultivator. 3,773,113, 11-20-73, Cl. 172-642.000.

Nixon, Jack M.; and Ramler, Warren J., to United States of America, Atomic Energy Commission. Deformable beam transport system with extraction port. 3,723,785, 3-27-73, Cl. 313-63.000.

Nixon, James; Wallace, Thomas J.; and Beerbower, Alan, to Esso Research and Engineering Company. Metallized fuel emulsion. 3,709,747, 1-9-73, Cl. 149-22.000.

Nixon, James; and Beerbower, Alan, to Esso Research and Engineering Company. Emulsified carbon fuel. 3,732,084, 5-8-73, Cl. 44-51.000.

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Nixon, Philip John; and Prosser, Alan Philip, to Consolidated Gold Fields Limited. Recovery of tin from ore concentrates and other tin-bearing materials. 3,767,384, 10-23-73, Cl. 75-101.00r.

Nixon, Phillip. Drink dispensing and mixing system. 3,727,799, 4-17-73, Cl. 222-129.400.

Nixon, Robert L.: *See—*
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Nixon, Walter Barry: *See—*
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NL Industries, Inc.: *See—*
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Gildemeister, A. Donald, 3,727,295.
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Thomas, David W., 3,723,321.
Vance, Gary R., 3,746,620.

Noack, Dieter, to Siemens Aktiengesellschaft. High-voltage circuit breaker equipped with means for placing a resistor in parallel with the breaker contact during breaker closing operations. 3,763,340, 10-2-73, Cl. 200-148.00d.

Noack, Rolf; and Schulze, Heinz, to VEB Pentacon, Kamera- und Kinowerke. Photographic camera. 3,721,168, 3-20-73, Cl. 95-10.00c.

Noack, Rolf; Kromer, Karl; and Hillmann, Paul, to VEB Pentacon Dresden Kamera- und Kinowerke. Photographic focal-plane shutter. 3,733,990, 5-22-73, Cl. 95-55.000.

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Nobell, Albert. Method for manufacture of urea-formaldehyde fertilizer. 3,759,687, 9-18-73, Cl. 71-28.000.

Noble, Euan, to Schlumberger Technology Corporation. Well survey instrument housing. 3,719,088, 3-6-73, Cl. 73-431.000.

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Noble, Myron C., to Wheelabrator-Fyre Inc. Apparatus for handling parts. 3,728,822, 4-24-73, Cl. 51-15.000.

Noble, Peter M.; and Carey, John H., to Westinghouse Air Brake Company. Noise abating barrier. 3,772,993, 11-20-73, Cl. 104-1.00r.

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Noble, Roger R.; and Bernardi, William A., to Computone, Inc. Electronic musical instrument. 3,767,833, 10-23-73, Cl. 84-1.010.

Noble, Walter J.: *See—*
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Nobs, Hugo, to Maschinenfabrik Burckhardt AG. Stuffing boxes. 3,735,991, 5-29-73, Cl. 277-27.000.

Nobusawa, Tsukumo, to Asahi Kogaku Kogyo Kabushiki Kaisha. Automatic exposure controls for cameras. 3,712,190, 1-23-73, Cl. 95-10.0ct.

Nobusawa, Tsukumo, to Asahi Kogaku Kogyo Kabushiki Kaisha. Electrical circuitry for controlling camera shutters. 3,712,191, 1-23-73, Cl. 95-10.0ct.

Nobusawa, Tsukumo, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera shutter mechanism. 3,726,194, 4-10-73, Cl. 95-10.0ct.

Nobusawa, Tsukumo, to Asahi Kogaku Kogyo Kabushiki Kaisha. Photosensitive system for responding to different luminosites of an object. 3,741,088, 6-26-73, Cl. 95-10.0ct.

Nobusawa, Tsukumo, to Asahi Kogaku Kogyo Kabushiki Kaisha. Information converter. 3,765,311, 10-16-73, Cl. 95-10.0ct.

Nobusawa, Tsukumo, to Asahi Kogaku Kogyo Kabushiki Kaisha. Electrical shutter-control systems for cameras. 3,769,887, 11-6-73, Cl. 95-10.00t.

Nocek, Stanley J.; Marko, Albert J.; and Zenack, Leslie D., to Bendix Corporation, The. Arrangement for illuminating non-planar surfaces. 3,737,644, 6-5-73, Cl. 240-2.100.

Nocek, Stanley J., to Bendix Corporation, The. Gear drive for a gyro controlled attitude indicator. 3,769,845, 11-6-73, Cl. 74-5.00r.

Nocella, William F., to Honeywell Inc. Switch resetting apparatus for multi-bank push button switches. 3,778,564, 12-11-73, Cl. 200-5.00r.

Nochea, Viola-Nereida Gutierrez, to Ferquerea, Jose Materno Gutierrez y. Pencil sharpener. 3,741,265, 6-26-73, Cl. 145-3.610.

Nock, John M., to Westvaco Corporation. Method in forming a carton with integral handle. 3,776,108, 12-4-73, Cl. 93-39.00r.

Noda, Hiroshi, to Sanwa Tetsuki Kougiyou Kabushiki Kaisha. Method of clamping steel core aluminum stranded wires. 3,769,685, 11-6-73, Cl. 29-459.000.

Noda Institute for Scientific Research: *See—*
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Noda, Meigo. Triple mirror for eye make-up-curved. 3,737,216, 6-5-73, Cl. 350-306.000.

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Noda, Toshimasa; Hanaoka, Masafumi; and Kouno, Akiyoshi, to Nippon Electric Company, Limited. Color television camera using only two camera tubes. 3,739,079, 6-12-73, Cl. 178-5.4st.

Noda, Tsugio: *See—*
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Noddin, Kenneth W.; and Simmons, Walter J., to Du Pont de Nemours, E. I., and Company. Explosively actuated valve. 3,780,752, 12-25-73, Cl. 137-68.000.

Noddings, John: *See—*
Blee, Timothy John; Hyde, Lawrence Edward; and Noddings, John, 3,759,344.

Noddings, John; Hyde, Lawrence Edward; and Borton, Poland Kenneth, to Associated Engineering Limited. Speed responsive systems. 3,767,972, 10-23-73, Cl. 317-5.000.

Node 4 Associates, Inc.: *See—*
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Nodera, Katsuji: *See—*
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Nodurft, Clair A., to General Electric Company. Lighting system with auxiliary lamp control circuit and protective means therefor. 3,742,294, 6-26-73, Cl. 315-82.000.

Noguchi, Masaru, to Alps Motorola, Inc. Solenoid. 3,754,167, 8-21-73, Cl. 317-151.000.





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Nodurft, Clair A., to General Electric Company. Lighting system with auxiliary lamp control circuit and protective means therefor. 3,737,719, 6x5-73, Cl. 315-91.000.
Nodvik, Richard J.: *See—*
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Noe, Frederick F.; and Faith, William T., Jr., to Rohm & Haas Company. Enzymatic protein solubilization. 3,761,353, 9-25-73, Cl. 195-29.000.
Noe, Joe T. Adjustably illuminated picture frame. 3,742,203, 6-26-73, Cl. 240-4.000.
Noe, Max E., to Lee, Raymond, Organization, Inc., The. Fish hook setter. 3,766,679, 10-23-73, Cl. 43-15.000.
Noe, Oskar, to Fa. BWG Bergwerk- und Walzwerk-Maschinenbau G.m.b.H. Roll system for tensioning elongated work pieces. 3,722,776, 3-27-73, Cl. 226-195.000.
Noe, Oskar, to BWG Bergwerk- und Walzwerk-Maschinenbau G.m.b.H., Firma. Method of and apparatus for extending and reducing thickness of a metallic band. 3,777,532, 12-11-73, Cl. 72-205.000.
Noe, Sergio: *See—*
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Noel, Eugene M. Automatic muffin tining machine with adjustable split. 3,737,084, 6-5-73, Cl. 225-93.000.
Noel, Eugene N. Semi-automatic loader for continuous muffin griddles. 3,752,341, 8-14-73, Cl. 214-314.000.
Noel y Compania Limitada Sociedad Anonima Argentina, de Dulces y Conservas: *See—*
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Noel, Yvon-Paul: *See—*
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Noetzel, Siegfried, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Daylight fluorescent pigments and process for preparing them. 3,769,229, 10-30-73, Cl. 252-301.20r.
Noetzelmann, David C., Sr.: *See—*
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Noguchi, Hikoji. Alignment and packaging unit for eggs. 3,722,173, 3-27-73, Cl. 53-62.000.
Noguchi, Hiroshi: *See—*
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Noguchi, Ryuji, to Kabushiki Kaisha Seisan Nipponsha. Apparatus for making ribbed synthetic resin boards. 3,723,224, 3-27-73, Cl. 156-500.000.
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Noguchi, Shunsaku; Kishimoto, Shoji; Obayashi, Mikihiko; Minamida, Isao; and Kawai, Kiyohisa, to Takeda Chemical Industries, Ltd. Indan-1-carboxylic acid derivatives. 3,763,229, 10-2-73, Cl. 260-515.00a.
Noguchi, Shunsaku; Kawai, Kiyohisa; Kanai, Yoshio; and Tanayama, Shigeharu, to Takeda Chemical Industries, Ltd. Alkyl 5-(hydroxycyclohexyl)indan-1-carboxylate and derivatives thereof. 3,772,343, 11-13-73, Cl. 260-473.00f.
Noguchi, Takanobu: *See—*
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Noguchi, Teruhisa; Hashimoto, Yoshinobu; Uchiyama, Yoshio; and Ueyama, Michio, to Nippon Soda Co., Ltd. Germicidal and fungicidal agent and use thereof. 3,772,445, 11-13-73, Cl. 424-340.000.
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Noguchi, Yoshiro, to Minolta Camera Kabushiki Kaisha. Zooming device for zoom lenses. 3,765,751, 10-16-73, Cl. 350-252.000.
Noguchi, Yuichi; Araki, Kazumi; and Aoki, Naonori, to Kyowa Hakko Kogyo Co., Ltd. Process for preparing 5-amino-4-imidazole carboxamide riboside. 3,748,232, 7-24-73, Cl. 195-28.00n.
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Nohira, Hidetaka; and Kokokawa, Masaru, to Toyota Jidosha Kogyo Kabushiki Kaisha. Exhaust emission control device. 3,779,014, 12-18-73, Cl. 60-286.000.
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Noisy, Andre Queuille; and Fournex, Robert, to Roussel-UCLAF. Digestive tract protecting compositions. 3,733,400, 5-15-73, Cl. 424-81.000.
Nojima, Hideo: *See—*
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Nokes, Earl T. Necktie with simulated four-in-hand knot and tie-tac therefor. 3,761,963, 10-2-73, Cl. 2-150.000.
Nola, Frank J., to United States of America, National Aeronautics and Space Administration. Redundant speed control for brushless hall effect motor. 3,757,183, 9-4-73, Cl. 318-254.000.
Nola, Frank J.; Currie, James R.; and Reid, Harry, Jr., to United States of America, National Aeronautics and Space Administration. Induction motor control system with voltage controlled oscillator circuit. 3,760,248, 9-18-73, Cl. 318-230.000.
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Nolan, Clyde E., Jr., to Brown & Root, Inc. Internal tensioning system for laying pipeline. 3,750,451, 8-7-73, Cl. 72-393.000.
Nolan, Frank D., 50% to Contri, Bruno. Guitar, radio, microphone combination with self-contained energy source and amplifier. 3,781,451, 12-25-73, Cl. 84-1.160.
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Nolan, John J.; Marston, Peter G.; and Lontai, Laszlo N., to Magnetic Engineering Associates, Inc. Multiple matrix magnetic separation device and method. 3,770,629, 11-6-73, Cl. 210-42.000.
Nolan, John L.; and Etes, Donald E., to Hollister Incorporated. Post-surgical drainage collection pouch. 3,759,260, 9-18-73, Cl. 128-283.000.
Nolan, John L.; Rivin, Arnold A.; and Johnson, Bremen I., to Hollister Incorporated. Loop colostomy bridge. 3,779,247, 12-18-73, Cl. 128-303.00r.
Nolan, Roger William; and Wright, Maurice James, to Lucas, Joseph, (Industries) Limited. Voltage regulators for use in battery charging systems. 3,718,849, 2-27-73, Cl. 320-61.000.
Nolan, Thomas E., to RCA Corporation. High power laser system. 3,725,817, 4-3-73, Cl. 331-94.500.
Nolan, William J., Jr.; and Alpers, Frederick C., to United States of America, Navy. Discriminatory missile guidance system. 3,724,783, 4-3-73, Cl. 244-3.150.
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Noll, George C., to Koehring Company. Crane boom load transfer dolly. 3,747,957, 7-24-73, Cl. 280-404.000.
Noll, Hans. Flow cell for spectroscopic analysis of density gradients. 3,728,032, 4-17-73, Cl. 356-246.000.
Noll, Hans, to Searle, G. D., & Co. Microdispensing process and apparatus. 3,764,041, 10-9-73, Cl. 222-1.000.
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Nolles, Anthony. Animated display device. 3,748,769, 7-31-73, Cl. 40-106.520.
Nolley, Robert H., to Hughes Tool Company. Valving tube subassembly for percussion bit. 3,714,993, 2-6-73, Cl. 173-78.000.
Nolli, Giovanni, to Fiat Societe per Azioni. Positive synchromesh gears. 3,739,890, 6-19-73, Cl. 192-53.00e.
Nolt, Edwin B.; Eby, Richard R.; and Eberly, Harry G., to Sperry Rand Corporation. Knotter mechanism having a twine guide cooperating with a bill hook. 3,712,654, 1-23-73, Cl. 289-2.000.
Nolt, Edwin B.; and McIlwain, Irwin D., to Sperry Rand Corporation. Twine finger for knotter mechanism of a baler. 3,722,934, 3-27-73, Cl. 289-13.000.
Nolt, Edwin B., to Sperry Rand Corporation. Feed mechanism for a crop baler. 3,724,363, 4-3-73, Cl. 100-189.000.
Nolte, Claude B., to Kingmann-White, Inc. Relief valves for differential pressure flow meters. 3,718,048, 2-27-73, Cl. 73-407.00r.
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Nomoto, Yoshihisa; Oguino, Masanori; Ueda, Seiichi; and Kitamura, Sadao, to Hitachi, Ltd. Noise suppression circuit. 3,760,196, 9-18-73, Cl. 307-237.000.
Nomura, Harehiko; and Shimamoto, Susumu, to Industrial Science & Technology, Agency of. Aluminum clad multiplex superconductor. 3,714,371, 1-30-73, Cl. 174-126.0cp.
Nomura, Harehiko; and Shimamoto, Susumu, to Industrial Science & Technology, Agency of. Method of fabricating an aluminum clad multiplex superconductor. 3,778,895, 12-18-73, Cl. 29-599.000.
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Nomura, Masayoshi; Saida, Hiroji; Shimura, Yoshio; Sano, Hisumi; and Ono, Yuichi, to Hitachi, Ltd. Method of dividing semiconductor layer into a plurality of isolated regions. 3,753,803, 8-21-73, Cl. 148-175.000.
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Nomura, Norio, mesne: *See—*
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Nomura, Osamu; and Yajima, Kanichi, to Tokyo Shibaura Electric Co., Ltd. Lighting device for a discharge lamp. 3,781,597, 12-25-73, Cl. 315-105.000.
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Nonaka, Shunsuke; Yuuki, Tasuku; and Hara, Kouichi, to Nippon Electric Company, Limited. Piezoelectric resonator. 3,781,577, 12-25-73, Cl. 310-9.700.
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Nooi, Jacobus, to Heterochemical Corporation. Molecular complexes of a bis-(5-nitrofurfurylidene)-acetonequanylhydrazone compound and an amine. 3,778,435, 12-11-73, Cl. 260-240.00a.
Nook, Mary A.; Renis, Harold E.; and Underwood, Gerald E., to Upjohn Company, The. Method for treating influenza viral infections. 3,737,550, 6-5-73, Cl. 424-279.000.
Noon, Ivor G.: *See—*
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Noonan, Walter F., to Westlake Plastics Company. Plastic electroplating barrel. 3,767,554, 10-23-73, Cl. 204-213.000.
Noord, Jacobus Andrianus Johannes Maria Van; Rapmund, Leonard Henry; and Tacken, Jan Mathieu Marie, to U.S. Philips Corporation. Microscope and tool for mechanically and/or electrically connecting a semiconductor device to a substrate. 3,765,744, 10-16-73,Cl. 350-81.000.
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Noothout, Arend Jaman, to Reactor Centrum Nederland. Preparation of metal oxide grains. 3,728,421, 4-17-73, Cl. 264-.500.
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Norback, Hakan, to KemaNord AB. Di-cetyl peroxy dicarbonate. 3,720,700, 3-13-73, Cl. 260-463.000.
Norback, Per Gunnar, to Munters, Carl Georg. Regenerative drier for air to be conditioned. 3,708,956, 1-9-73, Cl. 55-20.000.
Norback, Per Gunnar, to Aktiebolaget Carl Munters. Device in contact bodies for liquid and gas. 3,738,626, 6-12-73, Cl. 261-112.000.



Norback, Per Gunnar. Method of fabricating a laminated wheel-like body for the transfer of thermodynamic characteristics between two fluid streams. 3,778,874, 12-18-73, Cl. 29-157.30r.
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Norbeck, Dean K., to Borg-Warner Corporation. Refrigeration system PRV motor control system. 3,751,940, 8-14-73, Cl. 62-217.000.
Norbeck, Dean K.; and Kimpel, Francis A., to Borg-Warner Corporation. Temperature control system for centrifugal liquid chilling machines. 3,780,532, 12-25-73, Cl. 62-201.000.
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Nordeen, Donald L., to General Motors Corporation. Master cylinder for power and no-power actuation. 3,766,736, 10-23-73, Cl. 60-350.000.
Nordeen, Donald L., to General Motors Corporation. Power brake booster with no-power operational features. 3,771,316, 11-13-73, Cl. 60-550.000.
Nordeen, Erwin E., to Whirlpool Corporation. Rotary brush construction for vacuum cleaner. 3,737,937, 6-12-73, Cl. 15-182.000.
Nordell, Randy J.; and Kimball, Harold C. Mechanical latch. 3,752,519, 8-14-73, Cl. 292-111.000.
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Nordgren, Alfred A., to New York Wire Mills Corporation. Apparatus for cage rolling and welding. 3,752,949, 8-14-73, Cl. 219-56.000.
Nordgren, John Lennart, to U.S. Philips Corporation. Arrangement in an electrical fuse for projectiles. 3,750,588, 8-7-73, Cl. 102-70.20p.
Nordgren, Robert, to General Mills, Inc. Carboxyalkyl ethers of galactomannan gums. 3,712,883, 1-23-73, Cl. 260-209.000.
Nordgren, Robert; Jones, Duane A.; and Wittcoff, Harold A., to General Mills Chemicals, Inc. Hydroxyalkyl polygalactomannans by reaction with certain halo fatty acid compounds. 3,723,408, 3-27-73, Cl. 260-209.00r.
Nordgren, Robert, to General Mills Chemicals, Inc. Fast hydrating alkali metal carboxyalkyl polygalactomannans and process for preparing same. 3,740,389, 6-19-73, Cl. 260-209.00r.
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Nordin, Robert W., to Teletype Corporation. Wire recording and mechanism therefor. 3,715,020, 2-6-73, Cl. 197-1.00r.
Nordin, Robert W., to Teletype Corporation. Constant torque clutches. 3,720,076, 3-13-73, Cl. 64-27.0nm.
Nordin, Robert W., to Teletype Corporation. Method of and apparatus for controlling the motion of an electromagnetic actuator. 3,772,623, 11-13-73, Cl. 335-253.000.
Nordine, Richard D., to Copystatics Manufacturing Corporation. Copying machine having early copy paper feed in multiple copy mode of operation. 3,711,198, 1-16-73, Cl. 355-51.000.
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Peill, Jurgen Eberhardt; Gerritse, Alf; Osmera, Miroslav S.; and Andersen, Christian Karmark, 3,750,557.
Nordling, Frederick, to Lynch Communication Systems, Inc. Sampling and retiming circuit for PCM repeaters. 3,710,022, 1-9-73, Cl. 178-70.00r.
Nordling, Homer G. Attachment for connecting a stern drive unit and an auxiliary outboard motor. 3,756,186, 9-4-73, Cl. 115-18.00r.
Nordling, K. Fredrik; and Huey, Samuel T., to Digital Telephone Systems, Inc. Telephone subscriber line system intra call apparatus and method. 3,778,555, 12-11-73, Cl. 179-18.0fc.
Nordmann, Edwin; and Erler, Gerhard, to VEB Wirkzeugmaschinenkombinat "Fritz Heckert" Karl-Marx-Stadt. Measuring machine. 3,750,295, 8-7-73, Cl. 33-174.001.
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Nordmann, Joseph; Mattioda, Georges Dominique; and Loiseau, Gerard Paul Marie Henri, to Ugine Kuhlmann. Choleretic and anti-convulsant medicament and a process for its preparation. 3,708,544, 1-2-73, Cl. 260-618.00r.
Nordmann, Joseph; Mattioda, Georges Dominique; and Loiseau, Gerrard Paul Marie Henri, to Kuhlmann, Vojine. Medicament with hypoglycemic properties and process for its preparation. 3,746,764, 7-17-73, Cl. 260-564.00f.
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Nordnero AB: *See—*
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Nordqvist, Jack. Apparatus for forming a foil envelop around a number of bodies assembled into a unit. 3,769,778, 11-6-73, Cl. 53-182.000.
Nordsiek, Karl-Heinz: *See—*
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Nordskog, Robert A. Self venting valve. 3,752,177, 8-14-73, Cl. 137-216.000.
Nordskog, Robert A. Power boat racing helmet. 3,763,494, 10-9-73, Cl. 2-3.00r.
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Nordstrom, John D., to Ford Motor Company. Vinyl resin-siloxane paint. 3,714,288, 1-30-73, Cl. 260-827.000.

Nordstrom, John D., to Ford Motor Company. Epoxy resin-siloxane paint. 3,719,723, 3-6-73, Cl. 260-827.000.

Nordstrom, John D., to Ford Motor Company. Acrylate-ester-siloxane-ester-acrylate paint. 3,723,167, 3-27-73, Cl. 117-93.310.

Nordstrom, John D., to Ford Motor Company. Siloxane-unsaturated ester coated product. 3,746,567, 7-17-73, Cl. 117-93.310.

Nordstrom, Kjell Helge: *See—*
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Nordstrom, Kjell Helge; and Flinth, Rune Nils Allan, to Conrail AB. Weighing device. 3,734,216, 5-22-73, Cl. 177-136.000.

Nordstrom, Kjell Helge; and Flinth, Rune Nils Allan. Weighing device. 3,741,327, 6-26-73, Cl. 177-163.000.

Nordstrom, Kjell Hlege; and Flinth, Rune Nils Allan, to Transrail AB. Weighing device. 3,747,715, 7-24-73, Cl. 177-134.000.

Nordstrom, Lars Vilhelm; Nilsson, Anders Johan; Nilsson, Mats Erik; and Persson, Sven Roland, to Rinipa AB. Air conditioning plant for buildings. 3,732,703, 5-15-73, Cl. 62-324.000.

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Norell, John R., to Phillips Petroleum Company. Normal paraffin isomerization with liquid phase $AsF_5$/HF catalyst. 3,755,493, 8-28-73, Cl. 260-683.680.

Norem, Stanley D.; O'Neill, Michael J.; and Richmond, Robert S., to Perkin-Elmer Corporation, The. Material holder. 3,732,722, 5-15-73, Cl. 73-15.00b.

Noren, Arne Ingvar, to Toleransaktiebolaget. Apparatus for stitching a continuously running web. 3,762,622, 10-2-73, Cl. 227-81.000.

Noren, Don W., to Noren Products Inc. Heat shield assembly. 3,714,981, 2-6-73, Cl. 165-47.000.

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Noren, Tore H.; and Federight, George J. Silverware sorting and polarizing machine. 3,756,403, 9-4-73, Cl. 209-73.000.

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Norfleet, John H. Scarifier for wall coverings. 3,708,880, 1-9-73, Cl. 30-172.000.

Norfleet, William V.; Sibbach, Wilmer Charles; and Schueler, Donald R. Method for repairing old sonar transducers. 3,766,630, 10-23-73, Cl. 29-401.000.

Norfolk, David E. Belt and buckle assembly. 3,777,315, 12-11-73, Cl. 2-321.000.

Norgaard, Ejvind N.: *See—*
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Norgaard, Ronald Jack. Plow blade hoist with under-truck mount. 3,769,724, 11-6-73, Cl. 37-41.000.

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Norie, Susan Grace. Bathing cap. 3,778,846, 12-18-73, Cl. 2-68.000.

Norin, Allan A., to Montgomery, Frederick Dorsey. Automatic food warmer. 3,763,768, 10-9-73, Cl. 99-483.000.

Noritake, Mitsuo, to Minolta Camera Kabushiki Kaisha. Curtain shutter for photographic cameras. 3,735,688, 5-29-73, Cl. 95-57.000.

Noriya, Kunihiko: *See—*
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Norkaitis, Anthony B. Apparatus including an oscillator for detecting short circuits in electrical components. 3,769,576, 10-30-73, Cl. 324-51.000.

Norkum, Alphonse A.; Corrigan, Joseph D.; and Davies, Keith. Step level probe. 3,777,177, 12-4-73, Cl. 307-118.000.

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Northcutt, Marvin J.; and Roeschlein, Eugene R., to United States of America, Navy. Optical divider point assembly for harmonic spectrum analysis. 3,776,641, 12-4-73, Cl. 356-171.000.
Northcutt, Michael B. Tool for removing an orthodontic onlay that has been cemented to the front surface of a tooth. 3,755,902, 9-4-73, Cl. 32-66.000.
Northcutt, Michael E. Orthodontic onlay for light-wire technique. 3,765,091, 10-16-73, Cl. 32-14.00a.
Northcutt, Michael E. Orthodontic apparatus. 3,775,850, 12-4-73, Cl. 32-14.00a.
Northcutt, Oren Van, to Dal-Air Tool Company. Ball joint air supply connection. 3,718,352, 2-27-73, Cl. 285-261.000.
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Norton, Charles J.; and Falk, David O., to Marathon Oil Company. Oil recovery with sulfomethylated poly (lower alkyl vinyl ether/maleic anhydride). 3,734,187, 5-22-73, Cl. 166-275.000.

Norton, Charles J.; and Falk, David O., to Marathon Oil Company. Oil recovery process using an unhydrolyzed polyacrylamide and partially hydrolyzed polyacrylamide mobility control agent. 3,743,018, 7-3-73, Cl. 166-275.000.

Norton, Charles J.; and Falk, David O., to Marathon Oil Company. Polyalkeneoxide and polysaccharide gum derivatives mobility control agent and process. 3,746,094, 7-17-73, Cl. 166-275.000.

Norton, Charles J.; and Falk, David O., to Marathon Oil Company. Oil recovery with methylolated polyacrylamide thickener. 3,747,676, 7-24-73, Cl. 166-275.000.

Norton, Charles J.; Drayer, Dennis E.; Reuter, Michael J.; and Robinson, Kent W., to Marathon Oil Company. Selective decomposition of hydroperoxides in the presence of polymeric peroxides and recovery of the polymeric peroxides. 3,755,466, 8-28-73, Cl. 260610.00b.

Norton, Charles J.; and Falk, David O., to Marathon Oil Company. Petroleum recovery process utilizing formaldehyde-sulfite-reacted polyacrylamide. 3,760,879, 9-25-73, Cl. 166-275.000.

Norton, Charles J.; and Falk, David O., to Marathon Oil Company. Polyalkeneoxides and polyvinyl-pyrrolidones mobility control agent and process. 3,776,310, 12-4-73, Cl. 166-275.000.

Norton, Charles J.; and Falk, David O., to Marathon Oil Company. Oil recovery with vinyl sulfonic acid-acrylamide copolymers. 3,779,917, 12-18-73, Cl. 252-8.55d.

Norton Company: *See—*
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Norton, David C.; and Ancira, William, to Avco Corporation. Pressure regulator. 3,774,628, 11-27-73, Cl. 137-115.000.

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Norton, Ian F., to Noma Lites Canada Limited. Tree stand. 3,719,340, 3-6-73, Cl. 248-48.000.

Norton Research Corporation (Canada) Limited: *See—*
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Matchen, Ben; and Robertson, David, 3,730,826.
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Norton, Richard V., to Sun Oil Company. Hydroxyalkylaminoalkylamides and their preparation. 3,714,249, 1-30-73, Cl. 260-558.00r.

Norton, Richard V., to Sun Oil Company. Process for hydroxyalkyl arylamides and imides. 3,729,510, 4-24-73, Cl. 260-326.00a.

Norton, Richard V. Process for separation of terephthalonitrile. 3,732,280, 5-8-73, Cl. 260-465.00c.

Norton, Richard V., to Sun Research and Development Co. Stabilization of beta-aminopropionitriles. 3,770,798, 11-6-73, Cl. 260-465.50r.

Norton, Richard V., to Sun Research and Development Co. Terephthalonitrile purification process. 3,770,800, 1-6-73, Cl. 260-465.00c.

Norton, Richard V., to Sun Research and Development Co. Preparation of monoammonium isophthalate. 3,770,818, 11-6-73, Cl. 260-515.00p.

Norton, Richard V., to Sun Research and Development Co. Process for monoammonium terephthalate and terephthalic acid. 3,770,819, 11-6-73, Cl. 260-515.00p.

Norton, Richard V., to Sun Research and Development Co. Hydrolysis of aromatic dinitriles. 3,781,343, 12-25-73, Cl. 260-515.00p.

Norton, Richard V., to Sun Research and Development Co. Process for purification of naphthalene carboxylic acids. 3,781,346, 12-25-73, Cl. 260-525.000.

Norton, Richard V., to Sun Research and Development Co. Process for purification of terephthalic acid. 3,781,347, 12-25-73, Cl. 260-525.000.

Norton, Robert K., to Harris-Intertype Corporation. Sheet conveyor apparatus and method. 3,730,517, 5-1-73, Cl. 271-76.000.

Norton, Robert W., to Kontes Glass Company. Multi-positional pipetting dispenser. 3,754,687, 8-28-73, Cl. 222-309.000.

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Norwalk, Marshall H., to Airco, Inc. Electron beam furnace with material-evaporant equilibrium control. 3,730,962, 5-1-73, Cl. 13-31.000.

Norwich, Daniel, to Telecredit, Inc. Credit card verification system. 3,727,187, 4-10-73, Cl. 340-149.00a.

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Nosco, Louis C.; and Ryan, James E., to Eastman Kodak Company. Easel locking device. 3,779,643, 12-18-73, Cl. 355-75.000.

Nosco, Louis C.; and Ryan, James E., to Eastman Kodak Company. Document holder exchange apparatus. 3,779,644, 12-18-73, Cl. 355-75.000.

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Nose, Shinji; Tsujimura, Hideaki; Iio, Katumi; Ishihara, Hitoshi; and Yoshimoto, Hiroshi, to Osaka Soda Co., Ltd. Process for the preparation of chlorinated polyethylene, and compositions thereof. 3,759,888, 9-18-73, Cl. 260-94.90h.

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Notari, Gennaro V.; and Rickert, Royce J., to Combustion Engineering, Inc. Nuclear reactor organization and fuel assembly arrangement. 3,725,199, 4-3-73, Cl. 176-61.000.

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Notaro, Vincent A.; and Selwitz, Charles M., to Gulf Research & Development Company. Process for preparing chlorinated aromatics. 3,714,277, 1-30-73, Cl. 260-650.00r.

Notaro, Vincent A.; and Selwitz, Charles M., to Gulf Research & Development Company. Process for preparing chlorinated aromatics. 3,717,684, 2-20-73, Cl. 260-650.00r.

Notbohm, Willard C., to Black Clawson Company, The. Multi-ply paper machine. 3,752,734, 8-14-73, Cl. 162-123.000.

Notbohm, Willard C., to Black Clawson Company, The. Pivotal mounting structures for vertical twin-wire papermaking machine. 3,772,145, 11-13-73, Cl. 162-273.000.

Notbohm, Willard C., to Black Clawson Company, The. Paper machine drying apparatus. 3,778,908, 12-18-73, Cl. 34-116.000.

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Notelteirs, Victor Rosallie; and Janssen, Eduard Jozef Philomena, to U.S. Philips Corporation. Electric incandescent lamp comprising an internal fuse. 3,717,783, 2-20-73, Cl. 312-217.000.

Notelteirs, Victor Rosallie; and Janssen, Eduard Jozef Philomina, to U.S. Philips Corporation. Support for the filament body of a tubular lamp. 3,736,455, 5-29-73, Cl. 313-274.000.

Notelteirs, Victor Rosallie; and Janssen, Eduard Jozef Philomena, to U.S. Philips Corporation. Halogen filament lamp having stabile filament supporting means. 3,777,207, 12-4-73, Cl. 313-222.000.

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Notte, Angelo Joseph; Hold, Peter; and Spitzner, Klaus Juergen, to USM Corporation. Feedback control for a continuous mixer having control of internal pressure. 3,727,892, 4-17-73, Cl. 259-10.000.

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Nottingham, Ralph B. Underwater siren. 3,738,446, 6-12-73, Cl. 181-.5ag.

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Nouchy, Claude. Process for the manufacture of synthetic leather material. 3,725,171, 4-3-73, Cl. 156-230.000.

Nourigat, Gerard, to Compagnie Generale d'Automatisme. Device for writing and reading magnetic tickets. 3,708,790, 1-2-73, Cl. 340-174.10g.

Nourse, Jack T., to Hy-Wind, Inc., mesne. Hydraulically operated window unit. 3,755,967, 9-4-73, Cl. 49-360.000.

Nouvel, Lucien. Bactericidal composition and methods employing methylene-2,2'-bis-(4-chlorothymol). 3,716,646, 2-13-73, Cl. 424-347.000.

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Novak, Ernest R., to Du Pont de Nemours, E. I., and Company. Polyethers containing repeating perchloroaromatic units. 3,736,293, 5-29-73, Cl. 260-61.000.

Novak, Ernest Richard, to Du Pont de Nemours, E. I., and Company. Cross-linkable chlorinated aromatic polymers. 3,740,375, 6-19-73, Cl. 260-61.000.

Novak, Frank A.; Schreiber, Kenneth T.; and Doleus, Anthony H., to Ardac/USA Incorporated. Change dispensing apparatus. 3,756,363, 9-4-73, Cl. 194-4.00c.

Novak, Frank A.; Schreiber, Kenneth T.; and Hydo, Steven J., to ARDAC/USA, Incorporated. Secondary detection circuit with sharp cutoff for security validating. 3,778,628, 12-11-73, Cl. 250-556.000.

Novak, George J., to Western Electric Company, Incorporated. Molding apparatus having a tunnel gated movable mold. 3,737,271, 6-5-73, Cl. 425-247.000.

Novak, Greg A. Pneumatic pressure indicator. 3,739,637, 6-19-73, Cl. 73-146.300.

Novak, John: *See—*
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Novak, Kurt. Heat therapy apparatus. 3,741,218, 6-26-73, Cl. 128-373.000.

Novak, Lawrence L.: *See—*
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Novak, Leo J., to Rand Laboratories, Inc. Device for the collection of urine. 3,745,592, 7-17-73, Cl. 4-99.000.

Novak, Leo J., to Rand Laboratories, Inc. Method for recovering urontnase from urine containing the same. 3,755,083, 8-28-73, Cl. 195-66.000.

Novak, Lorna Beth. Color coded pronunciation symbol system. 3,715,812, 2-13-73, Cl. 35-35.00j.



Novak, Mick: *See—*
Cottis, Steve G.; Nowak, Bernard E.; and Economy, James,

Novak, Mick: *See—*
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Novak, Phillip J., to Sperry Rand Corporation. Keyswitch. 3,732,390, 5-8-73, Cl. 200-168.00g.
Novak, Walter M., to Rogers Machinery Company, Inc. Air compressor system. 3,747,404, 7-24-73, Cl. 73-168.000.
Novak, Warren D. Hassock. 3,746,391, 7-17-73, Cl. 297-193.000.
Novak, Warren D. Multi-character selective display device. 3,747,091, 7-17-73, Cl. 340-378.00b.
Novanex Automation N.V.: *See—*
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Novar Corporation: *See—*
Bennett, William C., 3,720,363.
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Novella, Vladimir Nikolaevich: *See—*
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November, Milton H., to International Telephone and Telegraph Corporation. Turbine flowmeter. 3,756,079, 9-4-73, Cl. 73-231.00r.
November, Milton H., to International Telephone and Telegraph Corporation. Fluid density digital computer. 3,775,597, 11-27-73, Cl. 235-92.0mt.
Noveroske, Robert L., to Dow Chemical Company, The. Alkylenebisdithiocarbamate complex compounds. 3,755,394, 8-28-73, Cl. 260-429.900.
Novi, Giuseppe. Seamless brassieres and brassiere blanks. 3,772,899, 11-20-73, Cl. 66-176.000.
Novick, Harold L.: *See—*
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Novitch, Howard, to New England Nuclear Corporation. Dually sealable, non-leaking vial for shipping radioactive materials. 3,770,155, 11-6-73, Cl. 215-37.00r.
Novitzky, Anatol. Collapsible furniture. 3,722,952, 3-27-73, Cl. 297-440.000.
Novo Terapeutisk Laboratorium A/S: *See—*
Aunstrup, Knud; Andresen, Otto; and Outtrup, Helle, 3,723,250.
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Novosel, Thomas A.; and Erskine, Donald O., to Vermont American Corporation. Surface treatment of high speed steel metal cutting tools and the product thereof. 3,767,544, 10-23-73, Cl. 204-141.500.
Novoselov, Nikolai Mikhailovich: *See—*
Daiker, Artur Lvovich; Morozov, Alexandr Nikolaevich; Veis, Anatoly Ivanovich; Kushtuev, Boris Grigorievich; Novoselov, Nikolai Mikhailovich; Zhuravlev, Viktor Nikolaevich; Zinoviev, Alexei Fedorovich; Alfeev, Ivan Ivanovich; Nikitin, Viktor Ivanovich; Kocergin, Alexei Ilich; Matashkov, Vladimir Filippovich; Karelin, Nikolai Ivanovich; Volchematiev, Jury Venediktovich; Zaluzhentsev, Veniamin Fedorovich; and Morozov, Gennady Yakovlevich, 3,730,504.
Novotney, Marguerite E. Foot and ankle cast enclosure. 3,735,758, 5-29-73, Cl. 128-82.000.
Novotny, Antonin; Cremer, Gottfried; and Heimann, Ewald, to Schneider & Co. Light diffusing-nondiffusing window. 3,711,189, 1-16-73, Cl. 350-319.000.
Novotny, Charles J.: *See—*
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Novotny, Raymond J., to Abex Corporation. Fluid bolster spring. 3,717,105, 2-20-73, Cl. 105-197.00b.
Novotny, Raymond J., to Abex Corporation. Concrete ties. 3,739,981, 6-19-73, Cl. 238-92.000.
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Nowacki, Eduard, to May-Fran GmbH. Conveyors for metal clips. 3,773,166, 11-20-73, Cl. 198-196.000.
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Cottis, Steve G.; Nowak, Bernard E.; and Economy, James, 3,779,808.
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Nowak, Bernard E.; Economy, James; and Cottis, Steve G., to Carborundum Company, The. Substantially void-free impact molded article of infusible oxybenzol polyesters. 3,773,858, 11-20-73, Cl. 260-873.000.
Nowak, Edmund, to Zaklad Doswiadczalny Pras Automatycznych HYDOMAT przy Zakladach Mechanicznych "Tarnow". Punching and forming tool with straightening facility for metal strip. 3,759,079, 9-18-73, Cl. 72-330.000.
Nowak, Frank A.; Micchelli, Albert L.; and Legato, Gerard J., to National Starch and Chemical Corporation. Process for setting hair using a preparation comprising a single fixative-thickener. 3,726,288, 4-10-73, Cl. 132-7.000.
Nowak, Herbert: *See—*
Irmscher, Klaus; Klockow, Michael; Mehrhof, Werner; Pfitzner, Klaus; Randau, Deeter; Nowak, Herbert; and Freisberg, Karl-Otto, 3,780,171.
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Schorre, Gustav; Nowak, Herbert; and Saiko, Otto, 3,759,930.
Nowak, Hubert H., to Tenneco Inc. Catalytic-reactor with monolithic element. 3,771,967, 11-13-73, Cl. 23-288.00f.
Nowak, Leon J., to Munson Mill Machinery Co. Cutter machine. 3,708,129, 1-2-73, Cl. 241-189.000.
Nowak, Leon J., to Munson Mill Machinery Co. Screw lifter mixer. 3,752,445, 8-14-73, Cl. 259-3.000.
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Nowak, Robert M.; Woo, James T. K.; and Heinert, Dietrich H., to Dow Chemical Company, The. Copolymers of vinyl amine and vinyl alcohol as flocculants. 3,715,336, 2-6-73, Cl. 260-77.5bb.
Nowak, Roger L. Funnel. 3,750,722, 8-7-73, Cl. 141-332.000.
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Nowak, Thomas A., to Kaiser Aluminum & Chemical Corporation. Rigid filter assembly. 3,747,765, 7-24-73, Cl. 210-238.000.
Nowell, John R.: *See—*
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Genuit, Luther L.; and Nowell, John R., 3,781,636.
Nowell, John R.; and Genuit, Luther L., to Honeywell Information Systems, Inc. Loss of phase detector for a polyphase power system. 3,716,718, 2-13-73, Cl. 307-13.000.
Nowell, John R.; and Genuit, Luther L., to Honeywell Information Systems, Inc. Decrease in frequency detector. 3,758,852, 9-11-73, Cl. 324-78.00q.
Nowell, John R., to Honeywell Information Systems, Inc. Sequencer for a dual switching regulator. 3,764,889, 10-9-73, Cl. 323-17.000.
Nowell, John R., to Honeywell Information Systems, Inc. Crowbar circuit responsive to decrease in the power supply. 3,766,433, 10-16-73, Cl. 317-16.000.
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Nowicki, Jan, to Bell Canada-Northern Electric Research, Limited. Post pay telephone paystation circuit. 3,728,490, 4-17-73, Cl. 179-6.300.
Nowicki, Raymond M. Carburetor air intake filters. 3,736,900, 6-5-73, Cl. 116-70.000.
Nowicki, Raymond M. Automobile and truck carburator air intake filters. 3,740,931, 6-26-73, Cl. 55-274.000.
Nowicki, Ronald J., to General Motors Corporation. Vehicle roof ski rack. 3,719,297, 3-6-73, Cl. 214-450.000.
Nowlin, Radford L. Counter current pomace washer. 3,749,002, 7-31-73, Cl. 99-536.000.
Nowotny, Kurt A.; and Shilling, Wilbur L., to Crown Zellerbach Corporation. Process of forming polyolefin fibers. 3,743,272, 7-3-73, Cl. 264-69.000.
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Noyes, Leroy W., to General Motors Corporation. Connector contact including an isolation resistor. 3,778,752, 12-11-73, Cl. 339-147.00r.
Noyle, Clarence L., to Dow Chemical Company, The. Thienyliodonium salts. 3,763,187, 10-2-73, Cl. 260-332.30r.
Noyli, Shimon. Boat for use as a lifeboat and for other purposes. 3,727,251, 4-17-73, Cl. 9-3.000.



Nozake, Hiroshi; and Yamazaki, Masaki, to Stanley Electric Co., Ltd. Method for electrolytically forming a coating of titanium-alkaline earth metal compound oxide. 3,751,349, 8-7-73, Cl. 204-56.00r.
Nozaki, Sukekatsu: *See—*
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Nozawa, Takamitsu; and Kishi, Takao, to Yoshino Kogyosho Co., Ltd. Liquid spraying device. 3,746,261, 7-17-73, Cl. 239-333.000.
Nozawa, Takamitsu; and Kishi, Takao, to Yoshino Kogyosho Co., Ltd. Spraying device. 3,777,945, 12-11-73, Cl. 222-394.000.
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Nozick, Peter; and Tatter, Charles W., to Beatrice Foods Co. Spray dried essential oil composition. 3,764,346, 10-9-73, Cl. 426-213.000.
Nozik, Arthur Jack; Tribit, Samuel; and Williams, Ferd E., to American Cyanamid Company. White silicon carbide solids. 3,725,099, 4-3-73, Cl. 106-288.00b.
Nozik, Arthur Jack, to American Cyanamid Company. Cadmium stannate yellow pigment and method of preparation. 3,773,914, 11-20-73, Cl. 423-593.000.
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Nuber, Frederick H. Line cutting insolator. 3,779,583, 12-18-73, Cl. 285-48.000.
Nuccel, Albert W., to Teledyne, Inc. Nozzle welder. 3,708,099, 1-2-73, Cl. 228-29.000.
Nuccel, Albert W., to Teledyne, Inc. Electroslag welding machine. 3,777,106, 12-4-73, Cl. 219-76.000.
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Nuckols, Phillip H., to Abbott, Paul, Co., Inc. Auxiliary tool bar lift mechanism. 3,763,937, 10-9-73, Cl. 172-311.000.
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Nudds, Derreck Albert, to N.V. Tools Limited. Apparatus for determining viscosity. 3,734,119, 5-22-73, Cl. 137-92.000.
Nudelmont, Jean-Claude. Apparatus for indicating voltage presence phase sequence voltage magnitude ground faults, etc., in an electrical power distribution system. 3,778,801, 12-11-73, Cl. 340-253.00r.
Nudenberg, Walter: *See—*
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Nudenberg, Walter; Harvey, Merlin P.; and Mann, James U., to Uniroyal, Inc. O,O,S-triesters of phosphorodithioic acid as accelerators in the sulfur vulcanization of EPDM rubbers. 3,712,878, 1-23-73, Cl. 260-79.50b.
Nudenberg, Walter; and Delaney, Edward A., to Uniroyal, Inc. Process for preparing random high cis-SBR. 3,759,882, 9-18-73, Cl. 260-84.100.
Nudenberg, Walter; and Delaney, Edward A., to Uniroyal, Inc. Butadiene-isoprene copolymer rubber of high CIS content. 3,772,256, 11-13-73, Cl. 260-82.100.
Nuding, James M.: *See—*
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Nugent, John B., to Massachusetts Institute of Technology. Oil accumulator. 3,768,656, 10-30-73, Cl. 210-242.000.
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Nugent, John L.; and Claypool, Harry W., to Westinghouse Electric Corporation. Circuit for generating a high power RF signal having low AM and FM noise components. 3,775,698, 11-27-73, Cl. 331-75.000.
Nughes, Giovanni. Food storage containers. 3,709,399, 1-9-73, Cl. 220-67.000.
Nuitall, Fleet E.; Laing, Ralph R.; Marshall, James E.; Rhodes, Tony; Sargeant, John E.; and Workman, Larry D., to Mattel, Inc. Phonograph toy having swingable motor and record-supporting output shaft. 3,740,056, 6-19-73, Cl. 274-9.00b.
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Numakura, Toshihiko, to Sony Corporation. Television signal recording system with color information recorded on a low frequency carrier at reduced amplitude with respect to the luminance. 3,717,725, 2-20-73, Cl. 178-54.0cd.
Numakura, Toshihiko; and Yoshimatsu, Morio, to Sony Corporation. Recording and reproducing system for color video signal. 3,730,983, 5-1-73, Cl. 178-5.4cd.
Numata, Kazuo: *See—*
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Numsen, Harry P. Fire place air conditioning apparatus. 3,733,842, 5-22-73, Cl. 62-259.000.
Nunes, John F., Jr. Sod handling method. 3,776,314, 12-4-73, Cl. 172-1.000.
Nunez, Hector R. Portable vice. 3,718,327, 2-27-73, Cl. 269-37.000.
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Nunnally, Kenneth R.; Castor, William M.; and Turley, Robert R., to Dow Chemical Company, The. Multi-stage production of styrene. 3,755,482, 8-28-73, Cl. 260-669.00r.
Nunnery, Eugene B. Grass-trimming device. 3,768,569, 10-30-73, Cl. 172-17.000.
Nunning, Walter J., to Monsanto Company. Spinneret assembly. 3,730,662, 5-1-73, Cl. 425-131.000.
Nunokawa, Koji: *See—*
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Nupnau, Arthur E., to Bell & Howell Company. Film reel support assembly for projectors. 3,724,775, 4-3-73, Cl. 242-180.000.
Nupp, Donald L.; and Hilmanowski, James R., to Whirlpool Corporation. Vacuum cleaner with movable handle structure. 3,758,914, 9-18-73, Cl. 15-329.000.
Nupp, Raymond W., to EDMAC Associates, Inc. Phase locked-FM detector. 3,778,728, 12-11-73, Cl. 329-110.000.
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Nurina, Shogo; Hayashi, Yoshihiro; and Yamada, Kyohei, to Sanyo Chemical Industries, Ltd. Method for preparing salts of sulfoalkyl esters. 3,759,985, 9-18-73, Cl. 260-486.00r.
Nurmohamed, Amin Mulji; and Watters, Richard, to Elliott Brothers (London) Limited. Voter circuits for three-channel redundant systems. 3,725,818, 4-3-73, Cl. 330-124.00d.
Nurnberg, Richard K.; and Koch, Erich O., to Robertshaw Controls Company. Multiple point alarm system with two state alarm switches. 3,714,646, 1-30-73, Cl. 340-412.000.
Nurnberg, Werner; and Hanitsch, Rolf, to Licentia Patent-Verwaltungs-G.m.b.H. Shield for electrical machines. 3,714,483, 1-30-73, Cl. 310-256.000.
Nurre, Thomas C., to International Paper Company. Bulk container reinforcements. 3,777,969, 12-11-73, Cl. 229-37.00e.
Nurse, Howard L.: *See—*
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Nusbaum, Elmer R.: *See—*
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Nusonics, Inc., mesne: *See—*
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Nuss, James J., to General Electric Company. Decorative trim strip mounting means. 3,766,700, 10-23-73, Cl. 52-624.000.
Nussbaum, Frank J., to Bischoff Chemical Corporation. Method of making an electroformed mold having heat transfer conduits and foam polyurethane foundation. 3,723,584, 3-27-73, Cl. 264-45.000.
Nussbaum, Frank J. Method of making electroformed molds. 3,723,585, 3-27-73, Cl. 264-45.000.
Nussbaum, Frank J., to Bischoff Chemical Corporation. Structurizer mold. 3,733,161, 5-15-73, Cl. 425-243.000.
Nussbaum, Frank J., to Bischoff Chemical Corporation. Process of molding giant articles of structured plastic. 3,763,293, 10-2-73, Cl. 264-23.000.
Nussbaum, Hans-Georg: *See—*
Schroder, Jurgen; Von Osten, Reimer; Nussbaum, Hans-Georg; and Bartels, Ulrich, 3,735,385.
Nussbaum, Hans-Georg; and Von Osten, Reimer, to U.S. Philips Corporation. Circuit arrangement for character display on a television display screen. 3,735,384, 5-22-73, Cl. 340-324.0ad.
Nussbaum, Helmut; and Schnell, Hilmar, to Vereinigte Flugtechnische Werke-Fokker GmbH. Wing case for air foils. 3,780,969, 12-25-73, Cl. 244-123.000.
Nussbaum, Manfred: *See—*
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Nussbaum, Ralph W.: *See—*
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Nussbaumer, Henri J.: *See—*
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Nussbaumer, Henri Jean, to International Business Machines Corporation. Digital data transmission system using multilevel encoding with variable dipulse spacing. 3,781,873, 12-25-73, Cl. 340-347.0dd.
Nussbaumer, Thomas. Control device for controlling a pneumatic piston. 3,776,101, 12-4-73, Cl. 91-420.000.
Nusser, Herman; Van Eeden, Hendricus; and Ebert, Jurgen, to Bosch, Robert, G.m.b.H. Pump and electric drive motor unit. 3,754,844, 8-28-73, Cl. 417-423.00r.
Nute, Alton J.: *See—*
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Nute, Ernest B., Jr., to Armstrong Cork Company. Expansion joint for a fire-rated ceiling system. 3,722,933, 3-27-73, Cl. 287-189.36a.
Nutini, Leo G.: *See—*
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Nutku, Ata. Rotating-piston toroidal machine with rotating-disc abutment. 3,739,754, 6-19-73, Cl. 123-8.270.
Nutrico, Inc., mesne: *See—*
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Nutt, Ronald, to Ortec, Incorporated. Detecting circuit for indicating occurrence of peak in an input signal. 3,714,464, 1-30-73, Cl. 307-235.000.
Nutt, Wendell Glenn, to Bell Telephone Laboratories, Incorporated. System for maintaining low relative humidity in closures. 3,715,565, 2-6-73, Cl. 219-274.000.
Nutt, William Owen, to Cement Marketing Company Limited, The. Concrete compositions. 3,753,749, 8-21-73, Cl. 106-93.000.
Nuttall, Fleet E.: *See—*
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Summerfield, William F.; and Nuttall, Fleet E., 3,746,836.
Nuttall, Roy, to Ferranti, Limited. Semiconductor devices. 3,709,726, 1-9-73, Cl. 117-201.000.
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Nutten, Warren D.; and Phillips, Bernard C., to Borg-Warner Corporation. Charge forming method and apparatus with overspeed governor. 3,738,608, 6-12-73, Cl. 251-76.000.
Nutten, Warren D., to Tecumseh Products Company. Self-priming carburetor. 3,780,996, 12-25-73, Cl. 261-72.000.
Nutter, Benjamin P.: *See—*
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Nutter, Dale E., 30% to Nutter, Irvin E., 30% to Nutter, Martha C. and 20% to Pantaleoni, Nancy N. Contact apparatus and method. 3,747,905, 7-24-73, Cl. 261-114.00r.
Nutter, Dale E. Valve trays having means for avoiding edge erosion. 3,770,255, 11-6-73, Cl. 261-114.0vt.
Nutter, Gerald E., to Golf-In Equipment Corporation. Simulated golf game device. 3,778,064, 12-11-73, Cl. 273-176.0fa.
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Kuchl, Donald K.; Nutter, Harry A.; and Smart, Raymond C., 3,731,651.
Nutter, Irvin E.: *See—*
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Nutter, John F.; Haas, Frank C.; and Thompson, David L., to Oil Shale Corporation, The. Vanadium recovery process. 3,709,974, 1-9-73, Cl. 423-63.000.
Nutter, Martha C.: *See—*
Nutter, Dale E., 3,747,905.
Nutter, Ralph E., to Cascade Corporation. Apparatus for handling building material sheets and the like. 3,709,547, 1-9-73, Cl. 294-67.0aa.
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Nuzzi, Francis J.: *See—*
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Nuzzo, Gary J. Apparatus for producing concrete blocks with undercut portions. 3,731,899, 5-8-73, Cl. 249-142.000.
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N.V. Fabriek Van Electriche Apparaten Voorheen F. Hazemiejer & Co.: *See—*
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N.V. Foco Nederland: *See—*
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N.V. Gazelle Rijwielfabriek v/h Arentsen & Kolling: *See—*
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N.V. Hollandse Signaalapparaten: *See—*
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N.V. Ingenieursbureau voor Systemen en Octrooien "Spanstaal": *See—*
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N.V. Koniklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia: *See—*
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N.V. Nederlandse Kraanbouw Mij: *See—*
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Nyberg, Bengt Johan, to SKF Industrial Trading and Development Company N.V. Device at cooling baths for tempering furnaces. 3,744,776, 7-10-73, Cl. 266-6.00r.
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Nyberg, Ernest W. Clock with temperature alarm mechanism. 3,747,331, 7-24-73, Cl. 58-152.00r.
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Nybom, Ethel Barbro Louise, to AB Instrumenta. Device for applying a liquid along a line on a support. 3,754,654, 8-28-73, Cl. 210-198.00c.





Nyce, Jack Leland, to Du Pont de Nemours, E. I., and Company. Preparation of curable and cured fluoropolymer products.
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Nycc, Jack Leland, to Du Pont de Nemours, E. I., and Company. Preparation of curable and cured fluoropolymer products. 3,723,387, 327-73, Cl. 260-47.0up.
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Nydam, Frank, to Columbia Products Company. Heat sealed thread winding as for fishing rods. 3,769,736, 11-6-73, Cl. 43-24.000.
Nye, Glenn R., to Space Electronics, Inc. Security system for preventing unauthorized use of electric circuits. 3,754,148, 8-21-73, Cl. 307-10.0at.
Nye, Norman H.; and Medkeff, Arthur T. Method to form elongate plastic articles. 3,711,589, 1-16-73, Cl. 264-245.000.
Nye, Norman H. Depth control device. 3,727,341, 4-17-73, Cl. 43-43.130.
Nye, Norman H.; and Medkeff, Arthur T., to Nicholas and Cosma Creme. Apparatus for making and marking elongated plastic articles. 3,737,264, 6-5-73, Cl. 425-134.000.
Nye, Norman H.; and Medkeff, Arthur T., to Creme, Nicholas and Cosma. Apparatus to form elongate plastic articles. 3,776,674, 12-4-73, Cl. 425-134.000.
Nye, William M.; and Jones, Stanley W., to Lanier Electronic Laboratory, Inc., mesne. Undirectional tape motion detection apparatus and automatic tape return. 3,708,633, 1-2-73, Cl. 179-100.20r.
Nye, William M.; and Jones, Stanley W., to Lanier Electronic Laboratory, Inc. Endless tape recorder-transcriber dictation system control. 3,712,961, 1-23-73, Cl. 179-100.1dr.
Nyfeler, Franz, to Heberlein & Co., AG. Apparatus for prevention of crinkling in textile yarns. 3,726,077, 4-10-73, Cl. 57-106.000.
Nygaard, James L., to Texas Instruments, Incorporated. Automatic slice processing. 3,765,763, 10-16-73, Cl. 355-100.000.
Nykanen, Tarmo Aatos. Lamp for displaying variable shading and coloring effects and for general illumination. 3,748,459, 7-24-73, Cl. 240-46.190.
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Nyman, Bengt E.; and Becker, Larry T., to Sundstrand Corporation. Hydromechanical transmission. 3,733,931, 5-22-73, Cl. 74-868.000.
Nyman, Bengt Ebbe Harald, to Atlas Copco Aktiebolag. Programmable sequential control means having a plurality of control circuits for controlling a respective plurality of discrete suboperations. 3,744,029, 7-3-73, Cl. 340-172.500.
Nyman, Curt Lennart. Scaffold structure. 3,760,902, 9-25-73, Cl. 182-103.000.
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Nyquist, Richard A.; and Reder, Thomas L., to Dow Chemical Company, The. Substituted 3,5,6-trihalo-2-pyridyl carbonates. 3,751,421, 8-7-73, Cl. 260-295.00r.
Nyquist, Richard A.; and Reder, Thomas L., to Dow Chemical Company, The. Carbanilic acid: O-fluoro-, allyl ester. 3,770,695, 11-6-73, Cl. 260-471.00c.
Nyquist, Stephen H., to Warner Electric Brake & Clutch Company. Clutch-brake and motor circuit for engine-driven implements. 3,773,156, 11-20-73, Cl. 192-.094.
Nysted, Leonard N. Vapor diffusing composition and method of making the same. 3,745,213, 7-10-73, Cl. 424-19.000.
Nysten, Bernhard, to William Prym-Werke K.G., Firma. Device for the connection of snap fastener closure halves over a securing ring having bendable prongs on a carrier. 3,746,237, 7-17-73, Cl. 227-147.000.
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Nystroem, Ernst Holger Bertil. Jet-actuated membrane pump. 3,741,687, 6-26-73, Cl. 417-317.000.
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Nystrom, James C. Fire door lock assembly. 3,770,306, 11-6-73, Cl. 292-169.000.
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Nystrom, William A., to Stackpole Carbon Company. Jamming electronic wave-form information devices. 3,754,256, 8-21-73, Cl. 343-18.00e.
Nyswander, Rueben E., to United States of America, Navy. Automatic gain control. 3,735,272, 5-22-73, Cl. 328-132.000.
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Oakes, Grant A. Slipper bearing. 3,713,791, 1-30-73, Cl. 29-196.300.
Oakes, Grant A. Oxygen lance. 3,743,814, 7-3-73, Cl. 219-76.000.
Oakes, Harry C. Drill bit. 3,758,222, 9-11-73, Cl. 408-224.000.
Oakes, James A., to General Motors Corporation. Geometry for a PNP silicon transistor with overlay contacts. 3,763,550, 10-9-73, Cl. 29-578.000.
Oakes, Lloyd, to Joy Manufacturing Company. Elastomeric cover for a pendant switch with an untensioned intermediate position. 3,749,870, 7-31-73, Cl. 200-168.00g.
Oakes, Merwin D.; Upson, Lawrence L.; and Ziv, Martin H., to Air Products and Chemicals, Inc. Single step synthesis of triethylene diamine. 3,772,293, 11-13-73, Cl. 260-268.00t.
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Oakland Plastics Corporation: *See—*
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Oakley, Charles F.; and Marks, Larry D., to V-M Corporation. Cueing means for record player. 3,717,350, 2-20-73, Cl. 274-23.00r.
Oakley, Daniel C., to ESB Incorporated. Duplex electrode construction using continuous electrically nonconductive carrier strip. 3,723,181, 3-27-73, Cl. 136-10.000.
Oakley, Daniel C.; Jacobsen, Ralph T.; and Van Delud, Harley J., to ESB Incorporated. Battery powered electric lantern. 3,767,911, 10-23-73, Cl. 240-10.630.
Oakley, Daniel C. Duplex electrode construction using continuous electrically nonconductive carrier strip. 3,775,190, 11-27-73, Cl. 136-175.000.
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Oas, David C., to Beloit Corporation. Differential scroll drive. 3,734,399, 5-22-73, Cl. 233-7.000.
Oas, Egil. Saw-grinder combination for thin rock section machines. 3,753,430, 8-21-73, Cl. 125-14.000.
Oates, John E. Delivery of liquids into containers. 3,732,903, 5-15-73, Cl. 141-237.000.
Oatfield, John C.: *See—*
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O'Bannon, Richard M. Open cylindrical can contents ejecting device. 3,730,391, 5-1-73, Cl. 222-82.000.
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Obarski, Richard W., to United Engineering and Foundry Company. Testing machine for tires and the like. 3,726,124, 4-10-73, Cl. 73-8.000.
Obata, Hiroichi. Butane gas lighter. 3,711,241, 1-16-73, Cl. 431-344.000.
Obayashi, Mikihiko: *See—*
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Obayashi, Nobuharu, to Kabushiki Kaisha Kawai Gakki Seisakusho. Electronic musical instrument. 3,752,898, 8-14-73, Cl. 84-1.010.
Obeda, Edward G.; and Parry, Frank, to Branson Instruments Incorporated. Ultrasonic sewing machine. 3,734,805, 5-22-73, Cl. 156-580.000.
Obeda, Edward G., to Branson Instruments, Incorporated. Apparatus for exposing sheet material to ultrasonic energy. 3,737,361, 6-5-73, Cl. 156-580.000.
Obeissart, Albert, to Souriau & Cie. Electrical connectors. 3,754,206, 8-21-73, Cl. 339-90.00r.
Obenshain, David Noel, to Westvaco Corporation. Floating jogger. 3,733,070, 5-15-73, Cl. 271-89.000.
Obenshain, David Noel, to Westvaco Corporation. Electronically adjusted variable ratio drive. 3,736,821, 6-5-73, Cl. 83-76.000.
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Oberloier, John W., to Oberloier Enterprises, Inc. Trimming apparatus. 3,708,840, 1-9-73, Cl. 29-38.00c.
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Oberst, James Francis, to Bell Telephone Laboratories, Incorporated. Phase and frequency comparator. 3,723,889, 3-27-73, Cl. 328-134.000.
Oberste-Berghaus, Gerhard; and Karau, Claus-Dieter, to Bamag Verfahrenstechnik GmbH. Process for the production of nitric acid with a concentration of over 70% by weight. 3,716,625, 2-13-73, Cl. 23-161.000.
Oberthur, Heinrich, to Teves, Alfred, G.m.b.H. Switchover valve for pneumatic installations. 3,744,507, 7-10-73, Cl. 137-107.000.
Oberthur, Heinrich, to ITT Industries, Inc. Filter assembly. 3,779,390, 12-18-73, Cl. 210-495.000.
Oberto, Edwin L.; Ryan, David E.; and Wiltberger, Jon C., to Brugess Vibrocrafters Inc. Oscillating water sprinkler. 3,767,118, 10-23-73, Cl. 239-272.000.
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Obuch, Edward A.; and Waddington, William T., to Buchanan Elec-

Obland, Donald R. Computer-controlled article merchandising system for prescription drugs and like articles. 3,732,544, 5-8-73, Cl. 340-172.500.

Oblander, Kurt; and Fricker, Ludwig, to Daimler-Benz Aktiengesellschaft. Multi-cylinder injection internal combustion engine. 3,742,923, 7-3-73, Cl. 123-119.00b.

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O'Boyle, Martin J.; and Nodvik, Richard J., to Westinghouse Electric Corporation. Neutron detector. 3,742,274, 6-26-73, Cl. 313-61.000.

Obregon-Gonez, Carlos F. Washing apparatus. 3,715,770, 2-13-73, Cl. 15-23.000.

O'Brian, John Leslie; Finnimore, Bryan; and Hogg, John Arthur. Pipe joints. 3,751,078, 8-7-73, Cl. 285-339.000.

O'Brien, Billy L.; and O'Brien, Heber P. Method and apparatus for constructing and connecting underwater risers. 3,717,002, 2-20-73, Cl. 61-72.300.

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O'Brien, John A., to Itek Corporation. Document reproduction apparatus. 3,712,729, 1-23-73, Cl. 355-25.000.

O'Brien, John B.; Stone, Herman; and Ulmer, Harry E., to Allied Chemical Corporation. Chloro-N,N-disubstituted amino methylene amino-s-triazines. 3,732,220, 5-8-73, Cl. 260-249.800.

O'Brien, Lawrence H., to Hughes Aircraft Company. Traveling wave tube power supply. 3,723,798, 3-27-73, Cl. 315-3.500.

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O'Brien, Paul J.; and Messias, Harold F., to United States of America, Navy. Far field signal simulation utilizing cylindrical arrays. 3,740,707, 6-19-73, Cl. 340-9.000.

O'Brien, Raymond W. Apparatus for controlling the tension of webs. 3,712,555, 1-23-73, Cl. 242-72.000.

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O'Brien, Samuel James; Stockel, Richard Frederick; and Herbes, William Frank, to American Cyanamid Company. Tris(hydroxymethyl)phosphine phosphates as flame retardants for textile materials. 3,737,284, 6-5-73, Cl. 8-116.300.

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Obszarny, Theodore J., to Guardian Electric Manufacturing Company. High speed push button switch. 3,718,793, 2-27-73, Cl. 200-160.000.

Obszarny, Theodore J., to Guardian Electric Manufacturing Company. Sequence relay. 3,735,296, 5-22-73, Cl. 335-165.000.

Obuch, Edward A.; and Waddington, William T., to Buchanan Electrical Products Corporation. Hand tool for tensioning and cutting wire tie straps. 3,735,784, 5-29-73, Cl. 140-93.200.

Obuchi, Kazuo, to Fuji Photo Film Co., Ltd. Process utilizing single charging means for effecting simultaneous functions of charging and facilitating toner image transfer. 3,764,207, 10-9-73, Cl. 355-3.000.

Obukhov, Vitaly Arsenievich; and Glazkov, Vladimir Petrovich. Rotor of a synchronous non-salient-pole machine. 3,749,957, 7-31-73, Cl. 310-265.000.

O'Callaghan, Gerald F., to Eaton Corporation. Device for sensing the direction and speed of a shaft. 3,728,565, 4-17-73, Cl. 310-168.000.

O'Callaghan, Gerald F., to Eaton Corporation. Synchronizing plural motor control system for machines. 3,764,868, 10-9-73, Cl. 318-85.000.

Ocasio, Gerardo; and Tuman, Edwin, to Noma-World Wide Inc. Circuit tester for Christmas tree light sets. 3,760,266, 9-18-73, Cl. 324-51.000.

Occhialini, Carlo; and Tattini, Claudio, to Samputensill S.p.A. Apparatus for checking gear teeth and their anomalies. 3,774,313, 11-27-73, Cl. 33-129.50b.

Occhipinti, Carl, to Bunker Ramo Corporation, The. Electrical connector. 3,731,259, 5-1-73, Cl. 339-66.00m.

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Ochiai, Takeshi, to Toyota Jidosha Kogyo Kabushiki Kaisha. Skid control device. 3,744,855, 7-10-73, Cl. 303-21.0be.

Ochiai, Takeshi, to Toyota Jidosha Kogyo Kabushiki Kaisha. Pressure modulator assembly. 3,752,537, 8-14-73, Cl. 303-21.00f.

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Ocker, Herbert, to Werner & Pfleiderer. Process for continuously producing soap and device for carrying out the process. 3,764,114, 10-9-73, Cl. 259-6.000.

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O'Connell, John J., Jr. Cylindrical container and spherical contents therefor. 3,768,636, 10-30-73, Cl. 206-42.000.

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O'Connell, Richard P.; and Zucker, Edwin, to Xerox Corporation. Microfiche viewer-copier with billing data storage. 3,734,610, 5-22-73, Cl. 355-40.000.

O'Connell, Richard P.; Kingsley, William; and Zucker, Edwin, to Xerox Corporation. Microimage ransom access and retrieval printer. 3,759,611, 9-18-73, Cl. 355-43.000.

O'Connell, Thomas Francis. Game employing magnet playing pieces and magnetizable game board. 3,765,679, 10-16-73, Cl. 273-131.0ad.

O'Conner, James F.; and Black, Gordon L., to Ameron, Inc. Method of vibrating a mold case. 3,711,587, 1-16-73, Cl. 264-71.000.

O'Connor, Anthony, to Vickers Limited. Microscope objectives. 3,711,186, 1-16-73, Cl. 350-214.000.

O'Connor, Bernard J.; and De Carlo, Frank S., to Bendix Corporation, The. Failure detection and control means for improved drift performance of a gimballed platform system. 3,739,646, 6-19-73, Cl. 74-5.340.

O'Connor, Chadwell. Instrument support structure. 3,722,847, 3-27-73, Cl. 248-407.000.

O'Connor, David E.: *See—*
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O'Connor, Donald J.; and Fast, Clarence R., to Amoco Production Company. Igniter mechanism for solid propellants under high fluid head. 3,713,393, 1-30-73, Cl. 102-70.000.

O'Connor, Donald T.; Rosauer, Peter J.; and Lorenzi, Donald E., to Magnaflux Corporation. Flaw detector for square billets using magnetic tape helically moved about said billets. 3,760,263, 9-18-73, Cl. 324-37.000.

O'Connor, Donald T.; Graham, Bruce C.; and Prine, David W., to Magnaflux Corporation. Defect detecting and indicating means for non-destructive testing. 3,774,030, 11-20-73, Cl. 250-302.000.

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Lademann, Ernest E.; and O'Connor, James J., 3,736,543.
Lademann, Ernest E.; and O'Connor, James J., 3,769,698.

O'Connor, John A., to Avco Corporation. Diffuser centrifugal compressor. 3,743,436, 7-3-73, Cl. 415-181.000.

O'Connor, John A., to Avco Corporation. Pipe diffuser with aerodynamically variable throat area. 3,768,919, 10-30-73, Cl. 415-116.000.

O'Connor, Joseph, Jr., to Kieley & Mueller, Inc. Control valve and process control system. 3,709,245, 1-9-73, Cl. 137-127.000.

O'Connor, Joseph, Jr. Control valve. 3,746,049, 7-17-73, Cl. 137-802.000.

O'Connor, Joseph, Jr., to Kieley & Mueller, Inc. Control valve and process control system. 3,747,636, 7-24-73, Cl. 137-561.000.

O'Connor, Joseph, Jr., to Dieley & Mueller, Inc. Aerodynamically and hydrodynamically stable torqued butterfly valve and vane. 3,770,242, 11-6-73, Cl. 251-305.000.

O'Connor, Joseph, Jr., to Kieley & Mueller, Inc. Process flow meter. 3,774,882, 11-27-73, Cl. 251-369.000.

O'Connor, Joseph, Jr., to Kieley & Mueller, Inc. Control valve and process control system. 3,776,265, 12-4-73, Cl. 137-487.500.

O'Connor, Joseph, Jr., to Kieley & Mueller, Inc. System for changing fluid movement into electrical energy. 3,776,279, 12-4-73, Cl. 137-802.000.

O'Connor, Joseph, Jr., to Kieley & Mueller, Inc. Control valve and process control system. 3,779,514, 12-18-73, Cl. 251-369.000.

O'Connor, Joseph M.; and Pasternak, Stephen F., to Peerless of America, Incorporated. Heat exchanger. 3,779,311, 12-18-73, Cl. 165-171.000.

O'Connor, Joseph W.; and Orem, Victor C., to United States of America, National Aeronautics and Space Administration. Fastener stretcher. 3,749,362, 7-31-73, Cl. 254-29.00a.

O'Connor, Kevney J.: *See—*
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O'Connor, Leo Thomas, Jr.: *See—*
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O'Connor, Liam, to O'Connor, Liam, and Company Limited. Closure assembly for a bulk container. 3,718,231, 2-27-73, Cl. 220-41.000.

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O'Connor, Robert F., to Textron Inc. Pneumatically actuated fastener driving device with improved sleeve valve for controlling the pressure beneath the drive piston. 3,715,069, 2-6-73, Cl. 227-130.000.

O'Connor, Sean J.: *See—*
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O'Connor, Sean J.; and Tefft, Franklin A., to United Aircraft Corporation. Feel augmentation control system for helicopters. 3,733,039, 5-15-73, Cl. 244-77.00d.

O'Connor, Thomas J. Electro-erosion machining electrode. 3,740,519, 6-19-73, Cl. 219-69.00e.

O'Connor, Thomas J. Electrical machining structure. 3,772,494, 11-13-73, Cl. 219-69.00g.

O'Connor, Ward F., to Lummus Company, The. Control device. 3,726,502, 4-10-73, Cl. 251-62.000.

O'Connor, Ward F.; and Van Vliet, William George, to Lummus Company, The. Control stabilizing techniques. 3,727,036, 4-10-73, Cl. 235-150.100.

O'Connor, Ward F., to Lummus Company, The. Apparatus for measuring fluid characteristics. 3,754,446, 8-28-73, Cl. 73-453.000.





O'Connor, Ward F., to Lummus Company, The. Control device. 3,759,296, 9-18-73, Cl. 137-806.000.

O'Dell, Sterling L.: *See—*





Oehler, Carl W., to Oehler Steel Company, mesne. Pull trailer and load lift means. 3,752,502, 8-14-73, Cl. 280-440.000.

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O'Connor, Ward F., to Lummus Company, The. Control device. 3,759,296, 9-18-73, Cl. 137-805.000.
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Oda, Minoru, to Mitsubishi Denki Kabushiki Kaisha. DC Regencrating systems having current source exhibiting positive resistance and having zero crossing V-I characteristic at a reference potential. 3,735,152, 5-22-73, Cl. 307-237.000.
Oda, Nakaaki; Morioka, Nagaharu; Makino, Yoshio; and Yoshida, Akira, to Nippon Soda Co., Ltd. Method and composition for chemical polishing of stainless steel surfaces. 3,709,824, 1-9-73, Cl. 252-142.000.
Oda, Osamu, to Dainippon Screen Seizo Kabushiki Kaisha. Inking arrangement in offset proof press for multicolor printing. 3,734,014, 5-22-73, Cl. 101-186.000.
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Oda, Teishiro; Nakamura, Makoto; and Zama, Masato, to Mitsubishi Jukogyo Kabushiki Kaisha. Method for making propellers of high-strength and high-toughness cast steel. 3,729,345, 4-24-73, Cl. 148-3.000.
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Odagiri, Yoichi, to Sony Corporation. Magnetic recording and/or reproducing apparatus with transducer extending through a record support plate having an annular groove. 3,764,758, 10-9-73, Cl. 179-100.20p.
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Ode, Bengt; Suvanto, Antti; and Tornblom, Lars, to AB Asea-Atom. Control rod drive for a water-cooled nuclear reactor. 3,775,247, 11-27-73, Cl. 176-36.000.
O'Dea, John A., to Jaeger Machine Company, The. Direct gear drive for truck mixer. 3,754,737, 8-28-73, Cl. 259-177.00a.
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O'Dell, George B., to General Electric Company. Appliance including electric diagnosis means. 3,736,765, 6-5-73, Cl. 62-127.000.
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O'Dell, Rawleigh D., 1/2 to O'Dell, Ulace J. Ladder platform attachment. 3,710,894, 1-16-73, Cl. 182-106.000.
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Odier, Jean Alfred, to Societe Anonyme Francaise du Ferodo. Braking rotating components and cooling means. 3,767,015, 10-23-73, Cl. 188-71.600.
Odier, Marc. Game with polyhedral playing pieces. 3,712,622, 1-23-73, Cl. 273-130.00r.
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Odman, Tor Axel, to Aktiebolaget Tudor. Apparatus for arranging and soldering together electrode sets for lead accumulators. 3,734,167, 5-22-73, Cl. 164-324.000.
Odney, Erling. Fishing device. 3,739,514, 6-19-73, Cl. 43-17.000.
Odom, Clyde H.; and Kunselman, Maurice H., to United States of America, Atomic Energy Commission. Apparatus for leaching core material from sheared segments of clad nuclear fuel pins. 3,730,689, 5-1-73, Cl. 23-269.000.
Odom, George P., to Berk, Jeremiah E., Esq. Tic-tac-toe game. 3,747,926, 7-24-73, Cl. 273-130.00b.
Odom, Richie G.; and Fowler, Carson W. Irrigation equipment for tractor. 3,739,985, 6-19-73, Cl. 239-172.000.
Odom, Robert E.; and Ayres, Richard H., to Bemis Company, Inc. Method and apparatus for adhesive sealing of plastic bags. 3,720,559, 3-13-73, Cl. 156-202.000.
Odone, Giovanni, to Bolex International S.A. Continuous film movement motion picture apparatus. 3,743,396, 7-3-73, Cl. 352-109.000.
Odone, Giovanni, to Silma S.p.A. Synchronizing system to synchronize the speed of a DC motor with the frequency of a command pulse train. 3,772,580, 11-13-73, Cl. 318-318.000.
O'Donnell, Cedric F.; and Pulliam, George R., to North American Rockwell Corporation. Magnetic bubble domain system. 3,715,736, 2-6-73, Cl. 340-174.0tf.
O'Donnell, Cedric F.; and Pulliam, George R., to North American Rockwell Corporation. Magnetic bubble domain system. 3,717,853, 2-20-73, Cl. 340-174.0tf.
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O'Dowd, Joseph, to Lee, Raymond, Organization, Inc., The. Child's swing. 3,722,883, 3-27-73, Cl. 272-85.000.
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Oefinger, Richard W., to USM Corporation. Fastener driving tool with slidable fastener guide. 3,776,443, 12-4-73, Cl. 227-10.000.
Oehler, Carl W. Pallet type load transport apparatus. 3,719,299, 3-6-73, Cl. 214-515.000.



Oehler, Carl W., to Oehler Steel Company, mesne. Pull trailer and load lift means. 3,752,502, 8-14-73, Cl. 280-440.000.
Oehler, Carl W., to Oehler Steel Company, mesne. Load pallet construction. 3,759,192, 9-18-73, Cl. 108-44.000.
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Oeland, Ernest N., Jr., to United States of America, Navy. Diver's belt and method of manufacture. 3,735,598, 5-29-73, Cl. 61-70.000.
Oeland, Ernest N., Jr., to United States of America, Navy. Lift cable transfer apparatus. 3,779,195, 12-18-73, Cl. 114-51.000.
Oellerich, Werner B. Anti-theft apparatus for skis. 3,754,420, 8-28-73, Cl. 70-58.000.
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Oertel, Gunter; Dahm, Manfred; Holtschmidt, Hans; and Roegler, Manfred, to Bayer Aktiengesellschaft. Stabilizers for cellular polyurethanes. 3,739,014, 6-12-73, Cl. 260-472.000.
Oertel, Gunter; Holtschmidt, Hans; Dollhausen, Manfred; and Bock, Eugen, to Bayer Aktiengesellschaft. Adhesives containing diphenylmethane tetraisocyanate derivatives. 3,763,110, 10-2-73, Cl. 260-77.5ap.
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Oertel, Harald; Eholzer, Ulrich; and Rosendahl, Friedrich-Karl, to Bayer Aktiengesellschaft. Semicarbazide with substituted phenyl group. 3,748,357, 7-24-73, Cl. 260-554.000.
Oertel, Harald; Reiff, Helmut; and Dieterich, Dieter, to Bayer Aktiengesellschaft. Polyurethane elastomers with high affinity for dyes. 3,763,058, 10-2-73, Cl. 260-2.5ay.
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Oetiker, Hans. Structural assemblies. 3,769,772, 11-6-73, Cl. 52-646.000.
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Off, Joseph W. A., to Kayser-Roth Corporation. Apparatus for feeding and cutting a band of sheet material. 3,728,922, 4-24-73, Cl. 83-277.000.
Offenbroich, Adrian Gottfried. Fastening devices. 3,731,958, 5-8-73, Cl. 287-189.36h.
Offenbroich, Adrian Gottfried. Expanding-type fastening device for detachable interconnection of hollow structural details. 3,753,583, 8-21-73, Cl. 287-54.00a.
Offer, Robert J., to Tenneco Inc. Replaceable element coolant filter. 3,776,384, 12-4-73, Cl. 210-209.000.
Offerman, Seymour, to Industrial Electronic Hardware Corporation. Kinescope tube socket with component receiving means. 3,728,587, 4-17-73, Cl. 317-118.000.
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Offner, Abe, to Perkin-Elmer Corporation, The. Unit power imaging catoptric anastigmat. 3,748,015, 7-24-73, Cl. 350-55.000.
Offner, Franklin F., to Spectra-Physics, Inc. Tunable lasers. 3,743,965, 7-3-73, Cl. 331-94.500.
Offner, William E., to Owens-Corning Fiberglas Corporation. Glass fiber reinforced elastomers. 3,755,009, 8-28-73, Cl. 117-126.0gb.
Offshore Company, The: *See—*
Dalzell, John F., 3,726,247.
Gadbots, John F., 3,760,891.
Sharp, Frank W., Jr., 3,745,774.
Offshore Recovery System, Inc.: *See—*
Cunningham, Byron H., 3,745,773.



Offutt, Carl R., to Whirlpool Corporation. Timer with cycle and time



Ogawa, Hiroshi; Suzuki, Toshi;

Offutt, Carl R., to Whirlpool Corporation. Timer with cycle and time dependent runout for dryer. 3,762,064, 10-2-73, Cl. 34-45.000.
Offutt, Elmer Bradley; and Babich, Edward, to Vendo Company, The. Product dispensing apparatus. 3,737,071, 6-5-73, Cl. 221-129.000.
Ofner, Max, to SFB Spezial-Filterbau M. Ofner K.G. Apparatus for electrostatically coating the surfaces of articles with pulverulent materials. 3,714,926, 2-6-73, Cl. 118-603.000.
Ofstead, Eilert A., to Goodyear Tire & Rubber Company, The. Interpolymers of polycyclic polyunsaturated hydrocarbons and cyclic olefins. 3,746,695, 7-17-73, Cl. 260-88.20d.
Oftedahl, Lee, to Vanderstelt, Charles R. Apparatus for orienting and supporting the cylinders of an internal combustion engine. 3,742,579, 7-3-73, Cl. 29-214.000.
Ofu Ofenbau-Union GmbH: *See—*
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Ogasawara, Takeo: *See—*
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Ogasawara, Takeo; and Ishikawa, Masakazu, to Kabushiki Kaisha Toyota Chuo Kenkyusho and Toyota Jidosha Kogyo Kabushiki Kaisha. Disc brake anti squeal means. 3,722,634, 3-27-73, Cl. 188-73.500.
Ogasawara, Tatsuo: *See—*
Sasaki, Rentaro; Watanabe, Akinori; Ogasawara, Tatsuo; and Watanabe, Satoshi, 3,775,633.
Ogasawara, Toyotsugu, to Tomy Kogyo Co., Ltd. Toy vehicle. 3,738,057, 6-12-73, Cl. 46-243.000.
Ogata, Fumimaro: *See—*
Ando, Satoshi; Matsui, Masao; and Ogata, Fumimaro, 3,725,192.
Ogata, Ikuci: *See—*
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Ogata, Masaru, to Shionogi & Co., Ltd. 1,2-Epoxy-methano-A-norstcroid compounds and process for preparation thereof. 3,758,507, 9-11-73, Cl. 260-333.000.
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Ogata, Youji; and Matsuda, Matsuo, to Mitsubishi Jukogyo Kabushiki Kaisha. Method of constructing concrete chimneys. 3,761,551, 9-25-73, Cl. 264-33.000.
Ogawa, Akira: *See—*
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Ogawa, Francis T., to Honeywell Inc. Remotely controlled light sensing apparatus. 3,714,443, 1-30-73, Cl. 250-214.00p.
Ogawa, Francis T., to Honeywell Inc. Computer flash with remote sensor and two-wire control of flash firing and quench. 3,737,721, 6-5-73, Cl. 315-151.000.
Ogawa, Francis T., to Honeywell Inc. Adapter circuit for use with auto exposure camera. 3,756,132, 9-4-73, Cl. 95-10.0cc.
Ogawa, Francis T., to Honeywell Inc. Remotely powered quench control sensing transmitter. 3,774,072, 11-20-73, Cl. 315-151.000.
Ogawa, Haruki: *See—*
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Ogawa, Hasaya, to Minolta Camera Kabushiki Kaisha. Electrophotographic duplicator. 3,776,629, 12-4-73, Cl. 355-8.000.
Ogawa, Hiromichi: *See—*
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Ogawa, Hiroshi; Suzuki, Toshi; Suzuki, Tadashi; and Tanaka, Mitsuaki, to Victor Company of Japan, Limited. Magnetic head having multiple head cores. 3,751,599, 8-7-73, Cl. 179-100.0zc.
Ogawa, Hisashi, to Toyota Jidosha Kogyo Kabushiki Kaisha. Switch actuating mechanism responsive to opening and closing of a door. 3,757,064, 9-4-73, Cl. 200-61.640.
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Ogawa, Kinya: *See—*
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Ogawa, Masaya, to Minolta Camera Kabushiki Kaisha. Transfer type electrophotographic duplicating apparatus. 3,771,866, 11-13-73, Cl. 355-3.000.
Ogawa, Masaya; and Wada, Kenichi, to Minolta Camera Kabushiki Kaisha. Variable magnefication copier machine. 3,779,642, 12-18-73, Cl. 355-55.000.
Ogawa, Masaya; and Seino, Kuniki, to Minolta Camera Kabushiki Kaisha. Method and apparatus for forming latent electro-static images. 3,781,108, 12-25-73, Cl. 355-17.000.
Ogawa, Masayuki: *See—*
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Ogawa, Morimasa; and Gono, Kiyoshi, to Matsushita Electric Industrial Co. Ltd. High-frequency heating equipment. 3,715,553, 2-6-73, Cl. 219-10.550.
Ogawa, Nobuhisa; Koji, Nobuhiko; and Murayama, Yukio, to Mochida Seiyaku Kabushiki Kaisha. Method for extracting urokinase. 3,723,251, 3-27-73, Cl. 195-66.00b.
Ogawa, Nobuhisa; Koji, Nobuhiko; and Murayama, Yukio, to Mochida Seiyaku Kabushiki Kaisha. Method for removing pyrogenic substances out of urokinase. 3,723,252, 3-27-73, Cl. 195-66.00b.
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Ogawa, Tokuo; Sakano, Tatsumi; and Okamura, Shigeyoshi. Disc brake including vibration dampening means. 3,730,302, 5-1-73, Cl. 188-73.500.
Ogawa, Toshiya, to Kabushiki Kaisha Ricoh. Device for controlling the feeding of copy sheets to a small offset printing machine. 3,750,566, 8-7-73, Cl. 101-144.000.
Ogawa, Toshiya; and Hasegawa, Toro, to Ricoh Co., Ltd. Copy sheet distinguishing device for rotary offset printing machines. 3,779,162, 12-18-73, Cl. 101-142.000.
Ogawa, Yasuhide; Kawase, Yutaka; Takada, Makoto; and Fujioka, Hideki, to Nippon Electric Company, Limited. Electron beam welding apparatus. 3,731,052, 5-1-73, Cl. 219-121.0eb.
Ogawa, Yasuhiro; Nooya, Kazuo; Awata, Norio; and Yamakawa, Yukio, to Kanegafuchi Boseki Kabushiki Kaisha. Sewing thread and a method of preparing same. 3,775,960, 12-4-73, Cl. 57-140.00r.
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Ogden, Paul H., to Minnesota Mining and Manufacturing Company. Hydrolyzing fluorodiazadienes to form N,N'-fluoroaliphatic-substituted ureas. 3,745,169, 7-10-73, Cl. 260-309.700.
Ogden, Ralph, Sr.; Colley, John G.; and Neidhart, Edward F., said Colley, said Neidhart, and said Johnson assors. to said Ogden Engineering Corporation. Air cooled welding gun. 3,731,048, 5-1-73, Cl. 219-130.000.
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Ogi, Mikio; and Uchiyama, Yasuji, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument with built-in tape recorder. 3,746,772, 7-17-73, Cl. 84-1.020.
Ogi, Mikio, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument with variable impedance playboard providing portamento. 3,776,087, 12-4-73, Cl. 84-1.240.
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Ogiso, Mitsutoshi; and Ito, Tadashi, to Canon Kabushiki Kaisha. Exposure controlling device for a camera. 3,718,075, 2-27-73, Cl. 95-10.0ct.
Ogiso, Mitsutoshi, to Cannon Kabushiki Kaisha. Exposure value controlling apparatus. 3,721,167, 3-20-73, Cl. 95-10.0ct.
Ogiso, Mitsutoshi; and Ishikawa, Mitsuo, to Canon Kabushiki Kaisha. Electronic shutter for cameras. 3,726,200, 4-10-73, Cl. 95-53.300.
Ogiso, Mitsutoshi; Itani, Takashi; and Takahashi, Kiyoshi, to Canon Kabushiki Kaisha. Film-tape synchronization system. 3,733,117, 5-15-73, Cl. 352-22.000.
Ogiso, Mitsutoshi; and Taguchi, Tetsuya. Output voltage regulation system. 3,746,892, 7-17-73, Cl. 307-297.000.
Ogita, Nobuya, to Hoya Glass Works. Amorphous, non-denitrious fluorophospate optical glass, free of yellow coloring and process for producing the same. 3,743,492, 7-3-73, Cl. 65-32.000.
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Ogland, Jon W., to Westinghouse Electric Corporation. High resolution, high intensity cathode ray tube. 3,766,428, 10-16-73, Cl. 315-31.00r.
Ogle, James A., to Burroughs Corporation. Video display system using display panel. 3,742,483, 6-26-73, Cl. 340-324.00m.
Ogle, James A.; and Holz, George E., to Burroughs Corporation. Panel-type display device. 3,766,420, 10-16-73, Cl. 313-109.500.
Ogle, James A., to Burroughs Corporation. Panel-type display device having display cells and auxiliary cells for operating them. 3,767,968, 10-23-73, Cl. 315-169.0tv.
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Ogle, Robert W., to Lyoflo-Stopper Corporation. Lyoflo-stopper. 3,708,886, 1-9-73, Cl. 34-5.000.
Ogle, Robert Walter, to IMS Limited, mesne. Saf-t-jet. 3,739,780, 6-19-73, Cl. 128-220.000.
Oglesbee, Richard K., to Anchor Hocking Corporation. Carton lock. 3,746,245, 7-17-73, Cl. 229-40.00r.
Oglesbee, Richard K., to Anchor Hocking Corporation. Package for tumblers and the like. 3,760,974, 9-25-73, Cl. 220-23.830.
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Oguchi, Yutaka; and Kubo, Junichi, to Nippon Oil Company, Limited. Liquid-solid particle or liquid-gas-solid particle contacting method. 3,754,993, 8-28-73, Cl. 134-25.00r.
Oguchi, Yutaka; and Nomura, Hirotsugu, to Nippon Oil Company, Limited. Process for the catalytic hydrogenation of distillation residuum-containing hydrocarbons and the catalyst composition therefor. 3,766,057, 10-16-73, Cl. 208-143.000.
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Oguma, Tomio, to Honda Giken Kogyo Kabushiki Kaisha. Apparatus for controlling the pressure of a fluid fed to a clutch of a transmission. 3,722,646, 3-27-73, Cl. 192-109.00f.
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Ohara, Hiroshi; and Ohara, Yoshiaki, to Ohara Optical Glass Mfg. Co., Ltd. Optical glass. 3,723,144, 3-27-73, Cl. 106-47.000.
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Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,197, 11-27-73, Cl. 148-1.500.
Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,198, 11-27-73, Cl. 148-1.500.
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Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,202, 11-27-73, Cl. 148-1.500.
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Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,205, 11-27-73, Cl. 148-1.500.
Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,206, 11-27-73, Cl. 148-1.500.
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Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,212, 11-27-73, Cl. 148-1.500.
Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,213, 11-27-73, Cl. 148-1.500.
Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,214, 11-27-73, Cl. 148-1.500.
Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,215, 11-27-73, Cl. 148-1.500.
Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,216, 11-27-73, Cl. 148-1.500.
Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,217, 11-27-73, Cl. 148-1.500.
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Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,223, 11-27-73, Cl. 148-1.500.
Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,224, 11-27-73, Cl. 148-1.500.
Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,225, 11-27-73, Cl. 148-1.500.
Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,226, 11-27-73, Cl. 148-1.500.
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Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,229, 11-27-73, Cl. 148-1.500.
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Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,231, 11-27-73, Cl. 148-1.500.
Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,232, 11-27-73, Cl. 148-1.500.
Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,233, 11-27-73, Cl. 148-1.500.
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Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,236, 11-27-73, Cl. 148-1.500.
Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,237, 11-27-73, Cl. 148-1.500.
Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,238, 11-27-73, Cl. 148-1.500.
Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,239, 11-27-73, Cl. 148-1.500.
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Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,246, 11-27-73, Cl. 148-1.500.
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Ohara, Kazuo; and Kawamura, Yoshiaki, to Nippon Electric Company, Limited. Method of manufacturing a semiconductor device. 3,775,266, 11-27-73, Cl. 148-1.500.

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Ogura, Shuichi, to Fuji Photo Film Co., Ltd. Pressure resistant underwater casing. 3,717,078, 2-20-73, Cl. 95-11.000.
Oguri, Hiroki; and Nagasaki, Hideo, to Taoka Dyestuffs Manufacturing Co., Ltd. Rubber composition. 3,708,554, 1-2-73, Cl. 260-848.000.
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O'Hagan, Robert M.; De Spautz, Joseph F.; Carroll, James E., Jr.; and Sorensen, Richard H., to State Street Bank and Trust Company, mesne. Collision avoidance system providing a vector signal representative of the distance and bearing between a prime vehile and target object at a predicted closest point of approach therebetween. 3,737,902, 6-5-73, Cl. 343-9.000.
Ohaha, Eiji: *See—*
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O'Hara, Carl F. Ladder attachment. 3,712,419, 1-23-73, Cl. 182-107.000.
O'Hara, Jamie. Non-spilling dish for dogs and the like. 3,734,062, 5-22-73, Cl. 119-61.000.
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O'Hara, Mark J., to Universal Oil Products Company. Method of preparing a catalyst for the hydrorefining of residual oils. 3,746,660, 7-17-73, Cl. 252-455.00r.
O'Hara, Mark J., to Universal Oil Products Company. Method of preparing a catalyst for the hydrorefining of residual oils. 3,746,661, 7-17-73, Cl. 252-455.00r.
O'Hara, Mark J., to Universal Oil Products Company. Method of preparing a catalyst. 3,751,380, 8-7-73, Cl. 252-439.000.
O'Hara, Mark J., to Universal Oil Products Company. Method of preparing a catalyst for the hydrofining of residual oils. 3,751,383, 8-7-73, Cl. 252-455.00r.
O'Hara, Martin J.: *See—*
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O'Hare, Louis Richard. Changing capacity electric generator. 3,737,688, 6-5-73, Cl. 310-2.000.
O'Hare, Louis Richard. Shock wave drilling called shock tubes earth drill. 3,760,888, 9-25-73, Cl. 175-4.500.
O'Hare, Louis Richard. Hand warmer battery heater. 3,762,393, 10-2-73, Cl. 126-263.000.
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Ohashi, Shigeo, to Nihon Kaiheiki Kogyo Kabushiki Kaisha. Illuminated miniature switch. 3,735,077, 5-22-73, Cl. 200-167.00a.
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Ohata, Shuichi; Takeuchi, Yoji; and Ishiguro, Takeshi, to Yokogawa Electric Works, Ltd. Highly precise and stable logarithmic circuit. 3,710,089, 1-9-73, Cl. 235-193.000.
Ohata, Shuichi; Kamino, Tadashi; Takeuchi, Yoji; and Ishiguro, Takeshi, to Yokogawa Electric Works, Ltd. Apparatus using X-rays for measuring the content of an element having a higher mass absorption coefficient than hydrogen and carbon in hydrocarbon compunds. 3,746,874, 7-17-73, Cl. 250-358.000.
Ohata, Susumu, to Yokogawa Electric Works, Ltd. Closed loop stepping motor servo-mechanism. 3,742,328, 6-26-73, Cl. 318-685.000.
Ohayon, Gabriel, to Societe Rhodiaceta. Device and process for the production of yarns with interlaced strands. 3,724,040, 4-3-73, Cl. 28-1.400.
Ohayon, Gabriel, to Societe Rhodiaceta. Process and apparatus for interlacing strands. 3,727,275, 4-17-73, Cl. 28-1.400.
Ohba, Katsumi, to Grace, W. R., & Co. Method of preparing a phenol formaldehyde amine microporous sheet. 3,779,958, 12-18-73, Cl. 260-2.50f.
Ohba, Shunjiro. Motor control circuit. 3,748,564, 7-24-73, Cl. 318-587.000.
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O'Hern, Harold A., Jr.; and Olson, Kermit E., to Owens-Illinois, Inc. Process for increasing reaction rate in conversion of sulfides and hydrosulfides. 3,752,875, 8-14-73, Cl. 423-201.000.
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Ohki, Haruo, 50% to Ito, Yoshie. Electrically operated, manually actuated, motor driven rotatable drum chance device. 3,733,076, 5-15-73, Cl. 273-143.00r.
Ohki, Haruo, 50% to Ito, Yoshie. Automatic rotation indexing and masking of drum change device with manual release of the masking shutters. 3,735,987, 5-29-73, Cl. 273-143.00r.
Ohki, Haruo, 50% to Ito, Yoshie. Manually actuated and electrically operated rotatable drum chance devices and savings bank. 3,747,936, 7-24-73, Cl. 273-143.00r.
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Ohkubo, Kinji; Noguchi, Junpei; and Masuda, Takao, to Fuji Photo Film Co., Ltd. Thermally developable light-sensitive elements. 3,756,829, 9-4-73, Cl. 96-114.100.
Ohkubo, Kinji; Hinata, Masanao; Noguchi, Junpei; Ohmura, Kunioki; Sato, Akira; and Ogawa, Akira, to Fuji Photo Film Co., Ltd. Photographic paper for rapid stabilizing process. 3,769,016, 10-30-73, Cl. 96-61.000.
Ohkubo, Kinji; Shiba, Keisuke; Noguchi, Junpei; Ohmura, Kunioki; Sato, Akira; and Ogawa, Akira, to Fuji Photo Film Co., Ltd. Spectrally sensitized silver halide photographic emulsion. 3,769,025, 10-30-73, Cl. 96-124.000.
Ohkubo, Masuta; Imai, Ryoichiro; and Masui, Akira, to Nippon Kokan Kabushiki Kaisha. Coated wire feeding technique for making addition of components to molten metals. 3,768,999, 10-30-73, Cl. 75-58.000.
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Ohkuma, Juichi: *See—*
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Ohlberg, Stanley M.; and Orr, Leighton E., to PPG Industries, Inc. Thermal tempering of glass having short strain point-to-softening point interval. 3,753,674, 8-21-73, Cl. 65-114.000.
Ohlhausen, William T. Tick eradicator. 3,756,200, 9-4-73, Cl. 119-156.000.
Ohlhauser, Ernest F.; and Piller, Alvin J., to Celotex Corporation, The mesne. Detachable collar for surface-mounted wall cabinet. 3,768,882, 10-30-73, Cl. 312-242.000.
Ohlhauser, Ernest F.; and Boggild, Robert, to Celotex Corporation, The, mesne. Demountable light fixture for bathroom cabinet. 3,780,281, 12-18-73, Cl. 240-4.100.
Ohlhauser, Ernest T.: *See—*
Denker, Carl J.; and Ohlhauser, Ernest T., 3,751,131.
Ohlhaver, Jon: *See—*
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Ohlinger, Manfred: *See—*
Leutner, Bernd; Schwarzmann, Matthias; and Ohlinger, Manfred, 3,769,087.
Ohloff, Gunther: *See—*
Becker, Joseph J.; Schulte-Elte, Karl-Heinrich; and Ohloff, Gunther, 3,778,483.
Re, Luciano; and Ohloff, Gunther, 3,728,397.
Ohloff, Gunther; and Schulte Elte, Karl Heinrich, to Firmenich & Cie. Monoepoxidized products of dodecatriene. 3,723,478, 3-27-73, Cl. 260-348.00c.
Ohlschlager, Hans: *See—*
Gernert, Herbert; Glockner, Hans; Meier, Ernst; Ohlschlager, Hans; and Riester, Oskar, 3,778,273.
Kampher, Helmut; Ohlschlager, Hans; and Von Konig, Anita, 3,764,321.
Kampher, Helmut; Gotze, Johannes; Von Konig, Anita; and Ohlschlager, Hans, 3,764,322.
Nittel, Fritz; Ohlschlager, Hans; and Schranz, Karl-Wilhelm, 3,712,818.
Ohlschlager, Hans; and Himmelmann, Wolfgang, to Agfa-Gevaert Aktiengesellschaft. Light sensitive photographic material. 3,740,228, 6-19-73, Cl. 96-84.00a.
Ohlschlager, Norman. Maze game. 3,712,617, 1-23-73, Cl. 273-153.00r.
Ohlson, Carl-Eric; and Ohlson, Eric Oscar, to Swift & Company. Control device for selectively removing and returning adjacent items contained in a magazine. 3,739,510, 6-19-73, Cl. 40-78.050.
Ohlson, Eric Oscar: *See—*
Ohlson, Carl-Eric; and Ohlson, Eric Oscar, 3,739,510.
Ohlson, Gunnar F., to International Telephone and Telegraph Corporation. Function generator. 3,757,234, 9-4-73, Cl. 328-142.000.
Ohlson, John L.; Scanlon, Patricia M.; and Gaudette, Roger R., to Grace, W. R., & Co. Iron chelates useful for supplying iron to plants growing in calcareous soil. 3,742,002, 6-26-73, Cl. 260-439.00r.
Ohlsson, Fall Johan Olof William, to Sandco Limited, mesne. Insert for cutting of steel, cast iron or similar material. 3,755,866, 9-4-73, Cl. 29-95.00c.
Ohlsson, Leonard W.: *See—*
Clearman, Jack F.; Ohlsson, Leonard W.; and Mackin, Michael H., 3,708,992.
Ohm, Edward Allen, to Bell Telephone Laboratories, Incorporated. Differential attenuator having a zero net differential phase-shift. 3,747,031, 7-17-73, Cl. 333-81.00b.
Ohm, Edward Allen, to Bell Telephone Laboratories, Incorporated. Differential phase-shifter for providing a substantially constant differential phaseshift. 3,755,760, 8-28-73, Cl. 333-31.00a.
Ohm, Edward Allen, to Bell Telephone Laboratories, Incorporated. Frequency selective polarization insensitive branching network. 3,768,039, 10-23-73, Cl. 333-600.000.
Ohmae, Yutaka: *See—*
Itakura, Kiyoshi; and Ohmae, Yutaka, 3,771,974.
Ohman, Leo S. Variable resistances for an electrical circuit. 3,753,201, 8-14-73, Cl. 338-92.000.
Ohmann, Friedrich; Otto, Rudolf; and Wiedenmann, Wolfgang, to Siemens Aktiengesellschaft. Method and apparatus for the produc-



tion of characters at will on the picture screen of a cathode ray

tion of characters at will on the picture screen of a cathode ray tube and/or on record paper. 3,725,900, 4-3-73, Cl. 340-324.00a
Ohmann, William, to Whirlpool Corporation. Integral self-cleaning filter and side check valve for automatic washer. 3,774,418, 11-27-73, Cl. 68-18.00f.
Ohmart Corporation, The: *See—*
Chen, You Min, 3,748,473.
Listerman, Paul L., 3,761,712.
Ohmatsu, Hideki; and Ueda, Hirozo, to Fuji Photo Film Co., Ltd. Color photographic light-sensitive materials for color printed showing excellent color reproduction. 3,746,539, 7-17-73, Cl. 96-68.000.
Ohminato, Hideaki: *See—*
Higaki, Shigeo; Harada, Masatoshi; Yashiro, Tadao; and Ohminato, Hideaki, 3,726,986.
Ohmori, Kaoru; Nakajima, Mituo; Ishida, Shuichi; and Asaka, Shiroh, to Nippon Kayaku Kabushiki Kaisha. Fungicidal compositions comprising copper 8-oxyquinolate and copper α-amino α-ethyl-thiobutyrate. 3,720,767, 3-13-73, Cl. 424-245.000.
Ohmori, Kaour; Nakajimatokyo, Mituo; Ishida, Shuichi; and Yamada, Osamu, to Nippon Kayaku Co., Ltd. Double salt of zinc ethylene-bis-dithiocarbamate and N-dodecylguanidine and preparation thereof. 3,725,445, 4-3-73, Cl. 260-429.900.
Ohmori, Masahiko; Tomatu, Toshiharu; Iwata, Tadao; and Sasaki, Juntaro, to Mitsui Petrochemical Industries, Ltd. Novel copolymers and process for their production. 3,753,954, 8-21-73, Cl. 260-78.40d.
Ohmori, Muneki: *See—*
Isowa, Yoshikazu; Takashina, Toshiyuki; Ohmori, Muneki; Kurita, Hideaki; Sato, Masanari; and Mori, Kaoru, 3,772,265.
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Ohmoto, Seiji: *See—*
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Ohmoto, Seiji, to Ohmoto, Seiji and Kabushiki Kaisha Nogoya Rashi Seisakusho. Tool for forming internal screw-threads and method of making the same. 3,742,541, 7-3-73, Cl. 10-141.00r.
Ohmura, Hiroshi, to Fuji Photo Film Co., Ltd. Single blade electric shutter. 3,741,091, 6-26-73, Cl. 95-59.000.
Ohmura, Hiroshi, to Fuji Photo Film Co., Ltd. Roll film for double magazine. 3,756,528, 9-4-73, Cl. 242-74.000.
Ohmura, Jukichi: *See—*
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Suzuki, Isamu; Ohmura, Jukichi; and Satoo, Yuukoo, 3,777,470.
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Ohkubo, Kinji; Shiba, Keisuke; Noguchi, Junpei; Ohmura, Kunioki; Sato, Akira; and Ogawa, Akira, 3,769,025.
Ohmura, Ryuichi. Method of making integral guide for fishing lines. 3,780,684, 12-25-73, Cl. 113-116.0hh.
Ohmura, Yamichi: *See—*
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Kruger, Gerd; Zipp, Otmar; Keck, Johannes; Nickl, Josef; Machleidt, Hans; Ohnacker, Gerhard; Engelhorn, Robert; and Puschmann, Sigfrid, 3,769,408.
Woitun, Eberhard; Ohnacker, Gerhard; Narr, Berthold; Horch, Ulrike; and Kadatz, Rudolf, 3,763,156.
Ohnaka, Jumpei. Fluid driven propulsion and generator mechanism. 3,765,175, 10-16-73, Cl. 60-221.000.
Ohnaka, Jumpei. Motive and propulsion mechanism for use in the water. 3,772,719, 11-20-73, Cl. 9-307.000.
Ohnishi, Hiroshi, to Tokyo Shibaura Electric Co., Ltd. Dual compartment-temperature refrigerator with positive internal air circulation. 3,759,051, 9-18-73, Cl. 62-180.000.
Ohnishi, Kenji: *See—*
Sato, Masao; Aizawa, Tsuneo; Ohnishi, Kenji; Kuizumi, Shigeo; Fukada, Akio; Kikuchi, Shinki; and Kusanagi, Schichiro, 3,754,490.
Ohnishi, Masahiro: *See—*
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Ohnishi, Masaru; and Yoshizawa, Michi, to Mitsubishi Denki Kabushiki Kaisha. Electrophotographic apparatus using photosensitive member with electrically high insulating layer. 3,776,627, 12-4-73, Cl. 355-3.000.
Ohnishi, Yutaka: *See—*
Ohno, Atsuyoshi; Ohnishi, Yutaka; and Tsuchihashi, Genichi, 3,779,880.
Ohnishi, Yuuji: *See—*
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Ohno, Atsuyoshi; Ohnishi, Yutaka; and Tsuchihashi, Genichi, to Sagami Chemical Research Center. Process for preparing thietane derivatives. 3,779,880, 12-18-73, Cl. 204-158.00r.
Ohno, Eiichi; Danno, Mitsuaki; Yamazaki, Eizo; Ohkawa, Kiyoto; and Watanabe, Osamu, to Mitsubishi Denki Kabushiki Kaisha. Comparison system for determining shape and intensity of illumination of luminous objects. 3,736,063, 5-29-73, Cl. 356-160.000.
Ohno, Eiji, to Kabushiki Kaisha Komatsu Seisakusho. Inching and two speed planetary gear drives for presses. 3,720,296, 3-13-73, Cl. 192-3.520.
Ohno, Eiji, to Kabushiki Kaisha Komatsu Seisakusho. Plural-slide transfer pressing apparatus. 3,779,155, 12-18-73, Cl. 100-207.000.
Ohno, Genji. Electrostatic printing method and apparatus. 3,743,408, 7-3-73, Cl. 355-10.000.
Ohno, Genji; and Inoue, Eiichi, to Research and Development Laboratories of Ohno Co., Ltd. Electrostatic printing method and apparatus. 3,776,630, 12-4-73, Cl. 355-10.000.
Ohno, Junji, to Nippon Gakki Seizo Kabushiki Kaisha. Magnetically operated keying device for an electronic musical instrument with touch responsive control. 3,708,605, 1-2-73, Cl. 84-1.100.
Ohno, Junji, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument with a keyboard device capable of producing special musical effects upon key depression. 3,715,447, 2-6-73, Cl. 84-1.240.
Ohno, Kiyomitsu. Article dispensing device with sequentially releasable hinged shelves. 3,752,358, 8-14-73, Cl. 221-90.000.
Ohno, Kiyotaka: *See—*
Kajimoto, Tsunesuke; Wakamatsu, Shigeru; Nakanishi, Ryoji; Hara, Michio; Ohno, Kiyotaka; and Tsuji, Jiro, 3,723,486.
Mitsuyasu, Tetsuo; Ohno, Kiyotaka; and Tsuji, Jiro, 3,754,041.
Ohno, Masaji. Device for measuring an amount of powdered milk and dissolving the same. 3,747,414, 7-24-73, Cl. 73-428.000.
Ohno, Masao: *See—*
Inamura, Takahiro; Ohno, Masao; Tsunekawa, Munehisa; and Nakata, Yasuyuki, 3,769,613.
Ohno, Richard J., to Sargent and Company. Protective guard for a mortise type lock. 3,741,597, 6-26-73, Cl. 292-1.000.
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Ohono, Tadao; Shimizu, Chiaki; and Iwatani, Junichi, to Shionogi & Co., Ltd. Mixer-settler extractor. 3,719,455, 3-6-73, Cl. 23-270.500.
Ohorodnik, Alexander: *See—*
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Ohosawa, Hiroshi: *See—*
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Ohoshima, Nobumasa: *See—*
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Ohoshima, Nobumasa; Himeno, Kinya; and Tani, Norihiro, to Matsushita Electric Industrial Co., Ltd. Electromagnetic radiation image displaying panel. 3,715,589, 2-6-73, Cl. 250-80.000.
Ohrberg, Carl Verner, to Danfoss A/S. Rotary piston machine. 3,758,242, 9-11-73, Cl. 418-61.000.
Ohrberg, Carl Verner; and Petersen, Carsten Georg Otto, to Danfoss A/S. Rotary-piston machine. 3,771,905, 11-13-73, Cl. 418-61.000.
Ohrui, Tetsuya; Sakakibara, Yasuhito; and Tanaka, Junji, to Sumitomo Chemical Company, Ltd. Method for producing concentrated nitric acid. 3,714,333, 1-30-73, Cl. 423-392.000.
Ohsato, Nobuyoshi; and Akashi, Naotomo, to Nippon Sheet Glass Co., Ltd. Float process for manufacture of glass ribbon. 3,718,450, 2-27-73, Cl. 65-99.00a.
Ohsato, Nobuyoshi, to Nippon Sheet Glass Co., Ltd. Process and apparatus for the preparation of surface-modified glass ribbon. 3,741,741, 6-26-73, Cl. 65-99.00a.
Ohsawa, Hiroji; Enosawa, Kazuo; Hayami, Heijiro; and Sasabe, Kaoru, to Nippon Hoso Kyokai and Matsushita Electric Industrial Co., Ltd. System for converting facsimile signals. 3,752,912, 8-14-73, Cl. 178-6.000.
Ohsawa, Hiroshi: *See—*
Komatsu, Kenichi; Saijo, Akira; Haneda, Katsuji; Kodaira, Ryoji; and Ohsawa, Hiroshi, 3,730,836.
Ohsawa, Mitsuo, to Sony Corporation. Frequency doubler circuit. 3,710,146, 1-9-73, Cl. 307-271.000.



Ohsawa, Mitsuo, to Sony Corporation. Control signal generating circuit for sharp frequency response tuning. 3,748,582, 7-24-73, Cl. 325-344.000.
Ohsawa, Mitsuo, to Sony Corporation. Control signal generating circuit. 3,753,120, 8-14-73, Cl. 325-455.000.
Ohsawa, Takashi; and Karita, Michiaki. Automatic telecasting or radio broadcasting monitoring system. 3,760,275, 9-18-73, Cl. 325-31.000.
Ohschlager, Hans; and Riester, Oskar, to Agfa-Gevaert Aktiengesellschaft. Silver halide emulsions sensitized with a combination of oxazoline or dihydrooxazine cyanine dyes and mercapto or selenol compounds. 3,776,738, 12-4-73, Cl. 96-126.000.
Ohse, Helmut: *See—*
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Ohse, Hidetaka: *See—*
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Ohshita, Masakazu. Multi-speed transmission front gear mechanism for a bicycle. 3,709,053, 1-9-73, Cl. 74-243.00r.
Ohsima, Susumu, to Toyoda Koki Kabushiki Kaisha. Chucking apparatus for a machine tool. 3,769,761, 11-6-73, Cl. 51-237.0cx.
Ohsol, Ernest Osborne; and Perlmutter, Arthur, to American Cyanamid Company. Disposal of thermoplastic materials. 3,750,600, 8-7-73, Cl. 110-1.00r.
Ohsu, Motomasa: *See—*
Suluki, Mamoru; Hayashi, Mikio; Hieda, Kazuo; Murata, Yoshiro; Ohsu, Motomasa; Yoshigoe, Kazumi; and Kotera, Norio, 3,767,621.
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Ohta, Jun; Okamoto, Atsutoshi; and Sugiura, Akio, to Nippondenso Co., Ltd. and Toyota Jidosha Kogyo Kabushiki Kaisha. Fault detecting system for vehicle anti-skid control system. 3,759,582, 9-18-73, Cl. 303-21.0af.
Ohta, Kazuhiko: *See—*
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Ohta, Kazuho; Ninomiya, Takao; Sasaki, Hirotada; Suda, Nobuaki; and Shinozaki, Masanobu, to Victor Company of Japan, Limited. Synthesized four channel stereo from a two channel source. 3,745,254, 7-10-73, Cl. 179-1.0gq.
Ohta, Kazuyuki: *See—*
Sada, Tomohiko; Tsuchiya, Noriyuki; Amamiya, Tameo; Kaneda, Yoko; and Ohta, Kazuyuki, 3,710,195.
Ohta, Masachika; and Wakameda, Toshio, to Kawada Kogyo Kabushiki Kaisha. Method of fillet welding. 3,780,420, 12-25-73, Cl. 29-471.001.
Ohta, Minoru: *See—*
Hayashi, Yasuo; Kodama, Kenji; Ohta, Minoru; and Saito, Shigeru, 3,770,386.
Ohta, Sadayasu. Dental chair. 3,729,227, 4-24-73, Cl. 297-391.000.
Ohta, Shoji: *See—*
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Ohta, Shuji, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Industrial truck. 3,715,014, 2-6-73, Cl. 187-9.000.
Ohta, Takahiro; and Ohnishi, Masahiro, to Fuji Photo Film Co., Ltd. Television reproducer for a movie film. 3,743,771, 7-3-73, Cl. 178-7.200.
Ohta, Wasaburo: *See—*
Arai, Fumiaki; Ohta, Wasaburo; Kurokawa, Junji; Usui, Noriyuki; Shimizu, Sakae; and Tanaka, Tetsuo, 3,761,259.
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Kasuya, Kazuhiko; Ohta, Wasaburo; and Okuno, Zenjiro, 3,770,485.
Ohta, Wasaburo; and Kasuya, Kazuhiko, to Ricoh Co., Ltd. Device for heating and fixing toner images upon a recording medium. 3,716,018, 2-13-73, Cl. 118-101.000.
Ohta, Wasaburo, to Kabushiki Kaisha Ricoh. Electrostatic imaging employing a dot electrode. 3,730,710, 5-1-73, Cl. 96-1.00r.
Ohta, Wasaburo; and Endo, Katutoshi, to Ricoh Co., Ltd. Electrophotographic photosensitive plate. 3,775,109, 11-27-73, Cl. 96-1.500.
Ohta, Yasuo: *See—*
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Ohta, Yoshiharu: *See—*
Hayashi, Toshio; Maeda, Keisuke; and Ohta, Yoshiharu, 3,733,986.
Ohta, Yoshiharu, to Minolta Camera Kabushiki Kaisha. Electronic flash charging and triggering circuitry. 3,764,849, 10-9-73, Cl. 315-241.00p.
Ohtani, Shitoshi: *See—*
Tokuda, Shoichi; Ohtani, Shitoshi; and Nisigaki, Minoru, 3,752,458.
Ohtani, Yoshio, to Diesel Kiki Kabushiki Kaisha. Electronic govetnor for fuel-injection type internal combustion engines. 3,722,485, 3-27-73, Cl. 123-102.000.
Ohtani, Yoshio; and Kakijima, Todomu, to Diesel Kiki Kabushiki Kaisha. Electronic governor having an overspeed preventing circuit for internal combustion engines. 3,739,757, 6-19-73, Cl. 123-102.000.
Ohtani, Yoshio; and Kakijima, Todomu, to Diesel Kiki Kabushiki Kaisha. Electronic governor for fuel-injection type internal combustion engines. 3,750,633, 8-7-73, Cl. 123-102.000.
Ohtani, Yoshio, to Diesel Kiki Kabushiki Kaisha. Electronic governor for injection-type internal combustion engines. 3,757,750, 9-11-73, Cl. 123-102.000.
Ohte, Akira; and Tamuki, Minoru, to Yokogawa Electric Works, Ltd. Analog control system with plural states having a common power source arrangement and means for eliminating error voltages arising therefrom. 3,751,675, 8-7-73, Cl. 307-34.000.
Ohto, Kunio, to Teijin Limited. Temperature measuring apparatus for rotating rollers. 3,777,567, 12-11-73, Cl. 73-351.000.
Ohtsubo, Hideo: *See—*
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Ohtsuji, Nasaaki: *See—*
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Ohtsuka, Kunio; and Ishimaru, Wataru, to Nissan Motor Company, Limited. Overrunning clutch for use in an automotive power transmission. 3,750,783, 8-7-73, Cl. 192-45.000.
Ohtsuka, Kunio; and Miyauchi, Toshiyuki. Multiple disc type friction brake for an automotive automatic power transmission. 3,772,940, 11-20-73, Cl. 74-785.000.
Ohtsuka, Shunzo: *See—*
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Ohtsuka, Tetsuro: *See—*
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Ohuchi, Hirobumi; Kurihara, Yasutoshi; Ura, Mitsuru; and Ogawa, Takuzo, to Hitachi, Ltd. Semiconductor photoelectric transducer. 3,745,424, 7-10-73, Cl. 317-235.00r.
Ohuchi, Yasushi; Kanamaru, Hisanobu; and Honshima, Teruhisa, to Hitachi, Ltd. Method of producing a molded commutator. 3,708,872, 1-9-73, Cl. 29-597.000.
Ohwada, Atsushi; and Arnold, John A., to Texas Instruments, Incorporated. One transistor dynamic memory cell. 3,740,731, 6-19-73, Cl. 340-173.0ca.
Ohya, Masaki: *See—*
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Ohya, Minoru: *See—*
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Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,081, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,082, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,083, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,084, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,085, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,086, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,087, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,088, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,089, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,090, 6-26-73, Cl. 84-1.010.

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Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,093, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,094, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,095, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,096, 6-26-73, Cl. 84-1.010.

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Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,102, 6-26-73, Cl. 84-1.010.

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Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,110, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,111, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,112, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,113, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,114, 6-26-73, Cl. 84-1.010.

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Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,118, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,119, 6-26-73, Cl. 84-1.010.

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Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,123, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,124, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,125, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gakki Seizo Kabushiki Kaisha. Electronic musical instrument. 3,741,126, 6-26-73, Cl. 84-1.010.

Okamoto, Kazuo; and Kawamura, Yoshiaki, to Nippon Gak

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Okamoto, Miyoshi; Mizuguchi, Shunji; and Watanabe, Koji, to Toray Industries, Inc. Process of manufacturing collagen fiber-like synthetic superfine filament bundles. 3,716,614, 2-13-73, Cl. 264-344.000.
Okamoto, Miyoshi; and Watanabe, Koji, to Toray Industries, Inc. Spontaneously crimping synthetic composite filament and process of manufacturing the same. 3,718,534, 2-27-73, Cl. 161-173.000.
Okamoto, Miyoshi; Watanabe, Koji; Ashida, Keiichi; Toyohiko, Hikota; Mizuguchi, Shungi; and Kounosu, Makoto, to Toray Industries, Inc. Method of manufacturing a fibrous sheet. 3,731,352, 5-8-73, Cl. 28-72.20r.
Okamoto, Miyoshi; Hikota, Toyohiko; and Shimizu, Kitao, to Toray Industries, Inc. Needle felting apparatus. 3,774,273, 11-27-73, Cl. 28-4.00r.
Okamoto, Noriaki; Wakabe, Teruo; and Nozawa, Kazuo, to Sony Corporation. Method of making a magnetic head. 3,721,000, 3-20-73, Cl. 29-603.000.
Okamoto, Osami, to Matsushita Electric Industrial Co., Ltd. Piezoelectric ignition apparatus. 3,751,690, 8-7-73, Cl. 310-8.700.
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Okamoto, Tadashi; Kobayashi, Tsuyoshi; and Yamamoto, Hisao, to Sumitomo Chemical Company, Ltd. Process for preparing dibenzazocine derivatives and salts thereof. 3,714,148, 1-30-73, Cl. 260-239.00d.
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Okamoto, Toshihiko; Hirobe, Masaaki; Suzue, Seigo; Nagatsu, Yoshio; Ushiyama, Keiichi; Satoh, Susumu; and Irikura, Tsutomu, to Kyorin Seiyaku Kabushiki Kaisha. Pyrazolo (1,5-a) pyridine derivatives. 3,718,656, 2-27-73, Cl. 260-295.00f.
Okamoto, Toshio: *See—*
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Okamoto, Toyohiko; Chihiro, Hayashi; and Nishiguchi, Masaru, to Sumitomo Metal Industries, Ltd. Piercing rolling apparatus for producing rolled material free from surface torsion. 3,719,066, 3-6-73, Cl. 72-97.000.
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Okano, Kunikatsu. Process for manufacturing antiperspirant. 3,743,717, 7-3-73, Cl. 424-65.000.
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Okano, Yoshimitsu, to Nippon Electric Company Limited. Data signal transmission system employing phase modulation. 3,755,739, 8-28-73, Cl. 325-163.000.
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O'Keefe, Dennis G. Rope climbing device. 3,724,593, 4-3-73, Cl. 182-134.000.
O'Keefe, Jack Victor. Gimbal-mounted game board titable by control stick. 3,751,038, 8-7-73, Cl. 273-110.000.
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O'Keeffe, Terence W.; and Malmberg, Paul R., to Westinghouse Electric Corporation. Apparatus and method for alignment of members to electron beams. 3,710,101, 1-9-73, Cl. 250-49.50t.
Okell, Roy E.; Kirkham, Harold; and Kirkham, Kathleen E., to Franklin Mint Corporation. Reducing apparatus and method. 3,719,121, 3-6-73, Cl. 90-13.700.
Oken, Aaron. Inorganic protective coatings. 3,751,275, 8-7-73, Cl. 106-90.000.
Okey, Bernard J.; and Marshall, Daniel J., to Magnavox Company, The. Framing device for a continuously moving motion picture film. 3,753,612, 8-21-73, Cl. 352-109.000.
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Okura, Takao, to Honda Giken Kogyo Kabushiki Kaisha. Apparatus for the control of fuel injection for an internal combustion engine. 3,750,636, 8-7-73, Cl. 123-140.0mp.
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Okuto, Hiroshi; and Yasuda, Kiyoshi, to Takeda Chemical Industries, Ltd. Antimony aminoalkoxide. 3,752,837, 8-14-73, Cl. 260-446.000.
Okutsu, Eiichi; Iijima, Yoo; and Iwano, Haruhiko, to Fuji Photo Film Co., Ltd. Developing composition for use with photographic materials for the graphic arts. 3,772,022, 11-13-73, Cl. 96-66.00r.
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O'Leary, Paul C., 1/2 to Pulverizer, Bradley Company. Rock drill positioning machine. 3,711,047, 1-16-73, Cl. 248-2.000.
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Oliapuram, Antony, to Varta Aktiengesellschaft. Method of producing an electrolytic-cell electrode with active iron mass. 3,758,344, 9-11-73, Cl. 136-120.0fc.
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Olive-Jones, Michael William; and Randall, Douglas Raymond, to BTR Industries Limited. Swaging apparatus. 3,768,298, 10-30-73, Cl. 72-402.000.
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Olix, Donald J., to Diamond Shamrock Corporation. Dextrin-clay-silicate adhesive. 3,767,440, 10-23-73, Cl. 106-214.000.
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Ollearo, Giorgio, to Olivetti, Ing., C., & C., S.p.A. Control device for a boring tool holder of machine tools. 3,715,167, 2-6-73, Cl. 408-149.000.
Olliges, James R., Sr., to A-T-O Inc. Washing machine. 3,715,898, 2-13-73, Cl. 68-145.000.
Olliges, James R., Sr., to A-T-O Inc. Extracting. 3,779,050, 12-18-73, Cl. 68-242.000.
Olliges, William E.; Polanek, Edward L.; and Gurney, Robert, to Universal Research Laboratories, Incorporated. Switching system. 3,725,759, 4-3-73, Cl. 318-467.000.
Olliges, William E.; Polanek, Edward L.; and Gurney, Robert, to Universal Research Laboratories, Incorporated. Tape cassette changer system. 3,752,483, 8-14-73, Cl. 274-4.00f.
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Ollis, William John Bernard; Long, Clive Beech Ansley; and Levin, Ezra, to Timber Research and Development Association. Multi storey building. 3,758,998, 9-18-73, Cl. 52-79.000.
Ollivier, Louis A., to Veriflo Corporation. Ventilator. 3,756,229, 9-4-73, Cl. 128-145.800.
Ollman, Melvin L., to C-O, Inc. Spiral staircase. 3,727,360, 4-17-73, Cl. 52-187.000.
Olmo, Harold P.; and Studer, Henry E., to University of California, The Regents of the. Raisin grape spreader. 3,751,821, 8-14-73, Cl. 34-93.000.
Olmo, Harold P.; and Studer, Henry E., to University of California, The Regents of the. Raisin pick up machine. 3,762,577, 10-2-73, Cl. 214-1.00r.
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Olmstead, John Aaron, to RCA Corporation. Insulated gate field-effect transistor with variable gain. 3,745,426, 7-10-73, Cl. 317-235.00r.
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Olmsted, Dennis R., to Storage Technology Corporation. File protect system for magnetic tape unit with diaphragm operated switch for sensing presence or absence of write enable ring. 3,777,074, 12-4-73, Cl. 179-100.20d.
Olmsted, Frederick S.; deceased (by Olmsted, Claire G.; and Hartford National Bank and Trust Company; executors). Exercise stand for bicycles. 3,724,844, 4-3-73, Cl. 272-73.000.
Olney, Frederick D., Jr.; and Crump, Robert O., to Honeywell Information Systems, Inc. Gravity-fed pin insertion device. 3,711,924, 1-23-73, Cl. 29-203.00b.
Olney, Frederick D., Jr.; Crump, Robert O.; and Kowalski, John L., to Honeywell Information Systems, Inc. Method and apparatus for inserting pins into a circuit board. 3,765,075, 10-16-73, Cl. 29-203.00b.
Olney, Frederick Darwin, Jr., to Honeywell Information Systems Inc. Controllable tensioning devices for strand material. 3,724,409, 4-3-73, Cl. 112-255.000.
Olney, Nathaniel M.; Hurkmans, Antoon M.; Barrett, Edward E.; and Leff, Martin J., to Swingline Inc. Tacker. 3,758,016, 9-11-73, Cl. 227-132.000.
Olofson, Roy A.; and Yamamoto, Yasushi Stephen, to Research Corporation, mesne. Substituted and unsubstituted vinyloxycarbonyl groups as amino protecting groups in the synthesis of peptides. 3,711,458, 1s16-73, Cl. 260-112.500.
Olofsson, Hans Kristoffer: *See—*
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O'Loughlin, James P., to Raytheon Company. Anticipatory charging regulator. 3,716,798, 2-13-73, Cl. 328-67.000.
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Olsen, Arthur A., to General Electric Company. Spring plate contact and support for a lightning arrester sparkgap assembly and associated grading resistors. 3,715,626, 2-6-73, Cl. 317-68.000.
Olsen, Gerald N.; and Washburn, Arthur R., to White Motor Corporation. Control system for transmission. 3,744,344, 7-10-73, Cl. 74-687.000.
Olsen, Harry C.; Tischler, Ludwig J.; and Wernecke, Heinz C., to Jacobs, F. L., Co. Car top luggage carrier. 3,724,730, 4-3-73, Cl. 224-42.10d.
Olsen, Harry C.; Tischler, Ludwig J.; and Wernecke, Heinz C., to Jacobs, F. L., Co. Manually operated remote control truck mirror. 3,724,928, 4-3-73, Cl. 350-289.000.
Olsen, Horace W. Waste disposal apparatus and method. 3,733,271, 5-15-73, Cl. 210-63.000.
Olsen, Howard E.; and Petry, Robert J., to General Motors Corporation. Electrohydraulic transmission control. 3,732,753, 5-15-73, Cl. 74-866.000.
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Olsen, John O.; and Visser, Gerrit A., to Reid, Middleton & Associates, Inc. and Poly Sinterino, Inc. Floating breakwater pontoon. 3,777,689, 12-11-73, Cl. 114-.50f.
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Olsen, Leslie R., to United States of America, Navy. Method of making a cool burning gun propellant. 3,718,719, 2-27-73, Cl. 264-3.00b.
Olsen, Martin F. Method and apparatus for removing and reclaiming oil-slick from water. 3,745,115, 7-10-73, Cl. 210-83.000.
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Olsen, Richard E., to Honeywell Information Systems Inc. Power sequencing control circuit. 3,725,675, 4-3-73, Cl. 307-238.000.
Olsen, Robert E., to United States of America, Army. Preparing alpha-bromomethyl ketones via substituted diethyl malonates. 3,714,168, 1-30-73, Cl. 260-281.00r.
Olsen, Robert F., to Monarch Marking Systems, Inc., mesne. Security-type fastener. 3,765,110, 10-16-73, Cl. 40-20.00r.
Olsen, Robert M., to Vapor Corporation. Transit vehicle door signal apparatus. 3,744,022, 7-3-73, Cl. 340-52.00r.
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Olsen, Robert W., to Construction Specialties, Inc. Decorative open-work panel structure. 3,729,891, 5-1-73, Cl. 52-663.000.
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Olsen, Willi; and Schlosser, Klaus, to Siemens Aktiengesellschaft. Gas-pressure-insulated high-voltage line. 3,725,567, 4-3-73, Cl. 174-16.00b.
Olsen, Willi; and Beer, Heinz. Blow-piston disconnect apparatus for high voltage. 3,740,508, 6-19-73, Cl. 200-14.80a.
Olsen, Willi; and Schlosser, Klaus, to Siemens Aktiengesellschaft. Method for repairing insulated high voltage line. 3,753,284, 8-21-73, Cl. 29-401.000.
Olsen, Willi, to Siemens Aktiengesellschaft. Electric high-voltage compressed-gas-insulated power transmission line. 3,766,306, 10-16-73, Cl. 174-16.00b.
Olsen, Willi, to Siemens Aktiengesellschaft. Electric high-voltage polyphase power transmission system. 3,775,550, 11-27-73, Cl. 174-27.000.
Olsen, Willi, to Siemens Aktiengesellschaft. Electric high-tension conductor assembly. 3,781,454, 12-25-73, Cl. 174-11.00r.
Olson, Albert W.; Gungle, Warren Calvin; and Waymouth, John F., to GTE Sylvania Incorporated. Arc discharge tube with surrounding starting coil. 3,746,914, 7-17-73, Cl. 315-47.000.
Olson, Alexius B.: *See—*
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Olson, Alfred C.: *See—*
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Olson, Alfred C.; and Stanley, William L., to United States of America, Agriculture. Preparation of insolubilized enzymes. 3,767,531, 10-23-73, Cl. 195-63.000.
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Olson, Buford W., Sr.; Nelson, Eldrid W.; and Davidson, Albin A., to Olson, Chas., & Sons, Incorporated. Convertible rail-highway vehicle. 3,763,789, 10-9-73, Cl. 105-215.00c.
Olson, Cecil G., to Singer Company, The. Return spring key stem boot. 3,767,022, 10-23-73, Cl. 197-98.000.
Olson, Charles Langdon; Monahan, John Francis; and Dischert, Robert Adams, to RCA Corporation. Video signal noise-limiting apparatus. 3,715,477, 2-6-73, Cl. 178-5.40r.
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Olson, Donald R.; and Kiely, Daniel, to United States of America, Navy. Chemical reactor boiler assembly. 3,753,423, 8-21-73, Cl. 122-248.000.
Olson, Donald R.; and Waddell, Eugene P., to Allis-Chalmers Corporation. Division head curtain for compartmented grinding mill. 3,758,041, 9-11-73, Cl. 241-153.000.
Olson, Earl Herbert, to Du Pont de Nemours, E. I., and Company. Crimpable bicomponent filament. 3,779,853, 12-18-73, Cl. 161-70.000.
Olson, Earl Herbert, to Du Pont de Nemours, E. I., and Company. Crimpable copolyamide filaments. 3,779,859, 12-18-73, Cl. 161-173.000.
Olson, Elmer E., to Lewis, G. B., Company. Motion transfer system. 3,760,934, 9-25-73, Cl. 198-158.000.
Olson, Elwyn H., to Honeywell Inc. Manual reset for a switch device. 3,781,744, 12-25-73, Cl. 337-118.000.
Olson, Eugene E.: *See—*
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Olson, Floyd C.; and Trautman, Jack C., to Mayer, Oscar, & Co., Inc. Hydrolysate of collagen as a sausage ingredient. 3,743,514, 7-3-73, Cl. 99-109.000.
Olson, Floyd C., to Mayer, Oscar, & Co., Inc. Nutritional product of whey protein and collagen hydrolysate. 3,778,514, 12-11-73, Cl. 426-61.000.
Olson, George E., to Caterpillar Tractor Company. Bearing supported coupling for turbochargers. 3,723,022, 3-27-73, Cl. 415-175.000.
Olson, Glenn V. Punch riveter for joining metals. 3,714,688, 2-6-73, Cl. 29-21.100.
Olson, Gust A.; and Wilcox, Doyle E., to North American Rockwell Corporation. Optical-transfer band for reading embossed characters. 3,762,800, 10-2-73, Cl. 350-160.00r.
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Olson, Hjalmar A., to General Electric Company. Vehicle chassis. 3,759,540, 9-18-73, Cl. 280-106.00r.
Olson, Jack Edward; and Catalano, Guy G. Probing device for microcircuits. 3,741,022, 6-26-73, Cl. 74-102.000.
Olson, Jan B., to Sierracin Corporation, The. Interlayer stress reduction in laminated transparencies. 3,764,445, 10-9-73, Cl. 161-4.000.



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Olson, John E.; and Waller, Glenn A., to Hyster Company. Hydraulic control system for two-speed winch. 3,768,263, 10-30-73, Cl. 60-425.000.
Olson, John M., to Ikon Engineering, Inc. Internal combustion engine limiter. 3,738,340, 6-12-73, Cl. 123-118.000.
Olson, John R. Self-propelled water vehicle. 3,707,938, 1-2-73, Cl. 115-1.00r.
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Olson, Melvin M., to Minnesota Mining and Manufacturing Company. Sheet material coated with heat hardenable tacky adhesive. 3,753,755, 8-21-73, Cl. 117-3.100.
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Olson, Rodney I. Electrostatic mist precipitator. 3,750,373, 8-7-73, Cl. 55-146.000.
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Olsson, Kurt Ove, to Hasselblad, Fritz Victor. Control mechanism at photographic cameras for film advance in separate film magazines equipped with a servomotor. 3,738,243, 6-12-73, Cl. 95-31.0ac.
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Olsson, Sven Willy, to Saab-Scania Aktiebolag. Resilient connection between stem and plug of plug valve. 3,767,162, 10-23-73, Cl. 251-84.000.
Olsson, Sven-Gunnar Sigvard, to Siemens Aktiengesellschaft. Flow measuring device. 3,765,239, 10-16-73, Cl. 73-194.00r.
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Fujinami, Akira; Ozaki, Toshiaki; Nodera, Katsuji; Akiba, Keiichiro; Yamamoto, Sigeo; Ianaka, Katsutoshi; and Ooishi, Tadashi, 3,741,981.
Fujinami, Akira; Ozaki, Toshiaki; Akiba, Keiichiro; Yamamoto, Sigeo; Ooba, Shigehiro; Tanaka, Katsutoshi; Nodera, Katsuji; Ooishi, Tadashi; and Kameda, Nobuyuki, 3,743,651.
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Fujinami, Akira; Ozaki, Toshiaki; Ooba, Shigehiro; Yamamoto, Shigeo; Nodera, Katsuji; Tanaka, Katsutoshi; Akiba, Keiichiro; Ooishi, Tadashi; and Kameda, Nobuyuki, 3,745,170.
Tsuchiya, Hiroshi; Mukai, Kunio; Kimura, Akio; Kawano, Suminori; Fjuimoto, Keimei; Ozaki, Toshiaki; Yamamoto, Sigeo; Okuno, Yositosi; Tanaka, Katsutoshi; Ooishi, Tadashi; and Takeda, Hisami, 3,725,514.
Ooka, Toship, to Sumitomo Electric Industries, Ltd. Floating type disc brake. 3,752,272, 8-14-73, Cl. 188-345.000.
Ooka, Toshiwo; and Takata, Koji, to Sumitomo Electric Industries, Ltd. Friction pad pressing apparatus for use in disc brakes. 3,741,354, 6-26-73, Cl. 188-345.000.
Ookuma, Atsutaka: *See—*
Futamura, Masaharu; and Ookuma, Atsutaka, 3,765,433.
Oomen, Johannes A. F., to Cincinnati Electronics Corporation, mesne. Tuning method for T-network couplers. 3,778,731, 12-11-73, Cl. 333-17.000.
Oomen, Joris Jan Cornelis; Romeijn, Frans Cornelis; and Schwandt, Gunther, to U.S. Philips Corporation. Primary Electrochemical cell. 3,769,089, 10-30-73, Cl. 136-83.00r.
Oomori, Isoshi; and Suzue, Kiyoyuki, to Hitachi Chemical Company, Ltd. Process for producing citric acid. 3,732,145, 5-8-73, Cl. 195-30.000.
Oomura, Koji: *See—*
Ooya, Junichiro; Oomura, Koji; Takayama, Katsuki; and Kazutaka, Kuwana, 3,776,604.
Oonishi, Hajimu: *See—*
Yamashita, Tadaoki; Yamamoto, Osamu; Oonishi, Hajimu; Kawabata, Hidetsogu; and Kitamura, Saburo, 3,761,710.
Oono, Hiroshi; and Tamura, Masanori, to Kabushiki Kaisha Taihei Seisakusho; a/k/a Taihei Machinery Works, Ltd. and Mizuho Gohan Kabushiki Kaisho. Apparatus for assembly of veneer sheets in plywood fabrication. 3,723,227, 3-27-73, Cl. 156-557.000.
Oono, Hiroyuki: *See—*
Sugiura, Mamoru; Kano, Kunio; Kimura, Kazuaki; and Oono, Hiroyuki, 3,708,576.
Oono, Yasuya: *See—*
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Oose, Katsuhiro: *See—*
Kawasaki, Kikuo; and Oose, Katsuhiro, 3,751,678.
Oostdik, Dennis, to Hoerner-Waldorf Corporation. Cushioning divider. 3,756,496, 9-4-73, Cl. 229-15.000.
Ooue, Shingo: *See—*
Murakoshi, Makoto; Ooue, Shingo; Ueda, Hiroyuki; Hashiue, Masakazu; and Endo, Hirotoshi, 3,781,809.
Ooue, Shingo; Hashiue, Masakazu; and Noguchi, Masaru, to Fuji Photo Film Co., Ltd. and Fuji Shashin Koki Kabushiki Kaisha. Hologram photographing apparatus with light measuring device. 3,755,677, 8-28-73, Cl. 250-204.000.



Ooya, Junichiro; Kuwana, Kazutaka; Hida, Takashi; Takayama, Katuki; and Tarao, Akira, to Aisin Seiki Kabushiki Kaisha. Digital-type brakeccontrol method and system. 3,744,854, 7-10-73, Cl. 303-21.00p.
Ooya, Junichiro; Takayama, Katsuki; and Kuwana, Kazutaka, to Aisin Seiki Kabushiki Kaisha. Process and circuit arrangement for the discrimination of mutual revolutional speeds of a plurality of revolving members. 3,769,595, 10-30-73, Cl. 328-133.000.
Ooya, Junichiro; Oomura, Koji; Takayama, Katsuki; and Kazutaka, Kuwana, to Aisin Seiki Kabushiki Kaisha. Digital type brake control device. 3,776,604, 12-4-73, Cl. 303-21.0eb.
Op de Beeck, Herbert Kamiel Maria, to U.S. Philips Corporation. Electric filament lamp. 3,758,807, 9-11-73, Cl. 313-273.000.
Op de Beeck, Herbert Kamiel Maria; and Notelteirs, Victor Rosallie, to U.S. Philips Corporation. Hologen filament lamp. 3,774,065, 11-20-73, Cl. 313-344.000.
Opal, Kenneth E.; Kelly, Charles R.; and Newcamp, Charles W., to Power Control Corporation. Apparatus for motor current minimization. 3,723,840, 3-27-73, Cl. 318-432.000.
Opal, Kenneth E.; and Kelly, Charles R., to Power Control Corporation. Apparatus for center-referenced pulse width modulation. 3,753,155, 8-14-73, Cl. 332-9.00r.
Opal, Kenneth E.; and Ley, William H., to Power Control Corporation. Method and apparatus for pulse width modulation with variable frequency modes. 3,766,497, 10-16-73, Cl. 332-9.00r.
Opalenik, John J.: *See—*
Corey, Lawrence G.; Opalenik, John J.; and Clough, Robert F., 3,721,879.
Opatril, Vaclav: *See—*
Indra, Jaromir; and Opatril, Vaclav, 3,722,552.
Opderbeck, Fritz; Ploetz, Theodor; and Wistuba, Herbert, to Feldmuhle Anlagen- und Produktionsgesellschaft mit beschrankter Haftung. Copying sheet. 3,725,107, 4-3-73, Cl. 117-36.700.
Opel, George E. Traction device for motor vehicle. 3,770,071, 11-6-73, Cl. 180-15.000.
Operations Analysis Inc.: *See—*
Baer, Stephen C., 3,777,393.
Opferkuch, Robert E., Jr.; and Konicek, Michael G., to Monsanto Research Corporation. Gas purification. 3,781,413, 12-25-73, Cl. 423-574.000.
Opferman, David Clement: *See—*
Mc Eowen, James Royce; Opferman, David Clement; and Smith, Robert McKee, 3,748,649.
Opittek, Eugene W.: *See—*
Heard, James L.; Opittek, Eugene W.; and Meyers, Harold M, 3,765,018.
Oplatka, Georg, to Aktiengesellschaft Brown, Boveri & Cie. Device for evaporative cooling towers with wetted walls. 3,743,256, 7-3-73, Cl. 261-98.000.
Opp, Karl; Wygasch, Ewald; and Csizi, Gotthard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Electrolysis of alkali metal chlorides. 3,755,109, 8-28-73, Cl. 204-99.000.
Oppenheimer, Edgar D., to Thermatool Corporation, mesne. Air cooled magnetic structure for use in high frequency welding and heating. 3,763,342, 10-2-73, Cl. 219-59.000.
Oppenheimer, Jess. Sound sequence interval changing structure. 3,777,071, 12-4-73, Cl. 179-100.20k.
Oppenlaender, Knut; Liebold, Gert; and Buettner, Egon, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Crude oil demulsifiers. 3,730,906, 5-1-73, Cl. 252-342.000.
Opperhauser, Calvin F., to American Telephone and Telegraph Company. Apparatus for manually encoding a data record. 3,775,869, 12-4-73, Cl. 35-48.00r.
Opperman, Kenton C.: *See—*
Krauja, Ziedonis I.; and Opperman, Kenton C., 3,737,258.
Oppl, Hans: *See—*
Gressenich, Klaus; Oppl, Hans; Walter, Berthold; Weismann, Hans; and Zobl, Hartmut, 3,713,067.
Oppliger, Hans R.: *See—*
Fitzgerald, J. Vincent; Matusik, Frank J.; and Oppliger, Hans R., 3,712,117.
Fitzgerald, J. Vincent; Matusik, Frank J.; and Oppliger, Hans R., 3,762,429.
Oppliger, Hans R., to National Metal and Refining Company, Inc. High precision wide dynamic range viscous loss measuring apparatus. 3,710,614, 1-16-73, Cl. 73-59.000.
Opprecht, Paul Jakob. Method for automatic manufacture of metal container bodies, and welding machine for application thereof. 3,743,813, 7-3-73, Cl. 219-67.000.
Opprecht, Paul Jakob. Method for automatic manufacture of metal container bodies, and welding machine for application thereof. 3,745,295, 7-10-73, Cl. 219-64.000.
Opravil, Egon, to Lumoprint Zindler KG. Copying apparatus. 3,728,015, 4-17-73, Cl. 355-8.000.
Oprins, Johannes A. E., to Ideal Industries, Inc. Wire stripper. 3,763,723, 10-9-73, Cl. 81-9.50a.
Opsonar Organ Corporation, mesne: *See—*
Nelson, Carl S., Jr., 3,769,869.
Opstead, Ronald F.: *See—*
Obhmke, Richard W.; and Opstead, Ronald F., 3,777,759.
Optasound Corporation: *See—*
Lawson, Peter V. O., 3,773,408.
Optel Corporation: *See—*
Luce, Nunzio A., 3,744,049.
Opti-Cap Inc.: *See—*
Holmes, Allie B., 3,727,642.
Opti-Holding AG: *See—*
Frohlich, Alfons; Cappel, Marie-Luise; and Stubiger, Ernst, 3,708,836.
Frohlich, Alfons; Cappel, Marie-Luise; and Stubiger, Ernst, 3,714,683.
Frohlich, Alfons; and Hochlehnert, Franz, 3,730,817.
Frohlich, Alfons; Cappel, Marie-Luise; and Stubiger, Ernst, 3,757,541.
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Heimberger, Helmut; and Griesbaum, Karl, 3,728,979.
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Optical and Electronic Research, Inc.: *See—*
Bley, Frederick O., 3,764,441.
Optical Coating Laboratory, Inc.: *See—*
Anthon, Erik W., 3,770,355.
Apfel, Joseph H.; and Shavely, Carol J., 3,761,160.
Baker, Martin L.; and Eufusia, Eugene A., 3,773,548.
Dolin, Stanley A.; Folch, Andres, Jr.; and Geiger, Dana F., 3,711,708.
Eufusia, Eugene A., 3,747,634.
Gelber, Robert M.; and Small, Edward A., Jr., 3,736,047.
Gelber, Robert M., 3,758,185.
Spellman, Vernon C., 3,776,535.
Thomasson, David G.; Crosher, Frederick K.; Temple, Michael D.; Bartolmei, Leroy A.; and Seddon, Richard Ian, 3,771,857.
Optical Coating Laboratory, Inc., mesne: *See—*
Krakow, Burton; Dolin, Stanley A.; and Kruegle, Herman A., 3,708,227.
Optical Radiation Corporation: *See—*
Wilkinson, John N., 3,720,460.
Optical Recognition Systems, Inc.: *See—*
Burroughs, Frank P., 3,773,321.
Holdway, John B.; and Tyburski, Robert M., 3,749,239.
Tyburski, Robert M.; Russell, Donald W.; Mayberry, Brian D.; and Kenney, Joseph R., 3,764,978.
Optical Research and Development Corporation: *See—*
Humphrey, William E., 3,711,178.
Humphrey, William E., 3,756,686.
Humphrey, William E., 3,761,157.
Humphrey, William E., 3,761,158.
Optical Systems Corporation: *See—*
Court, Patrick R. J., 3,729,576.
Court, Patrick R. J., 3,769,448.
Wittig, Karl; Wimmer, Guenther; Court, Patrick R. J.; and Akrell, Carl, 3,777,053.
Opticase, Inc.: *See—*
Nathan, David L., 3,768,633.
Nathan, Emanuel, 3,749,231.
Optima-Maschinenfabrik Inhaber Dr. Max Buhler: *See—*
Meyer, Erich, 3,740,921.
Optimation, Inc.: *See—*
Wolcott, Henry O.; and Goldstein, Lynne B., 3,768,028.
Optimetric Systems, Inc.: *See—*
Szyferblatt, Morris, 3,738,064.
Optipatent AG: *See—*
Hampel, Gerald, 3,708,567.
Optische Werke G. Rodenstock: *See—*
Mayerhofer, Franz, 3,738,632.
Schlegel, Franz, 3,738,735.
Wilms, Karl-Heinz, 3,735,125.
Optoelectronics, Inc.: *See—*
Long, Jasper J.; and Justus, Ben, 3,719,990.
Optogram, Inc.: *See—*
Von Voros, Geza, 3,742,488.
Optotechnik G.m.b.H.: *See—*
Heine, Helmut A., 3,728,998.
Optotechnik Heine KG: *See—*
Heine, Helmut A., 3,776,619.
Optqvist, Gustav Hilding: *See—*
Ostberg, Bengt Sven; and Optqvist, Gustav Hilding, 3,755,072.
Optronics International, Inc.: *See—*
Ward, John H., 3,711,177.
Orain, Michel, to Societe Anonyme: Glaenzer Spicer. Stabilized bellows coupling for transmitting rotary movement. 3,740,968, 6-26-73, Cl. 64-11.00b.
Orain, Michel, to Societe Anonyme: Glaenzer Spicer. Axially fixed homokinetic coupling with limited transverse freedom of movement. 3,745,789, 7-17-73, Cl. 64-21.000.
Orain, Michel, to Societe Anonyme: Glaenzer Spicer. Transmission coupling with spherical roller. 3,748,869, 7-31-73, Cl. 64-17.00a.

Orain, Michel, to Societe Anonyme: Glaenzer Spicer. Telescoping drive or propeller shafts. 3,754,411, 8-28-73, Cl. 64-11.00b.
Orain, Michel, to Societe Anonyme: Glaenzer Spicer. Universal joints. 3,757,534, 9-11-73, Cl. 64-8.000.
Orange, John L. Artificial foot. 3,766,569, 10-23-73, Cl. 3-7.000.
Orange, John M.: *See—*
Larson, John G.; and Orange, John M., 3,723,732.
Orange, John M., to Gulf Research & Development Company. Radioactive source handling apparatus. 3,773,376, 11-20-73, Cl. 294-86.00a.
Orans, Alfred A. Kaleidoscope. 3,748,013, 7-24-73, Cl. 350-5.000.
Oratronics, Inc.: *See—*
Linkow, Leonard I.; Weiss, Charles M.; Weiss, Lillian Bishop; and Liwerant, Abram, 3,729,825.
Oravitz, James L., Jr.: *See—*
Dahlberg, John R.; Oravitz, James L., Jr.; and Michalik, Edmund R., 3,709,414.
Dahlberg, John R.; Oravitz, James L., Jr.; and Michalik, Edmund R., 3,730,408.
Orazagos Gumiipiri Vallalat: *See—*
Horvath, Laszlo; Gundisch, Gusztav; Antal, Mandor; and Arvai, Mihaly, 3,719,219.
Orazi, Paolo. Aircraft. 3,756,541, 9-4-73, Cl. 244-39.000.
Orbach, Max A. Lamp and mirror combination. 3,711,695, 1-16-73, Cl. 240-4.200.
Orban, Ivan: *See—*
Zweidler, Reinhard; and Orban, Ivan, 3,729,467.
Orban, Jean: *See—*
Vital, Zoltan; and Orban, Jean, 3,749,921.
Orbeck, Finn: *See—*
Butler, John Francis; Jordan, John William; and Orbeck, Finn, 3,734,074.
Orbison, Frank H.; and Helland, Howard M., to Appleton Mills. Single endless strand mounted in a series of parallel convolutions fibrous web supporting surface in a papermaking machine. 3,770,581, 11-6-73, Cl. 162-348.000.
Orbison, Frank H.; and Helland, Howard M., to Appleton Mills. Single endless strands as support surfaces in various sections of papermaking machine having integrated convolutions. 3,775,242, 11-27-73, Cl. 162-208.000.
Orbit Beratungsgesellschaft m.b.H.: *See—*
Lindemann, Wolfgang, 3,744,358.
Orbit Manufacturing Company: *See—*
Shriver, Charles S., 3,714,982.
Orbital Systems Inc.: *See—*
Beltz, John Prickett; and Currie, Harold Burtis, 3,710,322.
Orbon, Jacob J., Sr., to Bethlehem Steel Corporation. Method of providing metal slabs from a metal production facility. 3,753,288, 8-21-73, Cl. 29-527.700.
Orchard, Robert J.: *See—*
Kilmer, Charlie C.; and Orchard, Robert J., 3,725,584.
Orcutt, Franklin D.: *See—*
Boyer, Charles B.; Orcutt, Franklin D.; Shaw, Robert L.; and Gregg, Galen C., 3,741,718.
Ord, Lewis R. Small wood sawmill. 3,750,727, 8-7-73, Cl. 144-312.000.
Ordena Lenina Institut Elementoorganicheskikh Soedineny: *See—*
Slonimsky, Grigory Lvovich; Tolstoguzov, Vladimir Borisovich; Frshova, Vera Alexandrovna; and Izjumov, Dmitry Borisovich, 3,717,469.
Ordibel S.P.R.L.: *See—*
Jacobs, Josef Egied, 3,740,050.
Ordway, Donald E.; and Hale, Richard W., to United States of America, Navy. Bubble generator. 3,769,833, 11-6-73, Cl. 73-147.000.
O'Rear, William C., 1/2 to Perkins, Max W. Tamping tool. 3,732,873, 5-15-73, Cl. 131-170.00r.
Orebro Pappersbruks AB: *See—*
Wager, Oleg, 3,765,783.
Oreck, Richard A. Gun container. 3,744,687, 7-10-73, Cl. 224-2.00a.
Oreck, Richard A. Gunsight alignment apparatus. 3,777,404, 12-11-73, Cl. 33-245.000.
Oregon Metallurgical Corporation: *See—*
Lindquist, Jesse L., 3,709,080.
Oregon Research Institute: *See—*
Rosov, Robert J., 3,708,891.
Rosov, Robert J., 3,778,351.
Orehoski, Michael A.: *See—*
Dukelow, Donald A.; Orehoski, Michael A.; and Veselinovich, Nick, 3,717,034.
O'Reilly, Donald E.; and Salamony, James E., to United States of America, Atomic Energy Commission. Method for dispersing $Cr^{3+}$ ions impregnated in silica. 3,748,283, 7-24-73, Cl. 252-455.00r.
O'Reilly, Kevin J.: *See—*
Smith, Sydney Edwin; O'Reilly, Kevin J.; and Prydie, John, 3,709,782.
O'Reilly, Royal V., to Lectron Corporation. Solid state controller. 3,754,177, 8-21-73, Cl. 318-480.000.
O'Reilly, Thomas B.: *See—*
Boyden, Robert E., 3,780,845.
Orem, Victor C.: *See—*
O'Connor, Joseph W.; and Orem, Victor C., 3,749,362.
Orend, Friedrich. Roller threaded spindle with nut. 3,759,113, 9-18-73, Cl. 74-424.800.
Orend, Michael M.: *See—*
Sarvay, J. Thomas; and Orend, Michael M., 3,744,113.
Orendi, Roderich. Drill press. 3,730,635, 5-1-73, Cl. 408-46.000.
Orenstein & Koppel Aktiengesellschaft: *See—*
Althaus, Ernst, 3,712,398.
Bangert, Hans; and Arenz, Werner, 3,747,651.
Bomeke, Josef, 3,772,804.
Herdemann, Bernhard, 3,741,346.
Heusler, Helmut; and Maly, Dieter, 3,726,349.
Orenstein, Nathan: *See—*
Hansen, Neil W.; and Orenstein, Nathan, 3,758,866.
Orensten, Henry E.; and Orensten, Vivian C. Aquatic filtration system. 3,722,685, 3-27-73, Cl. 210-169.000.
Orensten, Vivian C.: *See—*
Orensten, Henry E.; and Orensten, Vivian C., 3,722,685.
Ores, Bernard: *See—*
Courtois, Monique; and Ores, Bernard, 3,752,741.
Ores, Bernard; and Rauber, Claude, to Roussel-UCLAF. Extraction of bacitracin with non-ionic resins. 3,741,949, 6-26-73, Cl. 260-112.500.
Orfei, John B.; and Shapiro, Henry, to American Science & Engineering Inc. Magnetic educational vehicle. 3,711,991, 1-23-73, Cl. 46-236.000.
Orfei, John B., to American Science & Engineering, Inc. Electric heating device. 3,769,495, 10-30-73, Cl. 219-433.000.
Orfei, Louis A. Self-propelled trench-shoring apparatus. 3,750,409, 8-7-73, Cl. 61-41.00a.
Organ, Allan John; and Price, Clifford Gerald, to University of Birmingham, The. Billet production. 3,750,505, 8-7-73, Cl. 83-54.000.
Organ, Glenn Edward, to Celanese Corporation. Removal of iron impurities. 3,758,566, 9-11-73, Cl. 260-531.00r.
Organic Laboratories, Inc.: *See—*
Chambers, James C.; and Kimbro, William S. (said Kimbro assor. to), 3,770,411.
Organic Pollution Control Corporation: *See—*
Wenger, Harvey M., 3,765,612.
Organisation Europeene de Recherches Spatiales: *See—*
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Van Vliet, Nicolaas Pieter; and Peters, Jacobus Albertus Maria, 3,708,511.
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Oriani, Agostino, to Industrie Pirelli S.p.A. Method for restoring the initial work-hardened condition in a conductor portion annealed by welding and apparatus for carrying out said method. 3,707,865, 1-2-73, Cl. 72-340.000.
Oriani, Agostino, to Industrie Pirelli S.p.A. Apparatus for restoring the initial work-hardened condition in a conductor portion annealed by welding. 3,775,824, 12-4-73, Cl. 29-203.00r.
Oriard, Marcel H.: *See—*
Sheeran, Harold W.; and Oriard, Marcel H., 3,717,519.
Sheeran, Harold W.; and Oriard, Marcel H., 3,764,419.
Oriel, George J., to Xerox Corporation. Toner cleaning and storing apparatus. 3,742,551, 7-3-73, Cl. 15-256.510.
Orient Watch Co., Ltd.: *See—*
Takagi, Tooru, 3,735,585.
Takagi, Tooru, 3,748,849.
Oriental Photo Industrial Co., Ltd.: *See—*
Tani, Kaneyasu; Kawazoe, Shiro; Eto, Mikio; Okamots, Sunao; and Fujino, Tamotsu, 3,709,691.
Origgi, Robert O.: *See—*
Becca, Guiseppe; and Origgi, Robert O., 3,759,753.
Original Equipment Manufacturing Limited: *See—*
Parisotto, Antonio; and Nemis, Coniston James, 3,717,390.
Original Hanau Quarzlampen GmbH: *See—*
Junginger, Klaus, 3,766,377.
Junginger, Klaus M., 3,772,506.
Originetics Incorporated: *See—*
Pappas, Michael, 3,779,547.
O'Riley, Kenneth: *See—*
Watts, Peter Edward; Kent, Alan Walter; and O'Riley, Kenneth, 3,767,097.
Orinik, Michael T.: *See—*
Lo, John C.; and Orinik, Michael T., 3,736,170.
Orion Industries Inc., mesne: *See—*
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Orion Research Incorporated: *See—*



Frant, Martin S.; and Fowler, James, 3,755,124.
O'Riorden, David J., Jr.: *See—*
Rawson, Edward B.; and O'Riorden, David J., Jr., 3,734,082.
Orita, Shunji: *See—*
Kurokawa, Isao; Izawa, Nobuyuki; and Orita, Shunji, 3,724,870.
Orita, Takao: *See—*
Hino, Tetsuo; Orita, Takao; Kozu, Isao; Fujisawa, Kiyoji; and Nishiyama, Akio, 3,738,021.
Hino, Tetsuo; Kozu, Isao; Hashiguchi, Susumu; Akamine, Takenori; Nishimura, Katsutoshi; Orita, Takao; Fujisawa, Kiyoji; and Nishiyana, Akio, 3,775,568.
Orita, Toyoki; and Hara, Yoshiaki, to Industrial Science & Technology, Agency of. Fluidic device. 3,762,445, 10-2-73, Cl. 137-806.000.
Oritani, Atsushi: *See—*
Kurata, Takao; and Oritani, Atsushi, 3,780,317.
Orito, Hiroshi: *See—*
Matsumura, Hisashi; Samejima, Tadanori; Orito, Hiroshi; and Ochiari, Hisashi, 3,781,150.
Orito, Zen Ichi; Sugimoto, Hiroshi; Uchida, Minoru; Sahara, Hajime; Takesue, Masatoshi; and Nishida, Kiyoharu, to Mitsubishi Rayon Company Limited. Novel acrylonitrile polymer fibers and process for producing the same. 3,728,072, 4-17-73, Cl. 8-115.500.
Orkin, Bernard A., to Mobil Oil Corporation. Lube oil hydrocracking with ZSM-5 zeolite. 3,755,145, 8-28-73, Cl. 208-111.000.
Orkin, Stanley S.; and Hartwick, Richard W., to Kacarb Products Corporation, mesne. Split-race bearing construction. 3,709,573, 1-9-73, Cl. 308-161.000.
Orkin, Stanley S.; and Whitfield, Alan A., to Kacarb Products Corporation, mesne. Ceramic bearing. 3,711,171, 1-16-73, Cl. 308-241.000.
Orkowitz, Harry; and Sherman, Samuel M., to United States of America, Air Force, mesne. Radar apparatus with directional discrimination and increased radar sensitivity. 3,742,501, 6-26-73, Cl. 343-7.700.
Orlandi, Giancarlo: *See—*
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Orlandi, John F., to Belden Corporation. Wire twisting device. 3,763,899, 10-9-73, Cl. 140-149.000.
Orlandini, Antonio; and Pazzaglia, Massimo, to Societa Italiana Telecomunicazioni Siemens S.p.A. System for selective frequency amplification or attenuation. 3,729,687, 4-24-73, Cl. 330-51.000.
Orlandini, Bruno, to Bunker Hill Company, The. Process for preventing agglomeration of cadmium in solution. 3,761,251, 9-25-73, Cl. 75-109.000.
Orlandini, Paolo: *See—*
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Smith, William E.; Orlando, Charles M.; and Barito, Robert W., 3,781,229.
Orlando, Charles M.; Cataneo, Ferdinand; and Engel, Lawrence J., to Esso Research and Engineering Company. Gem-difluoroamino unsaturated hydrocarbons. 3,752,853, 8-14-73, Cl. 260-583.0nh.
Orlando, Charles M.; Emerick, Carl M.; and Jerussi, Robert A., to General Electric Company. Polyurethane wire coating method. 3,764,375, 10-9-73, Cl. 117-128.400.
Orlando, Harold J.: *See—*
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Orlando, James V. Portable wall partition. 3,713,474, 1-30-73, Cl. 160-351.000.
Orlando, John B., to Lamb, F. Jos., Company. Hydrostatic transfer drive. 3,772,888, 11-20-73, Cl. 60-444.000.
Orlando, Vincent A.: *See—*
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Orlando, Vincent A., to General Motors Corporation. Acceleration responsive sensor. 3,710,051, 1-9-73, Cl. 200-61.45r.
Orlando, Vincent A., to General Motors Corporation. Automatic choke control. 3,763,837, 10-9-73, Cl. 123-119.00f.
Orlando, Vincent A., to General Motors Corporation. Magnetic type sensor. 3,774,128, 11-20-73, Cl. 335-81.000.
Orlando, Vincent A., to General Motors Corporation. Velocity responsive sensor for vehicle occupant restraints. 3,774,938, 11-27-73, Cl. 280-150.0ab.
Orlett, Michael J., to Lilly, Eli, and Company. Dinitrophenylazides as herbicides and their preparation. 3,752,661, 8-14-73, Cl. 71-125.000.
Orlick, John, to Hunt, Rodney, Company. Knock-off device. 3,757,547, 9-11-73, Cl. 68-176.000.
Orlik, Richard D., to Chesapeake and Ohio Railway Company, The and Baltimore and Ohio Railroad Company, The. Cable reel car. 3,715,993, 2-13-73, Cl. 105-36.700.
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Orlovsky, Vladimir W. Sheet folding apparatus and method. 3,724,838, 4-3-73, Cl. 270-79.000.
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Ormaechea, Jose Joaquin Aguirre. Method of producing lead-bearing steel. 3,756,805, 9-4-73, Cl. 75-58.000.
Orme, Myrl E., to Bendix Corporation, The. Hydraulic system failure detectors. 3,768,371, 10-30-73, Cl. 91-411.00r.
Orme, Myrl E., to Bendix Corporation, The. Fail-safe servo control valve. 3,768,376, 10-30-73, Cl. 91-466.000.
Ormesher, Robert J.: *See—*
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Ormiston, Robert B.; and Wilcox, Gale F., to Steelcase Inc. File. 3,734,590, 5-22-73, Cl. 312-322.000.
Ormrod, John H., to Atomic Energy of Canada Limited. Ion source with reduced emittance. 3,767,952, 10-23-73, Cl. 313-63.000.
Ormsbee, Mary K.; Saadeh, Mouin I.; and Skulby, Leonard, to Dick, A. B., Company. Electrostatic liquid developer containing dye coated carbon particles. 3,749,670, 7-31-73, Cl. 252-62.100.
Ormskirk, Hoscar NR: *See—*
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Orndorff, Brickley S., to Penn-Aquatic Industries, Inc. Method of constructing a swimming pool. 3,753,327, 8-21-73, Cl. 52-742.000.
Orndorff, Roy L., to Goodrich, B. F., Company, The. Mud resistant elastomers. 3,717,943, 2-27-73, Cl. 36-32.00r.
Orndorff, Roy L., Jr., to Goodrich, B. F., Company, The. Mud resistant elastomers. 3,748,951, 7-31-73, Cl. 36-7.300.
Orne, Laurence E. Information enhancing amplifier. 3,725,805, 4-3-73, Cl. 330-136.000.
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Ornsteen, Robert L., to Ornsteen Chemicals and Textiles Co., Inc. Hot melt adhesive gun. 3,764,045, 10-9-73, Cl. 222-146.0he.
Ornstein, Charles; Corson, Floyd L.; and Schenck, Fred W., to CPC International Inc. Crystallizer. 3,762,947, 10-2-73, Cl. 127-15.000.
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Ornstein, Jacob B., to Texas Instruments, Incorporated. Composite thermostat material. 3,767,370, 10-23-73, Cl. 29-195.500.
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Ornstein, Jacob L., to Texas Instruments, Incorporated. Composite thermostat material. 3,756,790, 9-4-73, Cl. 29-195.500.
Ornstein, Jacob L., to Texas Instruments, Incorporated. Arrangement for a shadow mask in a slim color television tube and thermostat metal for use therein. 3,781,583, 12-25-73, Cl. 313-85.00s.
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Oropallo, Robert A., to American Brass and Aluminum Foundry, Inc. Drain fitting. 3,742,525, 7-3-73, Cl. 4-288.000.
Oroschakoff, Georgi. Process for assembling concrete reinforcement. 3,736,637, 6-5-73, Cl. 29-155.00r.
Oroschakoff, Georgi. Reinforcement for reinforced concrete structures. 3,744,207, 7-10-73, Cl. 52-664.000.
Oroschakoff, Georgi. Reinforcement. 3,778,951, 12-18-73, Cl. 52-646.000.
O'Rourke, Richard G.; and Shrader, Walter M., to Brush Wellman, Inc. Aluminum base alloy. 3,761,252, 9-25-73, Cl. 75-141.000.
O'Rourke, Richard George: *See—*
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O'Rourke, Thomas Frank, to International Business Machines Corporation. RPM coding and decoding apparatus therefor. 3,755,809, 8-28-73, Cl. 340-347.0dd.

O'Rourke, William J. Dispensing apparatus. 3,720,186, 3-13-73, Cl. 119-51.120.
O'Rourke, William J. Apparatus for dispensing material from receptacles pivotally invertable at the ends of consecutive time periods. 3,726,438, 4-10-73, Cl. 222-70.000.
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Orr, Clyde P., to Monsanto Company. Phosphorus manufacture. 3,743,700, 7-3-73, Cl. 423-322.000.
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Orr, John L., to Keystone Consolidated Industries, Inc. Dual action night latch and lock. 3,765,710, 10-16-73, Cl. 292-169.170.
Orr, John L., to Keystone Consolidated Industries Inc. Spring bolt night latch. 3,767,241, 10-23-73, Cl. 292-169.150.
Orr, John L., to Keystone Consolidated Industries, Inc. Interlocking dead bolt lock and strike. 3,774,420, 11-27-73, Cl. 70-104.000.
Orr, John L., to Keystone Consolidated Industries, Inc. Retaining means for a lock cylinder plug. 3,774,423, 11-27-73, Cl. 70-375.000.
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Orr, Robert F., to Fluoroware of California, Inc. Rinsing and drying device. 3,727,620, 4-17-73, Cl. 134-95.000.
Orr, Robert F., to Fluorocarbon Company,. The. Semi-conductor wafer processing apparatus. 3,772,980, 11-20-73, Cl. 95-89.00d.
Orr, Samuel J., IV: *See—*
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Orris, John A., to United Engineering and Foundry Company. Adjustable beam turn-up and beam turn-down arms for cooling bed service. 3,738,143, 6-12-73, Cl. 214-1.0qg.
Orris, Stephen J., to Chrysler Corporation. Electronic seat sensing switch. 3,764,861, 10-9-73, Cl. 317-146.000.
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Orser, David A., to General Electric Company. Light-modulating medium for image projection apparatus. 3,766,081, 10-16-73, Cl. 252-300.000.
Orser, Harvey E. Plug insertion tool. 3,714,851, 2-6-73, Cl. 81-15.700.
Orshansky, Elias, Jr., to Urs Systems Corporation. Narrow range hydromechanical transmission. 3,709,060, 1-9-73, Cl. 74-687.000.
Orshansky, Elias, Jr., to Urs Systems Corporation. Non-regenerative hydromechanical transmission. 3,709,061, 1-9-73, Cl. 74-687.000.
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Ort, Wolfgang, to Eastman Kodak Company. Device for picking up slides. 3,768,901, 10-30-73, Cl. 353-103.000.
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Orth, Harold R.; Biskis, Kestutis; and Yeh, Rudolph E., to International Harvester Company. Dual direction flow control valve. 3,770,007, 11-6-73, Cl. 137-501.000.
Orth, Peter. Apparatus for measuring revolution speed of a body. 3,735,262, 5-22-73, Cl. 324-174.000.
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Orthman, Henry K., to Orthman Manufacturing Inc. Tomato vine support. 3,731,429, 5-8-73, Cl. 47-47.000.
Orthman, Henry K., to Orthman Manufacturing Inc. Tool bar clamp. 3,756,327, 9-4-73, Cl. 172-697.000.
Orthman, Henry K., to Orthman Manufacturing Inc. Planter marker. 3,766,987, 10-23-73, Cl. 172-126.000.
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Orthuber, Richard Kasper, to International Telephone and Telegraph Corporation. Thermionic cathode. 3,772,560, 11-13-73, Cl. 313-310.000.
Ortiz, Angel J. Control of oil pollution a sea apparatus and method. 3,724,662, 4-3-73, Cl. 210-83.000.
Ortiz, James J. Arm wrestling machine. 3,735,983, 5-29-73, Cl. 273-1.00e.
Ortlieb, Robert M., to Devlieg Machine Company. Double bladed cutting tool. 3,767,317, 10-23-73, Cl. 408-183.000.



Ortlieb, William L., to Colgate-Palmolive Company. Method and apparatus for scanning surfaces. 3,777,151, 12-4-73, Cl. 250-201.000.
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Ory, Gaston C. Forging machine. 3,751,959, 8-14-73, Cl. 72-237.000.
O'Ryan, Leona C., 1/2 to Bova, Joseph C. Multiple-ball and projectile toy. 3,744,472, 7-10-73, Cl. 124-1.000.
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Osada, Chiaki; Satomura, Masato; and Ono, Hisatake, to Fuji Photo Film Co., Ltd. Photosensitive composition comprising a photosensitive. 3,770,443, 11-6-73, Cl. 96-86.00p.
Osada, Chiaki; and Ono, Hisatake, to Fuji Photo Film Co., Ltd. Imagewise exposing and heating a photo-sensitive composition containing a spiropyran compound and an organic peroxide. 3,773,508, 11-20-73, Cl. 96-48.00r.
Osada, Mitsuo; Kumon, Osamu; and Nishimoto, Tatsuya, to Sumitomo Electric Industries, Ltd. Ferroelectric and piezoelectric composition. 3,738,936, 6-12-73, Cl. 252-62.900.
Osada, Mitsuo; Kumon, Osamu; and Nishimoto, Tatsuya, to Sumitomo Electric Industries, Ltd. Ferroelectric and piezoelectric composition. 3,766,073, 10-16-73, Cl. 252-62.900.
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Osak, Andrew; and Dunst, Franz Alois. Movable target describing an oval path. 3,770,274, 11-6-73, Cl. 273-105.200.
Osaka Bobbin Kabushiki Kaisha: *See—*
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Osawa, Yoshio; and Ueno, Koitiro, to Teikoku Hormone Mfg. Co., Ltd. 1-Aryloxy-4,5-diphenylimidazoles. 3,759,946, 9-18-73, Cl. 260-309.000.
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Osbond, John Mervyn; and Wickens, James Charles, to Hoffmann-La Roche Inc. Cyclopropane carboxylic acid esters. 3,761,506, 9-25-73, Cl. 260-468.00h.
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Osborn, Coy D., to Williamson, T. D., Inc. Fluid tight closure. 3,766,947, 10-23-73, Cl. 138-89.000.
Osborn, Fred; and Kinney, Selwyne P., to Kinney, S. P., Engineers, Inc. Method of and apparatus for the processing of molten slag. 3,738,820, 6-12-73, Cl. 65-19.000.
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Osborn, Harry B., Jr., to Park-Ohio Industries, Inc. Method of heating a workpiece of particulate material. 3,708,645, 1-2-73, Cl. 219-10.410.
Osborn, Harry B., Jr.; and Maxim, John H., to Park-Ohio Industries, Inc. Method and apparatus for separating end portions from metal cans. 3,736,896, 6-5-73, Cl. 113-1.00k.
Osborn, Harry B., Jr., to Park-Ohio Industries, Inc. Gas plasma device. 3,755,710, 8-28-73, Cl. 315-348.000.
Osborn, Jack S. Dust bag quality testing system. 3,712,114, 1-23-73, Cl. 73-38.000.
Osborn, Lloyd, to V-M Corporation. Clutch arrangement for tape transport. 3,741,499, 6-26-73, Cl. 242-201.000.
Osborn, Merlin L.: *See—*
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Osborn, Robert H., to Hercules Incorporated. Electrically conducting elastomers and electrical members embodying the same. 3,757,088, 9-4-73, Cl. 219-553.000.
Osborn, Robert O., to Du Pont de Nemours, E. I., and Company. Heat shrinkable material with moveable interlayer. 3,762,983, 10-2-73, Cl. 161-49.000.
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Osborne, Calvin Eugene. Pocket clip for pencils or the like formed

Osborne, Calvin Eugene. Pocket clip for pencils or the like formed from a wire coil. 3,760,462, 9-25-73, Cl. 24-11.00c.
Osborne, D. Wendell: *See—*
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Osborne, Donald W.; and Peterson, Stanley V., to Thiokol Chemical Corporation. Rocket vehicle. 3,760,730, 9-25-73, Cl. 102-49.400.
Osborne, Duncan William; and Chouings, Leslie Cyril, to Automotive Products Company Limited. Fluid pressure braking systems for vehicles. 3,773,367, 11-20-73, Cl. 303-22.00r.
Osborne, Edwin F., Jr. Air filter system. 3,717,978, 2-27-73, Cl. 55-242.000.
Osborne, Eugene F.; Rueger, Lauren J.; and Gooding, Otis E., to United States of America, Navy. Time-multiplexed time reference dissemination system. 3,728,485, 4-17-73, Cl. 178-69.50r.
Osborne, Eugene F.; and McGovern, Terrence L., to United States of America, Navy. Incremental phase shift frequency synthesizer. 3,781,706, 12-25-73, Cl. 331-45.000.
Osborne, Fred H.; Tuttle, Robert S.; and Corbett, Michael J., to Wurlitzer Company, The. Tone arm assembly for automatic phonograph. 3,734,512, 5-22-73, Cl. 274-23.00r.
Osborne, Harold A.: *See—*
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Osborne, John Francis; and Pille, Hans Joachim, to Motorola, Inc. Method of causing adherence of glass to gold. 3,728,176, 4-17-73, Cl. 156-3.000.
Osborne, John Francis; and Pille, Hans Joachim, to Motorola, Inc. Method of adhering tungsten to glass and for providing a tungsten-gold interconnect layer. 3,729,406, 4-24-73, Cl. 204-192.000.
Osborne, Keith J. Apparatus for shirinking plastic film over palletized loads. 3,710,550, 1-16-73, Cl. 53-184.000.
Osborne, Michael Bryon, to Kingston Conveyors Limited. Conveyors. 3,731,784, 5-8-73, Cl. 198-31.0ab.
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Osborne, Thomas E., to Hewlett-Packard Company. Calculator with provision for automatically interposing memory access cycles between otherwise regularly recurring logic cycles. 3,769,621, 10-30-73, Cl. 340-172.000.
Osborne, Thomas Lawrence, to Bell Telephone Laboratories, Incorporated. Charge parceling integrator. 3,750,143, 7-31-73, Cl. 340-347.0ad.
Osborne, William B.: *See—*
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Osborne, William L., to Marlin Firearms Company, The. Folding rear sight for rifles. 3,755,910, 9-4-73, Cl. 33-255.000.
Osburn, Carl L., to Phillips Petroleum Company. Method and apparatus for controlling the flow of multiple streams. 3,722,811, 3-27-73, Cl. 236-14.000.
Osburn, Carl L., to Phillips Petroleum Company. Burner controlling apparatus and method. 3,734,675, 5-22-73, Cl. 431-12.000.
Osburn, Carlton M.: *See—*
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Osburn, Michael R.: *See—*
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Menz, Fred L.; and Osburn, Michael R., 3,753,402.
Osder, Stephen S., to Sperry Rand Corporation. Augmented washout circuit for use in automatic pilots. 3,752,420, 8-14-73, Cl. 244-77.00d.
Osdor, Asriel, to Hydro Chemical & Mineral Corporation. Flash evaporation using surface active agent and immiscible liquid. 3,734,160, 5-22-73, Cl. 159-47.00r.
Osdor, Asriel, to Hydro Chemical & Mineral Corporation. Process and system for extracting salts, concentrated brine, and/or pure water from saline water. 3,741,878, 6-26-73, Cl. 202-173.000.
Osdor, Asriel, to Hydro Chemical & Mineral Corporation. Internally interconnected multi-stage distillation system. 3,755,088, 8-28-73, Cl. 202-173.000.
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Osepchuk, John M., to Raytheon Company. Image correlator tube with secondary transmission of collimated rays. 3,728,577, 4-17-73, Cl. 315-11.000.
Osepchuk, John M., to Raytheon Company. Image correlator tube with crossed field deflection. 3,748,524, 7-24-73, Cl. 315-11.000.
Osepchuk, John M.; and Simpson, James E., to Raytheon Company. Energy seal for high frequency energy apparatus. 3,767,884, 10-23-73, Cl. 219-10.550.
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Osgood, Richard B., to Hewlett-Packard Company. Magnetic card reader-recorder apparatus with provision for avoiding undesired erasures. 3,780,377, 12-18-73, Cl. 346-74.00m.
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Osheroff, Gene W., to Fluidtech Corporation. Thermovalve. 3,730,430, 5-1-73, Cl. 236-101.000.
Osheroff, Gene W., to Fluidtech Corporation. Temperature-pressure transducer. 3,737,098, 6-5-73, Cl. 236-87.000.
Osheroff, Gene W., to Fluidtech Corporation. Thermovalve-electric switch apparatus. 3,758,030, 9-11-73, Cl. 236-87.000.
Oshida, Otto A.; and Shawgo, Michael, to Grefco, Inc. Thermal and acoustical structural insulating composition. 3,779,860, 12-18-73, Cl. 162-129.000.
Oshida, Yasunosuke; Okamoto, Seisho; and Shinomiya, Eiichi, to Nippon Air Brake Co., Ltd., The. Brake control apparatus. 3,770,329, 11-6-73, Cl. 303-22.00r.
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Oshima, Keiji; Ito, Yozo; and Suzuki, Setsuo, to Sumitomo Bakelite Company, Limited. Method of foaming fibrous fleece. 3,764,428, 10-9-73, Cl. 156-78.000.
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Oshima, Shintaro; Nakagome, Yukio; and Fukata, Yasuo, to Kokusai Denshin Denwa Kabushiki Kaisha. Bilateral start-stop transmission system for digital information. 3,715,507, 2-6-73, Cl. 179-15.0by.
Oshima, Shintaro; Watanabe, Teruji; and Ishihara, Hideo, to Kokusai Denshin Denwa Kabushiki Kaisha. Control system for magnetic bubbles. 3,772,661, 11-13-73, Cl. 340-174.0tf.
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Oshima, Yasuhiro. Method of producing plastic resin lawn-like objects by engraved plate molding. 3,759,769, 9-18-73, Cl. 156-61.000.
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Oshima, Yoichiro; Miyamoto, Seigo; and Matumoto, Manabu, to Hitachi, Ltd. Flow control device. 3,744,269, 7-10-73, Cl. 62-212.000.
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Osieka, Hans; Kiefer, Hans; and Fischer, Adolf, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. N-alkyl-N-bi-,tri-or tetracycloalkyl thiolcarbamates. 3,742,007, 6-26-73, Cl. 260-455.00a.
Osieka, Hans; Koenig, Karl-Heinz; Bolz, Gerhard; and Amann, August, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. 1-Methyl-and 1-ethylthioethylcarbamoyl-substituted benzamidazoles. 3,751,425, 8-7-73, Cl. 260-309.200.
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Osmundsen, Norman K.; Harder, John E.; and Nitta, Tohei, to Westinghouse Electric Corporation. Shielded metal enclosed lightning arrester. 3,753,045, 8-14-73, Cl. 317-62.000.
Osmundsen, Norman K.; Harder, John E.; and Nitta, Tohei, to Westinghouse Electric Corporation. Shielded metal enclosed lightning arrester. 3,767,973, 10-23-73, Cl. 317-62.000.
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Osojnak, Boris M. Sealing ring with integral label holder. 3,735,863, 5-29-73, Cl. 206-53.000.
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Ost, Walter; Thomas, Klaus; Jerchel, Dietrich; and Appel, Karl-Richard, to Boehringer, C. H., Sohn. Fungicidal and acaricidal composition and method of use. 3,717,709, 2-20-73, Cl. 424-250.000.
Ost, Walter; and Thomas, Klaus, to Boehringer, C. H., Sohn. N,N'-bis-[(1-formamido-2',2',2'-trichloro)-ethyl] imidazolidines. 3,723,454, 3-27-73, Cl. 260-309.700.
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Ostrom, Cyrus W., to Consolidated Electric Corporation. Constant tension line-tensioning mechanism. 3,774,883, 11-27-73, Cl. 254-172.000.
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O'Sullivan, Denis Joseph, to Loctite (Ireland) Limited. Cyanoacrylate adhesive composition. 3,742,018, 6-26-73, Cl. 260-465.400.
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Oswald, Alexis A., to Esso Research and Engineering Company. Methyl acetylene diadducts of dialkyl dithiophosphoric acids. 3,733,377, 5-15-73, Cl. 260-948.000.
Oswald, Alexis A.; and Lesser, Joseph H., to Esso Research and Engineering Company. Process for the preparation of S-vinylic esters of thiophosphorus acids. 3,742,098, 6-26-73, Cl. 260-971.000.
Oswald, Alexis A.; and Schmit, George N., to Esso Research and Engineering Company. Free radical addition of dithiophosphonic and dithiophosphinic acids to acetylenes. 3,751,530, 8-7-73, Cl. 260-978.000.
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Oswald, Jacques. Method and device for transmitting bivalent signals. 3,754,238, 8-21-73, Cl. 340-347.0dd.
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Ota, Hiroshi; and Fujii, Tuneji, to Toyoda Koki Kabushiki Kaisha. Grinding wheel guard device. 3,726,048, 4-10-73, Cl. 51-269.000.
Ota, Hiroshi, to Toyoda Koki Kabushiki Kaisha. Table positioning device for grinding machine. 3,780,474, 12-25-73, Cl. 51-105.0sp.
Ota, Isao, to Matsushita Electric Industrial Co., Ltd. Electrophoretic display device. 3,756,693, 9-4-73, Cl. 350-160.00r.
Ota, Isao, to Matsushita Electric Industrial Co., Ltd. Electrophoretic light image reproduction process. 3,767,392, 10-23-73, Cl. 96-1.00r.
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Otani, Sigeru; Honda, Fuminori; and Mitani, Kiyoto, to Teijin Limited. Temperature measuring apparatus for heating roller. 3,758,738, 9-11-73, Cl. 219-10.490.
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Ototani, Tohei; Shimodaira, Saburo; and Kataura, Yasuzi, to Research Institute for Iron, Steel and Other Metals of the Tohoku University, The. Corrosion resistant low carbon chromium alloy steel. 3,778,255, 12-11-73, Cl. 75-126.00c.
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Otsubo, Kizuki; and Ishikawa, Yoshikazu, to Nissan Motor Company, Limited. Exhaust system for multi-rotor type rotary internal combustion engine. 3,777,719, 12-11-73, Cl. 123-8.070.
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Otsugu, Shozo, to Kasei, C. I., Co., Ltd. Apparatus for the extrusion molding of foamable plastics. 3,713,762, 1-30-73, Cl. 425-197.000.
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Ott, Arnold C. Axle-mounted wheel exercising device with spring resistance located centrally within the wheel. 3,752,475, 8-14-73, Cl. 272-83.00a.
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Oxendine, Joseph W., Jr.; Happs, Gary J.; and Keltie, Dale A., to Filper Corporation. Voting machine and method. 3,710,105, 1-9-73, Cl. 235-54.00f.
Oxengorn, Naum Izrailevich: *See—*
Nikolaev, Petr Ivanovich; Ignatov, Jury Lazarevich; Smirnov, Sergei Ivanovich; Oxengorn, Naum Izrailevich; Gigineishvili, Rimma Fominichna; Dvorkina, Klara Moissevna; and Iskandyarov, Akhmet Mukhsinyatovich, 3,779,868.
Oxenham, John Kenneth, to U.S. Philips Corporation. Measuring the beam landing characteristic of a shadow-mask cathode-ray tube. 3,723,801, 3-27-73, Cl. 315-13.0cc.
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Oxenrider, Bryce C.; Woolf, Cyril; and Beyleveld, Wilhelmus M., to Allied Chemical Corporation. Electrical apparatus comprising perfluoroazaolefin as liquid dielectric. 3,746,952, 7-17-73, Cl. 317-258.000.
Oxenrider, Bryce C.; Woolf, Cyril; and Beyleveld, Wilhelmus M., to Allied Chemical Corporation. Method of preparing fluoroperhalozaolefins. 3,751,469, 8-7-73, Cl. 260-566.00r.
Oxenrider, Bryce C.; Woolf, Cyril; Dear, Robert E. A.; and Beyleveld, Wilhelmus M., to Allied Chemical Corporation. Process for preparing fluoroperhaloalkyl nitriles. 3,752,840, 8-14-73, Cl. 260-465.700.
Oxenrider, Bryce C.; and Woolf, Cyril, to Allied Chemical Corporation. Synthetic fibers having improved soil and stain repellency. 3,767,625, 10-23-73, Cl. 260-75.00n.
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Hunter, John P., Jr.; and George, Erie, 3,710,398.
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Oxford, John A. Prefabricated bed structure. 3,737,925, 6-12-73, Cl. 5-131.000.
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Oxlade, Roy R., to British Iron and Steel Research Association, The. Twin stand rolling mill-azial roll alignment. 3,750,448, 8-7-73, Cl. 72-247.000.
Oxley, David Fairclough, to Imperial Chemical Industries, Limited. Process for the production of laminar cellular articles. 3,751,534, 8-7-73, Cl. 264-45.000.
Oxley, Gerald K.; and Venable, Fredrick D., to TRW Inc. Variable ratio integral power steering gear. 3,741,074, 6-26-73, Cl. 91-375.00a.
Oxy Metal Finishing Corporation: *See—*
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Oya, Minoru; Ito, Shin; and Kubo, Seitoku, to Toyota Jidosha Kogyo Kabushiki Kaisha. Wheel spin control system for automatic transmissions. 3,741,043, 6-26-73, Cl. 74-866.000.
Oya, Yuichiro; and Hayasaka, Akio, to Hitachi, Ltd. Active pulse transmission circuit for an integrated circuit. 3,718,780, 2-27-73, Cl. 179-170.00g.
Oyachi, Toshio, to Osaka Transformer Co., Ltd. High tension network distribution system. 3,710,188, 1-9-73, Cl. 317-26.000.
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Oyama, Shigeaki: *See—*
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Ozaki, Atsumu; Mizoroki, Tsutomu; and Maruya, Ken-Ichi, to Tokyo Institute of Technology, President of. Method of producing 3-phenyl-1-butene. 3,732,323, 5-8-73, Cl. 260-668.00b.
Ozaki, Atsumu; Aika, Ken-Ichi; Furuta, Akio; and Okagami, Akio, to Japan Gasoline Co., Ltd. Ammonia synthesis catalyst. 3,770,658, 11-6-73, Cl. 252-443.000.
Ozaki, Kazuyoshi. Set numeral changing device in an automation counter. 3,761,955, 9-25-73, Cl. 235-114.000.
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Ozaki, Masaaki, to Honda Giken Kogyo Kabushiki Kaisha. Automatic temperature control device for intake air of an internal combustion engine. 3,714,933, 2-6-73, Cl. 123-122.000.
Ozaki, Nobuo, to Maeda Industries, Ltd. Method of producing a bicycle chain shifting device and the same produced thereby. 3,710,636, 1-16-73, Cl. 74-217.00b.
Ozaki, Toshiaki: *See—*
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Ozawa, Akio; and Fujie, Seijiro, to Pioneer Electronic Corporation. Protective circuit. 3,761,775, 9-25-73, Cl. 317-27.00r.
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Ozawa, Keiji; Takashima, Seiichi; and Kinjo, Hisao, to Victor Company of Japan, Limited. Recording and reproducing system in a rotary magnetic medium recording and reproducing apparatus. 3,761,604, 9-25-73, Cl. 178-5.4cd.
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Ozawa, Naosuke; Kawakami, Takaaki; and Watabe, Minoru, to Nippon Kokan Kabushiki Kaisha. Movable welding jig. 3,712,529, 1-23-73, Cl. 228-44.000.
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Ozawa, Tokuji; Ueda, Mikio; Hashimoto, Ryosuke; and Suzuki, Shigenori, to Mitsui Shipbuilding and Engineering Co., Ltd. Process and apparatus for preparing lower olefins. 3,764,634, 10-9-73, Cl. 260-683.00r.
Ozawa, Tsutomu, to Hitachi, Ltd. Vernier chopper controlling device. 3,757,186, 9-4-73, Cl. 318-514.000.
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Ozawa, Yasuriko, to Mitsubishi Denki Kabushiki Kaisha. Elevator floor selector. 3,777,854, 12-11-73, Cl. 187-29.00r.
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Oznibichine, Nicolas, to Hazemag Hartzerkleinerungs- und Zementmaschinenbau Gesellschaft m.b.H. Impact breaker. 3,726,485, 4-10-73, Cl. 241-32.000.
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Ozono, Masayoshi; and Suzuki, Masakatsu, to Three Bond Co., Ltd. Method of imparting an anaerobic curable characteristic to monomers polymerizable. 3,775,385, 11-27-73, Cl. 260-79.000.
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Ozretich, Thomas M., to Dow Chemical Company, The. Composition and method for controlling undesirable plant growth. 3,719,465, 3-6-73, Cl. 71-88.000.
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Ozutsumi, Minoru; Arakawa, Kyokuji; Yamamoto, Masao; and Narukawa, Osamu, to Hodogaya Chemical Co., Ltd. 2,4-Disubstituted-5-imino-7,5-dihydro-1,2,4-triazolium-3-yl azo - aniline or naphthylamine dyestuffs. 3,770,716, 11-6-73, Cl. 260-146.00r.
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Paananen, Eugene E.; Csengery, Ladislao C.; and Barry, Richard J., to Burroughs Corporation. Magnetic tape drive. 3,764,087, 10-9-73, Cl. 242-186.000.
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Paap, Hans J.; and Tanner, Harley L., to Texaco Inc. Radioactive well logging comprising detecting unstable isotopes of aluminum. 3,781,545, 12-25-73, Cl. 250-270.000.
Paar, Alois; and Konig, Fritz, to Losenhausen Maschinenbau AG, mesne. Method and apparatus for compacting the placement material in road building. 3,752,592, 8-14-73, Cl. 404-102.000.
Paasschens, Cornelis W. M.; and Nelson, Victor J., to Chicago Bridge & Iron Company. Spring and boss sparger-mounting. 3,781,000, 12-25-73, Cl. 261-124.000.
Pabalan, Javier A., Jr., to Sybron Corporation. Dental shielding device. 3,735,491, 5-29-73, Cl. 32-33.000.
Pabich, Richard W.; and Treiber, Richard W., to Acme Lane Co., Inc. Tool for attaching improved wing headed fasteners. 3,727,821, 4-17-73, Cl. 227-120.000.
Pabich, Richard W. Method and apparatus for attaching cabinet backs. 3,765,077, 10-16-73, Cl. 29-432.000.
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Pace, Frank P.; Lange, Ronald A.; and Arams, Frank R., to United States of America, Navy. Infrared receiver for optical radar. 3,746,454, 7-17-73, Cl. 356-152.000.
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Pace, John G., to Chrysler Corporation. Marine engine cooling. 3,780,712, 12-25-73, Cl. 123-41.080.
Pace, John W., to Tektronix, Inc. Programmable function generator. 3,740,539, 6-19-73, Cl. 235-197.000.
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Pachmayr, Frank A.; Farrar, Jack R.; and Gerick, John, to Mershon Company. Firearm adjustable cheek piece. 3,710,496, 1-16-73, Cl. 42-71.00r.
Pachmayr, Frank A.; and Farrar, Jack R. Anti-fouling shot pattern control device. 3,769,731, 11-6-73, Cl. 42-79.000.
Pacht, Amos, to Partek Corporation. High pressure fluid system and nozzle and valve assembly therefore. 3,765,607, 10-16-73, Cl. 239-124.000.
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Leyde, Warren L.; and Marker, Delbert E., 3,742,442.

Pacific Tooling and Engineering Company: *See—*
Adcock, Gerald L., 3,771,612.
Sheldon, Gary L.; and Kimberling, Rex F., 3,717,209.

Pacific Utilities Supply Co.: *See—*
Grannis, Roland K., 3,711,049.

Pacific Valves, Inc.: *See—*
Hanson, Charles A.; and Cowles, Leroy C., 3,740,833.

Pacifici, James G.: *See—*
Kelly, Charles A.; and Pacifici, James G., 3,728,377.

Pacini, August J., to Purex Corporation Ltd. Method and composition for the topical treatment of herpetic keratitis. 3,720,773, 3-13-73, Cl. 424-295.000.

Pacini, Elmo J.; Johnson, Alford H.; and Turner, Robert B., Jr., to CSI Liquidating Corporation. Linear position converter. 3,739,649, 6-19-73, Cl. 74-89.220.

Pacini, Pier Luigi; and Kleiner, Eduard Karl, to Ciba-Geigy Corporation. Polymers of 5-(3-perfluoroalkyl-1,2,4-oxadiazolyl)olefins. 3,754,057, 8-21-73, Cl. 260-901.000.

Paciorek, Kazimiera J. L.: *See—*
Kratzer, Reinhold H.; and Paciorek, Kazimiera J. L., 3,729,552.

Package Machinery Company: *See—*
Bosyk, William, 3,734,664.
Chaisson, William P., 3,762,099.
Roberts, Franklin B.; and Groom, James S., 3,721,375.
Sidur, Edmund, 3,740,180.
Weisend, Burke A., 3,750,134.

Packaging Associates, Inc.: *See—*
Polk, Edgwin R., 3,734,154.

Packaging Corporation of America: *See—*
Anderson, Wilbur G., 3,767,037.
Bessett, Clifford H.; and Misdom, Theodore H., 3,732,976.
Estes, Timothy K.; De Winter, Frank G. V.; Doss, John L.; and Higgins, James J., 3,708,929.
Nederveld, Terrill L., 3,738,561.
Nederveld, Terrill L., 3,743,171.
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Packaging Industries, Inc.: *See—*
Brown, Fred P., Jr., 3,749,544.
Rohdin, Howard A., 3,776,375.

Packaging Laminators, Inc.: *See—*
Wrede, Leroy E., 3,759,379.

Packaging Products & Design Corporation: *See—*
Smith, Jesse J., 3,718,253.

Packaline AG: *See—*
Smed, Preben, 3,711,143.

Packard, Alden, to United States of America, Navy, mesne. Split antenna for dual channel fuze. 3,727,554, 4-17-73, Cl. 102-70.20p.

Packard Instrument Company, Inc.: *See—*
Bristol, Stanley M., 3,721,824.
Frank, Edmund, 3,722,719.
Frank, Edmund, 3,780,892.
Kaartinen, Niilo H., 3,761,228.
Smith, Roy E., 3,774,657.

Packard, James R.: *See—*
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Tait, William C.; Campbell, Donald A.; Packard, James R.; and Dierssen, Gunther H., 3,747,018.

Packard, James R.; Campbell, Donald A.; Tait, William C.; and Dierssen, Gunther H., to Minnesota Mining and Manufacturing Company. Electron beam laser. 3,757,250, 9-4-73, Cl. 331-94.500.

Packard, Norman M., to International Harvester Company. Ring manufacture, productive of line contact seal. 3,727,927, 4-17-73, Cl. 277-216.000.

Packard, Norman M., to International Harvester Company. Manufacturing process for piston engines having compression king reading. 3,751,784, 8-14-73, Cl. 29-156.40r.

Packard, Richard D., to United States of America, National Aeronautics and Space Administration. Semiconductor surface protection material. 3,745,082, 7-10-73, Cl. 156-285.000.

Packard, Roger A.: *See—*
Bennett, Delora E.; and Packard, Roger A., 3,724,014.

Packard, Roger E., to Burroughs Corporation. Variable word width processor control. 3,739,352, 6-12-73, Cl. 340-172.500.

Packard, Roger Erwin: *See—*
El-Hasan, Hasan Afif; and Packard, Roger Erwin, 3,739,160.

Packer, Louis L.; Bruton, William A.; and Woody, Bernard A., to United Aircraft Corporation. Engine oil inspection system using X-ray fluorescence. 3,751,661, 8-7-73, Cl. 250-272.000.

Packer, Robert Kenneth: *See—*
King, John Frederick; and Packer, Robert Kenneth, 3,719,530.

Packler, Mel A.; and Cokee, Jordan. Emblems which will glow in the dark and the method of making them. 3,738,299, 6-12-73, Cl. 112-439.000.

Packo, Joseph J.: *See—*
Rossman, Joseph, 3,709,712.

Packo, Joseph J. Method of sealing leaks in vessels and joints. 3,711,309, 1-16-73, Cl. 117-2.00r.

Packo, Joseph J., mesne: *See—*
Anderson, Amos R., 3,711,305.
Anderson, Amos R., 3,716,384.

Paclik, George F.: *See—*
Peterson, Frederick L.; and Paclik, George F., 3,757,808.

Paco Packaging Inc.: *See—*
Haines, Russel R., 3,754,374.

Paco Winders, Inc.: *See—*
Kiss, Emil P.; Onyx, Raymond C.; and Fegley, Richard F., 3,725,179.

Pacofsky, Edward Anthony, to Du Pont de Nemours, E. I., and Company. Polyester yarn. 3,748,844, 7-31-73, Cl. 57-140.00r.

Pactide Corporation: *See—*
Rodgers, Franklin A., 3,765,981.

Paculai, Robert E., to GTE Automatic Electric Laboratories, Incorporated. Interface system for direct numeric control of automatic wiring machines. 3,760,169, 9-18-73, Cl. 235-151.100.

Paczkowski, Sandra K., to Minneapolis Society of Fine Arts, The. Children's rocking and climbing toy. 3,730,522, 5-1-73, Cl. 272-60.000.

Padawer, Gerald M. Lithium nuclear microprobe. 3,710,113, 1-9-73, Cl. 250-83.30r.

Padden, Thaddeus F.: *See—*
Bell, Edwin A.; and Padden, Thaddeus F., 3,760,944.

Paddington, Arthur Loftus, to British Ropes Limited. Sealing means for pipes. 3,715,135, 2-6-73, Cl. 285-379.000.

Paddison, Gary W.: *See—*
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Paddle Pumps Incorporated: *See—*
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Paddock, Charles F., to Uniroyal, Inc. Rubber bonding cement for bonding EPDM to general purpose rubber. 3,758,435, 9-11-73, Cl. 260-33.60a.

Paddock, Paul F.: *See—*
Conway, Tim D.; and Paddock, Paul F., 3,768,645.

Paddock, Paul F., to Sunkist Growers, Inc. Conveyor with rocking units to roll round articles. 3,774,746, 11-27-73, Cl. 148-30.000.

Paddy McDonnell (Proprietary) Limited: *See—*
Venter, Pieter Lawrence, 3,750,772.

Padeh, Slomo J. Jewelry or tooth-crown molding device. 3,768,544, 10-30-73, Cl. 164-376.000.

Padek, Ted, to Detergent Engineering Corporation. Vehicle cleaning system. 3,726,293, 4-10-73, Cl. 134-45.000.

Padgett, Calvin D.: *See—*
Oliver, Ward H.; Padgett, Calvin D.; and Stump, Eugene C., Jr., 3,726,885.





Padgett, Clarence W., to North American Rockwell Corporation. High gain field effect transistor amplifier using field effect transistor circuit as current source load. 3,736,522, 5-29-73, Cl. 330-35.000.

Padgett, Freeman, 50% to Padgett, Ronnie Freeman. Pallet removing truck. 3,777,923, 12-11-73, Cl. 214-506.000.

Padgett, George L.: *See—*
Carlstrom, Lawrence A.; and Padgett, George L., 3,713,676.

Padgett, John W.: *See—*
Gaab, Frederick; Padgett, John W.; and Van, Sherman T., 3,772,233.

Padgett, Richard A., to GTE Electric Automatic Laboratories, Incorporated. Method and apparatus for synchronizing the operation of trunk scanners. 3,764,751, 10-9-73, Cl. 179-18.0eg.

Padgett, Richard A., to GTE Automatic Electric Laboratories, Incorporated. Trunk timer arrangement. 3,774,175, 11-20-73, Cl. 340-173.00r.

Padgett, Richard A., to GTE Automatic Electric Laboratories, Incorporated. Method for detecting failures in trunk status identification circuitry. 3,777,080, 12-4-73, Cl. 179-175.20r.

Padgett, Ronnie Freeman: *See—*
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Padgett, William J.: *See—*
Denenberg, Jeffrey N.; and Padgett, William J., 3,714,595.

Padgitt, Howard R.: *See—*
Vandenberg, Willard J.; Chae, Hi Chul; Stewart, Elmer R.; Palmer, Wayne R.; and Padgitt, Howard R., 3,709,598.

Padgitt, Howard R., to Lilly, Eli, and Company. Illumination of convex surfaces. 3,712,979, 1-23-73, Cl. 240-41.35r.

Padgitt, Kenneth W., to Borg-Warner Corporation. Rotational speed sensor. 3,725,668, 4-3-73, Cl. 250-231.00r.

Padilla, John R.: *See—*
Dorn, Clifford G.; and Padilla, John R., 3,774,208.

Padjen, George; Helman, Robert W.; and Brugger, Joseph A., to Bethlehem Steel Corporation. Molten metal bath level maintenance system. 3,738,312, 6-12-73, Cl. 118-2.000.

Padjen, George; and Brugger, Joseph A., to Bethlehem Steel Corporation. Method of continuously quenching molten metal coatings. 3,743,535, 7-3-73, Cl. 117-114.00r.

Padjen, George; Helman, Robert W.; and Brugger, Joseph A., to Bethlehem Steel Corporation. Method of coating steel wire with aluminum. 3,779,056, 12-18-73, Cl. 72-47.000.

Padmanathan, Thurairajah, to American Cyanamid Company. 1,3,2-oxazaborinides and method for preparing the same. 3,716,556, 2-13-73, Cl. 260-326.300.

Padmanathan, Thurairajah, to American Cyanamid Company. 1,3,2-Oxazaborinides and method for preparing the same. 3,733,334, 5-15-73, Cl. 260-307.00f.

Padmanathan, Thurairajah, to American Cyanamid Company. 1,3,2-Oxazaborinides and method for preparing the same. 3,758,489, 9-11-73, Cl. 260-304.000.

Padmanathan, Thurairajah, to American Cyanamid Company. 1,3,2-Oxazaborinides and method for preparing the same. 3,769,300, 10-30-73, Cl. 260-326.210.

Pados, Istvan, to Chemolimpex Magyar Vegyiaru Kulkereskedelmi Vallalat. Apparatus for the treatment of fluids or solutions by electric fields. 3,766,050, 10-16-73, Cl. 204-302.000.

Padovan, Giuseppe. Filter press for continuous filtration under pressure. 3,727,762, 4-17-73, Cl. 210-136.000.

Padovani, Henry R.: *See—*
Chafin, James M.; and Padovani, Henry R., 3,735,439.

Padrutt, Paul W.: *See—*
Hall, Richard W.; Kerr, Richard H.; and Padrutt, Paul W., 3,773,438.

Padula, Lawrence Dominic, to Skinner Precision Industries, Inc. Fluidic directional control valve assembly. 3,771,565, 11-13-73, Cl. 137-625.640.

Padula, William V., to United States of America, Army. Hand grenade safety lock pull ring assembly. 3,765,337, 10-16-73, Cl. 102-64.000.

Paelian, Owen; and Kellar, Richard L., to Torrid Corporation. Load cell. 3,754,610, 8-28-73, Cl. 177-211.000.

Paepke, Horst, to Warner & Swasey Company, The. Cam box for knitting machine. 3,709,004, 1-9-73, Cl. 66-57.000.

Paepke, Horst, to Warner & Swasey Company, The. Knitting machine. 3,742,733, 7-3-73, Cl. 66-50.00r.

Paesold, Gerold: *See—*
Kraus, Thaddaus; Paesold, Gerold; and Metzler, Elmar, 3,769,837.

Paffen, Maria Magdalena Mathilda: *See—*
Appels, Johannes Arnoldus; Paffen, Maria Magdalena Mathilda; Kooi, Else; and Simons, Johannes Philippus Gerardus, 3,755,014.

Paffrath, Edgar C.: *See—*
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Niedzielski, Donald A.; and Paffrath, Edgar C., 3,754,449.

Pagan, Augustine Joseph: *See—*
Kariagin, Nikolai; Laibson, Jerry; Hooper, Eric Ralph; Keogh, Jim Cowden, Jr.; and Pagan, Augustine Joseph, 3,778,855.

Pagan, Peter A.: *See—*
Mitchell, Paul T.; and Pagan, Peter A., 3,777,851.

Pagan, Peter A.; and Mitchell, Paul T., to American Metal Bearing Company. Stern tube seal. 3,726,531, 4-10-73, Cl. 277-59.000.

Pagani, Giorgio; and Gramatica, Giorgio, to Montecatini Edison S.p.A. Synthesis reactor with particular cooling means for exothermic reactions at high pressure. 3,753,662, 8-21-73, Cl. 23-289.000.

Pagano, Angelo S., to Rohm & Haas Company. Method of preparing organic isocyanates. 3,746,746, 7-17-73, Cl. 260-478.000.

Pagano, Anthony M.; and Fiedler, Dolores E. Breast support. 3,718,143, 2-27-73, Cl. 128-499.000.

Pagano, Henry A., to Lee, Raymond, Organization, Inc., The. Automatic jar shaker. 3,735,962, 5-29-73, Cl. 259-72.000.

Pagano, Joseph F.; and Valenta, Joseph R., to Smith Kline & French Laboratories. Cell propagator. 3,740,321, 6-19-73, Cl. 195-127.000.

Pagano, Samuel J. Knot-typing device for barrel knots. 3,713,680, 1-30-73, Cl. 289-17.000.

Pagano, Samuel J. Self-threading knot-tying device. 3,731,960, 5-8-73, Cl. 289-17.000.

Pagano, Victor H.; and Fabrykowski, Zygmunt J., to United States of America, Army. Universal applique armor. 3,765,299, 10-16-73, Cl. 89-36.00h.

Pagano, Victor H.; and Spiro, Harry, to United States of America, Army. Light weight ribbed composite armor. 3,765,301, 10-16-73, Cl. 89-36.00a.

Paganozzi, L. Rita: *See—*
Kim, Tai K.; Paganozzi, L. Rita; MacInnis, Martin B.; and Laferty, John M., 3,770,869.

Pagay, Roger Francois Mathieu, to Societe Nouvelle Baele Gangloff. Device for fitting caps to containers. 3,759,012, 9-18-73, Cl. 53-306.000.

Pagdin, Brian Colin, to GKN Transmissions Limited. Clutches. 3,760,917, 9-25-73, Cl. 192-84.00c.

Pagdin, William G.; and Risley, Robert F., to Schiltz, Jos., Brewing Company. Open flap detector for filled cartons. 3,714,759, 2-6-73, Cl. 53-78.000.

Pagdin, William G.; Risley, Robert F.; and Smith, Wayne A., to Schlitz, Jos., Brewing Company. Tab slitting and flap folding apparatus. 3,726,061, 4-10-73, Cl. 53-167.000.

Pagdin, William G.; and Constable, Charles F., to Schlitz, Jos., Brewing Company. Apparatus for crushing and/or compacting. 3,749,004, 7-31-73, Cl. 100-50.000.

Pagdin, William G.; and Risley, Robert F., to Schlitz, Jos., Brewing Company. By pass mechanism for a conveyor system. 3,767,026, 10-23-73, Cl. 198-31.0ac.

Page, Clifford Frank, to Alcan Research and Development Limited. Production of deep drawn pressings. 3,724,247, 4-3-73, Cl. 72-60.000.

Page, Daniel M.: *See—*
Blasch, Earl B.; Klingaman, Richard M.; and Page, Daniel M., 3,734,723.

Page, Derrick J., to Westinghouse Electric Corporation. Thin film transistor phonograph amplifier. 3,728,496, 4-17-73, Cl. 179-100.40a.

Page, Geoffrey A.: *See—*
Krohn, Ivar T.; and Page, Geoffrey A., 3,718,462.
Krohn, Ivar T.; and Page, Geoffrey A., 3,756,812.
Krohn, Ivar T.; Page, Geoffrey A.; and Reinis, Gedeminas J., 3,776,721.

Page, Ian Bruce: *See—*
Podmore, Alan William Ronald; and Page, Ian Bruce, 3,727,174.

Page, John R., Jr., to Hewlett-Packard Company. Signal frequency controller. 3,713,040, 1-23-73, Cl. 331-1.00a.

Page, John S., Jr. Van conversion to camper vehicle. 3,730,580, 5-1-73, Cl. 296-23.00r.

Page, John T.: *See—*
Von Linsowe, Carl V., 3,729,016.

Page, Littleton Dennis. Apparatus for maintaining the water level within a swimming pool to predetermined limits. 3,759,286, 9-18-73, Cl. 137-392.000.

Page, Richard Stockbridge: *See—*
Mertens, George Firmin; and Page, Richard Stockbridge, 3,772,510.

Page, Richard Stockbridge, to Associated Electrical Industries Limited. Electron microscope with automatically adjusted specimen stage. 3,727,051, 4-10-73, Cl. 250-49.50b.

Page, Richard W. Dental instrument hose clip with selector valve. 3,712,314, 1-23-73, Cl. 137-560.000.

Page, Richard W. Dental operating chair. 3,724,894, 4-3-73, Cl. 297-284.000.

Page, Richard W. Foot controller for dental instruments. 3,726,013, 4-10-73, Cl. 32-22.000.

Page, Richard W. Stool. 3,726,560, 4-10-73, Cl. 297-349.000.

Page, Robert Brian; and Cartwright, Thomas William, to Thorn Electrical Industries Limited. Metal-halide discharge lamps. 3,715,622, 2-6-73, Cl. 315-60.000.

Page, Robert E.: *See—*
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Page, Robert H.: *See—*
De Santis, Michael J.; Page, Robert H.; and Rakowsky, Edward Paielli, Michael F. Load transferring coupling device. 3,776,573, 12-4-73, Cl. 294-67.00a.

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Tsai, Grigory; Perikov, Richard Fedorovich; Pak, Mikhail Pelay, Alfred J.; Newsom, James Scott; Bruce, Wesley Wayne; and Page, Robert H., 3,777,130.

Page, Robert H.: *See—*
De Santis, Michael J.; Page, Robert H.; and Rakowsky, Edward L., 3,721,257.
Page, Robert J. Collapsible cover assembly for truck boxes and the like. 3,740,092, 6-19-73, Cl. 296-105.000.
Page, Robert N.: *See—*
Bender, Herman G.; Page, Robert N.; and Wold, Leslie D., 3,734,099.
Page, Russell D.: *See—*
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Page, Thomas John: *See—*
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Page, Wayne L.: *See—*
Roddy, Joseph T.; and Page, Wayne L., 3,712,438.
Page, Wilbur Mills; and Coupland, Ralph, to Clayton Dewandre Company, Limited. Control valves for spring brake units. 3,739,802, 6-19-73, Cl. 137-116.300.
Page, Wilbur Mills; and Riley, Charles Thomas, to Clayton Dewandre Company, Limited. Spring brake units. 3,774,507, 11-27-73, Cl. 92-130.000.
Page, William G.: *See—*
Wooden, Robert P.; and Page, William G., 3,733,277.
Page, William H.; and Spillson, George A., to Consolidated Packaging Corporation. Foldable carry-out serving tray. 3,722,781, 3-27-73, Cl. 229-28.000.
Pagel, Armin B., to Carlin Corporation. Torque sensing instruments. 3,710,618, 1-16-73, Cl. 73-136.00a.
Pagel, Kenneth J.: *See—*
Overly, Wm. F.; and Pagel, Kenneth J., 3,711,960.
Pagel, Vernon E. Cable mounted bailer for well drilling and cleaning. 3,780,804, 12-25-73, Cl. 166-162.000.
Pagella, Elio; and Guerci, Carlo, to Olivetti, Ing., C., & C., S.p.A. Automatically controlled tool holding device. 3,710,659, 1-16-73, Cl. 82-1.200.
Pagels, Rolf W., to Crown Zellerbach Corporation. Contoured bed sheet. 3,739,408, 6-19-73, Cl. 5-334.00c.
Pagenkopf, Stanley W. Automatic leak detection and shutoff system. 3,712,327, 1-23-73, Cl. 137-78.000.
Paget, Arthur Averil, to Scriven & Paget Limited. Spindle driving mechanism. 3,747,315, 7-24-73, Cl. 57-74.40s.
Paget, Charles J., to Lilly, Eli, and Company. Method of suppressing immunoresponse with 1 substituted-3-(2 pyrimidyl)ureas. 3,759,921, 9-18-73, Cl. 424-251.000.
Paget, Frederick W.: *See—*
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Paget, Frederick W.; and Avallon, John C., Jr., to GTE Sylvania Incorporated. Constant wattage autotransformer ballast for high pressure sodium lamp. 3,771,068, 11-6-73, Cl. 333-20.000.
Paget, Frederick W., to GTE Sylvania Incorporated. Charge regulating circuit for flash lamp storage capacitor. 3,780,344, 12-18-73, Cl. 315-241.00p.
Paget, Fredrick W., to GTE Sylvania Incorporated. Supplemental energy storage circuit for arc discharge lamps. 3,758,815, 9-11-73, Cl. 315-101.000.
Paget, Fredrick W., to GTE Sylvania Incorporated. Power supply for starting and operating arc lamps. 3,771,014, 11-6-73, Cl. 315-136.000.
Paginton, Philip Norman: *See—*
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Paginton, Philip Norman, to Westinghouse Brake and Signal Company Limited. Fluid pressure operable brake control valves. 3,734,575, 5-22-73, Cl. 303-33.000.
Paglia, Richard, to Polaroid Corporation. Photographic apparatus with delayed interlock switch. 3,760,701, 9-25-73, Cl. 95-11.00r.
Paglia, Richard, to Polaroid Corporation. Photographic film processing apparatus and camera system employing same. 3,779,144, 12-18-73, Cl. 95-14.000.
Pagliari, Alberto: *See—*
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Pagliaro, James M., to Compact Closures, Inc. Overhead stacked folding door. 3,757,845, 9-11-73, Cl. 160-189.000.
Pagliaro, Salvatore. Scale for upright pianos. 3,721,149, 3-20-73, Cl. 84-197.000.
Pagnard, Leonard E.: *See—*
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Pagnotta, Gasper; Kiesler, A. James; and Moffatt, William G., to General Electric Company. Method of joining print characters to high speed printer fingers. 3,768,148, 10-30-73, Cl. 29-471.700.
Pahl, Leo F.; and Jones, Norman H., to Crown Cork & Seal Company, Inc. System for carbonating beverages. 3,780,198, 12-18-73, Cl. 426-477.000.
Pahlitzsch, Bruno. Device for applying adhesive to envelopes, bags or the like. 3,719,167, 3-6-73, Cl. 118-211.000.
Pai, Panemangalore S., to BASF Wyandotte Corporation. Reducing free formaldehyde content in methylolated carbamates. 3,749,751, 7-31-73, Cl. 260-482.00c.
Paice, Derek A.: *See—*
Hicks, John M.; and Paice, Derek A., 3,764,851.
Paielli, Michael F. Load transferring coupling device. 3,776,573, 12-4-73, Cl. 280-405.00a.
Paige, David L. Dispensing apparatus for collapsible tube container. 3,780,911, 12-25-73, Cl. 222-101.000.
Paige, Edward George Sydney: *See—*
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Paige, Edward George Sydney, to United Kingdom of Great Britain and Northern Ireland, Minister of Aviation Supply in Her Britannic Majesty's Government of the. Acoustic surface wave device wherein acoustic surface waves may be propagated with an electric feld dependent velocity. 3,737,811, 6-5-73, Cl. 333-30.00r.
Paige, Janet N.: *See—*
Tomalia, Donald A.; and Paige, Janet N., 3,723,451.
Tomalia, Donald A.; and Paige, Janet N., 3,749,683.
Paige, Richard E., to APL Corporation. Carrier bag with integrally formed handle. 3,756,503, 9-4-73, Cl. 229-52.00b.
Paige, Richard E., to Gift Box Corporation. Box cover and combination cover and box. 3,767,109, 10-23-73, Cl. 229-43.000.
Paik, William W.: *See—*
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Paillard S.A.: *See—*
Ascoli, Enzo, 3,735,199.
Paillet, Pierre: *See—*
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Paillou, Rene. Grape harvester. 3,766,724, 10-23-73, Cl. 56-331.000.
Paine, David L.: *See—*
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Paine, David L.; and Urch, Harvey M., to Wenger Corporation. Portable folding riser. 3,747,706, 7-24-73, Cl. 182-113.000.
Paine, Joseph L.: *See—*
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Painley, Elmer F.; Last, Bernard; and Dym, Joseph B., to Rockwell Manufacturing Company. Housing structure for meters. 3,731,534, 5-8-73, Cl. 73-273.000.
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McGill, Robert W.; and Painter, P. Eric, 3,780,628.
Painter, Paul C., to Freeport Brick Company. Transfer apparatus for articles with a vertical passage. 3,741,409, 6-26-73, Cl. 214-1.0bc.
Painter, Roy; and Vaughan, Graham John, to Electric Power Storage Limited. Topping-up arrangements for multi-cell electric batteries. 3,708,348, 1-2-73, Cl. 136-170.000.
Paintin, John D. Hanger assembly for automobile exhaust systems. 3,735,950, 5-29-73, Cl. 248-62.000.
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Pais, George S. Autocombine engine. 3,757,515, 9-11-73, Cl. 60-13.00f.
Pais, Giuseppe. Device for attaching heels to shoe soles. 3,754,340, 8-28-73, Cl. 36-42.000.
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Paivinen, John O., to Mos Technology, Inc. Shift register. 3,708,690, 1-2-73, Cl. 307-221.00r.
Paivinen, John O.; Rubinstein, Richard B.; Cohen, Leo; and Baker, Lamar T., to General Instrument Corporation. Read-write random access memory system having single device memory cells with data refresh. 3,765,003, 10-9-73, Cl. 340-173.0ca.
Pajak, Wisold, to Auto Comp Devices, Inc. Aerosol can adapter. 3,764,044, 10-9-73, Cl. 222-70.000.
Pajak, Zdzislaw; Jurga, Kazimierz; and Jurga, Jan, to Uniwersytel im. Adama Mickiewicza w Pozaniu. Method for measuring the distribution of magnetic nuclear relaxation times. 3,714,551, 1-30-73, Cl. 324-.50r.
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Pajari, Yrjo, to Pajari Instruments. Pipe grooving apparatus. 3,754,488, 8-28-73, Cl. 82-4.00g.
Pajevic, Paul. Measuring device. 3,751,811, 8-14-73, Cl. 33-141.00r.
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Tsai, Grigory; Perikov, Richard Fedorovich; Pak, Mikhail Stepanovich; Sultanov, Saidikarim; Grishenkov, German Ivanovich; and Shakirov, Kuchkarali Tulaganovich, 3,734,227.
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Pakin, Vadim Nikolaevich. Rectifier. 3,735,197, 5-22-73, Cl. 315-348.000.
Pakosh, Peter, to Versatile Manufacturing Ltd. Steering and drive assembly for self-propelled units. 3,712,403, 1-23-73, Cl. 180-6.480.
Pakswer, Serge, to Zenith Radio Corporation. Secondary electron multipliers with single layer cermet coatings. 3,739,216, 6-12-73, Cl. 313-95.000.
Pakter, David L.; and Krauss, Thomas R. Timepiece for creating visual effects. 3,763,648, 10-9-73, Cl. 58-148.000.
Pakulak, Jack M., Jr., to United States of America, Navy. Outgassing technique. 3,749,024, 7-31-73, Cl. 102-101.000.
Pakulak, Pete. Pillow blocks and flange cartridges. 3,724,917, 4-3-73, Cl. 308-72.000.
Pakulak, Steve. Slip on steel foot guard. 3,716,932, 2-20-73, Cl. 36-72.00r.
Pakulak, Steve, 20% to Lee, Raymond, Organization, Inc., The. Safety glove. 3,732,575, 5-15-73, Cl. 2-161.00r.
Pal, Ajoy Kumar, to Portec, Inc. Train detector. 3,752,426, 8-14-73, Cl. 246-249.000.
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Probst, John F., 3,763,609.
Pal, Dharam, to United States of America, Navy. Fluidic system for mixing two fluids. 3,766,945, 10-23-73, Cl. 137-806.000.
Palac, Kazimir, to Zenith Radio Corporation. Envelope for, and method of processing, a color cathode-ray tube. 3,737,065, 6-5-73, Cl. 220-2.10a.
Paladino, Paul: *See—*
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Palama, Roberto. Semi-automatic marksmanship competition pistol for rapid precision firing. 3,711,980, 1-23-73, Cl. 42-16.000.
Palanos, Paul N.; and Unterleitner, Fred C., to Medoptics, Inc., mesne. Laser cauterizer. 3,750,670, 8-7-73, Cl. 128-303.100.
Palau, Joseph, to Staubli Ltd. Connection between frame and power transmitting rod of a shedforming machine. 3,779,287, 12-18-73, Cl. 139-88.000.
Palauro, Dieter K., to Gardner-Denver Company. Reversible piston hammer for percussion tool. 3,760,887, 9-25-73, Cl. 173-134.000.
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Palazzetti, Mario, to Fiat Societa per Azioni. Thyristor ignition control device. 3,716,758, 2-13-73, Cl. 317-96.000.
Palazzetti, Mario, to Fiat Societa per Azioni. Combined threshold detector and multivibrator circuit. 3,757,142, 9-4-73, Cl. 307-273.000.
Palazzetti, Mario, to Fiat Societa per Azioni. Electronic control for vehicle suspension systems. 3,770,292, 11-6-73, Cl. 280-124.00f.
Palazzetti, Mario; and Cavallarin, Bruno, to Fiat Societa per Azioni. Automatic motorway driving system for motor vehicles. 3,773,136, 11-20-73, Cl. 180-98.000.
Palazzi, Carlos Alberto. Honing head. 3,727,352, 4-17-73, Cl. 51-338.000.
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Palecek, Vincent James, to Bunker Ramo Corporation, The. One piece free standing terminal. 3,768,068, 10-23-73, Cl. 339-221.00m.
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Paley, Alfred I.; Newman, Leonard; Seats, Peter; and Waxenbaum, Bernard M., to Loral Corporation and Thomas Electronics, Inc. Vidicon viewed storage tube in which the newest line of information is displayed on the upper most portion of the tube. 3,715,618,2-6-73, Cl. 315-10.000.
Paley, Arthur Chester. Ventilating systems for sanitary systems. 3,740,772, 6-26-73, Cl. 4-217.000.
Palfreeman, John Siegfried, to U.S. Philips Corporation. Electromechanical frequency selective devices. 3,754,192, 8-21-73, Cl. 330-5.500.
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Palfy, Robert Miklos, to Logging Development Corporation. Delimber. 3,770,030, 11-6-73, Cl. 144-2.00z.
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Heimann, Werner; and Lossa, Ulrich, 3,717,989.
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Rosenberg, David J., 3,765,537.
Pall, David B.; and Jasaitis, Tadas K., to Pall Corporation. Process for making a back pressure resistant filter element. 3,716,436, 2-13-73, Cl. 156-218.000.
Pall, David B., to Pall Corporation. Pressure-responsive devices having controlled response to flow surges. 3,763,883, 10-9-73, Cl. 137-501.000.
Pall, David B., to Pall Corporation. Filter comprising amisometric compressed and bonded multilayer knitted wire mesh composites. 3,780,872, 12-25-73, Cl. 210-493.000.
Palladino, Michael J., to General Electric Company. Subcarrier regenerator and pal identifier system. 3,763,309, 10-2-73, Cl. 178-5.40p.
Pallas, Michael J.: *See—*
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Pallos, Ferenc M., to Stauffer Chemical Company. Certain phosphorus containing amidine compounds as insecticides and acaricides. 3,758,685, 9-11-73, Cl. 424-211.000.
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Palm, Bernhard, to Snaplite Displays, Inc. Illuminated display sign. 3,742,633, 7-3-73, Cl. 40-133.00b.
Palm, Bert E.; and Harwell, Earnest W., to Diamond Shamrock Corporation. Coated metal and method. 3,717,509, 2-20-73, Cl. 148-6.200.



Palm, Bert E.; and Germano, Victor V., to Diamond Shamrock Corporation. Method of preparing and using concrete reinforcing ele-
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Palma, James R. Telescoping arrow. 3,759,519, 9-18-73, Cl. 273-106.50r.
Palma, James R. Implant. 3,765,032, 10-16-73, Cl. 3-1.000.
Palma, James R. Separator. 3,768,658, 10-30-73, Cl. 210-304.000.
Palmaer, Karl V. General purpose tracks. 3,779,617, 12-18-73, Cl. 305-38.000.
Palman, Leonard. Windscreen filters. 3,722,949, 3-27-73, Cl. 296-97.00c.
Palman, Leonard. Security devices. 3,739,114, 6-12-73, Cl. 200-44.000.
Palman, Leonard. Pushbutton switch with actuator adjustable by interference fit. 3,767,877, 10-23-73, Cl. 200-159.00r.
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Palmberg, Paul W., to Physical Electronics Industries, Inc. Field termination plate. 3,735,128, 5-22-73, Cl. 250-49.50c.
Palmenberg, Edward C., to Chromalloy American Corporation. Classification gage for turbine vanes. 3,757,424, 9-11-73, Cl. 33-174.00c.
Palmenberg, Edward C., to Chromalloy American Corporation. Buttress twist gage. 3,778,906, 12-18-73, Cl. 33-174.00p.
Palmer, Allan M., to Aktiengesellschaft Gebruder Loepfe. Adjustable spindle arm for motion picture projectors. 3,734,422, 5-22-73, Cl. 242-197.000.
Palmer, Allan M., to Eastman Kodak Company. Adjustable spindle arm for motion picture projectors. 3,734,427, 5-22-73, Cl. 242-197.000.
Palmer, Ansell W., to General Electric Company. Overvoltage surge, arrester for a meter. 3,735,259, 5-22-73, Cl. 324-110.000.
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Palmer, Dale A., to Monroe Auto Equipment Co. Shock absorber and compression valve assembly. 3,757,910, 9-11-73, Cl. 188-322.000.
Palmer, Dale A., to Monroe Auto Equipment Co. Pressurized shock absorber. 3,771,626, 11-13-73, Cl. 188-298.000.
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Palmer, Harold A.; and Herren, Cecil L., to Texaco Inc. Continuous attic flooding. 3,770,057, 11-6-73, Cl. 166-306.000.
Palmer, Harold C., to Palmer Chemical & Equipment Company, Inc. Liquid or powder dispensing dart. 3,715,990, 2-13-73, Cl. 102-92.000.
Palmer, Harold C., to Palmer Chemical & Equipment Company, Inc. Gas-operated multiple shot projectile firing device. 3,726,266, 4-10-73, Cl. 124-11.00r.
Palmer, Harold S., to Productive Aires Mfg., Co. Method and apparatus for spreading a fertilizing material. 3,780,955, 12-25-73, Cl. 239-672.000.
Palmer, James A.; and Longcoy, Richard L., to Nu-Concept Computer Company. Digital test probe with signal latches and conditionable gating. 3,742,351, 6-26-73, Cl. 324-72.500.
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Palmer, William E. Wave-powered aerator. 3,758,083, 9-11-73, Cl. 261-25.000.
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Palombari, Maurizio, to Societa Italiana Telecomunicazioni Siemens S.p.A. PCM Telecommunication sytem with standby clock. 3,725,593, 4-3-73, Cl. 179-15.0bf.
Palombo, John A.; and Larime, Carl M., to General Signal Corporation. Pushbutton switch with adjustable contact plates for normally on, normally off, and momentary action. 3,777,091, 12-4-73, Cl. 200-166.0bc.
Paloniemi, Paavo. Isothermal calorimeter. 3,718,437, 2-27-73, Cl. 23-253.00r.
Palopoli, Frank P.; and Benson, Harvey D., to Richardson-Merrell Inc. Aminoalkoxy-or aminomethyl triarylalkenones. 3,721,712, 3-20-73, Cl. 260-570.00r.
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Palyi, Leslie. Method and device for the processing of corn for feeding purposes. 3,766,847, 10-23-73, Cl. 99-518.000.
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Palzon, William Joseph. Right hand steering mechanism for vehicles. 3,779,098, 12-18-73, Cl. 74-492.000.
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Neumann, Charles G.; Krueger, Harvey R.; and Panock, Walter, 3,771,907.
Panousis, Peter Theodore: *See—*
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Lynes, Dennis Joseph; and Panousis, Peter Theodore, 3,753,248.
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Yanof, Howard M.; and Pansky, Ben, 3,763,859.
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Nutter, Dale E., 3,747,905.
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Jansen, George E., 3,710,975.
Pantaze, Peter C.: *See—*
Branham, Norvil R.; and Pantaze, Peter C., 3,752,207.
Pantazelos, Theophanes G.: *See—*
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Pantazi, Spiros G., to Schwamb Corporation, The. Demountable partition assembly. 3,755,979, 9-4-73, Cl. 52-204.000.
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Forker, Ray B., Jr.; Kozlowski, Theodore R.; Krygier, Dennis A.; and Panzarino, Joseph N., 3,773,489.
Grego, Peter; and Panzarino, Joseph N., 3,775,154.
Howell, Robert G.; and Panzarino, Joseph N., 3,723,080.
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Panzer, Norman. Surgical speculum. 3,768,460, 10-30-73, Cl. 128-17.000.
Panzeri, Cesare: *See—*
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Paolini, Laurent L. Method and apparatus for joining two elements made of metal or thermoplastic material. 3,745,641, 7-17-73, Cl. 29-479.300.
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Schonberg, Elliott A.; and Pap, Geza, 3,738,949.
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Papa, Frank J., Jr.: *See—*
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Papa, Sisto: *See—*
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Papadatos, Dionysios D.; Deibel, Raymond A.; and Riester, William C., to Trico Products Corporation. Concealed windshield wiper system. 3,733,915, 5-22-73, Cl. 74-99.000.
Papadopoulos, Demetrios Panagiotou; and Westbrook, Thomas Leslie. Participation presenter-audience reaction system. 3,744,712, 7-10-73, Cl. 235-52.000.
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Papadopoulos, Stelios B.; and Kupka, Frank, to Sperry Rand Corporation, mesne. Disc file hub mounting means. 3,745,265, 7-10-73, Cl. 179-100.20a.
Papadopulos, Michael Savvas; and Guilford, Peter, to British Insulated Callender's Cables Limited. Methods of jointing metal pipes and other metal tubular bodies. 3,744,130, 7-10-73, Cl. 29-628.000.
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Papahronis, Basil T.; and Gibble, Walter P., to Hunt-Wesson Foods, Inc. Oil treatment process. 3,780,076, 12-18-73, Cl. 260-420.000.
Papai, Imre F. Pastry shell filling apparatus. 3,780,643, 12-25-73, Cl. 99-450.700.
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Papajewski, Reinhold; and Kleinschmidt, Johann O., to Singer-Werke G.m.b.H. Thread trimming device for lockstitch sewing machines. 3,776,161, 12-4-73, Cl. 112-252.000.
Papalos, John G.; and Retzsch, Clinton E., to Diamond Shamrock Corporation. Sperm oil substitute and its use in leather treatment. 3,764,358, 10-9-73, Cl. 106-249.000.
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Carcia, Leslie C.; Mc Neill, John D.; Papanastastou, Theodore A.; Howers, Norman K.; and Tjonpiangi, William E., 3,748,650.
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Papannou, Plutarch Constantine, to Du Pont de Nemours, E. I., and Company. Fluorocarbon dry cleaning compositions. 3,778,379, 12-11-73, Cl. 252-171.000.
Papantoniou, Christos: *See—*
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Papas, Constantine S.: *See—*
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Papastavrou, Antonios. Pollution control apparatus. 3,717,980, 2-27-73, Cl. 55-461.000.
Papavasiliou, Mary J.: *See—*
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Papavasiliou, Prodromos: *See—*
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Papay, Charles J.; and Settle, Ralph A., to United States Steel Corporation. Ultrasonic testing apparatus. 3,777,554, 12-11-73, Cl. 73-71.50u.
Papay, Joseph, to Electrohome Limited. AGC network. 3,725,800, 4-3-73, Cl. 330-29.000.
Papen, Eduard L. J., to National Forge Company. High pressure generating device. 3,740,169, 6-19-73, Cl. 417-397.000.
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Papenfuss, Theodor; Rehberg, Rolf; and Spietschka, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Pigment compositions and process for preparing them. 3,751,279, 8-7-73, Cl. 106-288.00q.
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Fischer, David L., 3,740,049.
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Papierwerke "Waldhof-Aschaffenburg" AG: *See—*
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Papiripari Vallslat: *See—*
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Pappas, Michael; Witte, Paul A.; and Johnson, Thomas, to Falcon Safety Products, Inc. Intrusion alarm. 3,732,843, 5-15-73, Cl. 116-86.000.
Pappas, Michael; Witte, Paul A.; and Johnson, Thomas, to Falcon Safety Products, Inc. Gas power operated hand held acoustic devices. 3,757,731, 9-11-73, Cl. 116-112.000.
Pappas, Michael, to Originetics Incorporated. Ball game court with heat receiving panel structure. 3,779,547, 12-18-73, Cl. 272-3.000.
Pappas, Michael E. Portable door method and means. 3,765,126, 10-16-73, Cl. 49-380.000.
Pappas, Peter G.: *See—*
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Lenz, George R.; and Pappo, Raphael, 3,751,438.
Papritz, Franz, to Haag-Streit AG. Ophthalmological apparatus with a slit illumination for taking photographic views of the eye. 3,762,803, 10-2-73, Cl. 351-7.000.
Paprzycki, Herman J.; Kennedy, Edward J.; Martinez, Henry G.; and Stabilito, Dominick D. Tablet counting and filling apparatus. 3,774,368, 11-27-73, Cl. 53-78.000.
Papsco, William G. Method of installing modular wall construction. 3,753,328, 8-21-73, Cl. 52-745.000.
Papsco, William G. Low voltage power distribution system. 3,781,567, 12-25-73, Cl. 307-147.000.
Papst, Georg: *See—*
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Papst, Georg; Wrobel, Gunter; and Schneider, Gerold, to Papst-Motoren KG. Dynamo electric machine construction. 3,777,191, 12-4-73, Cl. 310-67.000.



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Papst, George F.; and Papst, Hans-Dieter, to Papst-Motoren KG. Fan arrangement having automatic control capability. 3,742,267, 6-26-73, Cl. 310-67.000.

Papst, Hans-Dieter: *See—*
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Papst, Hermann; and Papst, Georg, to Papst-Motoren KG. Internally insulated, metal enclosed electric motor. 3,766,416, 10-16-73, Cl. 310-43.000.

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Paquette, Elmer Gordon; and Guenther, Karl Russell, to Bjorksten Research Laboratories, Inc. Non-woven articles made by coating filaments with binder and drying the binder until non-migratory before providing filament-to-filament contact. 3,755,036, 8-28-7, Cl. 156-180.000.

Paquette, Elmer Gordon; and Guenther, Karl R., to Bjorksten Research Laboratories, Inc. Non-woven articles made from continuous filaments coated with discrete droplets. 3,775,209, 11-27-73, Cl. 156-181.000.

Paquette, Elmer Gordon; and Guenther, Karl Russell, to Bjorksten Research Laboratories, Inc. Non-woven articles made from continuous filaments coated in high density fog with high turbulence. 3,775,210, 11-27-73, Cl. 156-181.000.

Paquin, Leon J.: *See—*
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Parad, Leonard I.: *See—*
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Paradine, Terry E., to United States Steel Corporation. Steering roll assembly for continuous strip mill. 3,774,831, 11-27-73, Cl. 226-194.000.

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Paradis, Robert A.: *See—*
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Paradise, William F.: *See—*
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Paragamian, Vasken, to McNeil Laboratories, Inc. 2-Oxospiro (indoline -3,4'-thiochroman) derivatives. 3,723,459, 3-27-73, Cl. 260-325.000.

Paragon Gears Incorporated: *See—*
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Paraho Corporation: *See—*
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Paramonoff, Elpidifor, to Standum, Inc. Apparatus for forming one piece metallic can bodies. 3,735,629, 5-29-73, Cl. 72-349.000.

Paramonoff, Elpidifor, to Standum, Inc. End forming station for metallic can body formers and the like. 3,771,345, 11-13-73, Cl. 72-349.000.

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Paramount Glass Mfg. Co., Ltd.: *See—*
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Paramount Industries, Inc.: *See—*
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Paramount Packaging Corporation: *See—*
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Paramount Precision Products, Inc.: *See—*
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Allison, Rudolph L.; and Goellner, Willy J., 3,752,023.
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Paraskevakos Electronics & Communication, Inc.: *See—*
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Paraskevas, Christos G. Match-book folder. 3,763,995, 10-9-73, Cl. 206-29.000.

Paraskevas, Christos G. Law enforcement simulating board game apparatus. 3,765,680, 10-16-73, Cl. 273-134.0ag.

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Paraskos, John A.; and Somers, Allen E., to Gulf Research & Development Company. Desulfurization of crude and residual oils at constant temperature. 3,746,636, 7-17-73, Cl. 208-216.000.

Paratte, Daniel, to Montres Rolex S.A. Device for securing an electrical cell in a timepiece movement. 3,736,741, 6-5-73, Cl. 58-23.0ba.

Parc, Guy: *See—*
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Parcher, Michael S., to United States of America, Navy. Antenna alignment device. 3,747,110, 7-17-73, Cl. 343-705.000.

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Pardee, Richard L. Water pollution control. 3,762,168, 10-2-73, Cl. 61-1.00f.

Pardieck, William J., to Corcoran, R. S., Co. Leakage preventing arrangement for pressurized fluid system such as pumps and the like. 3,771,926, 11-13-73, Cl. 415-176.000.

Pardo, Jorge. Binary precast concrete triangulated building system. 3,733,762, 5-22-73, Cl. 52-263.000.

Pardoe, Carroll T.; Carlton, Alvar G.; and Appel, Robert L., to Johns Hopkins University, The. Data block multiplexing system. 3,781,818, 12-25-73, Cl. 340-172.500.

Pardue, Von G., to I-T-E Imperial Corporation. Ground fault indicator. 3,769,548, 10-30-73, Cl. 317-18.00d.

Parduhn, Alfred P. Signal mastarm bracket. 3,764,099, 10-9-73, Cl. 248-214.000.

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Pare, Robert Lee. Elastomer seal for modular roadbeds. 3,720,142, 3-13-73, Cl. 404-67.000.

Pare, Robert Lee. Roadbed joint seal. 3,767,311, 10-23-73, Cl. 404-67.000.

Parechoc S.A.: *See—*
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Pareja, Ramon: *See—*
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Parekh, Amritlal C.; and Jung, David H., to Research Corporation. Reagent for the solubilization of cholesterol. 3,733,279, 5-15-73, Cl. 252-363.500.

Parekh, Amritlal C.; and Jung, David H., to Research Corporation. Reagent for determining cholesterol. 3,736,263, 5-29-73, Cl. 252-408.000.

Parekh, Amritlal C.; and Jung, David H., to Research Corporation. Method for the quantitative determination of cholesterol. 3,736,340, 5-29-73, Cl. 260-397.250.

Parekh, Chandra Kant, to Squibb, E. R., & Sons, Inc. Method for determining procainamide levels in blood or urine. 3,716,336, 2-13-73, Cl. 23-230.00b.

Parekh, Girish Girdhar; and Blank, Werner Josef, to American Cyanamid Company. Compositions containing cyclic trisulfones. 3,719,627, 3-6-73, Cl. 260-29.4ua.

Parekh, Girish Girdhar; and Blank, Werner Josef, to American Cyanamid Company. Thermoset organic compositions containing trisulfonylmethanes. 3,723,374, 3-27-73, Cl. 260-29.4ua.

Parent, Ronald Joseph. Method and device for handling motor vehicle keys. 3,712,091, 1-23-73, Cl. 70-63.000.

Parente, Robert B.: *See—*
Jaffe, Richard M.; and Parente, Robert B., 3,723,718.

Parenti, Frank V.; and Staneck, Robert W., to Standard Register Company, The. Burster apparatus. 3,741,451, 6-26-73, Cl. 225-100.000.

Parenti, Giorgio, to Siai-Marchetti S.p.A. Oscillating plate for helicopters. 3,738,772, 6-12-73, Cl. 416-114.000.

Parenti, Joseph A. Belt hole cutter. 3,714,690, 2-6-73, Cl. 29-105.00a.





Parenti, Marcantonio: *See—*
Ambrogi, Vittorio; Logemann, Willy; Parenti, Marcantonio; and Tommasini, Raffaele, 3,734,910.

Parer, David George: *See—*
Bossons, Walter Howard; Parer, David George; and Burcher, George Davey, 3,730,356.

Parera, Pedro Pere. Device for the articulation of doors. 3,733,749, 5-22-73, Cl. 49-193.000.

Parera, Pedro Pere. Safety fastener means. 3,769,664, 11-6-73, Cl. 24-217.000.

Pares, Francois: *See—*
Breant, Pierre Louis Vincent; David, Guy Albert Jules; Pares, Francois; and Grima, Jean-Claude, 3,740,478.

Paret, Giancarlo; and Cinelli, Ermanno, to Snam Progetti S.p.A. Process for the extraction of aromatic hydrocarbons by keto and aldo-morpholines. 3,720,605, 3-13-73, Cl. 208-321.000.

Paret, Giancarlo; and Cinelli, Ermanno, to Snam Progetti S.p.A. Process for the extraction of aromatic hydrocarbons. 3,721,620, 3-20-73, Cl. 208-317.000.

Pargeter, John Kenneth: *See—*
Bell, Malcolm Charles Evert; and Pargeter, John Kenneth, 3,767,383.

Parham, Darryl V. Automatic audio-visual program control apparatus. 3,772,473, 11-13-73, Cl. 179-100.20s.

Parham, James F.: *See—*
Bruder, Frank J.; Parham, James F.; and Steuer, Victor F., 3,745,508.

Parham, O. D., to Hughes Aircraft Company. Phase locked frequency modulation demodulator circuit including Colpitts transistor and feedback transistor. 3,737,792, 6-5-73, Cl. 329-103.000.

Pariel, Jean Marie; and Robic, Gabriel, to Societe Anonyme Heurtey and ELF-Union. Method and apparatus for incinerating polluted liquids and mud. 3,757,706, 9-11-73, Cl. 110-7.00s.

Parilla, Arthur R. Electronic sound effects apparatus with tape cartridge and resiliently mounted switching plate. 3,708,632, 1-2-73, Cl. 179-100.10c.

Parilla, Arthur R. Duct-forming assemblies and vector control. 3,727,843, 4-17-73, Cl. 239-265.350.

Parilla, Arthur R. Solid propellant rocket engine control and missile configurations. 3,780,968, 12-25-73, Cl. 244-3.220.

Parillo, Vincent, to Bond Stores, Incorporated. Security device for clothes racks. 3,735,875, 5-29-73, Cl. 211-7.000.

Paris, August F. Pants pressing apparatus. 3,713,567, 1-30-73, Cl. 223-73.000.

Paris, August F. Short sleeve presser expander. 3,737,080, 6-5-73, Cl. 223-70.000.

Paris, Gerard Yvon: *See—*
Garmaise, David Lyon; Paris, Gerard Yvon; and Plotnikoff, Nicholas Peter, 3,718,657.
Swett, Leo Ralph; and Paris, Gerard Yvon, 3,764,610.

Paris, Hugh P. Transit concrete mixer and method of mixing concrete components. 3,715,107, 2-6-73, Cl. 259-148.000.

Paris, Jacques M.: *See—*
Paris, Rene A.; Thibaudon, Dominique; Roubin, Marc P.; and Paris, Jacques M., 3,732,091.

Paris, Nikolaus: *See—*
Huswèiler, Arnold; Beilstein, Gunter; Mayer, Adolf; and Paris, Nikolaus, 3,712,912.

Paris, Rene A.; Thibaudon, Dominique; Roubin, Marc P.; and Paris, Jacques M., to Agence Nationale de Valorisation de la Recherche (ANVAR). Method for preparing mutual dispersions of carbides and metals or alloys and novel products thereof. 3,732,091, 5-8-7, Cl. 75-.5ac.

Parish, Harlie A., Jr.: *See—*
Reynolds, Martin Lance; Hammersmith, James R.; and Parish, Harlie A., Jr., 3,722,515.

Parish, Harlis A., Jr.: *See—*
Stungis, George E.; Merker, Steve L.; Parish, Harlis A., Jr.; and Striegel, Richard G., 3,765,425.

Parish, Hubert Gene; and Einstein, Bernard Ceasar, to Litton Systems, Inc. Process for applying a non-self-supporting metal layer atop a plate surface. 3,720,535, 3-13-73, Cl. 117-46.0ca.

Parish, Roger C.: *See—*
Actor, Philip P.; Parish, Roger C.; and Theodorides, Vassilios J., 3,716,641.

Parish, Roger C.; and Trei, John E., to Smith Kline & French Laboratories. Methods and compositions for improving feed efficiency of ruminants using polyhaloalkamines. 3,733,417, 5-15-73, Cl. 424-322.000.

Parish, Roger C.; and Trei, John E., to Smith Kline & French Laboratories. Methods and compositions for improving feed efficiency of ruminants using polyhydric alkanol haloacetaldehyde hemiacetals. 3,745,221, 7-10-73, Cl. 424-342.000.

Parish, Roger C.; and Trei, John E., to Smith Kline & French Laboratories. Methods and compositions for improving feed efficiency of ruminants using polyhaloaldehyde condensing products. 3,755,601, 8-28-73, Cl. 424-313.000.

Parish, William R.; Kelley, James C.; Giovanetti, Albert; and Lutz, William A., to Wellman-Power Gas Incorporated. Process for producing anhydrous HF from fluroactive agent. 3,758,674, 9-11-73, Cl. 423-483.000.

Parisi Associates, Inc.: *See—*
Parisi, Frank E., 3,742,353.

Parisi, Franco; Faustini, Franco; and Canavesi, Lavinio, to Erba, Carlo, S.p.A. Dibasic aluminum histidinate. 3,746,700, 7-17-73, Cl. 260-299.000.

Parisi, Frank E., to Parisi Associates, Inc. Frequency measuring apparatus including phase-locked loop. 3,742,353, 6-26-73, Cl. 324-79.00d.

Parisi, Fred G., to Olin Corporation. Caseless ammunition firing system. 3,722,123, 3-27-73, Cl. 42-16.000.

Parisoe, Wilbert: *See—*
Hendrickson, Melvin C.; Merrell, Richard G.; and Parisoe, Wilbert, 3,716,654.

Parisot, Clovis: *See—*
Basier, Robert; and Parisot, Clovis, 3,712,502.

Parisot, Jean: *See—*
Vidal, Jean; Lugand, Paul Henri; Lemoine, Jacques; and Parisot, Jean, 3,742,708.

Parisot, Michel, to Societe Franco-Hispano-Americaine Francispam. Cases. 3,765,528, 10-16-73, Cl. 206-45.130.

Parisotto, Antonio; and Nemis, Coniston James, to Original Equipment Manufacturing Limited. Snow-mobile track assembly. 3,717,390, 2-20-73, Cl. 305-25.000.

Park, Chung Ho, to Du Pont de Nemours, E. I., and Company. Polyureas, polyurethanes and polyamides based on a tetra-oxo diamine component. 3,728,311, 4-17-73, Cl. 260-77.50c.

Park, Franklin: *See—*
Kowalski, Walter; Park, Franklin; and Schmidt, Jude P., 3,735,035.

Park, Glenn S.: *See—*
Herpich, William A.; Park, Glenn S.; and Palmer, George W., 3,734,317.
Herpich, William A.; Park, Glenn S.; and Palmer, George W., 3,749,261.
Herpich, William A.; Park, Glenn S.; and Palmer, George W., 3,771,675.

Park, Im Keon, to Celanese Corporation. Production of pervious low density carbon fiber reinforced composite articles. 3,779,789, 12-18-73, Cl. 117-46.0cb.

Park, James E. Pipeline monitoring system. 3,711,689, 1-16-73, Cl. 235-151.340.

Park, John H., Jr.; and Mortimore, William C., to PKM Corporation. Apparatus for speech compression. 3,723,667, 3-27-73, Cl. 179-100.1vc.

Park, Kyo C.: *See—*
Anacher, Wilhelm; Grebe, Kurt R.; Greiner, James H.; Lahiri, Syamal K.; Park, Kyo C.; and Zappl, Hans H., 3,733,526.

Park Manufacturing Company: *See—*
Evans, Jack, 3,746,210.

Park, Raymond E.; and Escoubas, Thomas A. Tractor jack. 3,730,482, 5-1-73, Cl. 254-124.

Park, Richard J., to Kenway Engineering Incorporated, mesne. Material handling system transfer assembly. 3,715,992, 2-13-73, Cl. 104-88.000.

Park Tool Company: *See—*
Schlough, Thomas L., 3,727,600.

Park, W. Dean: *See—*
Guhl, Jay R., 3,762,312.

Park, Wallace Sidney. Rotary shutter. 3,735,687, 5-29-73, Cl. 95-61.000.

Park, Won Kil; and Regoli, Domenico, to Universite de Sherbrooke. System for the solid-phase peptide synthesis. 3,715,190, 2-6-73, Cl. 23-252.00r.

Park, Yong S.; and Pekosh, Raymond J., to Zenith Radio Corporation. Method and apparatus for grading the screen of a black surround color tube. 3,762,284, 10-2-73, Cl. 95-1.00r.

Park-Ohio Industries, Inc.: *See—*
Armstrong, Robert G., 3,737,610.
Arnosky, Joseph E.; and Meermans, Ronald A., 3,737,619.
Arnosky, Joseph L., 3,737,618.
Balzer, Norbert R.; and Kasper, Robert J., 3,715,556.
Balzer, Norbert Raymond, 3,761,325.
Bryant, William G., 3,716,690.
Budzinski, Roger R., 3,777,097.
Cachat, John F., 3,775,831.
Curcio, Edmund N., 3,738,892.
Day, Paul L., 3,743,778.
Del Paggio, Anthony F., 3,757,072.
Del Paggio, Anthony F., 3,777,096.
Delpaggio, Anthony F., 3,743,809.
Delpaggio, Anthony F., 3,761,669.
Gillock, Jack W., 3,737,613.
Heiser, James L., 3,710,935.
Jensen, Fred C., 3,774,002.
Kasper, Robert J., 3,735,082.
Kasper, Robert J.; and Snyder, James J., 3,756,870.
Kasper, Robert J.; and Killian, William H., 3,757,074.
Kasper, Robert Jerry, 3,731,040.
Killian, William H., 3,737,611.
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Osborn, Harry B., Jr., 3,708,645.





Osborn, Harry B., Jr.; and Maxim, John H., 3,736,896.
Osborn, Harry B., Jr., 3,755,710.

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Osborn, Harry B., Jr.; and Maxim, John H., 3,736,896.
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Pfaffmann, George D.; and Hammond, Michael R., 3,737,612.
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Seyfried, Richard F.; and Balzer, Norbert R., 3,735,083.
Seyfried, Richard F., 3,745,293.
Sheetz, Richard S., 3,775,195.
Vickers, Robert V., 3,717,740.
Vickers, Robert V., 3,725,629.

Park-Ohio Industries, Inc., mesne: *See—*
Kec, William J., 3,740,516.

Parke, Davis & Company: *See—*
Butler, Donald E., 3,770,762.
Capps, David B.; and Erdelyi, Alexander, 3,725,422.
Capps, David B., 3,726,880.
Capps, David B., 3,758,491.
Colburn, Walter E.; Trowern, Howard M., Jr.; and Kerfoot, Franklin W., Jr., 3,780,907.
Creger, Paul E.; and Neuklis, Winifred A., 3,759,986.
Erdely, Alexander; and Capps, David B., 3,761,485.
Garland, Carl C.; Kwarsick, Edmund J.; and Noren, Oscar B., 3,739,909.
Graetz, Ernest F. J., 3,753,124.
Greger, Paul L., 3,773,946.
Kenyon, Nazar P., 3,727,452.
Law, Kenneth J.; and Brown, Gordon R., 3,757,242.
Lockhart, Ian Noyle, 3,745,171.
Prout, Wesley C., 3,777,335.
Sease, James W., 3,742,944.
Serrell, John J.; Sparks, George C.; and Trowern, Howard M., Jr., 3,737,029.
Weyers, Hogo Jozef, 3,756,759.
Woo, Peter W. K., 3,743,634.

Parke, John Pedlow; and Wilde, Raymond John, to Lever Brothers Company. Detergent composition. 3,759,834, 9-18-73, Cl. 252-110.000.

Parker & Harper Mfg. Co., Inc., The: *See—*
Massey, Roger G., 3,744,752.

Parker, Alan Keith; and Warner, Dwight Allen, to Daedalus Enterprises, Inc. Method and apparatus for making a temperature-referenced color strip map of thermal variations. 3,752,915, 8-14-73, Cl. 170-6.70r.

Parker, Alfred Browning: *See—*
Chase, Harold E., 3,759,060.

Parker, Alvin S. Plasterboard to column clip. 3,748,815, 7-31-73, Cl. 52-714.000.

Parker and Harper Manufacturing Company, Inc., The: *See—*
Massey, Roger G., 3,722,855.

Parker, Bernard I.; and Caldwell, Charles W., to Parco Scientific Co. View screen microscopes. 3,775,004, 11-27-73, Cl. 353-39.000.

Parker, Brenda Mary, to National Research Development Corporation. Heat resistant polymers and reinforced plastics material produced therefrom. 3,767,611, 10-23-73, Cl. 260-37.00r.

Parker, Calvin E., Sr., to Bethlehem Steel Corporation. Coating apparatus with fluid doctor blade. 3,773,013, 11-20-73, Cl. 118-63.000.

Parker, Carlyle V.; and Bishop, Walton B., to United States of America, Navy. Instantaneous sidelobe interrogation decode suppressor. 3,718,926, 2-27-73, Cl. 343-6.8lc.

Parker, Charles C.; Polleys, Rhodes W.; and Vranka, Joseph S., to International Business Machines Corporation. Magnetic alloy particle compositions and method of manufacture. 3,726,664, 4-10-73, Cl. 75-.50a.

Parker, Charles C.; Polleys, Rhodes W.; and Vranka, Joseph S., to International Business Machines Corporation. Method and manufacturing magnetic alloy particles having selective coercivity. 3,756,866, 9-4-73, Cl. 148-105.000.

Parker, Charles W.: *See—*
Spector, Sidney; and Parker, Charles W., 3,775,536.

Parker, David E., to United States of America, Navy. Scroll transducer. 3,740,674, 6-19-73, Cl. 335-215.000.

Parker, David George; and Jackson, Donald Richard Patrick, to Masson Scott Thrissell Engineering Limited. Record feeding apparatus. 3,744,788, 7-10-73, Cl. 271-1.000.

Parker, Delmer G., to Xerox Corporation. A.C. Corona charging apparatus. 3,742,237, 6-26-73, Cl. 250-324.000.

Parker Drilling Company, Inc.: *See—*
Houck, Theodore B., 3,767,329.

Parker, Earl E.; and Wismer, Marco, to PPG Industries, Inc. Unsaturated diacrylates polymerized with ultraviolet light. 3,759,808, 9-18-73, Cl. 204-159.230.

Parker, Earl E., to PPG Industries, Inc. Method of making and coating with high solids cured acrylic syrups. 3,770,490, 11-6-73, Cl. 117-93.310.

Parker, Earl R.: *See—*
Zackay, Victor F.; and Parker, Earl R., 3,752,709.

Parker Engineered Chemicals, Inc.: *See—*
Whitehurst, Chester M.; and Parker, Frank D., Jr., 3,754,741.

Parker, Eugene K.; Mayo, Kenneth E.; and Harvey, Douglas G., to Sanders Nuclear Corporation. Liquid loop garments. 3,744,053, 7-10-73, Cl. 2-2.10r.

Parker, Evelyn B.: *See—*
Russell, Carl D., 3,723,752.

Parker, Frank D., Jr.: *See—*
Whitehurst, Chester M.; and Parker, Frank D., Jr., 3,754,741.

Parker, Fred W., to Du Pont de Nemours, E. I., and Company. Entropically stabilized water base dispersions. 3,729,439, 4-24-73, Cl. 260-29.70w.

Parker, Frederick A.; and Soult, Charles J., to Biomarine Industries, Inc. Carbon dioxide scrubber and breathing diaphragm assembly for diving apparatus. 3,710,553, 1-16-73, Cl. 55-316.000.

Parker, Frederick A., to Biomarine Industries, Inc. Safety apparatus for oxygen supply system. 3,722,510, 3-27-73, Cl. 128-142.000.

Parker, George, to Lilly Industries, Limited. Process for acylation of cephalosporin esters. 3,769,280, 10-30-73, Cl. 260-243.00c.

Parker, George S. Fishing device. 3,757,452, 9-11-73, Cl. 43-42.250.

Parker, George, Sr., 1/5 to Trimble, J. B. and Smith, Divian. Method and apparatus for controlling air pollution caused by volatile emissions from storage tanks and the like. 3,778,968, 12-18-73, Cl. 55-32.000.

Parker, Gordon M.: *See—*
De Majistre, Robert; Parker, Gordon M.; and Sirkoch, Robert, 3,754,972.

Parker, Gordon M.; Wismer, Marco; and Hahn, Ernest A., to PPG Industries, Inc. Method of coating with acryloxy esters of anhydrides. 3,725,116, 4-3-73, Cl. 117-93.310.

Parker, Harry W.; and Marx, John W., to Phillips Petroleum Company. Waterflooding method using modified starch granules. 3,724,548, 4-3-73, Cl. 166-275.000.

Parker, Henry R., to Improved Machinery Inc. Molding machine having yieldably restrained clamping force applying element. 3,712,774, 1-23-73, Cl. 425-154.000.

Parker, Hugh M. Apparatus for supporting tire rim for rotation in predetermined plane. 3,754,748, 8-28-73, Cl. 269-20.000.

Parker Industries, Inc.: *See—*
Parker, Shirley L.; and Rohrer, John D., 3,740,097.

Parker, James W., to Chicken Unlimited, Inc. Heating tube and baffle for deep fat fryers. 3,769,959, 11-6-73, Cl. 126-91.000.

Parker, Jerry W.; Scholz, John W.; and Mitchell, Kenneth E., to Uni Filter, Inc. Air filter construction. 3,722,186, 3-27-73, Cl. 55-304.000.

Parker, Joe B.; and Mc Casland, Thomas A., to Colorado Valve Co. Valve system. 3,738,388, 6-12-73, Cl. 137-627.000.

Parker, John A.: *See—*
Riccitiello, Salvatore R.; and Parker, John A., 3,730,891.

Parker, John A.; and Riccitiello, Salvatore R., to United States of America, National Aeronautics and Space Administration. Flexible fire retardant polyisocyanate modified neoprene foam. 3,772,220, 11-13-73, Cl. 260-2.501.

Parker, John C.: *See—*
Barcus, Jack L.; Kilroy, Eugene J., Jr.; Morin, Marius J.; and Parker, John C., 3,777,391.
Bellinger, Lawrence S.; and Parker, John C., 3,740,158.
Prodger, Brian S.; Parker, John C.; Bosley, Denis V.; and Toy, Raymond M., 3,769,746.

Parker, John Henry; and McInerney, Frank Thomas, to MLW-Worthington Limited. Motorized railway truck. 3,713,397, 1-30-73, Cl. 105-136.000.

Parker, John Henry; and McInerney, F. Thomas, III. Resiliently biased pilot axle arrangement. 3,724,393, 4-3-73, Cl. 105-174.000.

Parker, John W., to Parker Uptight Trailer Hitch Company. Vehicular hitching system. 3,727,945, 4-17-73, Cl. 280-408.000.

Parker, Joseph D.; and Gustafson, David R. Twin-wire web forming system with dewatering by centrifugal forces. 3,726,758, 4-10-73, Cl. 162-299.000.

Parker, Joseph E.: *See—*
Gacek, Joseph A.; and Parker, Joseph E., 3,760,108.

Parker, Joseph W., III: *See—*
Ambrose, Alwin W.; and Parker, Joseph W., III, 3,741,235.

Parker, Kenneth Frederick. Board game apparatus. 3,747,933, 7-24-73, Cl. 273-131.00b.

Parker, Laurence J., 1/4 to Chiga, George C. Pump protection system with pressure responsive switch and float valve. 3,733,449, 5-15-73, Cl. 200-81.00r.

Parker, Leland L., to United States of America, Navy. Directed warhead. 3,714,897, 2-6-73, Cl. 102-56.000.

Parker, Leon, to Hitco. Acoustical panel. 3,756,346, 9-4-73, Cl. 181-33.00g.

Parker, Levi C.: *See—*
Reynolds, David L.; Youngblood, Douglas J.; Parker, Levi C.; and Colvert, James H., 3,761,394.

Parker, Louis W. Amplitude modulation detector for radio receivers. 3,716,793, 2-13-73, Cl. 325-487.000.

Parker Manufacturing Company: *See—*
Lapointe, Gabriel M., 3,713,321.
Lapointe, Gabriel M., 3,719,110.
Priest, Edward D., 3,742,788.

Parker, Marshall M.: *See—*
Harrison, Lee, III; Honey, Francis J.; Tauchman, Edwin J.; and Parker, Marshall M., 3,747,087.

Parker, Melvin A., to Duron Industries, Ltd. Tape dispensers. 3,745,086, 7-10-73, Cl. 156-527.000.





Parker, Milton. Protector for a toothbrush or the like. 3,741,378, 6-26-73, Cl. 206-15.10e.

Parker, Morris Jay: *See—*
Fisher, Scott Lewis; and Parker, Morris Jay, 3,764,532.

Parker, Norman E.; and Siravo, Ernest D. Auxiliary chipper chute. 3,722,648, 3-27-73, Cl. 193-1.000.

Parker, Norman W., to Motorola, Inc. Color signal recording and decoding. 3,730,976, 5-1-73, Cl. 178-5.4cd.

Parker, Norman W., to Motorola, Inc. Pulse train processing system with discrimination against noise for use with pulse width modulation. 3,737,779, 6-5-73, Cl. 325-324.000.

Parker, Norman W., to Motorola, Inc. Recording system for color video signals. 3,748,376, 7-24-73, Cl. 178-5.4cd.

Parker, Norman W., to Motorola, Inc. Color signal recording and decoding apparatus. 3,764,731, 10-9-73, Cl. 178-5.20d.

Parker, Paul T.; and Mayer, Ivan, to Esso Research and Engineering Company. Alkylation process with recovery and regeneration of fluorosulfuric acid catalyst. 3,766,293, 10-16-73, Cl. 260-683.580.

Parker, Paul T.; and Mayer, Ivan, to Esso Research and Engineering Company. Alkylation with separate olefin streams including isobutylene. 3,778,489, 12-11-73, Cl. 260-683.430.

Parker Pen Company, The: *See—*
Dyson, John J., 3,779,780.
Hill, Franklin J., 3,708,283.
Rackow, Martin L., 3,712,093.

Parker Pen Company, The, mesne: *See—*
Hill, Franklin J., 3,746,456.

Parker, R. A.: *See—*
Russell, Carl D., 3,723,752.

Parker, Ralph W. Replacement tube for the lacrimal drainage duct. 3,726,284, 4-10-73, Cl. 128-350.00r.

Parker, Richard J., to United States of America, National Aeronautics and Space Administration. Low mass rolling element for bearings. 3,751,123, 8-7-73, Cl. 308-193.000.

Parker, Robert, to United States of America, Atomic Energy Commission. Spark gap detonator. 3,754,506, 8-28-73, Cl. 102-28.00r.

Parker, Robert E.: *See—*
Jewell, George S.; Parker, Robert E.; Dell, William; Etherington, Richard J.; and Webber, Henry, 3,727,120.

Parker, Robert H.: *See—*
Cherry, James R.; Crow, Joseph W.; and Parker, Robert H., 3,710,383.

Parker, Roger Alan, to Richardson-Merrell Inc. Dilxathiocin carboxylic acids, esters, salts and amides. 3,714,191, 1-30-73, Cl. 260-327.00b.

Parker, Rollin J., to General Electric Company. Magnet assembly. 3,763,334, 10-2-73, Cl. 179-115.50r.

Parker, Rollin J., to General Electric Company. Shield for permanent magnet structure. 3,781,736, 12-25-73, Cl. 335-304.000.

Parker, Ronald S.; and Reilly, Ronald, to Union Carbide Iran S.A. Dry cell having thin film seal. 3,753,781, 8-21-73, Cl. 136-107.000.

Parker, Shirley L.; and Rohrer, John D., to Parker Industries, Inc. Vehicle dump bed. 3,740,097, 6-19-73, Cl. 298-1.00a.

Parker, Sidney A.: *See—*
Ellis, Charles B.; and Parker, Sidney A., 3,762,837.

Parker, Sidney A., to Lennox Industries, Inc. Liquid sensor for reciprocating refrigerant compressor. 3,766,747, 10-23-73, Cl. 62-226.000.

Parker, Trevor: *See—*
Caton, Michael Peter; Parker, Trevor; and Watkins, Gordon Leonard, 3,751,463.

Parker Uptight Trailer Hitch Company: *See—*
Parker, John W., 3,727,945.

Parker, Vernon D., to Union Oil Company of California. High-melting wax compositions. 3,719,625, 3-6-73, Cl. 260-28.5av.

Parker, Vernon D., to Union Oil Company of California. Articles coated with wax composition and method of making. 3,754,983, 8-28-73, Cl. 117-148.000.

Parker, Wesley R.: *See—*
Sallberg, David W.; Clark, Peter I.; Parker, Wesley R.; and Nicholson, Robert D., 3,749,128.

Parker, Wilbur: *See—*
Gooding, Chester Martin; Parker, Wilbur; and Melnick, Daniel, 3,766,226.

Parker, William Lawrence: *See—*
Meyers, Edward; Slusarchyk, Dorothy Smith; Lui, Wen-Chih; and Parker, William Lawrence, 3,721,684.

Parker, William Lawrence; and Neidleman, Saul Lewis, to Squibb, E. R., & Sons, Inc. 2-Oxo-1 (2H)pyridinecarbonitrile and substituted derivatives thereof. 3,769,291, 10-30-73, Cl. 260-296.00r.

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Gross, Werner Johann; Lanzerath, Gunter Franz; Patzer, Helmut Karl; Maennchen, Joachim Klauss; Rieger, Helmuth; and Weiberg, Horst, 3,776,562.
Patzer, Norman E. Remote control for automobile window. 3,740,093, 6-19-73, Cl. 296-146.000.
Patzwahl, Hans-Jurgen: *See—*
Pusching, Klaus-Dieter; Patzwahl, Hans-Jurgen; and Kretschmer, Horst, 3,738,891.
Paucksch, Heinrich; and Massonne, Joachim, to Kali-Chemie Aktiengesellschaft. Process of making difluorochlorobromomethane. 3,719,716, 3-6-73, Cl. 260-653.000.
Paucksch, Heinrich; Massonne, Joachim; Bohm, Horst; and Fernschild, Gunter, to Kali-Chemie Aktiengesellschaft. Process of preparing fluorine containing perhalogencarboxylic acid fluorides or chlorides. 3,725,475, 4-3-73, Cl. 260-544.00f.
Paucksch, Heinrich; Rudolph, Werner; and Massonne, Joachim, to Kali-Chemie Aktiengesellschaft. Process for removing oxygen from tetrafluoroethylene or tetrafluoroethylene-containing gas mixtures. 3,737,471, 6-5-73, Cl. 260-653.300.
Pauels, Heinrich, to Schloemann Aktiengesellschaft. Method of rolling E.G. light sections on a mill and a mill for use with the method. 3,774,433, 11-27-73, Cl. 72-203.000.
Paugh, Edward C., to International Telephone and Telegraph Corporation. Electrical connector. 3,721,939, 3-20-73, Cl. 339-14.00r.
Paugh, George W., to Ralston Purina Company. Continuous cooking method. 3,764,343, 10-9-73, Cl. 426-352.000.
Paugh, James J.; and Pollari, Theodore J., to Warren Pumps, Inc. Pump. 3,751,178, 8-7-73, Cl. 415-56.000.
Paukert, Miloslav; and Skopal, Jan, to Meopta, narodni podnik. Reproduction objective formed of five lenses. 3,743,388, 7-3-73, Cl. 350-220.000.
Paukulis, Visvaldis. Industrialized building construction. 3,724,143, 4-3-73, Cl. 52-79.000.
Paul, Alfred L.: *See—*
Sels, Wally O.; and Paul, Alfred L., 3,724,801.
Paul, Bernt, to Siemens Aktiengesellschaft. Device for transmission of information with an infrared radiation source. 3,708,763, 1-2-73, Cl. 329-144.000.
Paul, Bernt, to Siemens Aktiengesellschaft. Apparatus for detecting infrared radiation. 3,711,718, 1-16-73, Cl. 250-210.000.
Paul, Bernt, to Siemens Aktiengesellschaft. Radiation circuit radiation detector. 3,745,360, 7-10-73, Cl. 250-338.000.
Paul, Dwaine M., to Ebald, Inc., mesne. Explosive blast actuated liquid distributors and processes of operation thereof. 3,779,461, 12-18-73, Cl. 239-172.000.
Paul, Edward L.: *See—*
Klink, Arthur E.; and Paul, Edward L., 3,721,822.
Paul, Frederick W., to Crompton & Knowles Corporation. Strand monitor. 3,723,990, 3-27-73, Cl. 340-259.000.
Paul, Gerard T.: *See—*
Condon, Richard D.; Gill, Harry A.; Noonan, David J.; and Paul, Gerard T., 3,721,813.
Paul, Gerard T., to Perkin-Elmer Corporation, The. Method and apparatus for providing a security system for a computer. 3,744,034, 7-3-73, Cl. 340-172.500.
Paul, Gertrude M. Educational device. 3,731,402, 5-8-73, Cl. 35-37.000.
Paul, Henry N., III, to Thiokol Chemical Corporation. Synergistic flame retarding composition for polypropylene of 1,2,3,4, 5-pentabromo-6-chlorocyclohexane, tetrabromophthalic anhydride and antimony trioxide. 3,738,958, 6-12-73, Cl. 260-45.75b.
Paul, Henry N., III, to Thiokol Chemical Corporation. Polysulfide latex based caulking compositions exhibiting improved physical properties. 3,770,678, 11-6-73, Cl. 260-28.000.
Paul, Herman L. Top-locking ball valve. 3,765,645, 10-16-73, Cl. 251-170.000.
Paul, Herman L., Jr. Venturi-ball valve No. 103. 3,749,355, 7-31-73, Cl. 251-124.000.
Paul, Herman L., Jr. Venturi-ball valve. 3,779,508, 12-18-73, Cl. 251-124.000.
Paul, Howard R.: *See—*
Haas, Charles B.; Taylor, Richard E.; Crockett, David E.; Miller, James F.; Paul, Howard R.; and Reid, Charles J., 3,769,876.
Paul, John C., to Parker-Hannifin Corporation. Power assist mechanism for fluid control valves. 3,716,075, 2-13-73, Cl. 137-625.630.
Paul, John C., to Parker-Hannifin Corporation. Direction control valve. 3,744,521, 7-10-73, Cl. 137-625.680.
Paul, John C., to Parker-Hannifin Corporation. Directional control valve. 3,746,040, 7-17-73, Cl. 137-596.000.
Paul, John C., to Parker-Hannifin Corporation. Power assist mechanism for fluid control valves. 3,762,277, 10-2-73, Cl. 91-376.000.
Paul, John C., to Parker-Hannifin Corporation. Directional control valve with portative electromagnetic latch mechanism. 3,762,442, 10-2-73, Cl. 137-625.200.
Paul, Les, to Gibson, Inc. Method of electrically reproducing music and improved electrical pickup for practicing the same. 3,725,561, 4-3-73, Cl. 84-1.150.
Paul, Peter, Electronics: *See—*
Allen, Walter E., 3,733,047.
Paul, Philip T.: *See—*
Kindle, Robert W.; Barnhart, Robert R.; and Paul, Philip T., 3,728,192.
Paul, Richard H., to Uniroyal, Inc. Conically molded and slot-formed inner tube for tires. 3,773,095, 11-20-73, Cl. 152-349.000.
Paul, Richard Henry; and Wilson, James Perry, to Uniroyal, Inc. Amphibious tires with improved torque resistance properties. 3,736,971, 6-5-73, Cl. 152-353.000.
Paul, Rudolf: *See—*
Klupsch, Paul; Paul, Rudolf; and Dressler, Ulrich, 3,780,636.
Paul, Werner; and Schumann, Dierk, to Vereinigte Flugtechnische Werke-Fokker GmbH. Hydraulic drive and actuator. 3,717,070, 2-20-73, Cl. 92-128.000.
Paul, William, to Switchpack Systems, Inc., mesne. Electromagnetic switching device with movable rachet. 3,739,308, 6-12-73, Cl. 335-140.000.
Paul, William F.: *See—*
Rybicki, Robert G.; and Paul, William F., 3,764,230.
Paul, Wolfgang: *See—*
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Vollrath, Karl-Hans; Paul, Wolfgang; and Fichte, Frank, 3,761,077.
Paulange, Serge. Automatic arc welding machines. 3,737,614, 6-5-73, Cl. 219-60.00a.
Paulet, Jean-Francois; and Endtinger, Fritz, to Swiss Aluminium Ltd. Process for the coloring of anodized layers on aluminum. 3,718,548, 2-27-73, Cl. 204-35.00n.
Paulfus, Bernard: *See—*
Sadacca, Albert V.; and Paulfus, Bernard, 3,766,376.
Pauli & Griffin Company: *See—*
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Paulik, Ference: *See—*
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Paulik, Frank E.: *See—*
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Paulik, Frank E.; Hershman, Arnold; Roth, James F.; and Knox, Walter K., to Monsanto Company. Production of carboxylic acids and esters. 3,769,324, 10-30-73, Cl. 260-476.00r.
Paulik, Frank E.; Hershman, Arnold; Roth, James F.; and Knox, Walter R., to Monsanto Company. Production of carboxylic acids and esters. 3,769,326, 10-30-73, Cl. 260-476.00r.
Paulik, Frank E.; Hershman, Arnold; Knox, Walter R.; and Roth, James F., to Monsanto Company. Production of carboxylic acids and esters. 3,769,329, 10-30-73, Cl. 260-488.00k.
Paulik, Frank E.; Hershman, Arnold; Roth, James F.; and Knox, Walter R., to Monsanto Company. Production of carboxylic acids and esters. 3,772,380, 11-13-73, Cl. 260-488.00r.
Paulik, Jeno; and Paulik, Ference, to Mag-ar Optikai Muvek. Sample holder for selective thermoanalytical tests. 3,712,110, 1-23-73, Cl. 73-15.00b.
Pauline, Larry I.: *See—*
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Caldwell, Robert H.; and Pauline, Larry I., 3,758,062.
Pauliukonis, Richard S. Membrane shutoff valve. 3,749,353, 7-31-73, Cl. 251-61.100.
Pauliukonis, Richard S. Positive displacement boosters. 3,761,204, 9-25-73, Cl. 417-401.000.
Pauliukonis, Richard S. Solenoid operated simple control valves. 3,768,517, 10-30-73, Cl. 137-625.650.
Paulius, Leonard: *See—*
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Paulk, Jacob W.: *See—*
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Paulk, John R.; and Paulk, Jacob W. Crop tying machine. 3,747,267, 7-24-73, Cl. 47-1.000.
Paull, Michael H., to Photophysics, Inc. Pressure transfer mechanism. 3,711,197, 1-16-73, Cl. 355-16.000.



Paullus, Clarence Leonard, to AMP Incorporated. Manufacturing



Pause, Kurt, to Maschinenfabrik Buckau R. Wolf Aktiengesellschaft

Paullus, Clarence Leonard, to AMP Incorporated. Manufacturing method for contact terminal sockets. 3,728,981, 4-24-73, Cl. 113-119.000.

Paullus, Clarence Leonard; and Stauffer, Larry Ronald, to AMP Incorporated. Adapter assembly for sealing a connector part. 3,755,615, 8-28-73, Cl. 174-76.000.

Paullus, Clarence Leonard; and Stauffer, Larry Ronald, to AMP Incorporated. Device for sealing electrical connectors. 3,772,637, 11-13-73, Cl. 339-102.00r.

Paulmar, Incorporated: *See—*
Menary, Robert F., 3,768,750.

Paulonis, Daniel F.; Duvall, David S.; and Hawkins, Rodney H., to United Aircraft Corporation. Interlayer foil for diffusion bonding. 3,753,794, 8-21-73, Cl. 148-32.000.

Pauls & Sandars, Limited: *See—*
Collier, John Anthony; and Buckley, William Aidan, 3,708,002.

Pauls, Edward A.: *See—*
Check, Donald R.; Ader, Gary B.; and Pauls, Edward A., 3,736,612.

Pauls, Edward A. Ski equipped crutch. 3,738,674, 6-12-73, Cl. 280-11.37b.

Pauls, Kurt, to Kieserling, Th., & Albrecht. Apparatus for centering and clamping elongated workpieces. 3,727,772, 4-17-73, Cl. 214-1.00p.

Paulsen, Glen E.: *See—*
Engler, Joseph P.; and Paulsen, Glen E., 3,724,719.

Paulsen, John D.: *See—*
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Paulsen, Robert H.: *See—*
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Paulsen, Uwe: *See—*
Korn, Roland; Seyd, Gunther; and Paulsen, Uwe, 3,778,938.

Paulson, Donald L.: *See—*
Miller, Robert C.; Miller, Carl K.; and Paulson, Donald L., 3,743,807.

Paulson, Gerald L.; and Ray, Robert A., to Beckman Instruments, Inc. Method and apparatus for chemical analysis. 3,765,841, 10-16-73, Cl. 23-230.00r.

Paulson, John K. Coacting wheel type ball projecting device. 3,774,584, 11-27-73, Cl. 124-1.000.

Paulson, John W., to ESB Incorporated. Aqueous electrolyte solution containing an ethoxylated rosin amine for use in a rechargeable electric battery. 3,775,183, 11-27-73, Cl. 136-30.000.

Paulson, Thomas M.: *See—*
Maynard, Kenneth B.; and Paulson, Thomas M., 3,768,801.

Paulson, William T.; and Davidson, David M., to Standard Register Company, The. Business sheet having removable transfer means and method of making. 3,776,755, 12-4-73, Cl. 117-36.400.

Paulstra: *See—*
Morlon, Jean, 3,731,499.

Paulun, Manfred: *See—*
Blachut, Theodore J.; Paulun, Manfred; Ferry, Kirk; and Amaro, Angel Garcia, 3,729,830.

Paulus, Max: *See—*
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Paulus, Rudolf, to Agfa-Gevaert Aktiengesellschaft. Apparatus for determination of exposure values for color printing. 3,724,947, 4-3-73, Cl. 355-38.000.

Pauly, Bruce H.; Nicol, John; and Chen, Karl K., to Weatherhead Company, The. Split collet crimper. 3,720,088, 3-13-73, Cl. 72-402.000.

Pauly, David R.: *See—*
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Pauly, Ronald R.: *See—*
Zbikowski, Theodore H.; Pauly, Ronald R.; and Pfeilsticker, Lee J., 3,735,528.
Zbikowski, Theodore H.; and Pauly, Ronald R., 3,750,329.

Paumgardhen, Gaethy. Flexible suspended wine rack. 3,746,179, 7-17-73, Cl. 211-75.000.

Paumier, Inc.: *See—*
Paumier, Thomas B.; Bulso, Joseph D., Jr.; and Lewers, William R., 3,768,667.

Paumier, Thomas B.; Bulso, Joseph D., Jr.; and Lewers, William R., to Paumier, Inc. Workpiece transfer mechanism. 3,768,667, 10-30-73, Cl. 214-1.0bb.

Pauquette, James J., to Chandler Evans, Inc. Butterfly valve. 3,771,759, 11-13-73, Cl. 251-58.000.

Paurat, Friedrich Wilhelm. Mining and excavating apparatus. 3,729,056, 4-24-73, Cl. 173-43.000.

Paurice, Torindo R., to Lee, Raymond, Organization, Inc., The. Thermal ear wax extracting device. 3,734,093, 5-22-73, Cl. 128-184.000.

Pausch, Josef, to General Resource Corporation. Cleaning of filtering media. 3,765,152, 10-16-73, Cl. 55-96.000.

Pause, Carl W.: *See—*
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Pause, Kurt; and Buzga, Heinrich, to Maschinenfabrik Buckau R. Wolf Aktiengesellschaft. Method and apparatus for separating water from a mixture of a granular material and water. 3,730,343, 5-1-73, Cl. 210-68.000.

Pause, Kurt, to Maschinenfabrik Buckau R. Wolf Aktiengesellschaft. Centrifuge construction. 3,730,768, 5-1-73, Cl. 127-19.000.

Pause, Kurt; and Steprath, Werner, to Maschinenfabrik Buckau R. Wolf Aktiengesellschaft. Energy regaining apparatus and method for accelerating and decelerating centrifuges. 3,753,351, 8-21-73, Cl. 60-420.000.

Pausky, Paul A., to Dresser Industries, Inc. Tubing swage utilizing explosives. 3,750,440, 8-7-73, Cl. 72-56.000.

Paustian, John E.: *See—*
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Paustian, John E., to Thiokol Chemical Corporation. Anhydrous hydrazinium diperchlorate preparation. 3,769,389, 10-30-73, Cl. 423-386.000.

Pauw, Daniel R.: *See—*
Smith, Leon; Calvert, David W.; Robert, Andre; Viallet, Andre; and Pauw, Daniel R., 3,725,194.

Pauwells, Edward M., to Bendix Corporation, The. Compact adaptive braking system. 3,747,705, 7-24-73, Cl. 188-181.00a.

Pauwels, Edward M., to Bendix Corporation, The. Adaptive braking wheel speed sensor. 3,769,533, 10-30-73, Cl. 310-155.000.

Pauwels, Willy Lodewijk: *See—*
Reeters, Emiel Adriaan; and Pauwels, Willy Lodewijk, 3,746,599.

Pauza, William Vito; and Smith, John Franklin, III, to AMP Incorporated. Connecting means for ceramic substrate package. 3,753,211, 8-14-73, Cl. 339-75.0mp.

Pauza, William Vito; and Poltonavage, Edward Michael, to AMP Incorporated. Substrate connector and terminal therefore. 3,754,203, 8-21-73, Cl. 339-17.0cf.

Pauze, Denis R.: *See—*
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Holub, Fred F.; and Pauze, Denis R., 3,717,615.
Holub, Fred F.; and Pauze, Denis R., 3,738,969.

Pauze, Denis R., to General Electric Company. Polyamideimides from unsaturated anhydrides. 3,779,996, 12-18-73, Cl. 260-77.5am.

Pavek, George E. Outboard motor lock. 3,745,797, 7-17-73, Cl. 70-232.000.

Pavel, Raymond F. Row crop header attachment. 3,736,734, 6-5-73, Cl. 56-119.000.

Pavelle Corporation, The: *See—*
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Pavelle, Samuel; and Johnstone, Ronald Bernard, to Pavelle Corporation, The. Device for holding photographic paper during photographic processing operation. 3,771,429, 11-13-73, Cl. 95-100.000.

Pavement Grooving Ideas, Ltd.: *See—*
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Paver, Roger: *See—*
Balzer, Hans; Fleck, Fritz; Mercer, Alec Victor; and Paver, Roger, 3,732,213.

Paviak, Stanley, to Gulf Research & Development Company. Sulfonate detergents. 3,741,915, 6-26-73, Cl. 252-555.000.

Pavilon, Stanley J., to Mc Kee, Arthur G., & Company. Tube structure repair. 3,717,200, 2-20-73, Cl. 165-75.000.

Pavkovich, John M., to Varian Associates. Computer assisted radiation therapy machine. 3,777,124, 12-4-73, Cl. 235-151.000.

Pavlath, Attila E.; and Slater, Richard F., to United States of America, Agriculture. Shrinkproofing of wool by low temperature plasma treatment. 3,746,858, 7-17-73, Cl. 250-49.5gc.

Pavlecka, John. Interlocked panel structure. 3,780,478, 12-25-73, Cl. 52-206.000.

Pavlenko, Nikolai Semenovich: *See—*
Cherny, Anatoly Alexeevich; Grachev, Vladimir Alexandrovich; Marienbakh, Lev Mikhailovich; Kurbatsky, Ivan Lukich; Fomin, Stepan Frolovich; Sosnovsky, Efim Davidovich; and Pavlenko, Nikolai Semenovich, 3,753,688.

Pavlenko, Vladimir Antonovich: *See—*
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Pavliichuk, Georgy Anatolievich: *See—*
Paton, Boris Evgenievich; Medovar, Boris Izrailevich; Baglai, Vitaly Mikhailovich; Tsukanov, Georgy Emmanuilovich; Bondarenko, Oleg Petrovich; Bogachenko, Alexei Georgievich; Stupak, Leonid Mikhailovich; Martyn, Viktor Mikhailovich; Shtanko, Jury Pavlovich and Pavliichuk, Georgy Anatolievich, 3,768,541.

Pavlik, William R., to Republic Steel Corporation. Method and apparatus for X-ray interrogation of a sample. 3,710,104, 1-9-73, Cl. 250-51.500.

Pavlitsa, Kenneth: *See—*
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Pavlo, William A., to General Battery Corporation. Acid tester for batteries. 3,754,445, 8-28-73, Cl. 73-441.000.





Pavlov, Jury Vasilievich; Petrov, Alexandr Alexeevich; Nikolsky, Viktor Alexandrovich; Chunyaeva, Raisa Ivanovna; and Filin, Leonid Alexandrovich; deceased (by Bulaeva, Svetlana Ivanovna; administrator). Pelt fleshing machine. 3,744,279, 7-10-73, Cl. 69-46000.

Pavlov, Jury Vasilievich; Petrov, Alexandr Alexeevich; Nikolsky, Viktor Alexandrovich; Chunyaeva, Raisa Ivanovna; and Filin, Leonid Alexandrovich; deceased (by Bulaeva, Svetlana Ivanovna; administrator). Pelt fleshing machine. 3,769,820, 11-6-73, Cl. 69-46000.

Pavlov, Leonid Viktorovich: *See—*
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Pavlov, Vadim Alexandro: *See—*
Trofimov, Igor Dmitrievich; Korobeinikov, Jury Mikhailovich; Pavlov, Vadim Alexandro; and Shevyakov, Lev Nikolaevich, 3,759,034.

Pavlov, Viktor Grigorievich: *See—*
Sherman, Vladimir Efimovich; Dubonosov, Georgy Viktorovich; Portnov, Sergei Fedorovich; Fedotov, Jury Alexeevich; Grinberg, Yakov Zeemanovich; Soloviev, Nikodim Nikiforovich; Pavlov, Viktor Grigorievich; and Dmitriev, Efim Fedorovich, 3,777,534.

Pavnica, Cyril A.: *See—*
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Pavone, Robert J.; and Landers, Leonard R., to Gerber Scientific Instrument Company, The. Method and apparatus for cutting sheet material. 3,772,949, 11-20-73, Cl. 83-56.000.

Pawelek, Alex: *See—*
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Pawellek, Dieter; and Wedemeyer, Karlfried, to Bayer Aktiengesellschaft. Process for preparing 2-aminobenzothiazole and its N-alkyl substitution products from 2-mercaptobenzothiazole. 3,781,297, 12-25-73, Cl. 260-305.000.

Pawlak, Felix Romain, to U.S. Philips Corporation. Solid-state laser. 3,735,285, 5-22-73, Cl. 331-94.500.

Pawlak, Joseph A.; and Bean, Claude Thomas, Jr., to Hooker Chemical Corporation. Oil modified polyurethane coatings. 3,749,686, 7-31-73, Cl. 260-19.00a.

Pawlek, Franz: *See—*
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Pawlek, Rudolf: *See—*
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Pawlik, Eugene V.: *See—*
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Pawlikowski, Eugene J.: *See—*
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Pawlitschek, Franz: *See—*
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Pawlitzki, Rainer: *See—*
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Pawlitzki, Rainer, to Siemens Aktiengesellschaft. Rapid disconnection clutch for nuclear reactor control rods. 3,721,462, 3-20-73, Cl. 287-119.000.

Pawloski, Chester E.; and Stewart, Russell L., to Dow Chemical Company, The. Reactor for removing olefins from acetylenic and olefin-containing gaseous hydrocarbon mixtures. 3,738,815, 6-12-73, Cl. 23-260.000.

Pawloski, Chester E., to Dow Chemical Company, The. Substituted 1,3-dioxepins. 3,738,997, 6-12-73, Cl. 260-338.000.

Pawloski, James A.; and Williams, Grahame I. Multi-piston power pack unit for fluid actuated tool. 3,752,040, 8-14-73, Cl. 91-411.00a.

Pawloski, James A. Powered cutting tool and cutting head therefor. 3,765,087, 10-16-73, Cl. 30-228.000.

Pawsat, Carlton P., to Wald Manufacturing Company, Incorporated. Cycle pedal with anchored reflector. 3,709,059, 1-9-73, Cl. 74-574.000.

Pax, Francis J.; and Pax, John C., to Pax Machine Works, Inc. Part collector and mechanism therefor. 3,756,107, 9-4-73, Cl. 83-165.000.

Pax, James H., to Brown, D. S., Company, The. Hexagonal hollow elastomer sealing strips. 3,778,176, 12-11-73, Cl. 404-65.000.

Pax, John C.: *See—*
Pax, Francis J.; and Pax, John C., 3,756,107.

Pax Machine Works, Inc.: *See—*
Pax, Francis J.; and Pax, John C., 3,756,107.

Pax, Wilhelmus Petrus Johannes Franciscus; and Rooy, Henricus Johannes Van, to U.S. Philips Corporation. Deflection coil. 3,710,289, 1-9-73, Cl. 335-213.000.

Paxhia, Vincent B.: *See—*
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Paxos, Hector V. Lighter carrying marine vessel. 3,774,565, 11-27-73, Cl. 114-43.500.

Paxton, Floyd G. Method of forming, filling, closing and labelling tubular netting bags. 3,732,662, 5-15-73, Cl. 53-14.000.

Paxton, Lee C. Rapid transportation system. 3,750,803, 8-7-73, Cl. 214-38.0cc.

Paxton, Wayne E., to General Motors Corporation. Spark plug pin gapping tool. 3,777,535, 12-11-73, Cl. 72-293.000.

Paxton-Mitchell: *See—*
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Pay, Brian Edward: *See—*
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Pay, Donald Alexander, to Marconi Company Limited, The. Telecine equipment. 3,778,547, 12-11-73, Cl. 178-7.880.

Payen, Jean-Pol, to Merlin Gerin, Societe Anonyme. Electrical distribution and current collecting assembly for high speed drive arrangements. 3,709,337, 1-9-73, Cl. 191-22.00r.

Payen, Jean-Pol, to Merlin Gerin, Societe Anonyme. Electrical distribution and current collecting system for a high speed vehicle. 3,723,672, 3-27-73, Cl. 191-50.000.

Payen, Jean-Pol, to Merlin Gerin, Societe Anonyme. Multi-phase electrical distribution and current collecting system for high speed vehicles. 3,727,729, 4-17-73, Cl. 191-45.00r.

Payen, Jean-Pol, to Merlin Gerin, Societe Anonyme. Electrical distribution and current collecting device for high speed vehicles. 3,729,599, 4-24-73, Cl. 191-49.000.

Payen, Jean-Pol, to Merlin Gerin, Societe Anonyme. High speed vehicle current collecting device. 3,739,108, 6-12-73, Cl. 191-58.000.

Payen, Jean-Pol, to Merlin Gerin, Societe Anonyme. Device for current collecting with separate brushes. 3,749,858, 7-31-73, Cl. 191-45.00r.

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Payet, George L.; and Forg, John H., to McGraw-Edison Company. Apparatus for producing a durable press in garments containing cellulose or cellulosic derivative. 3,712,086, 1-23-73, Cl. 68-5.00c.

Paymal, Andre, to Saint-Gobain Industries. Building material and method of making it. 3,745,058, 7-10-73, Cl. 161-162.000.

Paymal, Jean, to Compagnie de Saint-Gobain. Apparatus for making laminated structural panels of cellular foamed resin. 3,738,895, 6-12-73, Cl. 156-443.000.

Payne, Asa A. Pipe hanger adapter. 3,724,539, 4-3-73, Cl. 166-89.000.

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Payne, Charles C.; and Vossos, Peter H., to Nalco Chemical Company. Compositions containing aqueous anionic silica sol and non-gelling flocculating agent. 3,711,416, 1-16-73, Cl. 252-313.00s.

Payne, Charles C., to Nalco Chemical Company. Silica sol compositions and use for coating. 3,754,984, 8-28-73, Cl. 117-152.000.

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Payne, Delmar V., to Bendix Corporation, The. Position determining system for helicopters. 3,747,105, 7-17-73, Cl. 343-112.00r.

Payne, Glen D., to Arcas Company, The. Rotary operator. 3,731,597, 5-8-73, Cl. 92-120.000.

Payne, Harold J. W., to Robertson, H. H., Company. Method for making building sheathing elements. 3,733,232, 5-15-73, Cl. 156-79.000.

Payne, Harry R., to Cavalier Corporation. Split vend gate mechanism. 3,722,744, 3-27-73, Cl. 221-129.000.

Payne, Herbert James: *See—*
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Payst, Michael W., to International Business Machines Corporation. Roller band reciprocating drive mechanism. 3,739,648, 6-19-73, Cl. 74-39.200.
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Paz, Nicolas S. Non-spill cup. 3,739,938, 6-19-73, Cl. 220-90.400.
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Pearce, John H., to Cornelius Company, The. Vending machine having sequential actuation of dispensing. 3,756,362, 9-4-73, Cl. 194-10.000.
Pearce, Larry N., to Deering Milliken Research Corporation. Yarn bulking apparatus. 3,735,609, 5-29-73, Cl. 68-5.00c.
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Pearce, Terry Kenneth. Sailing craft rudders. 3,731,645, 5-8-73, Cl. 114-162.000.
Pearce, Woodrow W. Combination pet feeder for flowable solid material and liquid. 3,720,184, 3-13-73, Cl. 119-51.500.
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Pearl, Donald C.; and Gross, Arthur P., to Canteen Corporation, mesne. Method and apparatus for inhibiting bacterial growth in automatic ice makers. 3,733,840, 5-22-73, Cl. 62-78.000.
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Pearsall, Samuel H.; and Witthauer, Norman E., Jr., to Cutters Machine Company, Inc. Emergency stop control system for cloth spreading machine. 3,760,250, 9-18-73, Cl. 318-282.000.
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Pearson, Robert E. Straight razor adapted for use with injector blades. 3,728,788, 4-24-73, Cl. 30-53.000.



Pearson, Ronald K. Fluid distribution and injection systems. 3,710,574, 1-16-73, Cl. 60-258.000.
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Pease, George E.; and Pettersen, Egil R., to Boeing Company, The. Tubing union. 3,765,708, 10-16-73, Cl. 285-382.200.
Pease, James F. Electrical heating element and fitting assembly. 3,732,398, 5-8-73, Cl. 219-536.000.
Pease, James F. Method of making a heating element and fitting assembly. 3,747,206, 7-24-73, Cl. 29-611.000.
Pease, Logan L., to Eaton Corporation, mesne. Communication technique for controlling crane operations. 3,735,352, 5-22-73, Cl. 340-147.00r.
Pease, Richard R.; Blitzer, Frank; Giordano, Arthur A.; and Less, Frank L., to GTE Sylvania Incorporated. Bipolar area correlator. 3,778,166, 12-11-73, Cl. 356-71.000.
Pease, Robert A., to Teledyne, Inc. Amplitude-to-frequency converter. 3,746,968, 7-17-73, Cl. 321-60.000.
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Pease, Theodore J. Mobile snow working apparatus with adjustable height flailer. 3,779,319, 12-18-73, Cl. 172-45.000.
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Peasley, Douglas W. Adapter for lathe. 3,750,499, 8-7-73, Cl. 82-39.000.
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Pech, R. Dean. Flow meter with extensible scale. 3,713,558, 1-30-73, Cl. 222-20.000.
Pechachek, Raymond E., to Hahn & Clay. Pin-type vessel closure connector. 3,780,901, 12-25-73, Cl. 220-46.00p.
Peche, Gerhard: *See—*
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Peche, Gerhard, to Siemens Aktiengesellschaft. Overvoltage arrester with several electrodes. 3,710,191, 1-9-73, Cl. 317-62.000.
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Pecheyran, Regis; and Fauvet, Emile, to GEC Elliot Automation SA. Coupling device between a digital computer and an analogically controlled installation. 3,764,827, 10-9-73, Cl. 307-241.000.
Pechi, Louis L., to Precision Design Corporation. Multiple selective single tape cartridge drive from a constant drive mechanism. 3,756,487, 9-4-73, Cl. 226-110.000.
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Pechuk, Vasily Ivanovich; Pompeev, Vladimir Mikhailovich; and Taratukhina, Galina Petrovna. Load cell with resistance strain gauges. 3,757,573, 9-11-73, Cl. 73-141.00a.
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Peck, Fritz; Fuchs, Hugo; Kahr, Kurt; and Wunsch, Gerd, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of cycloalkanone oximes. 3,766,038, 10-16-73, Cl. 204-180.00p.
Peck, Ira J.; and Smith, Standish H., to Aqua Systems, Inc. Pipeline positioning system and method. 3,765,185, 10-16-73, Cl. 61-723.000.
Peck, John C., to Wilputte Corporation. Furnace for combined incineration of rubbish, garbage, and sewage sludge. 3,777,680, 12-11-73, Cl. 110-12.000.
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Peck, William F., to American Optical Corporation. Method for making monofilament fiber optic ribbons for coherent fiberscopes. 3,772,119, 11-13-73, Cl. 156-173.000.
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Peddinghaus, Carl Ullrich. Bending machine. 3,717,016, 2-20-73, Cl. 72-21.000.
Peddinghaus, Carl Ullrich. Hydro-pneumatic piston and cylinder damping device. 3,750,855, 8-7-73, Cl. 188-269.000.
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Pedersen, Charles A., to Rothmans of Pall Mall Canada Limited. Propeller throttling device for boats. 3,730,127, 5-1-73, Cl. 114-145.00a.
Pedersen, Dane Harald, to Dymo Industries, Inc. Embossing tool tape cut-off mechanism. 3,757,919, 9-11-73, Cl. 197-6.700.
Pedersen, Donald K. Tubular casting rod having an axially-enclosed line. 3,727,338, 4-17-73, Cl. 43-18.00r.
Pedersen, Egon A., to Singer Company, The. Keyboard switch assembly with pushbutton magnetic latching structure for non-operative position. 3,736,397, 5-29-73, Cl. 200-169.0pb.
Pedersen, Egon A., to Singer Company, The. Keyboard having improved magnetic actuator. 3,761,016, 9-25-73, Cl. 235-145.00r.
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Pedersen, Niels Peder, to General Electric Company. Voltage control of an A.C. drive system during motor starting. 3,757,179, 9-4-73, Cl. 318-85.000.
Pedersen, Paul K.; Wagstaff, Robert A.; and Waldrop, Thomas W., to Sperry Rand Corporation. Forage harvester knife sharpener with a rotary abrasive wheel. 3,751,859, 8-14-73, Cl. 51-249.000.
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Pedersen, Thomas Josef, to Bell Telephone Laboratories, Incorporated. Time division switching system with bilateral time slot interchangers. 3,740,483, 6-19-73, Cl. 179-15.0aq.
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Peek, Vernon E., to Anderson Electric Corporation. Compression connector for electrical conductors. 3,781,459, 12-25-73, Cl. 174-94.00r.
Peel, Richard V. Motion sensor system. 3,777,139, 12-4-73, Cl. 246-125.000.
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Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,821, 4-10-73, Cl. 260-2.500.
Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,822, 4-10-73, Cl. 260-2.500.
Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,823, 4-10-73, Cl. 260-2.500.
Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,824, 4-10-73, Cl. 260-2.500.
Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,825, 4-10-73, Cl. 260-2.500.
Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,826, 4-10-73, Cl. 260-2.500.
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Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,829, 4-10-73, Cl. 260-2.500.
Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,830, 4-10-73, Cl. 260-2.500.
Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,831, 4-10-73, Cl. 260-2.500.
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Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,840, 4-10-73, Cl. 260-2.500.
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Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,851, 4-10-73, Cl. 260-2.500.
Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,852, 4-10-73, Cl. 260-2.500.
Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,853, 4-10-73, Cl. 260-2.500.
Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,854, 4-10-73, Cl. 260-2.500.
Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,855, 4-10-73, Cl. 260-2.500.
Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,856, 4-10-73, Cl. 260-2.500.
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Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,858, 4-10-73, Cl. 260-2.500.
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Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,862, 4-10-73, Cl. 260-2.500.
Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,863, 4-10-73, Cl. 260-2.500.
Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,864, 4-10-73, Cl. 260-2.500.
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Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,868, 4-10-73, Cl. 260-2.500.
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Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,870, 4-10-73, Cl. 260-2.500.
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Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,880, 4-10-73, Cl. 260-2.500.
Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,881, 4-10-73, Cl. 260-2.500.
Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,882, 4-10-73, Cl. 260-2.500.
Pegg, Ian Gordon, to Imperial Chemical Industries Limited. Process for the production of a polyurethane foam. 3,726,883, 4-10-73, Cl. 260-2.500.
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Peetoom, Frans; and Kiddy, Sandra Jean, to Baxter Laboratories, Inc. Infectious mononucleosis diagnostic reagent and method. 3,708,572, 1-2-73, Cl. 424-12.000.
Peevey, Robert M.: *See—*
Dendy, Jackie D.; Johnson, Robert D.; and Peevey, Robert M., 3,777,813.
Peevey, Robert M., to Amoco Production Company. Perforations washing tool. 3,760,878, 9-25-73, Cl. 166-185.000.
Pefferman, William C.: *See—*
Brzozowski, Stanley F.; Farmer, Alonzo; and Pefferman, William C., 3,760,071.
Pefferman, William C., to PPG Industries, Inc. Treatment of titanium tetrachloride dryer residue. 3,742,612, 7-3-73, Cl. 34-9.000.
Pefferman, William C., to PPG Industries, Inc. Beneficiation of titanium tetrachloride purification sludge solids. 3,744,978, 7-10-73, Cl. 23-293.00r.
Pegden, Claude D.: *See—*
Weaver, Leon B.; and Pegden, Claude D., 3,744,739.
Pegg, Robert J.; and Makowski, Clement J. Pulse jet rotor drive for helicopter. 3,768,926, 10-30-73, Cl. 416-21.000.
Pegg, Ronald L.: *See—*
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Pegg, Samuel, & Son Limited: *See—*
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Pegram, John B.: *See—*
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Peham, Engelbert J., to Peham Plastics, Inc. Miniature hats. 3,748,660, 7-31-73, Cl. 2-175.000.
Peham, Engelbert J., to Peham Plastics, Inc. Nestable plastic hat with head size adjustment. 3,765,030, 10-16-73, Cl. 2-183.000.
Peham Plastics, Inc.: *See—*
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Peham, Engelbert J., 3,765,030.
Pehle, Frank; and Winter, Michael, to Winter, Jack, Inc. Article of clothing and method of making same. 3,745,588, 7-17-73, Cl. 2-221.000.
Pehoqnin, Leo, to Gillette Company, The. Making soap bars. 3,746,647, 7-17-73, Cl. 252-91.000.
Pehr, Harold T. Material dispensing container. 3,771,695, 11-13-73, Cl. 222-142.400.
Pei, Yu K.: *See—*
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Peickii, Jeanette C.: *See—*
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Peickii, Vasalie L.: *See—*
Hammond, Donald L.; Knight, Larry V.; Yoshida, Henry; and Peickii, Vasalie L., 3,772,522.
Peifer, Gary S.; Hughes, James L.; and Johnson, Virgil H., to Caterpillar Tractor Company. Foot pedal actuating mechanism. 3,769,852, 11-6-73, Cl. 74-512.000.
Peil, William, to General Electric Company. Amplifier of controllable gain. 3,723,895, 3-27-73, Cl. 330-29.000.
Peil, William; and Hesler, Joseph P., to General Electric Company. Amplifier of controllable gain. 3,731,215, 5-1-73, Cl. 330-29.000.
Peil, William, to General Electric Company. Television receiver incorporating synchronous detection. 3,742,130, 6-26-73, Cl. 178-5.4sd.
Peil, William; and McFadyen, Robert J., to General Electric Company. Amplifier of controllable gain. 3,750,042, 7-31-73, Cl. 330-29.000.
Peil, William, to General Electric Company. Voltage controlled oscillator for integrated circuit fabrication. 3,763,439, 10-2-73, Cl. 331-8.000.
Peil, William; Diano, Peter R.; Marton, Roland M.; and Watkins, Brian J., to General Electric Company. Push-button switch assembly with integral resistance for electronic tuning. 3,768,061, 10-23-73, Cl. 338-125.000.
Peill, Jurgen Eberhardt; Gerritse, Alf; Osmera, Miroslav S.; and Andersen, Christian Karmark, to Nordisk Ventilator Co., Aktieselskab. System for the ventilation of buildings. 3,722,396, 3-27-73, Cl. 98-33.00r.
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Peillex, Pau, to Arisara Investment Corporation NV. Transparent protective screen. 3,721,995, 3-27-73, Cl. 2-10.000.
Peilstocker, Gunter: *See—*
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Peippo, Emil. Decoy, especially trolling hook. 3,778,917, 12-18-73, Cl. 43-35.000.
Peirano, John F.: *See—*
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Peirano, Mary Anne; and Peirano, John F. Music teaching device. 3,733,957, 5-22-73, Cl. 84-471.000.
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Peisner, Israel D.; Deshetler, Louis K.; and Augustine, Paul C., to Whitehead & Kales Company. Protective side panel installation for rail car. 3,709,154, 1-9-73, Cl. 105-368.00r.
Peister, Karl; Sletzinger, Meyer; and Hinkley, David F., to Merck & Co., Inc. Method of treating pain, fever or inflammation. 3,720,774, 3-13-73, Cl. 424-303.000.
Pejcha, Ivan, to Information Storage Systems, Inc. Centering device. 3,737,969, 6-12-73, Cl. 29-203.00p.
Pejcha, Ivan, to Information Storage Systems, Inc. Baseplate assembly for a disc drive. 3,768,083, 10-23-73, Cl. 340-174.10c.
Pek, Inc., mesne: *See—*
Keller, Charles Herman; and Wilson, Patrick Oliver, 3,752,579.
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Sayles, John H.; and Pekar, Allen L., 3,761,690.
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Pekosh, Raymond J., to Zenith Radio Corporation. Method for cleaning the sealing land of a cathode ray tube faceplate panel. 3,759,735, 9-18-73, Cl. 117-33.50c.
Pelaez, Pedro B. Mortar with electro-magnetic retaining coil. 3,779,128, 12-18-73, Cl. 89-1.00f.
Pelam, Inc.: *See—*
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Pelczarski, Eugene A.; Larosa, Paul J.; and Karnavas, James A., to Applied Technology Corporation. Method of treating molten material by use of a lance. 3,744,780, 7-10-73, Cl. 266-34.001.
Pelczerski, Eugene A.; and Karnavas, James A., to Black, Sivalls & Bryson, Inc. Purification of mine water and the like. 3,717,703, 2-20-73, Cl. 423-571.000.
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Pelenc, Yves; and Gatellet, Jacques, to Gerin, Merlin, Societe Anonyme. Linear induction motor propulsion system. 3,721,874, 3-20-73, Cl. 318-135.000.
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Pelizzoni, Winton J.; Baumbaugh, Charles R.; and Calliss, William A., to Mack Trucks, Inc. Engine lubrication system. 3,712,420, 1-23-73, Cl. 184-103.00r.
Pelkey, William H., to Simmonds Precision Products, Inc. Electrical compensating circuit. 3,732,493, 5-8-73, Cl. 324-166.000.
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Pell, Richard A.; deceased (by Pell, Elizabeth P.; heir). Averaging apparatus. 3,766,362, 10-16-73, Cl. 235-61.00e.
Pell, Richard B.; Churchill, Steven T.; and Seeley, William, to Delta Communications Corporation. Time multiplexed sampled data telephone system. 3,757,053, 9-4-73, Cl. 179-18.00j.
Pell, Robert H., to United States of America, Navy. Circuit for suppressing leakage currents flowing into an underground cable sheath. 3,760,298, 9-18-73, Cl. 333-12.000.
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Pelletter, R. T.; and Becker, Karl V., to USM Corporation. Apparatus for making shoes. 3,727,257, 4-17-73, Cl. 12-10.500.
Pellman, Ronald C., to Utica Cutlery Company, mesne. Utensil or tool for handling (boil-in-bag) pouches. 3,774,251, 11-27-73, Cl. 7-5.400.
Pellman, Ronald C., to Utica Cutlery Company, mesne. Device to cut or separate masses of frozen food. 3,780,436, 12-25-73, Cl. 30-123.00r.
Pellowski, Daniel W. Animal trap and trap holder. 3,747,259, 7-24-73, Cl. 43-90.000.
Pelly, Brian R., to Westinghouse Electric Corporation. Current fed inverter circuit using the time sharing principle. 3,725,768, 4-3-73, Cl. 321-6.000.
Pelly, Brian R.; and Tarjan, Mario G., to Westinghouse Electric Corporation. Control scheme for timing the application of limited duration firing signals to power switching devices. 3,728,557, 4-17-73, Cl. 307-252.00n.
Pelofsky, Arnold H., to Cities Service Oil Company. Rubber reclamation using ultrasonic energy. 3,725,314, 4-3-73, Cl. 260-2.300.
Pelorex Corporation: *See—*
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Pelouch, James J. Vehicle lift. 3,774,725, 11-27-73, Cl. 187-8.710.
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Peltier, Henri; Bailly, Roger; and Chatourel, Pierre, to Regie Nationale des Usines Renault and Automobiles Peugeot. Centrifugal casting devices. 3,710,848, 1-16-73, Cl. 164-293.000.
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Peltomuki, Olavi. Device for better exploitation of the exhaust energy from an internal combustion engine. 3,759,040, 9-18-73, Cl. 60-305.000.
Pelton, Charles R.; and Mitchell, Kim L., to Pelton Company, Inc. System for remotely controlling and activating a seismic vibrator. 3,733,584, 5-15-73, Cl. 340-15.5tg.
Pelton, Charles R.; and Mitchell, Kim L., to Pelton Company, Inc. Method and apparatus for remotely controlling a seismic vibrator and recording system. 3,739,870, 6-19-73, Cl. 181-.5fs.
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Pelzel, Erich, to Stolberger Zink Aktiengesellschaft fur Bergbau und Huttenbetrieb. Method of making malleable zinc-alloy bodies. 3,720,550, 3-13-73, Cl. 148-11.50r.
Pelzel, Erich, to Stolberger Zink Aktiengesellschaft fur Bergbau und Huttenbetrieb. Zinc alloy. 3,740,214, 6-19-73, Cl. 75-178.00r.
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Pembroke Carton and Printing Company Limited: *See—*
Aspin, Peter; Garwood, Roy; and Wise, Peter, 3,775,222.
Pemco Corporation: *See—*
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Pen-Cell Plastics, Inc.: *See—*
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Pena, Jose Baya. Self-propelled fishing float with line release mechanism. 3,710,500, 1-16-73, Cl. 42-17.500.
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Penasse, Lucien; Barthelemy, Pierre; and Hasbiss, Denise, to Roussel-UCLAF. Process for purifying enzymes of the asparaginase-type. 3,741,872, 6-26-73, Cl. 195-66.00a.
Penasse, Lucien; and Barthelemy, Pierre, to Roussel-UCLAF. Novel preparation of substituted cobamides. 3,773,756, 11-20-73, Cl. 260-211.700.
Penberthy, Harvey Larry. Ice axe. 3,735,434, 5-29-73, Cl. 7-8.10r.
Penberthy, Walter L., Jr.: *See—*
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Pence, Albert L.; and Smith, Van Zandt, to A.P.C. Industries, Inc. Apparatus for ensured splicing of wires. 3,728,770, 4-24-73, Cl. 29-203.00d.



Pence, Albert L.; and Smith, Van Zandt. Ensured splicing of wires.

Pence, Albert L.; and Smith, Van Zandt. Ensured splicing of wires. 3,754,323, 8-28-73, Cl. 29-628.000.
Pence, Clarence M.: *See—*
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Pence, Elbert A.: *See—*
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Pence, Samuel E., Jr., to Dow Chemical Company, The. Well treating method. 3,765,488, 10-16-73, Cl. 166-308.000.
Pencyla, Giedrius, to Kory Industries, Inc., mesne. Shooting range bullet trap structure. 3,737,165, 6-5-73, Cl. 273-102.400.
Pender, David H. Vertical take-off and landing aircraft. 3,762,667, 10-2-73, Cl. 244-7.00a.
Pendergrass, Paul E., to Tri-Tron International, mesne. Pulse imparter. 3,758,399, 9-11-73, Cl. 204-228.000.
Pendleton, Earl M. Portable tool for refacing drill pipe. 3,717,055, 2-20-73, Cl. 82-4.00c.
Pendleton, Everett J.; and Lodge, Melvin C. Hume scaffold. 3,744,590, 7-10-73, Cl. 182-152.000.
Pendleton, Frank P., to Vac-U-Max. Noise suppressed venturi power unit. 3,765,505, 10-16-73, Cl. 181-33.00k.
Pendleton Tool Industries, Inc.: *See—*
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Penet, Pierre Marie Marcel. Flow-meter and viscometer. 3,735,637, 5-29-73, Cl. 73-231.00r.
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Penetryn Systems Inc.: *See—*
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Penfield, Scott R., Jr.; and Roberts, Warren W., to Combustion Engineering, Inc. Rotatable weld cutting tool. 3,731,381, 5-8-73, Cl. 30-124.000.
Penfold, Garn Farley: *See—*
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Peng, Stephen C.: *See—*
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Penhasi, Harry A.; and Meir, Henry, to Beckman Industries, Inc. Process for the sequential degradation of peptide chains. 3,717,436, 2-20-73, Cl. 23-230.00r.
Penhasi, Harry A., to Beckman Instruments, Inc. Apparatus for automatically performing chemical processes. 3,725,010, 4-3-73, Cl. 23-253.00r.
Penhollow, John O., to Esso Production Research Company. Seismic exploration using the common reflection point technique. 3,731,270, 5-1-73, Cl. 340-15.5cp.
Penick & Ford, Limited: *See—*
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Penley, Walter E. Spare tire mount for pickups. 3,718,226, 2-27-73, Cl. 214-451.000.
Penn Aircraft Products, Incorporated: *See—*
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Penn, Alan William; and Neighbour, Frank, to United Kingdom Atomic Energy Authority. Thermoelectric units. 3,780,425, 12-25-73, Cl. 29-573.000.
Penn, Alan William; and Beighbour, Frank, to United Kingdom Atomic Energy Authority. Thermoelectric units. 3,781,176, 12-25-73, Cl. 136-212.000.
Penn Corporation: *See—*
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Wright, Charles B., Sr., 3,744,957.
Penn Engineering & Manufacturing Corporation: *See—*
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Penn Novelty Co.: *See—*
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Penn, Russell C.; Penn, Wayne P.; and Roughly, Thomas H., to Penn International Industries, Inc. Water bed. 3,778,852, 12-18-73, Cl. 5-348.0wb.
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Pennachetti, John T.; and Boux, Joseph F., to Enercon International, Limited. Process for the treatment of fly ash. 3,769,053, 10-30-73, Cl. 106-288.00b.
Pennachetti, John T.; and Boux, Joseph F., to Enercon International, Limited. Process for the treatment of fly ash. 3,769,054, 10-30-73, Cl. 106-288.00b.
Pennebaker, William B., to International Business Machines Corporation. Low voltage gas discharge display. 3,769,543, 10-30-73, Cl. 315-169.0tv.
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Penner, David. Note pad device using paper rolls. 3,738,685, 6-12-73, Cl. 281-8.000.
Penner, John. Detachable auxiliary tractor tire and wheel attachment means. 3,713,701, 1-30-73, Cl. 301-39.00r.
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Pennig, Gregor, to Daimler-Benz Aktiengesellschaft. Gas turbine for the drive of motor vehicles. 3,762,161, 10-2-73, Cl. 60-39.160.
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Pennington, James Ronald; and Gardiner, Errol Murray, to Allied Chemical Corporation. Trona mining method. 3,778,108, 12-11-73, Cl. 299-11.000.
Pennington, John C.: *See—*
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Pennington, John V., to Cameron Iron Works, Inc. Switch. 3,780,756, 12-25-73, Cl. 137-119.000.
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Pennington, Robert E.; von Rosenberg, Hermann E.; and Hochman, Jack M., to Esso Research and Engineering Company. Upgrading low rank coals as fuel. 3,754,876, 8-28-73, Cl. 44-1.00b.
Pennington, Rohe V., to Improved Machinery, Inc. Drum comprising support mounted grid structure. 3,773,614, 11-20-73, Cl. 162-357.000.
Pennington, Rohe Vester, to Improved Machinery Inc. Continuous digester check valve. 3,741,864, 6-26-73, Cl. 162-246.000.
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Pennwalt Corporation: *See—*
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Pennypacker, Frank C., to Lindsay Specialty Products Limited. Directional tap comprising pi-section high pass filter for use in CATV system. 3,747,028, 7-17-73, Cl. 333-10.000.
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Penrock, William B. Brassiere structure. 3,750,673, 8-7-73, Cl. 128-465.000.
Pensabene, Saverio F., to General Electric Company. High capacity rechargeable sealed cell. 3,752,705, 8-14-73, Cl. 136-13.000.
Pensak, Philip, to Colgate-Palmolive Company. Inflatable container. 3,742,994, 7-3-73, Cl. 150-1.000.
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Pentecost, Eugene E., to North American Rockwell Corporation. Elongated spring coil conductors applying tension force to push-button actuators in keyboard matrix switch assembly. 3,743,798, 7-3-73, Cl. 200-5.00r.
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Pentith, Gerald R. O., to Greenside Machine Company Limited. Road cutting machine with laterally extensible drum and method. 3,767,262, 10-23-73, Cl. 299-10.000.
Pentith, Gerald Richard Oldham, to Pitcraft Limited. Mining machine with chain drive propulsion. 3,753,596, 8-21-73, Cl. 299-43.000.
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Penton, James R., to Varian Associates. Sample introduction system for a fluid chromatograph. 3,730,002, 5-1-73, Cl. 73-422.0gc.
Penton, John W., to Cities Service Oil Company. Oil skimming apparatus. 3,762,556, 10-2-73, Cl. 210-242.000.
Pentron Industries, Inc.: *See—*
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Pentzien, Frederick R., to Kroehler Mfg. Co. Safety guard for reclining chair and the like. 3,781,060, 12-25-73, Cl. 297-68.000.
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Peoples, John Terrance, to Bell Telephone Laboratories, Incorporated. Asynchronous single-sideband demodulation. 3,746,996, 7-17-73, Cl. 325-330.000.
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Pepe, Enrico J.; and Marsden, James G., to Union Carbide Corporation. Urea silicon product and uses thereof. 3,754,971, 8-28-73, Cl. 117-72.000.



Pepe, Frank W. Tool for removing concentric knockouts. 3,736,643,
Percheron, Jean-Claude; and Septier, Louis, to Compagnie Pechiney



Pereyton, Albert: *See—*

Pepe, Frank W. Tool for removing concentric knockouts. 3,736,643, 6-5-73, Cl. 29-267.000.

Peper, Jan, to U.S. Philips Corporation. Cathode ray tube comprising at least one electron gun for producing a number of electron beams. 3,735,178, 5-22-73, Cl. 313-70.000.

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Pepkins, Garry R. Method of forming abrasion-resistant self-lubricating coating on ferrous metals and aluminum and resulting articles. 3,716,348, 2-13-73, Cl. 29-195.000.

Pepmeier, Carl R.; Burke, David C.; and Jones, Allen P., to FMC Corporation. Apparatus for determining coating adhesion properties of hydrophobic surfaces. 3,731,529, 5-8-73, Cl. 73-150.000.

Pepmeier, Carl R.; and Lowe, Edward G., to FMC Corporation. Apparatus for centering circular articles. 3,775,936, 12-4-73, Cl. 53-137.000.

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Pepper, Kenneth V., to Genova Products. Stop valve. 3,747,894, 7-24-73, Cl. 251-215.000.

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Pepper, Orlyn G. Web tensioner and guide system. 3,750,924, 8-7-73, Cl. 226-174.000.

Pepper, Roger T.; and Kendall, Ernest G., to United States of America, Air Force. Metal impregnated graphite fibers and method of making same. 3,770,488, 11-6-73, Cl. 117-47.00r.

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Peppler, Richard B.; and Rosskopf, Philip A., to Martin Marietta Corporation. Cement set accelerator. 3,767,436, 10-23-73, Cl. 106-90.000.

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Perazzella, Frank W., to North American Philips Corporation. Shaft coupling with sliding plate. 3,759,067, 9-18-73, Cl. 64-31.000.

Perazzoni, Pierluigi: *See—*
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Perberschlager, Alois, to Maschinenfabrik Schweiter AG. Yarn spooling machine with yarn lubricating device. 3,766,886, 10-23-73, Cl. 118-420.000.

Percher, Guy, to Schlumberger Instruments et Systemes. Data transmission system on one line. 3,743,936, 7-3-73, Cl. 325-55.000.

Percheron, Jean-Claude; and Septier, Louis, to Compagnie Pechiney. Alloy and method for treatment to produce spheroidal-graphite cast irons. 3,717,456, 2-20-73, Cl. 75-130.00b.

Percheron, Jean-Claude G.: *See—*
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Percich, Phillip P., to Amerace Esna Corporation. Hose straightening fixture. 3,716,225, 2-13-73, Cl. 269-269.000.

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Percorini, Marcello; DiNunzio, Vittorio; and Careglio, Giuseppe, to Compagnia Italiana Westinghouse Freni e Segnali. Static inverter. 3,760,258, 9-18-73, Cl. 321-11.000.

Percourt, Virginia S. Collapsible and portable signalling device. 3,775,887, 12-4-73, Cl. 40-125.00g.

Perdue, Richard R., to Grace, W. R., & Co. Apparatus for making thermoplastic vacuum packages. 3,754,372, 8-28-73, Cl. 53-112.00r.

Pere, Francois Caillarec, to Capic-Etablissements Caillarec. Device for heat treatment by way of forced gas convection, forming a bakery, pastry, pork-butchery oven or the like. 3,719,180, 3-6-73, Cl. 126-21.00a.

Pere, Gerard, to Creusot-Loire. Coupling for joining two shafts liable to non-alignment and to displacement along their axes, about a mean position. 3,739,600, 6-19-73, Cl. 64-19.000.

Pere, Jean-Francois: *See—*
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Pereau, Robert E., to Smith International, Inc. Drilling and belling apparatus. 3,757,876, 9-11-73, Cl. 175-267.000.

Pereda, Eugene F. Slot antenna having capacitive coupling means. 3,757,344, 9-4-73, Cl. 343-770.000.

Perego, Giuseppe. Device for quick fixing or dismounting respectively of a wheel from the supporting frame of a vehicle, particularly a pram or push-chair for children. 3,740,100, 6-19-73, Cl. 301-121.000.

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Pereman, Morris, to Carbide Form Grinding, Inc. Apparatus for cutting continous slide fastener chains into slide fasteners of predetermined length. 3,776,078, 12-4-73, Cl. 83-210.000.

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Perera, Luis A. Process of making candles by sequentially casting different wax layers. 3,773,881, 11-20-73, Cl. 264-155.000.

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Peres, Anthony R., to Peres Electronic Machinery Inc. Barrel opener. 3,739,472, 6-19-73, Cl. 30-6.400.

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Peress, Joseph S. Flexible joints. 3,754,779, 8-28-73, Cl. 285-11.000.

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Peressini, Gabriele. Procedure for setting up a cocoonery for silkworms as well as removing cocoons from the cocoonery and apparatus therefor. 3,757,740, 9-11-73, Cl. 119-6.000.

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Perez, Guillermo, to Litton Business Systems, Inc. Poster board for accounting forms. 3,722,922, 3-27-73, Cl. 282-29.00b.

Perez, Guillermo, to Litton Business Systems, Inc. Print head shifting mechanism. 3,743,073, 7-3-73, Cl. 197-55.000.

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Perez-Albuerne, Evelio A., to Eastman Kodak Company. Organic semiconductors. 3,754,986, 8-28-73, Cl. 117-201.000.

Perez-Mendez, Victor, to University of California, The Regents of the. Radiation camera and delay line readout. 3,772,521, 11-13-73, Cl. 250-385.00r.

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Perhats, Frank J. Clutch and brake motor arrangement. 3,732,447, 5-8-73, Cl. 310-76.000.

Peri, Erkki. All-terrain-vehicle. 3,765,357, 10-16-73, Cl. 114-67.00a.

Periard, John Neil, to Dow Chemical Company, The. Production of a paper pigment grade magnesium hydroxide product. 3,739,058, 6-12-73, Cl. 423-161.000.

Perigo, Leon A.; and Jordan, John A., to Coors Porcelain Company. Wear resistant assembly. 3,747,291, 7-24-73, Cl. 52-127.000.

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Perina, Joseph, to American Velcro, Inc. Deformable fastening device. 3,717,908, 2-27-73, Cl. 24-204.000.

Perina, Joseph, to American Velcro, Inc. Breakaway clutch. 3,718,009, 2-27-73, Cl. 64-28.00r.

Perina, Joseph, to American Velcro, Inc. Modular grid panel retention system. 3,721,050, 3-20-73, Cl. 52-28.000.

Perina, Joseph, to American Velcro, Inc. Attachment assembly. 3,732,600, 5-15-73, Cl. 24-204.000.

Perina, Joseph, to American Velcro, Inc. Pull-out window frame. 3,745,709, 7-17-73, Cl. 49-465.000.

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Perison, Ronald C., Sr., to Standard Mirror Company, Inc. Shatterproof rear vision mirror assembly fabrication. 3,776,618, 12-4-73, Cl. 350-288.000.

Perisse, Pierre. Apparatus for the manufacture of patterns or models of synthetic material for precision foundry castings. 3,766,966, 10-23-73, Cl. 164-249.000.

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Perkins, Alan Vincent, to General Electric Company. Blade fastening means. 3,734,646, 5-22-73, Cl. 416-220.000.

Perkins, Charles H.; Brakebill, Harold G.; Goff, Earl; and Caldwell, Edward N., to Robertshaw Controls Company. Heat exchanger system and method and parts therefor or the like. 3,743,180, 7-3-73, Cl. 236-16.000.

Perkins, Charles Willin, to Hosiery Equipment Limited. Apparatus for separating hosiery articles. 3,779,046, 12-18-73, Cl. 66-147.000.

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Perkins, Glen E. Apparatus for grooving a concrete slab. 3,767,348, 10-23-73, Cl. 425-385.000.

Perkins, Jimmie G., to McCord Corporation. Seat assembly. 3,756,655, 9-4-73, Cl. 297-379.000.

Perkins, John F., to Westinghouse Electric Corporation. Torsional rotary shaft seal. 3,744,324, 7-10-73, Cl. 74-18.100.

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Perkins, Robert L.; and Keel, Beat G., to Control Data Corporation. Magnetic recording arrangement utilizing a gas film bearing. 3,720,932, 3-13-73, Cl. 340-174.10e.
Perkins, Thomas K., to Atlantic Richfield Company. Well insulation method. 3,763,935, 10-9-73, Cl. 166-315.000.
Perkins, Thomas K., to Atlantic Richfield Company. Procedure for assisting renewal of oil flow in a pipeline. 3,780,749, 12-25-73, Cl. 137-13.000.
Perkins, Thomas K., to Atlantic Richfield Company. Facilitating renewal of oil flow in a pipeline. 3,780,750, 12-25-73, Cl. 137-13.000.
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Perkins, William L., III; and Fisk, David C., to United Aircraft Corporation. Brushless DC motor. 3,743,902, 7-3-73, Cl. 318-138.000.
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Perl, Sidney. Vehicle indicator belt. 3,720,918, 3-13-73, Cl. 340-81.00r.
Perl, Theodore. Lightproofed dental radiographic film developer. 3,727,533, 4-17-73, Cl. 95-89.00r.
Perl, Theodore. Apparatus with disposable parts for rapid successive administration of enemas to groups of patients. 3,750,668, 8-7-73, Cl. 128-227.000.
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Perlick, Allan A. Landscaping implement. 3,718,190, 2-27-73, Cl. 172-173.000.
Perlick, Mark A., to General Motors Corporation. Fluid clutch with one way torque limiting engager. 3,717,229, 2-20-73, Cl. 192-85.0aa.
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Perlman, Morris, to Carbide Form Grinding, Inc. Stapling machine. 3,753,523, 8-21-73, Cl. 227-88.000.
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Perlman, Sol J. Process for cooking foods in polyalkylene terephalate film bag. 3,716,369, 2-13-73, Cl. 99-1.000.
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Peronnon, Christian; and Guillet, Claude. Ski-bobs and similar sliding apparatus of the single-track type. 3,717,359, 2-20-73, Cl. 280-16.000.
Perot, Gilbert; Labin, Emile; and Da Silveira, Miguel, to Pechiney-Progil. Hybrid navigation system. 3,739,383, 6-12-73, Cl. 343-112.00r.
Perot, Joseph Charles, to Brown & Root, Inc. Apparatus for entrenching submerged elongate structures. 3,751,927, 8-14-73, Cl. 61-72.400.
Peroutky, Donald C., to General Electric Company. Capacitive keyswitch. 3,760,243, 9-18-73, Cl. 317-249.00r.
Perov, Alexandr Vasilievich: *See—*
Brukovsky, Igor Pavlovich; Yakovlev, Pavel Borisovich; Gutterman, Kirill Davidovich; Perov, Alexandr Vasilievich; Hukov, Vladimir Fedorovich; Nekrasova, Larisa Petrovna; and Ivanovsky, Jury Dmitrievich, 3,758,816.
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Peroy, Francois, to Regie Nationale des Usines Renault and Automobiles Peugeot. Delayed-opening switches for vehicles interior lighting. 3,721,933, 3-20-73, Cl. 337-66.000.
Perpall, Robert C., to Garrett Corporation, The. Heat exchanger mounting. 3,775,972, 12-4-73, Cl. 60-13.00r.
Perpedos AB: *See—*
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Perper, Lloyd J.: *See—*
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Perranti, Limited: *See—*
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Perreau, Pierre, to Schlumberger Instruments et Systemes. Color motion-picture projection system. 3,752,568, 8-14-73, Cl. 352-66.000.
Perreault, Aime Joseph: *See—*
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Perreault, Donald A., to Xerox Corporation. Method and apparatus for rapidly scanning a document. 3,723,640, 3-27-73, Cl. 178-6.000.
Perreault, Jules: *See—*
Bombardier, Jerome; and Perreault, Jules, 3,756,667.
Perreault, Jules, to Bombardier Limited. Bogie-wheel suspension assembly. 3,761,144, 9-25-73, Cl. 305-27.000.
Perreault, Jules, to Bombardier Limited. Endless track having replaceable transverse rods. 3,771,844, 11-13-73, Cl. 305-38.000.
Perreault, Jules, to Bombardier Limited. Muffler assembly for snowmobiles. 3,779,327, 12-18-73, Cl. 180-5.00r.
Perrella, Guido; and Genest, Robert, to Testograph Limited. Testing machine. 3,742,617, 7-3-73, Cl. 35-48.000.
Perrero, George; and Weller, Carroll E., to Avco Corporation. VHF and microwave amplifier having improved stability and controllable gain. 3,711,782, 1-16-73, Cl. 330-30.00r.
Perret, Georges, to Geneco Inc. Apparatus for printing on cylindrical articles. 3,718,085, 2-27-73, Cl. 101-40.000.
Perret, Jean Charles: *See—*
Bourguet, Jean-Marie; and Perret, Jean Charles, 3,742,721.
Perret, Jean Charles, to Compagnie Francaise d'Etudes et de Construction Technip. Cooling and low temperature liquefaction of gaseous mixtures with multicomponent refrigerant. 3,747,360, 7-24-73, Cl. 62-40.000.
Perret, Roger, to Application des Gaz. Lighters, having a flint and knurled wheel, for burners. 3,743,472, 7-3-73, Cl. 431-274.000.
Perret, Samuel Leon; deceased (by Hugeunin, Eric; administrator). Reflector for projecting or receiving radiation. 3,774,995, 11-27-73, Cl. 350-294.000.
Perri, Joseph, to Union Commerce Bank, The, mesne. Method for lining a hot top casing with insulating panels and ring. 3,732,610, 5-15-73, Cl. 29-463.000.
Perri, Peter R.: *See—*
Anderson, Albin R.; Grenier, Robert P.; and Perri, Peter R., 3,736,426.
Perri, Thomas J.: *See—*
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Perricone, Alphonse C., to Milchem Incorporated. Brine drilling fluid lubricant and process for drilline subterranean wells with same. 3,716,486, 2-13-73, Cl. 252-8.50c.
Perricone, Alphonse C.; and Young, Homer F., to Milchem Incorporated. Composition and process for drilling subterranean wells. 3,730,900, 5-1-73, Cl. 252-8.50c.
Perrier, Dorothy M.; and Benerito, Ruth R., to United States of America, Agriculture. Catalysis of the cellulose-cyclic urea reactions by built-in acid groups. 3,734,685, 5-22-73, Cl. 8-129.000.
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Perrin, Jacques, to Thomson-CSF. Method of telecommunication via satellite and systems using this method. 3,761,813, 9-25-73, Cl. 325-4.000.
Perrin, Jacques. Method of stabilization of plant roots and extracts thus stabilized. 3,777,021, 12-4-73, Cl. 424-195.000.
Perrin, Jean Baptiste. Flower bowls. 3,765,995, 10-16-73, Cl. 161-18.000.
Perrin, Louis R.F.J.: *See—*
Esseiva, Roger Marcel; Perrin, Louis R.F.J.; and Romang, Lucien Willy, 3,711,311.
Perrin, Michael J.: *See—*
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Smagala-Romanoff, Edward A., 3,741,665.
Perrine, Nathan L. Mounting apparatus for mail boxes and the like. 3,749,342, 7-31-73, Cl. 248-123.000.
Perrine, Walter E. Firearm muzzle deflector. 3,707,899, 1-2-73, Cl. 89-14.00c.
Perrine, Walter E. Adjustable hesitation blow back operated gun toggle mechanism. 3,709,091, 1-9-73, Cl. 89-189.000.
Perrine, Walter E. Lifting yoke and harness. 3,724,846, 4-3-73, Cl. 272-84.000.
Perrine, Walter E. Under-center gun toggle mechanism with toggle biasing means at given position. 3,732,779, 5-15-73, Cl. 89-189.000.
Perrine, Walter E. Adjustable hesitation blow-back operated gun toggle mechanism. 3,748,961, 7-31-73, Cl. 89-189.000.
Perrine, Walter E. Silencer for gas discharging devices employing means for reducing drag. 3,767,006, 10-23-73, Cl. 181-49.000.
Perrington, Kenneth J.; Vogelgesang, Peter J.; and Knudsen, James K., to Minnesota Mining and Manufacturing Company. Dual-layer magnetic recording tape. 3,761,311, 9-25-73, Cl. 117-239.000.
Perrington, Kenneth J.; Vogelgesang, Peter J.; and Knudsen, James K., to Minnesota Mining and Manufacturing Company. Dual-layer quadruplex video recording tape. 3,775,178, 11-27-73, Cl. 117-239.000.
Perrino, Thomas W., to Leesona Corporation. Strand handling. 3,767,130, 10-23-73, Cl. 242-18.0pw.
PERRO, Societe pour de Developpment et la Vente de Specialities Chimiques: *See—*
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Perron, Robert R.; and Pastan, Harvey L., to Eastern Company, The. Peak holding circuit. 3,777,263, 12-4-73, Cl. 324-103.00p.
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Perronnet, Jacques; and Demoute, Jean-Pierre, to Roussel-UCLAF. O-(N-alkyl carbamoyl)carbalkoxy-chloroformaldoxime and process for the preparation thereof. 3,742,036, 6-26-73, Cl. 260-482.00r.
Perrot, Alexander; and Schucker, Emil. Method and device for the sprinkling of a cultivated field. 3,739,982, 6-19-73, Cl. 239-1.000.
Perrott, Emmanuel J.: *See—*
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Perrott, Francis Cyril. Transportation means. 3,777,667, 12-11-73, Cl. 104-88.000.
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Perry, Adelbert W. Safety ladder brace. 3,715,012, 2-6-73, Cl. 182-107.000.
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Perry, Charles H., to Creative Posters, Inc. Disc record carrier. 3,717,297, 2-20-73, Cl. 229-72.000.
Perry, Clark William, to Hoffmann-La Roche Inc. Method for making 2,3-dimethyl-1,4-bis-(3, 4-hydrocarbonyloxyphenyl)-1,4-butanedione. 3,769,350, 10-30-73, Cl. 260-592.000.
Perry, Cooper, to Batson-Cook Company. Guide assembly. 3,734,374, 5-22-73, Cl. 226-199.000.
Perry, D. Cameron, to Armco Steel Corporation. Aluminum-bearing precipitation-hardening stainless steel of high retained toughness. 3,759,757, 9-18-73, Cl. 148-38.000.

Perry, David Lester Edgar. Measuring machine. 3,718,112, 2-27-73, Cl. 116-114.000.
Perry, Dean A. Valve with elliptical sealing. 3,780,985, 12-25-73, Cl. 251-309.000.
Perry, Dennis Alfred; and Walford, John Ernest, to Conflow Limited. Starting control lock by dust suppression control in mining machine. 3,743,354, 7-3-73, Cl. 299-1.000.
Perry, Donald R. Hand-starting auxiliary device for internal combustion engines. 3,716,039, 2-13-73, Cl. 123-185.00a.
Perry, Elbert J. Suction device. 3,754,580, 8-28-73, Cl. 141-65.000.
Perry, Eli: *See—*
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Strazik, William F.; and Perry, Eli, 3,726,934.
Strazik, William F.; and Perry, Eli, 3,776,970.
Perry, Eli; and Strazik, William F., to Monsanto Company. Process for the separation of styrene from ethyl benzene. 3,733,367, 5-15-73, Cl. 260-669.00a.
Perry, Eli; and Strazik, William F., to Monsanto Company. Process for the separation of diene from organic mixtures. 3,745,744, 7-17-73, Cl. 55-16.000.
Perry, Eli; and Strazik, William F., to Monsanto Company. Process for the separation of alkene from organic mixtures containing same. 3,773,844, 11-20-73, Cl. 260-669.00a.
Perry, Eli; and Strazik, William F., to Monsanto Company. Process for the separation of diene from organic mixtures. 3,773,848, 11-20-73, Cl. 260-681.50r.
Perry, Elijah Robert, to I-T-E Imperial Corporation. Above ground gas-insulated pipe type transmission configuration. 3,761,600, 9-25-73, Cl. 174-16.00b.
Perry, Ernest J.: *See—*
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Perry, Francis J.; and Schacht, Guenther H., to International Business Machines Corporation. Wide base type carrier. 3,745,918, 7-17-73, Cl. 101-111.000.
Perry, Frederick G., to Texas Instruments, Incorporated. Apparatus for starting and protecting of electrical motors. 3,718,879, 2-27-73, Cl. 337-95.000.
Perry, Glenn R.: *See—*
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Perry, Harold W.; and Swinford, Martin E., to Richardson Ink Co. Solventless non-polluting vehicles for heat-set inks. 3,776,867, 12-4-73, Cl. 260-21.000.
Perry, Ian James; Watson, Bruce Dunstan; Lagerche, John Geoffrey; Denman, George Alan; Irvine, Norman William; Goding, Thomas Joseph; and Moffett, Graham Douglas, to Copper Refineries Pty., Limited. Evaporative treatment of liquids by submerged combustion.3,763,915, 10-9-73, Cl. 159-16.00a.
Perry, Jack I.; and Schmader, Bernard A., to Owens-Illinois, Inc. Ninety degree sweepout with automatic phasing control. 3,716,126, 2-13-73, Cl. 198-24.000.
Perry, James E.: *See—*
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Perry, James H., to Norton Company. Pulp refiners. 3,708,130, 1-2-73, Cl. 241-260.000.
Perry, James H., to Norton Company. Automatic pulp grinder control. 3,776,475, 12-4-73, Cl. 241-33.000.
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Perry, John C. Carburetor fuel metering valve. 3,711,068, 1-16-73, Cl. 261-41.00b.
Perry, John E., to Horizons Research Incorporated. Scrap recovery apparatus. 3,744,779, 7-10-73, Cl. 266-33.00s.
Perry, John H.: *See—*
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Perry, Kenneth E., to Dynetics Corporation. Machine for finishing surfaces. 3,728,821, 4-24-73, Cl. 51-2.00r.
Perry, Kenneth E. Workpiece finishing machine. 3,769,751, 11-6-73, Cl. 51-2.00r.
Perry, Mark J. Mounting device for low pressure tire indicating mechanisms. 3,742,896, 7-3-73, Cl. 116-34.00r.
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Perry, Richard Anthony, to Odec Computer Systems, Inc. Impact hammer for liner printer. 3,714,892, 2-6-73, Cl. 101-93.00c.
Perry, Richard Anthony, to Odec Computer Systems, Inc. Impact line printer. 3,730,082, 5-1-73, Cl. 101-93.00c.
Perry, Robert Bruce: *See—*
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Perry, Robert H., to Westinghouse Electric Corporation. Vehicle movement control and detection method and apparatus. 3,710,100, 1-9-73, Cl. 246-28.00r.
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Perry, Robert J., to Phillips Petroleum Company. Ethylene-propylene copolymer production with triphenylphosphite as catalyst adjuvant. 3,736,307, 5-29-73, Cl. 260-88.20r.
Perry, Robert J., to Phillips Petroleum Company. Polymer-handling process. 3,744,530, 7-10-73, Cl. 138-145.000.
Perry, Robert J., to Phillips Petroleum Company. Introducing catalyst into a reactor. 3,780,135, 12-18-73, Cl. 260-878.00b.
Perry, Roger L., to Gillette Company, The. Razor handle. 3,768,162, 10-30-73, Cl. 30-47.000.
Perry, Russell C., to Artek Systems Corporation. Method and apparatus for measuring the size of zones of inhibition in an assay medium. 3,757,299, 9-4-73, Cl. 340-146.3ac.
Perry, Russell C., to Artek Systems Corporation. Antibiotic sensitivity measurement system. 3,780,223, 12-18-73, Cl. 178-6.800.
Perry, Stephen F.: *See—*
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Perry, Wesley G.; and Marten, James F., to Damon Corporation. Container unit for liquid samples. 3,718,133, 2-27-73, Cl. 128-2.00f.
Perry, William A.; and Jobst, Raymond C. Crane bucket equipment. 3,780,880, 12-25-73, Cl. 214-1.00r.
Perryman, John S. Releasable ski binding. 3,764,155, 10-9-73, Cl. 280-11.35y.
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Persidok, Jacek Antoni, to Ecos Electronics Corporation. Method and apparatus for measuring impedance in the presence of unwanted signals. 3,771,057, 11-6-73, Cl. 324-57.00r.
Persinos, Georgia J., to Amazon Natural Drug Company. Method of producing stevioside. 3,723,410, 3-27-73, Cl. 260-210.00r.
Persinski, Leonard John; and Boothe, Jerry Emile, to Calgon Corporation. Friction reducing. 3,768,565, 10-30-73, Cl. 166-308.000.
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Personett, Bernell E. Infant rest pad. 3,761,975, 10-2-73, Cl. 5-348.000.
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Persson, Eric Sigfrid; and Persson-Melin, Signe Harriet, to Expo Nord AB. Sitting furniture. 3,749,444, 7-31-73, Cl. 297-445.000.
Persson, Eric Sigfrid; and Persson-Melin, Signe Harriet, to Expo Nord AB. Sitting furniture. 3,770,317, 11-6-73, Cl. 297-445.000.
Persson, Erland K., to Electro-Craft Corporation. Coupling. 3,709,000, 1-9-73, Cl. 64-13.000.
Persson, Henry. Apparatus for deburring a metal strip. 3,724,304, 4-3-73, Cl. 83-3.000.
Persson, Inge Berti; and Nissmo, Jim Arthur, to Scan Coin AB. Apparatus for forming and filling bags. 3,762,128, 10-2-73, Cl. 53-182.000.
Persson, Jan Edvard, to Atlas Copco Aktiebolag. Toothed rotor piston machine. 3,748,069, 7-24-73, Cl. 418-191.000.
Persson, John A., to Pennsylvania Engineering Corporation. Electric smelting furnace electrode having a wooden core. 3,715,439, 2-6-73, Cl. 13-18.000.
Persson, Karl Rune, to Sprinter Pack AB. Hexagonal package unit. 3,738,564, 6-12-73, Cl. 229-36.000.
Persson, Karl Rune, to Bila Cup AB. Cup for dental waste. 3,765,564, 10-16-73, Cl. 220-90.000.
Persson, Per Lage, to AB Perma System. Method for mounting the slats of a venetian blind in the slat support cords and means for carrying out the method. 3,710,464, 1-16-73, Cl. 29-24.500.



Persson, Per-Oskar; Astrom, Per Sture; and Emgard, Lennart S. A., to Frigoscandia Contracting AB. Deep-freezing apparatus. 3,774,409, 11-27-73, Cl. 62-320.000.
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Persson, Tage G., to Falls Metal Works, Inc. Sheet metal deburring apparatus. 3,733,962, 5-22-73, Cl. 90-24.00f.
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Persson, Walther; and Benedictus, Lauritz, to Svenska Rotor Maskiner Aktiebolag. Two stage screw rotor machines. 3,756,753, 9-4-73, Cl. 418-9.000.
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Peruglia, Marco: *See—*
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Michellone, Giancarlo; Peruglia, Marco; and Moretti, Turini Renzo, 3,753,599.
Peruglia, Marco, to Fiat Societa per Azioni. Solenoid-operated hydraulic switching valve. 3,719,401, 3-6-73, Cl. 303-21.00f.
Peruglia, Marco; and Michellone, Giancarlo, to Fiat Societa per Azioni. Failsafe hydraulic braking apparatus for motor vehicles. 3,727,988, 4-17-73, Cl. 303-6.00c.
Peruglia, Marco; and Michellone, Giancarlo, to Fiat Societa per Azioni. Motor vehicle hydraulic braking systems. 3,736,030, 5-29-73, Cl. 303-6.00c.
Peruglia, Marco, to Fiat Societa per Azioni. Solenoid-operated, two-way, two-position valve with bidirectional flow. 3,738,607, 6-12-73, Cl. 251-30.000.
Peruglia, Marco, to Fiat Societa per Azioni. Vehicle anti-skid braking apparatus. 3,738,713, 6-12-73, Cl. 303-21.00f.
Peruglia, Marco; and Anselmino, Giovanni, to Fiat Societa per Azioni. Solenoid-actuated pneumatic actuator for anti-skid vehicle braking systems. 3,749,125, 7-31-73, Cl. 137-596.160.
Peruglia, Marco, to Fiat Societa per Azioni. Anti-skid braking system with two modes of operation. 3,759,583, 9-18-73, Cl. 303-21.00f.
Peruglia, Marco, to Fiat Societa per Azioni. Piping for vehicular braking systems with brake fluid recirculation. 3,765,728, 10-16-73, Cl. 303-1.000.
Peruglia, Marco, to Fiat Societa per Azioni. Vehicle anti-skid braking apparatus having two modes of operation. 3,767,273, 10-23-73, Cl. 303-21.00f.
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Peschel, Stanley G., to Hipotronics, Inc. High voltage accelerator power supply. 3,781,639, 12-25-73, Cl. 321-15.000.
Peschl, Ervin; and Skrepek, Jan, 1/2 to Schlafhorst, W., & Co. and 1/2 to Vyzkumny Ustav Pletarsky. Method of producing a warp knitted or sewn fabric. 3,718,011, 2-27-73, Cl. 66-192.000.
Pesek, Clarence T., to United States of America, National Aeronautics and Space Administration. Circuit board package with wedge shaped corners. 3,735,206, 5-22-73, Cl. 317-100.000.
Pesek, Laddie J.: *See—*
Ross, Joseph M.; Weinkamer, William A.; Pesek, Laddie J.; and Havel, John F., 3,741,271.
Pesez, Gaston, 50% to Regie Nationale des Usines Renault and 50% to Produits Chimiques Pechiney-Saint-Gobain. Pre-impregnated materials. 3,766,129, 10-16-73, Cl. 260-40.00r.
Peshina, William F.: *See—*
Peshina, William J.; Peshina, William F.; and Stevers, Roger F., 3,745,297.
Peshina, William J.; Peshina, William F.; and Stevers, Roger F., 3,747,307.
Peshina, William J.; Peshina, William F.; and Stevers, Roger F., to Royal Wire Products Inc. Apparatus for making a cage assembly. 3,745,297, 7-10-73, Cl. 219-56.000.
Peshina, William J.; Peshina, William F.; and Stevers, Roger F., to Royal Wire Products, Inc. Telescopic support for bag filters. 3,747,307, 7-24-73, Cl. 55-379.000.
Pesl, Josef: *See—*
Hinrichs, Helmut; Lehner, Heinz; Wagner, Anton; Pesl, Josef; Niedetzky, Johann; and Faschinger, Franz, 3,754,078.
Pessen, David W., to Gulf & Western Systems Company. Composite roll. 3,750,246, 8-7-73, Cl. 29-130.000.
Pessen, David W. Quick-release mechanism for self-locking mating worms. 3,776,060, 12-4-73, Cl. 74-424.700.
Pessier, Rudolf Carl Otto, to Hughes Tool Company. Anti-tracking earth boring drill. 3,726,350, 4-10-73, Cl. 175-374.000.
Pessier, Rudolf Carl Otto, to Hughes Tool Company. Rolling cutter mounting in big hole reaming bit. 3,750,767, 8-7-73, Cl. 175-53.000.
Pessina, Raffaele. Method for preparing tetra-N,N,N,'N'-(2-hydroxyethyl)-ethylenediamine tetranitrate and salts thereof. 3,759,977, 9-18-73, Cl. 260-467.000.
Pessolano, Arsenio A.: *See—*
Clark, Robert L.; and Pessolano, Arsenio A., 3,755,325.
Witzel, Bruce E.; Shen, Tsung-Ying; Graham, Patricia M.; Clark, Robert L.; and Pessolano, Arsenio A., 3,721,676.
Pesson, Marcel; and Techer, Henri, to Laboratoires Roger Bellon. 3-Oxo-2,3-dihydro-1,4-benzoxazine derivatives. 3,770,734, 11-6-73, Cl. 260-244.00r.
Pester, William B.: *See—*
Cabaret, George F.; Holland, Andrew M.; Morris, Joseph P.; Pester, William B.; and Osborne, Harold A., 3,771,255.
Carabet, George F.; Holland, Andrew M.; Morris, Joseph P.; Pester, William B.; and Pinkerton, Kenneth R., 3,746,439.
Carabet, George F.; Holland, Andrew M.; Morris, Joseph P.; and Pester, William B., 3,773,415.
Folson, Henry J.; Hegel, James D.; Hosokawa, William T.; Pester, William B.; and Porter, Irwin C., 3,711,964.
Sloane, Thomas E., Jr.; Hart, William; and Pester, William B., 3,769,744.
Pestka, John A., to Illinois Tool Works, Inc. End connector grommet assembly. 3,708,145, 1-2-73, Cl. 248-361.000.
Pestre, Jacques: *See—*
Voelskow, Peter; Schafer, Karl; and Pestre, Jacques, 3,731,883.
Pesz, Robert G.; and Cleary, Robert T., to GTE Automatic Electric Laboratories Incorporated. Ring trip circuit. 3,748,401, 7-24-73, Cl. 179-84.00r.
Pet Incorporated: *See—*
Baruzzini, Gino L., 3,729,889.
Fullington, William H.; and Maisak, Melvin O., 3,719,408.
Petcoff, Darrell G., to Sorvall, Ivan, Inc. Apparatus for drying and developing chromatograms. 3,734,693, 5-22-73, Cl. 23-253.0pc.
Petel, Harish A., to Kimberly-Clark Corporation. Tampon inserter arrangement. 3,739,781, 6-19-73, Cl. 128-263.000.
Petelka, Roland J.: *See—*
Welch, Earl S.; and Petelka, Roland J., 3,724,208.
Peter, Heinrich: *See—*
Bickel, Hans; Mueller, Johannes; Bosshardt, Rolf; Peter, Heinrich; and Fechtig, Bruno, 3,726,865.
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Peter, Joseph E.: *See—*
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Peter, Martin: *See—*
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Peter, Oskar E.: *See—*
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Peter, Martin: *See—*
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Peterbilt Motors Co., mesne: *See—*
Hall, Jack Lee, 3,734,220.
Peterfi, Tibor. Method and apparatus for the production of a stereoscopic picture. 3,737,567, 6-5-73, Cl. 178-5.400.
Peterfi, Tibor. Method and apparatus for the production of a stereoscopic picture. 3,737,568, 6-5-73, Cl. 178-5.400.
Peterfi, Tibor. Method and apparatus for the production of a stereoscopic picture. 3,737,569, 6-5-73, Cl. 178-5.400.
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Peterfi, Tibor. Method and apparatus for the production of a stereoscopic picture. 3,737,619, 6-5-73, Cl. 178-5.400.
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Peterfi, Tibor. Method and apparatus for the production of a stereoscopic picture. 3,737,678, 6-5-73, Cl. 178-5.400.
Peterfi, Tibor. Method and apparatus for the production of a stereoscopic picture. 3

Peter, Oskar E.; and Peter, Lothar (said Peter, Lothar, assor. to said), 3,776,651.

Peter, Oskar E.; and Peter, Lothar, said Peter, Lothar, assor. to said Peter, Oskar E. Unitary hub-shaft interconnection assembly. 3,717,367, 2-20-73, Cl. 289-52.006.

Peter, Oskar E.; and Peter, Lothar, said Peter, Lothar, assor. to said Peter, Oskar E. Hub connection for use with hollow shafts. 3,776,651, 12-4-73, Cl. 403-248.000.

Peter, Rene, to RCA Corporation. Dynamic convergence circuits. 3,735,191, 5-22-73, Cl. 315-13.00c.

Peter, Richard: *See—*
Angliker, Hans-Joerg; and Peter, Richard, 3,712,881.
Angliker, Hans-Joerg; and Peter, Richard, 3,759,894.
Angliker, Hans-Joerg; and Peter, Richard, 3,770,718.
Hegar, Gert; Angliker, Hans-Joerg; and Peter, Richard, 3,755,287.

Peter, Richard; and Angliker, Hans-Joerg, to Ciba-Geigy AG. Azo dyestuffs containing a complete radical of a styryl dyestuff. 3,717,625, 2-20-73, Cl. 260-207.100.

Peter, Richard; Angliker, Hans-Joerg; and Casa, Angelo Della, to Ciba-Geigy AG. Anthraquinoid dyestuffs. 3,759,957, 9-18-73, Cl. 260-368.000.

Peter, Richard; Angliker, Hans-Joerg; and Casa, Angelo Della, to Ciba-Geigy AG. Anthraquinoid dyestuffs. 3,759,958, 9-18-73, Cl. 260-372.000.

Peter, Richard; Angliker, Hans-Joerg; and Casa, Angelo Della, to Ciba-Geigy AG. Anthraquinoid dyestuffs. 3,759,959, 9-18-73, Cl. 260-376.000.

Peter, Wolfgang: *See—*
Hanke, Hans; and Peter, Wolfgang, 3,774,735.

Peter, Wolfgang; and Hanke, Hans, to Daimler-Benz Aktiengesellschaft. Hydrodynamic transmission. 3,716,995, 2-20-73, Cl. 60-54.000.

Peterfalvi, Michel: *See—*
Allais, Andre; and Peterfalvi, Michel, 3,749,723.

Peteri, Dezso: *See—*
Scherm, Arthur; and Peteri, Dezso, 3,723,446.

Petering, Wilbur H.: *See—*
McCracken, William L.; Petering, Wilbur H.; Kircher, Charles E., Jr.; and Pinchak, Paul R., 3,725,486.

Peterlein, Karl: *See—*
Muller, Helmut; and Peterlein, Karl, 3,723,516.

Peterlein, Karl; and Rempfer, Heinz, to Gelsenberg Aktiengesellschaft. Tetrahydrofuran-2,3,4,5-tetracarboxylic acid dianhydride. 3,755,377, 8-28-73, Cl. 260-346.800.

Peterli, Hans Jakob; and Heller, Hansjorg, to Ciba-Geigy Corporation. Sulphur-containing antioxidants. 3,729,443, 4-24-73, Cl. 260-45.95c.

Peterman, Charles P.; Johnson, Glenn D.; and Petersen, William H., to Shell Oil Company. Apparatus for carrying out underwater wellhead operations. 3,739,844, 6-19-73, Cl. 166-.500.

Peternel, Jacob R., to PPG Industries, Inc. Method and apparatus for controlling temperature of conveyed glass sheets. 3,744,985, 7-10-73, Cl. 65-104.000.

Peterpaul, Joseph, to E.R.E. Laboratory, Inc. Automatic advance mechanism for microfiche reader. 3,778,141, 12-11-73, Cl. 353-15.000.

Peters & Co., Inc.: *See—*
Cummings, Gilbert A., 3,717,397.
Cummings, Gilbert A., 3,722,700.
Healy, James W., 3,722,970.

Peters, Albert: *See—*
Reinhardt, Helmut; Brandt, Bernd; and Peters, Albert, 3,738,785.
Reinhardt, Helmut; Brandt, Bernd; and Peters, Albert, 3,742,566.
Reinhardt, Helmut; Brandt, Bernd; and Peters, Albert, 3,762,851.

Peters, Alexander A., to Eastman Kodak Company. Film advance and metering mechanism for cameras. 3,747,494, 7-24-73, Cl. 95-31.0ac.

Peters, Allen; and Ryan, William J. Stabilizable scaffolding support bracket. 3,776,498, 12-4-73, Cl. 248-221.000.

Peters, Anthony. Sump apparatus. 3,726,606, 4-10-73, Cl. 417-7.000.

Peters, Anthony, mesne: *See—*
Jurgens, Francis T., 3,753,072.

Peters, C. Wilbur: *See—*
Curtiss, Lawrence E., 3,753,672.

Peters, Charles L., to Box Innards, Inc. Paper trimmer. 3,728,925, 4-24-73, Cl. 83-441.000.

Peters, Claudius, Aktiengesellschaft: *See—*
Grapengiesser, Johann-Claus; Klein-Albenhausen, Heinrich; Van Hees, Adrian; and Siefert, Gerhard, 3,774,972.
Schreiner, Paul, 3,753,299.

Peters, Clifford M. Combination high and low pressure cutoff control valve. 3,716,074, 2-13-73, Cl. 137-625.600.

Peters, Clifford M. High or low pressure cutoff control valve. 3,746,047, 7-17-73, Cl. 137-625.660.

Peters, Clifford Z.: *See—*
Beilke, James E.; and Schulke, Edward W. (said Schulke, Edward W., assor. to), 3,746,195.

Peters, David L., to Singer Company, The. Limited visibility simulation for a vehicle trainer visual system. 3,746,778, 7-17-73, Cl. 178-5.20r.

Peters, Donald E. Light-cord-concealing chain device. 3,771,309, 11-13-73, Cl. 59-78.100.

Peters, Donald L.: *See—*
Dunn, Lloyd G.; Morran, James R.; and Peters, Donald L., 3,730,383.
Dunn, Lloyd G.; Morran, James R.; and Peters, Donald L., 3,760,751.

Peters, Donald L.; and Wilson, Newton R., to Phillips Petroleum Company. Apparatus for cooling the blow pin and plastic molding material during blow molding operation. 3,717,429, 2-20-73, Cl. 425-387.000.

Peters, Edwin F., to Owens-Illinois, Inc. Transistor control apparatus. 3,777,182, 12-4-73, Cl. 307-268.000.

Peters, Ernest C.: *See—*
Cole, Edmund A., 3,707,826.

Peters, Erwin F., to Owens-Illinois, Inc. Transistor control apparatus. 3,777,183, 12-4-73, Cl. 307-268.000.

Peters, Francis E.: *See—*
Chai, Hi D.; Mills, Stephen H.; Pawletko, Joseph P.; Peters, Francis E.; and Young, Carl T., 3,745,495.
Kroft, John D.; Pawletko, Joseph P.; Peters, Francis E.; and Yount, Carl T., 3,711,804.

Peters, Franz, to Hergeth KG. Maschinenfabrik und Apparatebau. Regulator for feeding material to a processing machine. 3,715,041, 2-6-73, Cl. 214-17.0ca.

Peters, Gary J.; and Hermann, Stanley R., to National Cash Register Company, The. Transfer medium. 3,754,959, 8-28-73, Cl. 117-3.100.

Peters, Gavin H.: *See—*
Hilbelink, Ronald D.; and Peters, Gavin H., 3,725,501.

Peters, Gerardus Johannes Anthonius, to U.S. Philips Corporation, mesne. Semiconductor device having a closed conductive rubber ring clamped around all electric conductors. 3,723,834, 3-27-73, Cl. 317-234.00r.

Peters, Guilford B., to Brunswick Corporation. Coalescing filters for oil-water separators. 3,743,599, 7-3-73, Cl. 210-490.000.

Peters, Hans, to Henckels, J. A., Zwillingswerk, Firma. Method of manufacturing of knives. 3,714,850, 2-6-73, Cl. 76-104.000.

Peters, Henning: *See—*
Neuhaus, Heinz; and Peters, Henning, 3,707,881.

Peters, Jacobus Albertus Maria: *See—*
Van Vliet, Nicolaas Pieter; and Peters, Jacobus Albertus Maria, 3,708,511.

Peters, James: *See—*
Master, Harvey M.; Nugent, John L.; Hunt, Martin; and Peters, James, 3,716,785.

Peters, James R., to Universal Products Development Corporation. Self-watering flower pot. 3,775,904, 12-4-73, Cl. 47-38.100.

Peters, Johannes, to Bolkow Gesellschaft mit beschrankter Haftung. System for the interference-free radio transmission of signals. 3,733,552, 5-15-73, Cl. 325-122.000.

Peters, Joseph C.: *See—*
Bannister, John D.; Peters, Joseph C.; and Jordan, Michael, 3,719,086.

Peters, Joseph C.; and Cerulo, Louis J., to Damon Corporation. Sample conveyor and transport system. 3,724,638, 4-3-73, Cl. 198-24.000.

Peters, Karl-Heinz; and Neeff, Rutger, to Bayer Aktiengesellschaft. Anthraquinone dyestuffs. 3,720,693, 3-13-73, Cl. 260-377.000.

Peters, Kenneth, to Electric Power Storage Limited. Electric storage batteries. 3,716,412, 2-13-73, Cl. 136-34.000.

Peters, Leo. Packaging embossed-surfaced butter and margarine. 3,758,312, 9-11-73, Cl. 99-179.000.

Peters Machinery Company: *See—*
Talbot, Richard C.; Rose, Edward; and Roth, Hobert A., 3,719,020.

Peters, Manfred: *See—*
Gesell, Reinhard; Dinse, Wolfgang; Clement, Klaus; and Peters, Manfred, 3,744,362.

Peters, Palmer B.: *See—*
Sloan, John L.; and Peters, Palmer B., 3,731,390.

Peters, Philip H., Jr., to Environment/One Corporation. Metal base cookware induction heating apparatus having improved power supply and gating control circuit using infra-red temperature sensor and improved induction heating coil arrangement. 3,710,062, 9-9-73, Cl. 219-10.049.

Peters, Philip H., Jr.; and Matrone, John L., to Environment/One Corporation. Consumer oriented combined counter and cooking unit using induction heating. 3,740,513, 6-19-73, Cl. 219-10.490.

Peters, Philip H., Jr., to Environment/One Corporation. Induction cooking apparatus having pan safety control. 3,775,577, 11-27-73, Cl. 219-10.490.

Peters, Philip H., Jr., to Environment/One Corporation. Thermally insulated cookware for dynamic induction field heating and cooking apparatus. 3,777,094, 12-4-73, Cl. 219-10.490.





Peters, Ralph, to Hobson, H. M., Limited. Self-locking coupling. 3,727,958, 417-73, Cl. 287-95.000.

Peters, Randall W., to ESB Incorporated. Battery having zinc electrode containing $TiO_2$. 3,749,605, 7-31-73, Cl. 136-30.000.

Peters, Rudolph W. Pneumatic hand tool having automatic collet and brake. 3,712,386, 1-23-73, Cl. 173-46.000.

Peters, Rudolph W. Hand operated power tool and chuck therefor. 3,732,026, 5-8-73, Cl. 408-124.000.

Peters, Stanley A.: *See—*
Palmer, Charles E.; and Peters, Stanley A., 3,733,980.

Peters, Theodore F., to General Motors Corporation. Vehicle inertia sensor. 3,762,494, 10-2-73, Cl. 180-103.000.

Peters, Thomas E., to GTE Laboratories, Incorporated. Flying spot scanner having screen of strontium thiogallte coactivated by trivalent cerium and divalent lead. 3,742,277, 6-26-73, Cl. 313-92.0ph.

Peters, Thomas E., to GTE Laboratories, Incorporated. Terbium activated yttrium silicate phosphors. 3,758,413, 9-11-73, Cl. 252-301.40f.

Peters, Thomas W.: *See—*
Niebur, Bernard R.; and Peters, Thomas W., 3,741,187.

Peters, Walter B.: *See—*
Barnett, Irvin; and Peters, Walter B., 3,743,069.

Peters, Walter B.; and Barnett, Irvin, to Johns-Manville Corporation. Friction material and method of manufacture. 3,756,910, 9-4-73, Cl. 156-166.000.

Peters, Werner H. K., Maschinenfabrik GmbH: *See—*
Besemann, Alfred, 3,760,697.

Peters, Willard L. Money spray apparatus for theft identification. 3,730,110, 5-1-73, Cl. 109-25.000.

Peters, William H. Humidifier. 3,739,767, 6-19-73, Cl. 126-113.000.

Peters, Yolanda A.: *See—*
Michael, Keith W.; and Peters, Yolanda A., 3,719,697.

Petersdorf, Gerhard: *See—*
Knechtel, Wilhelm; Petersdorf, Gerhard; and Sandner, Winfried, 3,741,646.

Petersen, Alfred W., to Stauffer Chemical Company. Process for treating phosphate ore. 3,717,702, 2-20-73, Cl. 423-320.000.

Petersen, Arne J.; and Matsuyama, George, to Beckman Instruments, Inc. Method of making solid state glass electrode. 3,718,569, 2-27-73, Cl. 204-195.00g.

Petersen, Carl Mogens, III, to Irvin Industries, Inc. Seat belt control system. 3,757,293, 9-4-73, Cl. 340-52.00e.

Petersen, Carsten Georg Otto: *See—*
Ohrberg, Carl Verner; and Petersen, Carsten Georg Otto, 3,771,905.

Petersen, Donald Edwin, to Union Carbide Corporation. Cooling device. 3,736,769, 6-5-73, Cl. 62-530.000.

Petersen, Donald H.; and Schwemer, Warren C., to Advanced Technology Center, Inc., mesne. Plasma heating method. 3,711,615, 1-16-73, Cl. 13-1.000.

Petersen, Everett J., Jr.: *See—*
Rohrbaugh, Donald G.; and Petersen, Everett J., Jr., 3,724,765.

Petersen, Gerald A. Spread-legged staple retainer for excavating tooth. 3,751,834, 8-14-73, Cl. 37-142.00r.

Petersen, Hans-Gunther; and Requardt, Heiko, to Volkswagenwerk Aktiengesellschaft. Apparatus for the determination of internal combustion engine compression pressure. 3,713,331, 1-30-73, Cl. 73-117.200.

Petersen, Hans-Gunther; and Requardt, Heiko, to Volkswagenwerk Aktiengesellschaft. Apparatus for selecting different generator output ranges in accordance with the speed of a motor driving the generator. 3,728,627, 4-17-73, Cl. 324-158.00r.

Petersen, Harold E.; and Matthews, Richard A., to Pedima Corporation. Switching circuit for inverters and the like. 3,750,003, 7-31-73, Cl. 321-12.000.

Petersen, Harro: *See—*
Raff, Paul; Reuther, Wolfgang; Petersen, Harro; and Pommer, Ernst-Heinrich, 3,725,544.

Petersen, Harro, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of N-polyalkoxymethylamides. 3,712,926, 1-23-73, Cl. 260-561.00k.

Petersen, Harro; Fuchs, Friedrich; and Ruemens, Wilhelm, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Flameproofing agent for textile materials. 3,725,272, 4-3-73, Cl. 252-8.100.

Petersen Industries, Inc.: *See—*
Thompson, Larry O.; Gilbert, William J.; Thompson, Louis R.; Martin, James W., Jr.; and Clements, William Lamar, 3,713,554.

Petersen, John Valdemar Brammer; and Clauson-Kaas, Niels, to Ciba-Geigy Corporation. Method for preparing 2,3-pyridinediol. 3,711,490, 1-16-73, Cl. 260-297.00r.

Petersen, Jorgen Hartvig: *See—*
Hansen, Gunnar Lyshoj; and Petersen, Jorgen Hartvig, 3,744,508.

Petersen, Jorgen Hartvig; and Sturlason, Leif Viggo, to Danfoss A/S. Method for making non-return valves. 3,725,990, 4-10-73, Cl. 29-157.100.

Petersen, Kenneth C.; and Blowers, Charles A., to Schenectady Chemicals Incorporated. Halogenated methylol phenols. 3,752,780, 8-14-73, Cl. 260-25.000.

Petersen, Niel R., to MTS Systems Corporation. Drive train test stand. 3,712,127, 1-23-73, Cl. 73-118.000.

Petersen, Niel R., to MTS Systems Corporation. Testing apparatus utilizing position-force cross coupling control. 3,718,033, 2-27-73, Cl. 73-71.700.

Petersen, Oscar J., to Robertshaw Controls Company. High temperature and pressure capacitance probe. 3,748,551, 7-24-73, Cl. 317-246.000.

Petersen, Paul F. Cylindrical rotary strainer. 3,762,563, 10-2-73, Cl. 210-413.000.

Petersen, Paul I., to Dorr-Oliver Incorporated. Rotary pump having swash type impeller. 3,722,804, 3-27-73, Cl. 241-46.110.

Petersen, Poul; and Pedersen, Hans Kristian, to Danfoss A/S. Plug assembly with resistor. 3,750,082, 7-31-73, Cl. 338-320.000.

Petersen, Richard E.: *See—*
Wisotzky, Reuben; and Petersen, Richard E., 3,709,752.

Petersen, Ronald E.: *See—*
Harlan, Alfred R.; and Petersen, Ronald E., 3,765,685.

Petersen, Roon Norbert, to Dynamit Nobel Aktiengesellschaft. Chlorine-containing, thermostabilized polymers. 3,763,096, 10-2-73, Cl. 260-45.95l.

Petersen, Ross K.: *See—*
Borsheim, Lewis A., 3,740,932.

Petersen, Svend A. H.; and Neary, Padraic E., to Hanson Limited. Dial mounting for weighing scale. 3,759,338, 9-18-73, Cl. 177-173.000.

Petersen, Svend Aage; and Genson, Samuel Richard, to Johns-Manville Corporation. Apparatus for processing wound strand from filament forming materials. 3,770,402, 11-6-73, Cl. 65-11.00w.

Petersen, Walter Adrian, to International Nickel Company, Inc., The. Welding material. 3,770,427, 11-6-73, Cl. 75-171.000.

Petersen, William H.: *See—*
Peterman, Charles P.; Johnson, Glenn D.; and Petersen, William H., 3,739,844.

Petersik, Peter; and Gaertner, Rudolf, to Freudenberg, Carl, Firma. Spot-bonded mats and process for their manufacture. 3,765,974, 10-16-73, Cl. 156-84.000.

Petersilka, Ernest: *See—*
Scheininger, Ludwig; and Petersilka, Ernest, 3,751,028.

Peterson, Aivars V.: *See—*
Brewer, Howell K.; and Peterson, Aivars V., 3,750,733.

Peterson, Alan H.; and Dormish, Frank L., to Marathon Oil Company. Integrated hydrotreating and catalytic cracking system for refining sour crude. 3,775,290, 11-27-73, Cl. 208-50.000.

Peterson, Alan H.; and Dormish, Frank L., to Marathon Oil Company. Producing coke from hydrotreated crude oil. 3,775,294, 11-27-73, Cl. 208-89.000.

Peterson, Alton. Dowel pin extractor tool. 3,750,500, 8-7-73, Cl. 81-52.350.

Peterson, Anders Adolf, to Hardinge Brothers, Inc. Expanding collet and work gripping adaptor therefor. 3,716,246, 2-13-73, Cl. 279-2.000.

Peterson, Anders Adolf, to Hardinge Brothers, Inc. Adjustable tension feed chuck for machine tools. 3,756,612, 9-4-73, Cl. 279-41.00a.

Peterson, Arnold G.: *See—*
Maglio, Ralph; and Peterson, Arnold G., 3,726,569.

Peterson, Bertil E., to Cardwell Westinghouse Company. Device for removing draft gear. 3,744,116, 7-10-73, Cl. 29-252.000.

Peterson, Bertil G., to Tobin-Arp Manufacturing Company. Apparatus for cutting valve seats in engine castings. 3,728,940, 4-24-73, Cl. 90-12.500.

Peterson, Carl L.; and Webb, Edward A., to GTE Sylvania Incorporated. Harness for supporting high pressure electric discharge tube within outer envelope and lamp formed thereby. 3,714,485, 1-30-73, Cl. 313-25.000.

Peterson, Carl R., to United States of America, Navy. Parachute retarding tail assembly for bomb. 3,749,017, 7-31-73, Cl. 102-4.000.

Peterson, Charles D., Jr. Test plug. 3,762,432, 10-2-73, Cl. 137-317.000.

Peterson, Charles K.: *See—*
Frankel, Donald P.; and Peterson, Charles K., 3,752,090.

Peterson, Clifford D., to Cooper Manufacturing Company, Inc. Safety interlock system. 3,736,729, 6-5-73, Cl. 56-10.000.

Peterson, Curtis R.: *See—*
Carpenter, Robert E.; and Peterson, Curtis R., 3,723,390.

Peterson, David R.; and Conragan, James, to Signetics Corporation. Solid state bistable switching device and method. 3,758,797, 9-11-73, Cl. 307-324.000.

Peterson, David W., to General Motors Corporation. Railway traction motor and axle support bearing therefor. 3,765,734, 10-16-73, Cl. 308-132.000.

Peterson, Dean M., to Honeywell Inc. Quench control calculator. 3,730,064, 5-1-73, Cl. 95-10.00c.

Peterson, Dean M.; and Neukirchner, Peter H., to Honeywell Inc. Universal camera flash sensor bracket. 3,751,652, 8-7-73, Cl. 240-1.300.





Peterson, Dean McCormack; and Veenendaal, Cornelis T., to Peterson, John Allan, to Honeywell Information Systems, Inc. Docu-





Peterson, Robert S.; and Cook, John W., to Westinghouse Electric

Peterson, Dean McCormack; and Veenendaal, Cornelis T., to Honeywell Inc. Slide projector. 3,765,756, 10-16-73, Cl. 353-83.000.
Peterson, Dean McCormack, to Honeywell Inc. Slide projector. 3,779,636, 12-18-73, Cl. 353-83.000.
Peterson, Dennis C.: *See—*
Rowland, Richard C.; Mahood, James A.; Jessee, Norman P.; Geer, Robert W.; and Peterson, Dennis C., 3,737,863.
Peterson, Donald E., to Amana Refrigeration, Inc. Circuit protector. 3,717,793, 2-20-73, Cl. 317-40.00a.
Peterson, Donald E., to Allis-Chalmers Manufacturing Company. Torsion bar draft load adjuster. 3,722,598, 3-27-73, Cl. 172-10.000.
Peterson, Donald E., to Amana Refrigeration, Inc. Magnetron starting circuit. 3,752,948, 8-14-73, Cl. 219-10.550.
Peterson, Donald J., to Procter & Gamble Company, The. Method of controlling weeds with organotin compounds. 3,723,089, 3-27-73, Cl. 71-94.000.
Peterson, Donald J., to Procter & Gamble, Company, The. (Phenyl thiomethyl) trialkyltin compounds and phenyl substituted derivatives. 3,725,446, 4-3-73, Cl. 260-429.700.
Peterson, Donald O.: *See—*
Wiser, Charles E.; and Peterson, Donald O., 3,742,876.
Peterson, Donald W.: *See—*
Heinig, Howard G.; and Peterson, Donald W., 3,754,784.
Peterson, Donald W.; and Wyczalek, Floyd A., to General Motors Corporation. Vehicle fuel tank venting system. 3,752,135, 8-14-73, Cl. 123-136.000.
Peterson, Donald William: *See—*
Gibson, John James; and Peterson, Donald William, 3,721,990.
Peterson, Donovan F. Control circuit for regulating electric motor speed. 3,774,094, 11-20-73, Cl. 318-331.000.
Peterson, Earl A. Constantly slipping clutch control for rotary drilling. 3,716,106, 2-13-73, Cl. 173-1.000.
Peterson, Earl A. Hoisting apparatus employing unitary clutch and brake assembly. 3,738,614, 6-12-73, Cl. 254-187.000.
Peterson, Earl A. Towing winch. 3,780,989, 12-25-73, Cl. 254-173.00r.
Peterson, Edward C.; and Davis, Ernest E., to Rolling Mill Engineers, Inc. Roller guide. 3,709,346, 1-9-73, Cl. 193-35.00c.
Peterson, Ernest W., to Ralston Purina Company. Multi-purpose cooker. 3,709,142, 1-9-73, Cl. 99-357.000.
Peterson, Evald O.: *See—*
Rogers, William H.; and Peterson, Evald O., 3,769,924.
Peterson, Ewald O.: *See—*
Dunlap, Robert B.; and Peterson, Ewald O., 3,728,985.
Peterson, Francis C., to Hager, C., & Sons Hinge Manufacturing Company. Hinge mounted microswitch with adjustable actuator pin mounted on adjacent leaf. 3,715,537, 2-6-73, Cl. 200-61.700.
Peterson, Frank C.; and Theard, Leslie P., to Gulf Oil Corporation. Thermosettable sheet molding compound and method of making. 3,713,927, 1-30-73, Cl. 156-62.600.
Peterson, Frank C.; and Theard, Leslie P., to Gulf Oil Corporation. Polymerizable intermediates containing olefin anhydride copolymer and copolymer of unsaturated oxirane and unsaturated anhydride. 3,717,557, 2-20-73, Cl. 204-159.150.
Peterson, Fred D., to Peterson Products of San Mateo, Inc. Railroad signal battery box. 3,741,815, 6-26-73, Cl. 136-166.000.
Peterson, Frederick L.; and Paclik, George F., to Garrett Corporation, The. Electronic mass airflow sensing and control system. 3,757,808, 9-11-73, Cl. 137-2.000.
Peterson, Gary E.: *See—*
Frey, Gerald J.; and Peterson, Gary E., 3,729,254.
Peterson, George C.: *See—*
Motz, Carl H.; Anthony, Russell W.; and Peterson, George C., 3,738,140.
Peterson, Glen, to Stoplifter International, Inc., mesne. Deactivatable ferromagnetic marker for detection of objects having marker secured thereto and method and system of using same. 3,747,086, 7-17-73, Cl. 340-280.000.
Peterson, Hal D., to Molybdenum Corporation of America. Solvent extraction process for the recovery of molybdenum and rhenium from molybdenite. 3,751,555, 8-7-73, Cl. 423-49.000.
Peterson, Harry L.; and Fellows, Alfred L. Lighted disk-type flight toy and components thereof. 3,720,018, 3-13-73, Cl. 46-228.000.
Peterson, Henry: *See—*
Durrell, Harold, 3,762,910.
Peterson, Howard: *See—*
Smith, David R.; and Peterson, Howard, 3,714,106.
Smith, David R.; and Peterson, Howard, 3,736,303.
Peterson, James Thomas; and Shida, Mitsuzo, said Peterson assor. to American Can Company and said Shida assor. to Chemplex Company. Method for preparing a dimensionally stable waxed polyethylene sheet. 3,751,281, 8-7-73, Cl. 117-7.000.
Peterson, Jeffrey D.: *See—*
Ayres, James L.; Peterson, Jeffrey D.; and Palmer, John R., 3,772,038.
Peterson, John A.: *See—*
Dorsey, Edward G., Jr.; Peterson, John A.; and Lund, Robert K., 3,749,615.
Peterson, John Allan, to Honeywell Information Systems, Inc. Document separator for accidental bunching. 3,754,754, 8-28-73, Cl. 271-36.000.
Peterson, John Allan, to Honeywell Information Systems, Inc. Document loader. 3,759,509, 9-18-73, Cl. 271-150.000.
Peterson, John Allan; and Johnson, Jerome L., to Honeywell Information Systems, Inc. Aligning device. 3,762,700, 10-2-73, Cl. 271-49.000.
Peterson, John B., to Grace, W. R., & Co. Storage and dispensing rack. 3,743,104, 7-3-73, Cl. 211-60.000.
Peterson, John E. Container with removal side panels. 3,712,504, 1-23-73, Cl. 220-84.000.
Peterson, John F.: *See—*
Hosmer, Thomas P.; and Peterson, John F., 3,717,201.
Peterson, John L., to United States of America, Health, Education, and Welfare. Scintillation analysis system. 3,776,695, 12-4-73, Cl. 23-230.0pc.
Peterson, John Merriam: *See—*
Hall, William Cornelius; and Peterson, John Merriam, 3,751,387.
Peterson, Karl Verner: *See—*
Gelfgren, Erik Kurt Hannes; Peterson, Karl Verner; and Sundin, Olle, 3,726,382.
Peterson, Kenneth A.: *See—*
Kuhn, Gerald D.; Peterson, Kenneth A.; Roeschlein, Eugene R.; Weiss, Donald C.; Weiss, Kenneth F.; and Zeph, David L., 3,781,776.
Peterson, Kenneth E.: *See—*
Block, Forest E.; and Peterson, Kenneth E., 3,730,029.
Peterson, Leavitt A.: *See—*
Freeman, William H.; Peterson, Leavitt A.; and Wandrisco, Joseph M., 3,718,040.
Peterson, Lenart A.; and Finley, John G., to Phillips Petroleum Company. Reusable, tear-resistant polyolefin-paper laminate. 3,752,732, 8-14-73, Cl. 161-165.000.
Peterson, Lonn M. Live-bait fish-hook. 3,778,921, 12-18-73, Cl. 43-44.800.
Peterson, Louis H.; and Rogers, Edward F., to Merck & Co., Inc. 4-(and 5-) -Loweralkoxycarbonylamino-1-naphthyl-N-loweralkylcarbamates. 3,776,943, 12-4-73, Cl. 260-471.00c.
Peterson Manufacturing Company: *See—*
Gernhardt, Paul D.; and Slater, Charles A., Jr., 3,778,016.
Peterson, Maurice L. Movable feed bunk. 3,719,170, 3-6-73, Cl. 119-52.0af.
Peterson, Norman L.: *See—*
Haker, Edwin J.; and Peterson, Norman L., 3,778,177.
Peterson, Norman L.; and Buelow, William H., to Rex Chainbelt Inc. Mixing timer. 3,710,217, 1-9-73, Cl. 318-470.000.
Peterson, Otis G.: *See—*
Reynolds, George A.; Tuccio, Sam A.; Peterson, Otis G.; and Specht, Donald P., 3,753,146.
Peterson, Paul H.; and Thon, Duwayne M., to Winzen Research, Inc. Apparatus for measuring variations in thickness of elongated samples of thin plastic film. 3,764,899, 10-9-73, Cl. 324-61.00r.
Peterson Products of San Mateo, Inc.: *See—*
Peterson, Fred D., 3,741,815.
Peterson, Raymond R., to General Motors Corporation. Stamped brake pedal. 3,744,340, 7-10-73, Cl. 74-560.000.
Peterson, Reuben W.: *See—*
Anderson, Clifford J.; and Peterson, Reuben W., 3,780,306.
Peterson, Reuben W.; Backus, Harold A.; and Anderson, Clifford J., to N L Industries, Inc. Shipping container for radioactive material. 3,731,101, 5-1-73, Cl. 250-108.00r.
Peterson, Reuben W., to N L Industries, Inc. Shipping container for radioactive material. 3,731,102, 5-1-73, Cl. 250-108.00r.
Peterson, Reuben W., to National Lead Company. Shipping container for radioactive material. 3,732,423, 5-8-73, Cl. 250-108.00r.
Peterson, Richard H. Rapid responding photoelectric attenuator system. 3,725,664, 4-3-73, Cl. 250-205.000.
Peterson, Richard H. Harmonic synthesis organ system. 3,757,023, 9-4-73, Cl. 84-1.110.
Peterson, Robert A., to Raytheon Company. Twisted waveguide applicator. 3,715,551, 2-6-73, Cl. 219-10.550.
Peterson, Robert A.; and Stroot, Donald H., to Caterpillar Tractor Company. Bucket arrangement. 3,737,059, 6-5-73, Cl. 214-145.000.
Peterson, Robert A.; and Gilliatt, Charles L., to Raytheon Company. Microwave heating applicator. 3,745,291, 7-10-73, Cl. 219-10.550.
Peterson, Robert A., to Raytheon Company. Microwave melter apparatus. 3,748,421, 7-24-73, Cl. 219-10.550.
Peterson, Robert A., to Caterpillar Tractor Company. Stabilizer for articulated wheel loaders. 3,759,541, 9-18-73, Cl. 280-112.00r.
Peterson, Robert A., to Caterpillar Tractor Company. Log skidder. 3,762,584, 10-2-73, Cl. 214-85.500.
Peterson, Robert A. Foot worn two-wheeled vehicle. 3,767,220, 10-23-73, Cl. 280-11.200.
Peterson, Robert F., to United States of America, Navy. Speed and bearing integrator. 3,764,720, 10-9-73, Cl. 35-10.400.



Peterson, Robert S.; and Cook, John W., to Westinghouse Electric Corporation. Automatic gauge control system for tandem rolling mills. 3,740,983, 6-26-73, Cl. 72-16.000.
Peterson, Robert S., to Westinghouse Electric Corporation. Automatic gauge control by tension for tandem rolling mills. 3,765,203, 10-16-73, Cl. 72-9.000.
Peterson, Robert S., to Westinghouse Electric Corporation. Interstand tension regulator for a multistand rolling mill. 3,768,286, 10-30-73, Cl. 72-9.000.
Peterson, Robert S.; and Hensleigh, Melvin A., to Westinghouse Electric Corporation. Proportional integrator squared (PI) 2 speed controller for utilization in a speed regulator system. 3,775,653, 11-27-73, Cl. 318-326.000.
Peterson, Ronald L., to Westinghouse Electric Corporation. Skimmer mechanism for a waste flotation cell. 3,741,399, 6-26-73, Cl. 210-525.000.
Peterson, Roy H.: *See—*
Pannell, Otis R.; and Peterson, Roy H., 3,744,072.
Peterson, Roy L. Ski boot. 3,727,329, 4-17-73, Cl. 36-2.5al.
Peterson, Russell I., Jr.; and Coady, David R., to Cumberland Engineering Company, Inc. Apparatus for feeding sheet material. 3,743,155, 7-3-73, Cl. 226-171.000.
Peterson, Russell I., Jr., to Cumberland Engineering Company, Inc. Plastic cutting machine. 3,760,673, 9-25-73, Cl. 83-349.000.
Peterson, Sheldon T.: *See—*
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Peterson, Stanley G., to Minnesota Mining and Manufacturing Company. Inking cover. 3,714,693, 2-6-73, Cl. 29-132.000.
Peterson, Stanley G., to Minnesota Mining and Manufacturing Company. Inking sleeve. 3,724,047, 4-3-73, Cl. 29-129.500.
Peterson, Stanley V.: *See—*
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Peterson, Stephen G. Container supporting pedestal for cargo-carrying vehicles. 3,719,794, 3-6-73, Cl. 105-366.00d.
Peterson, Terry J.: *See—*
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Peterson, Thomas G.; and Giguere, Irving J., to Superior Electric Company, The. Output voltage adjusting circuit. 3,723,852, 3-27-73, Cl. 323-8.000.
Peterson, Vincent Carl, to American Chain & Cable Company, Inc. Cable system. 3,717,325, 2-20-73, Cl. 254-175.700.
Peterson, Virgil V., 1/2 each to Mitchell, Dean W. and Smith, James B. Hydraulically operated elevator feeder. 3,752,296, 8-14-73, Cl. 198-94.000.
Peterson, Wallace. Animal tail holder. 3,736,906, 6-5-73, Cl. 119-105.000.
Peterson, Walter Raymond, to RCA Corporation. Overcurrent protection circuit for a voltage regulator. 3,711,763, 1-16-73, Cl. 323-9.000.
Peterson, Warren J., to Joerns Furniture Company. Electric hospital bed. 3,710,404, 1-16-73, Cl. 5-68.000.
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Peterson, Warren S.; and Tyler, Clarence M., Jr., to Olin Corporation. Porous or foamed metal energy absorption device. 3,712,589, 1-23-73, Cl. 256-13.100.
Peterson, Wayne A.; and Wirtz, Edward A., to Caterpillar Tractor Company. Hydraulic implement control circuit. 3,709,100, 1-9-73, Cl. 91-189.000.
Peterson, Wayne L.; Blinne, David L.; and Sanderson, Robert W., III, to International Harvester Company. Self positioning seat. 3,747,723, 7-24-73, Cl. 180-77.00s.
Peterson, Wesley G., to Sola Basic Industries, Inc. Sensitive ground fault meter and detector utilizing a double side band frequency current generator. 3,710,238, 1-9-73, Cl. 324-51.000.
Peterson, Willard D., to Occidental Petroleum Corporation. Extraction of boron from aqueous solutions with salicylic acid derivatives. 3,741,731, 6-26-73, Cl. 23-312.00r.
Peterson, William A., Jr.: *See—*
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Peterson, William C. Apparatus for removing overlapped siding materials. 3,758,946, 9-18-73, Cl. 30-257.000.
Peterson, William D., to Weyher Construction Company. Self-tilting trowel for concrete. 3,729,765, 5-1-73, Cl. 15-235.800.
Peterson, William H., to Pullman Incorporated. Lateral motion railway car truck. 3,754,514, 8-28-73, Cl. 105-171.000.
Peterson, William R., Jr.: *See—*
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Petersson, Ralf Krister Ebbe; and Holmberg, Bengt Roland, to Kalmar Verstaids AB. Supporting leg structures. 3,781,035, 12-25-73, Cl. 280-150.500.
Petetin, Paul Arsene Jean Gabriel. Method and means for constructing and transporting prefabricated houses. 3,747,788, 7-24-73, Cl. 214-512.000.
Pethis, James J., to Textron, Inc. Reversible shield-seal for a bearing. 3,709,572, 1-9-73, Cl. 308-187.200.
Petiet, Jakobus, to N.V. Leidsche Apparatenfabriek. Positioning device for conical subjects. 3,709,354, 1-9-73, Cl. 198-33.0aa.
Petiet, Jakobus, to N.V. Leidsche Apparatenfabriek. Selection apparatus. 3,710,921, 1-16-73, Cl. 198-33.0aa.
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Petit, Pierre, to L'Air Liquide Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Process for separation of ternary gaseous mixtures by rectification. 3,729,943, 5-1-73, Cl. 62-22.000.
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Petitjean, Marc; and Rollet, Georges, to Ugine Kuhlmann. Purification of sodium aluminate solutions. 3,728,432, 4-17-73, Cl. 423-121.000.
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Petrecz, Michael F., to Little Warrior Co. Electric shock protection device. 3,722,788, 3-27-73, Cl. 231-2.00e.
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Petrick, John T. Well casing cutter and sealer. 3,766,979, 10-23-73, Cl. 166-55.000.
Petrides, Christie, to General Electric Company. Simulate pendulum clock. 3,762,154, 10-2-73, Cl. 58-29.000.
Petrie, Adelore F., to Hammond Corporation. Organ system for automatically producing runs of various character. 3,780,203, 12-18-73, Cl. 84-1.170.
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Petrie, William E. Collapsible tree stand. 3,731,895, 5-8-73, Cl. 248-48.000.
Petrie, William E. Pipe support. 3,735,973, 5-29-73, Cl. 269-296.000.
Petrik, Albert V. Vertical alignment gauge. 3,715,808, 2-13-73, Cl. 33-347.000.
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Petrikovsky, Efim Lvovich. Device for marking flat surfaces of articles. 3,731,619, 5-8-73, Cl. 101-4.000.
Petrikovsky, Efim Lvovich. Marking device. 3,735,725, 5-29-73, Cl. 118-7.000.
Petrikovsky, Efim Lvovich. Machine for marking cylindrical articles. 3,780,557, 12-25-73, Cl. 72-92.000.
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Petrille, Dennis G., to Du Pont de Nemours, E. I., and Company. Drawing and bulking polyester yarns. 3,771,307, 11-13-73, Cl. 57-157.0ts.
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Petro, James; and Rively, Clair M., to Westinghouse Electric Corporation. Beaded coils for electric lamps and similar devices. 3,778,664, 12-11-73, Cl. 313-344.000.
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Pettengill, Donald Herbert; and Bass, Merlyn Duane, to Deere & Company. Crop conditioner drive. 3,780,505, 12-25-73, Cl. 56-14.400.
Petter, Noel A., to Standard Paper Box Corporation. Sterile package and blank therefor. 3,727,750, 4-17-73, Cl. 206-63.20r.
Petterec, Robert E., to Bell & Howell Company. Film strip projector. 3,722,771, 3-27-73, Cl. 226-51.000.
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Petterson, Dewitt R.; Assenza, John S.; and Kipp, Henry A. W., to Johnson & Johnson. Blood collecting shut-off valve. 3,734,080, 5-22-73, Cl. 128-2.00f.
Petterson, Tor H., to Hoffman Electronics Corporation. Audio visual display apparatus. 3,751,151, 8-7-73, Cl. 353-19.000.
Pettersson, Sven Goran. Apparatus for mounting film transparencies. 3,707,755, 1-2-73, Cl. 29-200.00b.
Pettet, Ronald Sidney, to De La Rue Instruments Limited. Discriminating apparatus for moving translucent sheets. 3,731,916, 5-8-73, Cl. 271-57.000.
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Pettigrew, David D., to Rockwell International Corporation. Variable diameter pulley. 3,762,231, 10-2-73, Cl. 74-230.17f.
Pettigrew, David D., to Rockwell Manufacturing Company. Drill press. 3,762,830, 10-2-73, Cl. 408-135.000.
Pettigrew, David D.; and Vaughn, Richard. Rotary cutting blade. 3,780,780, 12-25-73, Cl. 144-238.000.
Pettigrew, Robert, to Lever Brothers Company. Detergent compositions. 3,725,286, 4-3-73, Cl. 252-89.000.
Pettinato, Ferdinand E.: *See—*
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Pettipiece, Kenneth J., to United States of America, Atomic Energy Commission. Electrical wave pumped pulsed laser. 3,753,152, 8-14-73, Cl. 331-94.500.
Pettis, Charles R., Jr.; and Del Russo, Victor, to Hi-Speed Checkweigher Co., Inc. Buffer conveyor. 3,756,373, 9-4-73, Cl. 198-75.000.
Pettit, Alexander, to Pilkington Perkin-Elmer Limited. Optical display systems. 3,738,733, 6-12-73, Cl. 350-174.000.
Pettit, Charles A. Storable elevating platform. 3,737,055, 6-5-73, Cl. 214-77.00p.
Pettit, Frederick S.: *See—*
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Pettit, George R.; and Dias, Jerry R., to Research Corporation. Oxidation of 3-oxo-4 oxa-5 β-cholestane. 3,763,228, 10-2-73, Cl. 260-514.00g.



Pettit, Glenn A., to Rosemount Inc. Plastic extruder temperature control system. 3,733,059, 5-15-73, Cl. 259-191.000.
Peyraud, Serge; and Freiche, Jean, to Cegedur GP. Apparatus for continuous vertical casting. 3,763,924, 10-9-73, Cl. 164-283.000.



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powders from liquefied gas suspensions. 3,734,400, 5-22-73, Cl.

Pettit, Glenn A., to Rosemount Inc. Plastic extruder temperature control system. 3,733,059, 5-15-73, Cl. 259-191.000.
Pettit, Marshall G. Ambulatory system. 3,780,663, 12-25-73, Cl. 104-1.00r.
Pettitt, David J., to Kelco Company. Graft copolymers of xanthomonas hydrophilic colloid and acrylic monomer. 3,708,446, 1-2-73, Cl. 260-17.4gc.
Pettitt, David J.; and Noto, Vincent H., to Kelco Company. Process for the preparation of propylene glycol alginate from partially neutralized alginic acid. 3,772,266, 11-13-73, Cl. 260-209.600.
Petty, Billy Joe: *See—*
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Petty, William D., to Owens-Illinois, Inc. Line isolation and address multiplexing system for gas discharge display matrix. 3,749,971, 7-31-73, Cl. 315-169.0tv.
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Petyt, Colin Roderick, to Avery-Hardoll Limited and Beck & Co. (Meters) Limited. Liquid dispensing apparatus. 3,716,166, 2-13-73, Cl. 222-15.000.
Petzetakis, Aristovoulos G. Braiding machine. 3,748,952, 7-31-73, Cl. 87-29.000.
Petzetakis, Aristovoulos G. Pipe and tube coupling. 3,781,041, 12-25-73, Cl. 285-111.000.
Petzetakis, Nicholas G., to Unifoam A.G., mesne. Method for producing polyurethane foam blocks which have flat upper surfaces. 3,719,734, 3-6-73, Cl. 264-51.000.
Petzetakis, Nicholas George, to Hellenic Plastics and Rubber Industry N & M Petzetakis S.A. Apparatus for production of polymeric foam. 3,751,197, 8-7-73, Cl. 425-4.000.
Petzi, Fritz; and Baumann, Helmut. Electrical ceiling heating in tunnel kilns. 3,743,753, 7-3-73, Cl. 13-25.000.
Petzold, Jurgen, to Volkswagenwerk Aktiengesellschaft. Process for controlling spot welding and non-destructive testing of spot-welded joints. 3,746,829, 7-17-73, Cl. 219-110.000.
Petzoldt, Klaus: *See—*
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Peuchen, Wilfred S.; and Pase, Glenwood K., to Peuchen, Inc. Method and apparatus for drying a gas and chilling it to low temperatures. 3,750,415, 8-7-73, Cl. 62-93.000.
Peuschel, Gerd; and Hagedorn, Fritz, to Kali-Chemie Aktiengesellschaft. Process of and apparatus for therometric analysis. 3,716,333, 2-13-73, Cl. 23-230.00r.
Peuterbaugh, Bruce G., to LaSalle Machine Tool, Inc. Machine tool system. 3,741,048, 6-26-73, Cl. 82-2.500.
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Pews, R. Garth; and Rodia, Ralph M., to Dow Chemical Company, The. Carbamate esters of dichloro-nitro-alkoxy- and dichloro-nitro-hydroxyalkoxy-phenols. 3,746,739, 7-17-73, Cl. 260-468.00e.
Pews, Richard Garth: *See—*
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Peyman, Gholam A.; and Dodich, Nicholas A., to University of California, The Regents of the. Ophthalmic instrument. 3,776,238, 12-4-73, Cl. 128-305.000.
Peyraud, Jacques, to Societe Centrale Des Emballages Alluminum (Cebal). Apparatus for producing a sealing joint between thin sheets. 3,728,200, 4-17-73, Cl. 156-583.000.
Peyraud, Serge; and Freiche, Jean, to Cegedur GP. Apparatus for continuous vertical casting. 3,763,924, 10-9-73, Cl. 164-283.000.
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Peyrot, Jean: *See—*
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Peyrot, Jean, to Compagnie Francaise de Raffinage. Grafted copolymer with two sequences of recurring units and methods of producing same. 3,769,368, 10-30-73, Cl. 260-877.000.
Peyrot, Jean-Pierre. Mobile fluid-tight sealing device. 3,719,791, 3-6-73, Cl. 219-121.0eb.
Peyrot, Jean-Pierre. Self-centering clamp for butt-welding tubes. 3,743,812, 7-3-73, Cl. 219-60.00a.
Peyrot, Jean-Pierre. Rotatable welding gun. 3,754,114, 8-21-73, Cl. 219-125.00r.
Peyrot, Jean-Pierre. Vacuum chamber with static mobile sealing joints. 3,757,076, 9-4-73, Cl. 219-121.0eb.
Peyser, Harry A.: *See—*
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Peyser, Leonard F.; and Leschanz, Karl, to Machlett Laboratories, Incorporated, The. Cassette direction detector. 3,770,975, 11-6-73, Cl. 250-491.000.
Peyser, Leonard F., to Machlett Laboratories, Incorporated, The. Cassette locking mechanism. 3,777,162, 12-4-73, Cl. 250-468.000.
Peytavin, Pierre; and Babel, Louis, to Societe Civile d'Etudes de Centrifugation. Mold for continuous centrifugal casting. 3,736,980, 6-5-73, Cl. 164-283.000.
Peytavin, Pierre, to Societe Anonyme dite:-Valloures (Usines a Tubes de Lorraine-Escaut et Vallourec Reunies). Tube rolling mill. 3,740,988, 6-26-73, Cl. 72-238.000.
Peyton, Edward D.: *See—*
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Peyton, Keith S.; and Jolly, Michael D. Pressure activated heat absorbing or emitting detection system. 3,780,615, 12-25-73, Cl. 89-1.00a.
Pez, Guido P., to Allied Chemical Corporation. Metal-organo compounds with sterically exposed metal-metal bonds, and a method for their production. 3,776,932, 12-4-73, Cl. 260-429.300.
Pezaris, Constantine D.; and Trame, Paul J., to Thermo Electron Corporation. Vapor engine speed control. 3,748,966, 7-31-73, Cl. 91-364.000.
Pezza, Salvatore, to Alfa Romeo S.p.A. Control pedal for motor vehicles. 3,774,471, 11-27-73, Cl. 74-560.000.
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Pezzuiti, David August, to Bell Telephone Laboratories, Incorporated. Digital frequency comparator. 3,753,130, 8-14-73, Cl. 328-141.000.
Pezzuiti, David August, to Bell Telephone Laboratories, Incorporated. Retriggerable one-shot multivibrator. 3,768,026, 10-23-73, Cl. 328-207.000.
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Pfaffendorf, James L.; and Johnson, Marlyn D., to Fidelity File Box, Inc. Fiberboard file cabinet and drawer glide structure. 3,740,109, 6-19-73, Cl. 312-261.000.
Pfaffle, Ernst, to Sickinger, Hans, Company. Web printing means. 3,713,420, 1-30-73, Cl. 118-212.000.
Pfaffle, Ernst, to Sickinger, Hans, Company. Paper punching machine. 3,739,672, 6-19-73, Cl. 83-256.000.
Pfaffle, Ernst, to Sickinger, Hans, Company. Lift forming device for book punching machine. 3,757,970, 9-11-73, Cl. 214-8.50f.
Pfaffmann, George D.; and Hammond, Michael R., to Park-Ohio Industries, Inc. Apparatus for inductively heating valve seats. 3,737,612, 6-5-73, Cl. 219-10.790.
Pfaffmann, George D., to Park-Ohio Industries, Inc. System and method for measuring input energy for an induction heating installation. 3,746,825, 7-17-73, Cl. 219-10.770.
Pfaler, Carl-Eric V., to Siemens Aktiengesellschaft. Electromagnetic levitation guide. 3,741,613, 6-26-73, Cl. 308-10.000.
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Pfarrwaller, Erwin, to Sulzer Brothers Limited. Weaving machine. 3,707,995, 1-2-73, Cl. 139-1.000.
Pfarrwaller, Erwin, to Sulzer Brothers Limited. Yarn clamping mechanism. 3,712,345, 1-23-73, Cl. 139-125.000.
Pfarrwaller, Erwin, to Sulzer Brothers Limited. Loom having a common frame for the warp and cloth beams. 3,724,513, 4-3-73, Cl. 139-1.000.
Pfarrwaller, Erwin, to Sulzer Brothers Limited. Storage apparatus for filamentary material. 3,761,031, 9-25-73, Cl. 242-47.010.
Pfarrwaller, Erwin, to Sulzer Brothers Limited. Sley. 3,770,024, 11-6-73, Cl. 139-188.000.
Pfarrwaller, Erwin, to Sulzer Brothers Limited. Method and apparatus for weaving terry cloth. 3,779,286, 12-18-73, Cl. 139-25.000.
Pfau, Jean; and Schaidl, Hubert, to Ateliers des Charmilles S.A. Electro-erosion machining apparatus. 3,739,135, 6-12-73, Cl. 219-69.00g.
Pfefer, Irving. Bulk film loader. 3,768,748, 10-30-73, Cl. 242-71.700.
Pfeffer, Josef: *See—*
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Pfeffer, Philippe. Treating skin and scalp conditions. 3,761,595, 9-25-73, Cl. 424-273.000.
Pfeffer, William J. Paint brush wiper. 3,776,415, 12-4-73, Cl. 220-90.000.
Pfefferle, Donald H.; and Fink, William C., to Sylvania Electric Products, Inc. Percussive photoflash lamp and method of securing anvil thereof. 3,765,079, 10-16-73, Cl. 29-517.000.
Pfeifer, Charles W.; and Bobear, William J., to General Electric Company. Flame retardant compositions. 3,711,520, 1-16-73, Cl. 260-37.0sb.
Pfeifer, Georg. Life preserver. 3,750,205, 8-7-73, Cl. 9-345.000.
Pfeifer, Josef: *See—*
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Pfeifer, Josef; Ambraschka, Kasimir; Koopmann, Adolf; Hofmann, Wilfried; Dietrich, Karl-Heinz; and Rauffer, Walter, to Agfa-Gevaert Aktiengesellschaft. Microfilm reading apparatus. 3,718,391, 2-27-73, Cl. 353-101.000.
Pfeifer, Josef; Hofmann, Wilfried; and Dietrich, Karl-Heinz, to Agfa-Gevaert Aktiengesellschaft. Microfilm coding method and apparatus. 3,750,553, 8-7-73, Cl. 95-1.100.
Pfeifer, Josef; Eigner, Horst; and Hofmann, Wilfried, to Agfa-Gevaert Aktiengesellschaft. Container for photographic film or the like. 3,773,409, 11-20-73, Cl. 325-75.000.
Pfeifer, Robert J.: *See—*
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Pfeiffer, Albert: *See—*
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Pfeiffer, Hans Walter: *See—*
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Pfeiffer, Heinrich, to Dieffenbacher G.m.b.H. Heating platen press. 3,775,033, 11-27-73, Cl. 425-109.000.
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Pfeiffer, Kurt; Dietrich, Johannes; Schonberg, Karl-Heinz; and Beckmann, Gunter, to Chemische Werke Huls Aktiengesellschaft. Process for the preparation of dry thermoplastic synthetic resin powders from liquefied gas suspensions. 3,734,400, 5-22-73, Cl. 23-11.000.
Pfeiffer, Norman O., to Little Wonder, Inc. Cordless electric hand tiller. 3,710,870, 1-16-73, Cl. 172-40.000.
Pfeiffer, Ralph R.; and Yang, Kuo Shang, to Lilly, Eli, and Company. Recovery of cephalothin salts. 3,714,154, 1-30-73, Cl. 260-243.00c.
Pfeiffer, Richard D. Method for assembling a differential. 3,708,857, 1-9-73, Cl. 29-407.000.
Pfeiffer, Rolf D.; and Gruenberg, Wolf, to Honeywell G.m.b.H. Method of and apparatus for automatically clearing a directive gun from obstacle. 3,731,589, 5-8-73, Cl. 89-41.00c.
Pfeil, Wolfgang: *See—*
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Pfender, Georg, to Wehrle-Werk AG., Firma. Lapping machine for the production of reinforcement baskets with bell sleeve. 3,718,797, 2-27-73, Cl. 210-56.000.
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Pfenning, Hans, to Bach & Co. Relay, especially miniature relay. 3,735,297, 5-22-73, Cl. 335-203.000.
Pfenning, Hans, to Bach & Co. Electromagnetic relay. 3,750,060, 7-31-73, Cl. 335-135.000.
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Pfeuffer, Alfred; Kalkhof, Gustav; Weber, Helmut; and Ludtke, Arnold, to Messer Griesheim G.m.b.H. Method of transporting and positioning continuous casting butts. 3,730,780, 5-1-73, Cl. 148-9.000.
Pfeuffer, Alfred; Weber, Helmut; and Joachem, Hans, to Messer Griesheim G.m.b.H. Flame cutting apparatus for bars. 3,767,178, 10-23-73, Cl. 266-23.00k.
Pfeuffer, Anton. Dissolver for solid and liquid materials. 3,759,491, 9-18-73, Cl. 259-4.000.
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Pfiffner, Harold J., to Hughes Aircraft Company. Precision switching circuit for analog signals. 3,740,581, 6-19-73, Cl. 307-251.000.
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Pfister, Alain; Arretz, Emmanuel; and Donche, Alain, to Societe Nationale des Petroles d'Aquitaine tour Aquitaine. Preparation of alpha-dithiols. 3,781,366, 12-25-73, Cl. 260-609.00r.
Pfister, Hans; and Diepers, Heinrich, to Siemens Aktiengesellschaft. Method of producing a composite tubular superconductor. 3,777,368, 12-11-73, Cl. 29-599.000.
Pfister, Karl; Sletzinger, Meyer; and Hinkley, David F., to Merck & Co., Inc. Esters of indenyl alkanoic acids. 3,752,844, 8-14-73, Cl. 260-470.000.
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Phillips, Floyd W. Trailer hitch anti-breakaway device. 3,770,298, 11-6-73, Cl. 280-457.000.

Phillips, Francis Mark. Milking machines. 3,765,373, 10-16-73, Cl. 119-14.040.

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Phillips, Gordon Hanley: *See—*
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Phillips, Henry A.; and Minnich, Reynold E. Method of and mixer block for feeding a stream of viscous material. 3,737,148, 6-5-73, Cl. 259-4.000.

Phillips, Herman L. Filling feeler device for looms. 3,759,301, 9-18-73, Cl. 139-281.000.

Phillips, Hugh Edmund, to Avery-Hardoll Limited and Beck & Co. (Meters) Limited. Liquid dispensing apparatus for blends of two or more liquids. 3,776,423, 12-4-73, Cl. 222-26.000.

Phillips, Jack E. Method for treating the tobacco smoking habit. 3,764,680, 10-9-73, Cl. 424-254.000.

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Phillips, John P. Ignition system. 3,753,428, 8-21-73, Cl. 123-148.00e.

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Phillips, Kenneth G.; and Geerts, Marcellus J., to Nalco Chemical Company. Method of preparing non-toxic polyamines. 3,751,474, 8-7-73, Cl. 260-583.00p.

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Phillips, Maurice Norman; and Roberts, Samuel, to Phillips & Roberts Limited. Conveyor. 3,729,086, 4-24-73, Cl. 198-34.000.

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Phillips, Michael R.; and Ludwig, Jerome H., to Queensbury Opal Co., Ltd. Gem having light piping fibres with cores of high refractive index and clad layers of lower refractive index. 3,742,731, 7-3-73, Cl. 63-32.000.

Phillips, Morton; and Klenosky, Robert. Educational device. 3,750,307, 8-7-73, Cl. 35-35.00j.

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Phillips, Wendell Gary, to Monsanto Company. Substituted dichlorosulfenamides and their manufacture. 3,766,172, 10-16-73, Cl. 260-239.0bf.
Phillips, Wendell Gary, to Monsanto Company. 3-Pyridyl-1,2,4-thiadiazole-5-monooxamides. 3,770,749, 11-6-73, Cl. 260-294.80d.
Phillips, Wendell Gary, to Monsanto Company. Substituted alpha, alpha-dichloro-methane-sulfenyl chlorides and their manufacture. 3,770,824, 11-6-73, Cl. 260-543.00h.
Phillips, Wendell Gary, to Monsanto Company. Certain N-phenacyl pyridinium halides. 3,776,916, 12-4-73, Cl. 260-294.900.
Phillips, Wendell O., to General Tire & Rubber Company, The. Processable flame resistant ABS-PVC blends. 3,729,436, 4-24-73, Cl. 260-23.70m.
Phillips, William B., to International Business Machines Corporation. Web tension and speed control in a reel-to-reel web transport. 3,781,490, 12-25-73, Cl. 179-100.20s.
Phillips, William E., to Texaco Inc. Seismic pneumatic energy source with bubble eliminator and signal oscillation attenuator. 3,740,708, 6-19-73, Cl. 340-12.000.
Phillips, William E. Cooker. 3,769,901, 11-6-73, Cl. 99-444.000.
Philofsky, Elliott: *See—*
Black, James R.; and Philofsky, Elliott, 3,720,997.
Philofsky, Elliott M.: *See—*
Hall, Edward L.; and Philofsky, Elliott M., 3,743,894.
Hall, Edward L.; and Philofsky, Elliott M., 3,754,901.
Philofsky, Harold M.; Ying, Sui-Chun; and Chottiner, Jacob, to Westinghouse Electric Corporation. Liquid cooled rotor for dynamoelectric machines. 3,718,830, 2-27-73, Cl. 310-64.000.
Philp, Richard, to Atco Structures Inc. Wall frame for a foldable steel building. 3,774,356, 11-27-73, Cl. 52-70.000.
Philpott, Peter John: *See—*
Bolton, Andrew; Philpott, Peter John; and Scoats, Horace William, 3,708,311.
Phinizy, R. B., mesne: *See—*
Hedin, Robert A., 3,732,542.
Hedin, Robert A., 3,757,305.
Phinney, Earl M.: *See—*
McKeown, James E.; Linkroum, Irving E.; and Phinney, Earl M., 3,721,885.
McKeown, James E.; and Phinney, Earl M., 3,752,081.
Phinney, Earl M., to Bendix Corporation, The. Blasting machine having a manually operable permanent magnet generator and anti-demagnetization circuit. 3,721,860, 3-20-73, Cl. 317-80.000.
Phinney, Earl M.; and Linkroum, Irving E., to Bendix Corporation, The. Blasting machine with overvoltage and undervoltage protection for the energy storage capacitor. 3,721,886, 3-20-73, Cl. 320-1.000.
Phinney, Earl M., to Bendix Corporation, The. Remotely controlled blasting machine. 3,757,697, 9-11-73, Cl. 102-70.200.
Phinney, John A.: *See—*
Clancey, James T.; Phinney, John A.; Regan, Thomas J.; and Wasp, Edward J., 3,762,887.
Phinney, John M., to Falk Corporation, The. Pressure modulating system for reversing clutches and throttle control. 3,727,737, 4-17-73, Cl. 192-.098.
Phinney, Robert H. Golf putter. 3,770,279, 11-6-73, Cl. 273-167.00g.
Phipps, Charles M.; and Boucher, Raymond R., to United Aircraft Corporation. Apparatus for making directionally solidified castings. 3,712,368, 1-23-73, Cl. 164-336.000.
Phipps, Raymond Harold, to Robinson Waxed Paper Company Limited, The. Production of heat seals. 3,743,562, 7-3-73, Cl. 156-378.000.
Phipps, Willis M.; Holbert, Marvin L., Jr.; and McGee, John K., to Gray Tool Company. Concentric tubing hydraulic power unit, particularly for down-hole safety valve actuation. 3,780,802, 12-25-73, Cl. 166-89.000.
Phlipot, Georges A.; Michiels, Marie-Jose-Suzanne; and deVilleneuve, Yolande-P-M, to Eastman Kodak Company. Photosensitive composition comprising light-sensitive copolyester. 3,726,685, 4-10-73, Cl. 96-86.00p.
Phlipot, Georges Achille: *See—*
Bredoux, Francois Jean-Marie; Mercier, Claude Andre; and Phlipot, Georges Achille, 3,735,135.
Phoenix Closures, Inc.: *See—*
Curry, John J., 3,753,512.
Curry, John J., 3,773,208.
Souza, Augustine A., 3,773,233.
Phoenix, Lancelot: *See—*
Ingram, Brian; Harries, David Anthony; and Phoenix, Lancelot, 3,738,387.
Phoenix, Lancelot; and Walpole, David Valentine, to Lucas, Joseph, (Industries) Limited. Device for measuring the frequency of rotation of a vehicle wheel. 3,745,392, 7-10-73, Cl. 310-168.000.
Phoenix Products Company, Inc.: *See—*
Faux, Kenneth R., Sr., 3,767,912.
Phonics Corporation: *See—*
Sachs, Reynold M.; Boutin, Henri P.; and Cicchiello, Frank, 3,746,793.
Phonocopy, Inc.: *See—*
Szpak, Anthony D.; and Graves, Howard K., 3,726,998.
Photo Electronics Corporation: *See—*
Dreyfoos, Alex W., Jr., 3,724,954.
Photo Plastic International: *See—*
Sesto, Louis J., 3,722,122.
Photocircuits Corporation: *See—*
Polichette, Joseph, 3,779,758.
Photocircuits Division of Kollmorgen Corporation: *See—*
Herrmann, Gunther, 3,719,565.
Polichette, Joseph; Leech, Edward J.; and Nuzzi, Francis J., 3,772,056.
Polichette, Joseph; and Leech, Edward J., 3,772,078.
Photogenex, Inc.: *See—*
Alasia, Alfred V., 3,769,890.
Photographic Silver Recovery Limited: *See—*
Bentley, James Sydney, 3,715,291.
PhotoMetrics, Inc.: *See—*
Miller, Carlton S., 3,712,955.
Photophysics, Inc.: *See—*
Dahlquist, John A.; and Brodie, Ivor, 3,722,453.
Dahlquist, John A., 3,722,995.
Marlor, Guy A.; and Mooney, John E., 3,754,985.
Mooney, John B., 3,745,504.
Paull, Michael H., 3,711,197.
Photovolt Corporation: *See—*
Dahms, Harald; Levy, Gabor B.; and Seltzer, David A., 3,749,659.
Levy, Gabor B.; and Seltzer, David M., 3,726,778.
Physical Electronics Industries, Inc.: *See—*
Bohn, Gerald K.; and Weber, Roland E., 3,739,170.
Palmberg, Paul W., 3,720,829.
Palmberg, Paul W., 3,735,128.
Physics International Company: *See—*
Blomenkamp, Robert W., 3,754,215.
Godfrey, Charles S., 3,744,579.
Godfrey, Charles S., 3,748,953.
Lilley, Martin C., 3,753,426.
O'Neill, Cormac G., 3,738,576.
Phywe Aktiengesellschaft: *See—*
Berkhan, Ernst, 3,720,470.
Piacente, Anthony N.: *See—*
Coffin, Robert E.; and Piacente, Anthony N., 3,737,274.
Piacente, Luigi; and Gandolfi, Giovanni, to Societa Italiana Telecomunicazioni Siemens S.p.A. Device for blocking toll calls from subscriber telephones. 3,749,847, 7-31-73, Cl. 179-90.00d.
Piacentino, Thomas J.: *See—*
Frezzo, Guido; and Piacentino, Thomas J., 3,743,117.
Piaget, Claude: *See—*
Berth, Michel; Sesvignes, Francois; and Piaget, Claude, 3,743,899.
Piagnoli, Aldo. Milk kettle, for domestic use. 3,730,403, 5-1-73, Cl. 222-572.000.
Piampiano, Carl P.; and Piampiano, Corra J. Fabrication of composite fur pelt. 3,748,212, 7-24-73, Cl. 161-36.000.
Piampiano, Corra J.: *See—*
Piampiano, Carl P.; and Piampiano, Corra J., 3,748,212.
Pianga, Adam: *See—*
Nickell, Claude H., 3,781,135.
Pianka, Max, to Murphy Chemical Company Limited, The. (N-Alkoxycarbonyl-N-alkylcarbamoyl) dialkyl phosphono-thioates and thiolothionates. 3,711,578, 1-16-73, Cl. 260-942.000.
Pianka, Max, to Murphy Chemical Company Limited, The. Dinitrophenyl ester pesticides. 3,714,230, 1-30-73, Cl. 260-479.00s.
Pianka, Max; and Edwards, John Duncan. Pesticidal esters of 2,6-dinitro-4-alkyl phenols. 3,715,384, 2-6-73, Cl. 260-479.00r.
Pianka, Max, to Murphy Chemical Company Limited, The. Methods of controlling nematodes using 2-butyl-4,6-dinitrophenol carboxylic esters. 3,728,458, 4-17-73, Cl. 424-311.000.
Pianka, Max, to Murphy Chemical Company Limited, The. Fungicidal carbonates and thiolocarbonates of dihalodinitro phenols. 3,759,972, 9-18-73, Cl. 260-463.000.
Piasecyznski, Stanley James: *See—*
Hargreaves, Chester Arthur, II; and Piasecyznski, Stanley James, 3,754,044.
Piasek, Edmund J.: *See—*
Karll, Robert E.; and Piasek, Edmund J., 3,737,465.
Piasek, Edmund J.; Karll, Robert E.; and Lee, Richard J., to Standard Oil Company. Preparation of oil-soluble boron derivatives of an alkylene polyamine-urea or thiourea-succinic anhydride addition product. 3,718,663, 2-27-73, Cl. 260-326.300.



Piasek, Edmund J.; and Karll, Robert E., to Standard Oil Company (Indiana). High molecular weight Mannich condensation products.
Piccolo, Luigi; and Calcagno, Benedetto, to Societa Italiana Resine

Piasek, Edmund J.; and Karll, Robert E., to Standard Oil Company (Indiana). High molecular weight Mannich condensation products from two different alky-substituted hydroxyaromatic compounds. 3,736,357, 5-29-73, Cl. 260-570.50p.

Piasek, Edmund J.; and Karll, Robert E., to Standard Oil Company. Concentrates and crankcase oils comprising oil solutions of boron containing high molecular weight mannich reaction condensation products. 3,751,365, 8-7-73, Cl. 252-49.600.

Piasek, Edmund J.; and Karll, Robert E., to Standard Oil Company. Concentrate and crankcase oils comprising oil solutions of boron derivatives of high molecular weight mannich reaction condensation products. 3,756,953, 9-4-73, Cl. 252-49.600.

Piaskowski, Stanislaw: *See—*
Prajsnar, Tadeusz; Rulinski, Jozef; Zglobicki, Edward; Lyzwinski, Ryszard; Lacheta, Ireneusz; Szczepanik, Aleksander; Piaskowski, Stanislaw; and Godyn, Adam, 3,740,990.

Piatkowski, Paul; and Manfred, Birkholz, to Maschinenfabrik Buckau R. Wolf Aktiengesellschaft. Drive having imbalance-rotatable shafts. 3,722,302, 3-27-73, Cl. 74-61.000.

Piatt, David M.: *See—*
Kaelin, George R.; and Piatt, David M., 3,732,389.

Piatti, Sanzio Pio Vincenzo. Valve actuating arrangement for internal combustion engines. 3,712,277, 1-23-73, Cl. 123-90.220.

Piazza, Carlo; deceased (by Piazza, Judith B.; executrix), to Standard Oil Company. Mass transfer process. 3,755,285, 8-28-73, Cl. 260-94.90f.

Piazza, Judith B.: *See—*
Piazza, Carlo, 3,755,285.

Piazza, Matteo J.; and Reese, Cecil E., to Du Pont de Nemours, E. I., and Company. Polyester yarn for draw-texturing process. 3,772,872, 11-20-73, Cl. 57-140.00r.

Piber, Earl T., to Cutler-Hammer Inc. Miniature multi-pole toggle switch with momentary action. 3,715,534, 2-6-73, Cl. 200-67.00g.

Pibet, Jose Maria Arnau. Toy construction systems. 3,716,939, 2-20-73, Cl. 46-25.000.

Pic-A-Tent-Top Carrier, Inc.: *See—*
Lund, Kerry G., 3,737,083.

Picard, Claude Wolfgang: *See—*
Bream, John B.; Picard, Claude Wolfgang; and Read, David Michael, 3,711,505.

Picard, Jean: *See—*
Seals, William O.; and Picard, Jean, 3,748,161.

Picard, Jean Francois: *See—*
Claret, Rene; and Picard, Jean Francois, 3,778,167.

Picard, Jean P.: *See—*
Bobinski, Jack; and Picard, Jean P., 3,770,563.

Picard, Jean P.; Voigt, H. William, Jr.; and Pell, Lawrence W., to United States of America, Army. Container with controllably desensitized explosive mixtures. 3,738,276, 6-12-73, Cl. 102-7.200.

Picard, Karl Heinz; and Eggert, Horst, to Siemens Aktiengesellschaft. Pressure switch device having a pressure-dependent circuit for a compressor. 3,721,785, 3-20-73, Cl. 200-148.00b.

Picard, Marcel. Self-cleaning filter. 3,717,252, 2-20-73, Cl. 210-108.000.

Picard, Michel: *See—*
Torrens, Christian; DeProux, Jacques Roland; and Picard, Michel, 3,760,719.

Picard, Michel, to Societe Industrielle Honeywell Bull (Societe Anonyme). Process for manufacturing a type-carrying printing belt. 3,724,371, 4-3-73, Cl. 101-401.100.

Picard, Roland: *See—*
Blattner, Karl; and Picard, Roland, 3,721,164.

Picardat, Robert. Lawn treating machine. 3,777,991, 12-11-73, Cl. 239-656.000.

Piccard, Lucien, Industries, Inc.: *See—*
Blumstein, Abraham; and Agoglia, Rocco, 3,768,275.

Picciano, Eugene A.; Clark, Francis C.; and Neggers, Frank J., to Warner-Lambert Company. Insulated container. 3,730,374, 5-1-73, Cl. 220-9.00f.

Picciola, Giampaolo; and Rovati, Luigi, to Rotta Research Laboratorium S.p.A. Method of preparing alpha amides. 3,739,013, 6-12-73, Cl. 260-471.00r.

Picciolo, Grace L.: *See—*
Chappelle, Emmett W.; and Picciolo, Grace L., 3,745,090.
Kelbaugh, Burton N.; Picciolo, Grace L.; Chappelle, Emmett W.; and Colburn, Maurice E., 3,756,920.

Piccione, Nicholas E., to Dossert Manufacturing Corporation. Fault indicator and locator for buried cables and zero sequence current sensing device. 3,771,049, 11-6-73, Cl. 324-51.000.

Picciotto, Robert: *See—*
Dansac, Jean; Picciotto, Robert; and Bouron, Jean-Pierre, 3,764,980.

Piccirilli, Francis J.; and Sabo, Joseph M. Light weight decorative insulated bottle container. 3,779,298, 12-18-73, Cl. 150-52.00r.

Piccolo, Luigi: *See—*
Calcagno, Benedetto; and Piccolo, Luigi, 3,735,000.
Calcagno, Benedetto; Piccolo, Luigi; and Ghirga, Marcello, 3,760,066.
Cozza, Giorgio; Piccolo, Luigi; and Bottai, Gabriele, 3,773,911.

Piccolo, Luigi; and Calcagno, Benedetto, to Societa Italiana Resine S.p.A. Process for preparing aluminum trichloride. 3,758,675, 9-11-73, Cl. 423-495.000.

Piccone, Dante E.: *See—*
McIntyre, James E.; Piccone, Dante E.; and Somos, Istvan, 3,740,584.

Piccone, Dante E.; and Somos, Istvan, to General Electric Company. Thyristor turn-on circuit. 3,713,101, 1-23-73, Cl. 340-147.00r.

Piccony, Raymond C.: *See—*
Luschen, Fred H.; and Piccony, Raymond C., 3,742,838.
Luschen, Fred H.; and Piccony, Raymond C., 3,743,321.

Piccotti, Enzo, to Ilford Limited. Selenium compounds. 3,775,125, 11-27-73, Cl. 96-60.0bf.

Pich, Rene: *See—*
Bonnard, Lucien; Pich, Rene; and Palsky, Alain, 3,745,141.

Pichel Industries, Inc.: *See—*
Pichel, Marlowe A., 3,758,769.

Pichel, Marlowe A., to Pichel Industries, Inc. Rotating light projector. 3,758,769, 9-11-73, Cl. 240-41.00r.

Pichette, Edmond A. Fluid-stabilized shaft. 3,776,609, 12-4-73, Cl. 308-9.000.

Pichler, Richard: *See—*
Tscharner, Christopher; Schwarz, Maurice; and Pichler, Richard, 3,716,532.

Pick, Hans H., to Kennecott Copper Corporation. Method and apparatus for matrix-effect-compensated continuous X-ray analysis of streams of solid particles. 3,752,979, 8-14-73, Cl. 250-375.000.

Pickands Mather & Co.: *See—*
McDermott, William Francis; Plaistow, Joseph James; and Hirvela, Veikko Adolph, 3,747,411.

Pickar, Kenneth Arnold: *See—*
Dalton, John Vincent; Mac Rae, Alfred Urquhart; Mathews, James Robert; Moline, Robert Alan; Pickar, Kenneth Arnold; and Seidel, Harvey Donald, 3,717,790.

Pickard John: *See—*
Melling, Richard; and Pickard John, 3,776,709.

Pickard, John; and Cartledge, Thomas, to Triplex Safety Glass Company Limited. Press bending of glass sheets. 3,753,673, 8-21-73, Cl. 65-106.000.

Pickard, John E.: *See—*
Weber, Charles H., III; and Pickard, John E., 3,748,190.

Pickard, John E.; and Weber, Charles H., III, to Grace, W. R., & Co. Magnetic sheet for impression cylinder. 3,730,092, 5-1-73, Cl. 101-415.100.

Pickel, Hajo. Synchronous universal joint. 3,731,501, 5-8-73, Cl. 64-17.00r.

Pickel, Hans: *See—*
Neitz, Alfred; and Pickel, Hans, 3,714,931.

Pickel, James M. Tree stump removing apparatus. 3,732,905, 5-15-73, Cl. 144-2.00n.

Picken, James B. Underwater swimming aid. 3,768,431, 10-30-73, Cl. 115-22.300.

Pickens, Paul D. Oscillating cylinder internal combustion engine. 3,747,578, 7-24-73, Cl. 123-42.000.

Picker Corporation: *See—*
Atlee, Zed J.; and Kasten, Roy F., Jr., 3,720,853.
Brunnett, Carl J.; and Toannou, Basil N., 3,732,420.
Brunnett, Carl J.; and Ioannou, Basil N., 3,769,508.
Brunnett, Carl J.; and Ioannou, Basil N., 3,777,145.
Brunnett, Carl J.; and Ioannou, Basil N., 3,777,146.
Foderaro, Anthony J., 3,776,500.
Gager, Robert M., 3,737,699.
Green, Donald T., 3,761,722.
Herrick, Norman A., 3,727,054.
Lombardo, Daniel F.; and Splain, Walter E., 3,746,862.
Martone, Ronald J.; Mueller, Peter G.; and Bailey, Homer M., 3,718,833.
Martone, Ronald J., 3,745,359.
Martone, Ronald J.; Mueller, Peter G.; and Flis, Richard J., 3,769,509.
Slague, Edward, 3,752,991.

Picker Electronics, Inc.: *See—*
Stein, Arno; Owens, Alan R.; and Wright, William L., 3,744,479.

Picker, Manfred: *See—*
Weyand, Manfred; and Picker, Manfred, 3,752,596.

Picker, Patrick, to Universite de Sherbrooke. Single control valve for vacuum system. 3,713,460, 1-30-73, Cl. 137-566.000.

Picker, Patrick; Jolicoeur, Carmel; and Desnoyers, Jacques E., to Universite de Sherbrooke. Flow calorimeter. 3,726,644, 4-10-73, Cl. 23-230.00r.

Pickerell, Fred T.; and Brignola, Dominic J., to West Company, The. Primary nurser assembly. 3,779,413, 12-18-73, Cl. 215-11.00c.

Pickering, Alan Hugh, to English Electric Valve Company Limited. Magnetron tunable by piezo-electric means over a wide range in discrete steps. 3,729,646, 4-24-73, Cl. 315-39.550.

Pickering, Alan Hugh, to English Electric Valve Company Limited. Magnetron oscillators. 3,748,592, 7-24-73, Cl. 331-90.000.

Pickering, Charles B.: *See—*
Sangster, Arlon G.; Pickering, Charles B.; and McNamara, Thomas J., 3,719,926.





Pickering, Richard W.: *See—*
Buchholz, Donald E.; Bakala, Ronald L.; Miller, Robert E.; and Pickering, Richard W., 3,725,912.

Pickering, Royce D.; and Glassman, David M., to Eastman Kodak Company. Television signal to photographic film recording system. 3,751,584, 8-7-73, Cl. 178-6.70a.

Pickert, Hansjurgen: *See—*
Sesselmann, Dieter; and Pickert, Hansjurgen, 3,762,347.

Pickert, Lynn I., to General Signal Corporation. Variable load brake control apparatus. 3,730,597, 5-1-73, Cl. 303-22.00a.

Pickert, Paul E., to Union Carbide Corporation. Hydrocarbon conversion processes using supersiliceous zeolites as catalysts. 3,761,396, 9-25-73, Cl. 208-111.000.

Pickett, Charles G.: *See—*
Chadha, Desh D.; Patel, Babu B.; and Pickett, Charles G., 3,712,141.

Pickett, Charles G.; and Chauha, Desh D., to Bio-Medical Sciences Inc. Temperature indicator. 3,765,243, 10-16-73, Cl. 73-356.000.

Pickett, John E. P.: *See—*
Kinney, Thomas D.; and Pickett, John E. P., 3,733,950.
Kinney, Thomas D.; and Pickett, John E. P., 3,768,914.
Kinney, Thomas D.; and Pickett, John E. P., 3,771,490.
Kinney, Thomas D.; and Pickett, John E. P., 3,779,681.

Pickett, John E. P. Self aligning base clamp and holder for disposable blade and water bath for microtomes and method. 3,733,948, 5-22-73, Cl. 83-98.000.

Pickett, William H. Barrier structures and connectors in concrete assemblies. 3,732,653, 5-15-73, Cl. 52-71.000.

Pickford, Allan E.: *See—*
Wright, Lee E.; and Pickford, Allan E., 3,721,532.

Pickler, William C.: *See—*
Czajkowski, Norman; Cammack, Thomas A.; Pickler, William C.; and Donahue, William J., 3,768,415.
Duncan, Cecil L.; McNelia, John F.; and Pickler, William C., 3,707,912.

Pickles, Joseph, to Ferro Manufacturing Corporation. Six-way vehicle seat adjuster. 3,712,573, 1-23-73, Cl. 248-394.000.

Pickles, Joseph, to Ferro Manufacturing Corporation. Transmission and housing. 3,735,645, 5-29-73, Cl. 74-606.000.

Pickles, Joseph, to Ferro Manufacturing Corporation. Window regulator. 3,736,702, 6-5-73, Cl. 49-362.000.

Pickles, Wilfred: *See—*
Howell, Frederick Harold; and Pickles, Wilfred, 3,717,691.

Pickstock, Barry Thomas; and Neale, Denis Manktelow, to EVR Enterprises. Electronic weave compensation. 3,780,222, 12-18-73, Cl. 178-7.200.

Picmaus, Ernst, to Klein, Schanzlin & Becker Aktiengesellschaft. Windings for multiple-motor unit. 3,728,567, 4-17-73, Cl. 310-198.000.

Picolin, Willi. Physiotherapeutic mat. 3,744,483, 7-10-73, Cl. 128-25.00b.

Pidgeon, Rosemary Sylvia Vyvyan, to Matburn (Holdings) Limited. Nasal tampons. 3,766,924, 10-23-73, Cl. 128-325.000.

Piech, Ferdinand, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Arrangement for electrically actuated windows of vehicles, especially motor vehicles. 3,742,646, 7-3-73, Cl. 49-28.000.

Piech, Ferdinand; and Schmitt, Sepp, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Method and apparatus for mixture preparation of internal combustion engines. 3,779,223, 12-18-73, Cl. 123-122.00d.

Piech, Ferdinand K.; and Weber, Rolf, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Mushroom valve, especially for internal combustion engines. 3,710,773, 1-16-73, Cl. 123-188.0aa.

Piech, Ferdinand K., to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Motor vehicle, especially passenger motor vehicle. 3,710,884, 1-16-73, Cl. 180-54.00r.

Piechocki, Benjamin, to Western Electric Company, Incorporated. Compensating base for lead-frame bonding. 3,729,810, 5-1-73, Cl. 29-493.000.

Pieczyk, Bernhard Peter, to Northern Electric Company Limited. Apparatus for and method of orienting crystal wafers. 3,716,712, 2-13-73, Cl. 250-51.500.

Pieddeloup, Georges. Multi-digit dial lock. 3,745,798, 7-17-73, Cl. 70-306.000.

Piedmont Engineering and Machine Company, Inc.: *See—*
Christian, Donald K.; and Minchey, Jerry M., 3,721,376.
Christian, Donald K.; and Lomax, Dennis L., 3,729,958.
Christian, Donald K.; and Stafford, Ronnie L., 3,740,970.

Piedmont Machine Shop, Inc.: *See—*
Blalock, William L.; and Whitehurst, Marcus G., 3,740,796.

Piegza, Henry J.; and Leofsky, Frank J., to Welding and Steel Fabrication Co., Inc. Pressure vessel for uniformly treating articles in batch form. 3,744,402, 7-10-73, Cl. 99-360.000.

Piegza, Henry J., to WSF Industries, Inc. False walled pressure vessel. 3,776,257, 12-4-73, Cl. 137-206.000.

Piekarski, Gottfried: *See—*
Hundmeyer, Anton; Lochner, Fritz; and Piekarski, Gottfried, 3,775,389.

Piekarski, Gottfried; Hundmeyer, Anton; Kippe, Dieter; and Maier, Sigmund, to Wacker-Chemie GmbH. Catalyst and process for the preparation of polyethylenes having a narrow molecular-weight distribution. 3,755,274, 8-28-73, Cl. 260-88.20r.

Piekos, Frank E.: *See—*
Savioli, Giulio; and Piekos, Frank E., 3,712,173.

Pielkenrood, Jacob; Ambrosius, Willem L. B.; and Kooistra, Willem, to Pielkenrood-Vinitex N.V. Purification device for removing heavy components from a suspension. 3,721,347, 3-20-73, Cl. 210-519.000.

Pielkenrood-Vinitex N.V.: *See—*
Pielkenrood, Jacob; Ambrosius, Willem L. B.; and Kooistra, Willem, 3,721,347.
van Galen, Piet; and van Nes, Johannes G. Th., Jr., 3,776,217.

Pieloth, Manfred: *See—*
Schwarz, Arnulf; Konig, Gerhard; Pieloth, Manfred; and Lang, Dietmar, 3,780,770.

Piemont, Georges. Corrugated edging for an endless conveyor. 3,711,588, 1-16-73, Cl. 264-231.000.

Piening, Werner. Improvements in or relating to the sound-proofing of ships. 3,760,757, 9-25-73, Cl. 114-85.000.

Pienkny, Dieter: *See—*
Buchwald, Fritz; and Pienkny, Dieter, 3,751,184.

Pieper, Donald L., to General Electric Company. Bilateral servo controlled manipulator. 3,712,180, 1-23-73, Cl. 91-363.000.

Pieper, Frank: *See—*
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Pieper, Hans D., to United States of America, Navy. Ordnance section cable harness. 3,713,390, 1-30-73, Cl. 102-67.000.

Pieper, Helmut, to Ingeniunbrno Glasofendau Nikolaus Sorg GmbH & Co., KG. Method and furnace for the electric melting of glass. 3,742,111, 6-26-73, Cl. 13-6.000.

Pieper, Rudolf: *See—*
Klein, Heinrich; Pieper, Rudolf; and Hoffmann, Alfred, 3,755,996.
Klein, Heinrich; and Pieper, Rudolf, 3,768,172.
Klein, Heinrich; Pieper, Rudolf; and Hoffmann, Alfred, 3,769,781.

Piepho, Robert R., to Babcock & Wilcox Company, The. Pulverizing apparatus. 3,730,446, 5-1-73, Cl. 241-110.000.

Pier, Jerome R., to Westinghouse Air Brake Company. Combined electronic and fluid pressure brake control apparatus. 3,716,274, 2-13-73, Cl. 303-20.000.

Pieracci, Angiolo; and Giachetti, Alfredo, to Billi S.p.A. Device for automatic and programmed insertion of needles into work in rectilinear hosiery machines. 3,769,814, 11-6-73, Cl. 66-76.00r.

Pierart, Robert M., to Babcock-Atlantique. Method for making a tubular structure. 3,755,647, 8-28-73, Cl. 219-126.000.

Pierce, Aaron E.; Burns, William A., Jr.; Cooke, Claude E., Jr.; Hillestad, Jerry G.; and Spillette, Arthur G., to Esso Production Research Company. Apparatus for determining temperature distribution around a well. 3,745,822, 7-17-73, Cl. 73-154.000.

Pierce, Alan E. Oxidation of hydrindantin. 3,775,481, 11-27-73, Cl. 260-590.000.

Pierce, Albert R., III.; and Rodriguez, David, to Lipton, Thomas J., Inc. Odor suppressing litter material. 3,735,734, 5-29-73, Cl. 119-1.000.

Pierce, Andrew G., Jr.: *See—*
Frick, John G., Jr.; Reeves, Wilson A.; Pierce, Andrew G., Jr.; and Gautreaux, Gloria A., 3,754,860.

Pierce Chemical Company: *See—*
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Gindler, E. Melvin, 3,754,865.

Pierce, Don C., Jr., to Huron Products Company. Combination lock bank. 3,721,384, 3-20-73, Cl. 232-4.00r.

Pierce, Donald, to United Kingdom of Great Britain and Northern Ireland, Minister of Technology in Her Britannic Majesty's Government of the. Fluid dynamic lift generating or control force generating structures. 3,716,209, 2-13-73, Cl. 244-123.000.

Pierce, Donald L.: *See—*
Battistoni, Richard B.; Lettieri, John; Pierce, Donald L.; and Weikel, Walter J., 3,744,310.
Kendall, Frank T.; Pierce, Donald L.; and Weikel, Walter J., 3,735,093.

Pierce, Edward J.; and Doucet, Daniel R., to General Connector. Tight angle multi-contact electrical connector. 3,711,815, 1-16-73, Cl. 339-90.00r.

Pierce, Edwin F.: *See—*
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Pierce, Ernest E. Door construction. 3,734,161, 5-22-73, Cl. 160-133.000.

Pierce, Erold F.; Gigon, Richard M.; and Hermes, Walter L., to Curtiss-Wright Corporation. Rotary expansion engine of the wankel type. 3,744,940, 7-10-73, Cl. 418-60.000.

Pierce, Everette M., to United States of America, Army. Processing of crosslinked nitrocellulose propellants. 3,711,344, 1-16-73, Cl. 149-19.000.

Pierce, Everette M., to United States of America, Army. Solid propellant compositions having a nitrocellulose-hydroxy-terminated polybutadiene binder and method of preparing the same. 3,726,729, 4-10-73, Cl. 149-19.000.

Pierce, Harold C. Boxed produce carloading. 3,779,173, 12-18-73, Cl. 105-369.00s.





Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,109, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,110, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,111, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,112, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,113, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,114, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,115, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,116, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,117, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,118, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,119, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,120, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,121, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,122, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,123, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,124, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,125, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,126, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,127, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,128, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,129, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,130, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,131, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,132, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,133, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,134, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,135, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,136, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,137, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,138, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,139, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,140, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,141, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,142, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,143, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,144, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,145, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,146, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,147, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,148, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,149, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,150, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,151, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,152, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,153, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,154, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,155, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,156, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,157, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,158, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,159, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,160, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,161, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,162, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,163, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,164, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,165, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,166, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,167, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,168, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,169, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,170, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,171, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,172, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,173, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,174, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,175, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,176, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,177, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,178, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,179, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,180, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,181, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,182, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,183, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,184, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,185, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,186, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,187, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,188, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,189, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,190, 12-18-73, Cl. 260-519.000.

Pierce, Harold C., to Pierce Chemical Company. Method of preparing 2-(4-chlorophenyl)-3-methylbutyric acid. 3,780,191, 12-18-73, Cl. 260-519.000.

Pierce, Harold C

Pierce, Joe T., to Texas Instruments, Incorporated. Method of forming superconductive barrier devices. 3,725,213, 4-3-73, Cl. 204-15.000.
Pierce, Joe T.; and Stephens, Craig P., to Texas Instruments, Incorporated. Process for fabricating vidicon tube target having resistance sputtered semi-insulating film. 3,761,375, 9-25-73, Cl. 204-192.000.
Pierce, John H.; Credle, Walter Carl; and Crawford, Lewis O., to Bouligny, R. H., Inc. Piddler mechanism feeding means. 3,741,453, 6-26-73, Cl. 226-7.000.
Pierce, John H., to Bouligny, R. H., Inc. Finish applicator for filament bundles. 3,754,530, 8-28-73, Cl. 118-420.000.
Pierce, John K., Jr.; and Toro, Libardo, to Diamond Shamrock Corporation. Process for preparing homo- and copolymers of vinyl chloride in aqueous emulsion with post-addition of a water-soluble ethylene oxide-ethylene glycol adduct. 3,755,225, 8-28-73, Cl. 60-23.0em.
Pierce, John Robinson, to Bell Telephone Laboratories, Incorporated. Interconnector loop data block transmission. 3,731,002, 5-1-73, Cl. 179-15.0al.
Pierce, Leo A., to Torit Corporation, The. Filtering apparatus. 3,733,790, 5-22-73, Cl. 55-324.000.
Pierce, Leo F.: *See—*
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Pierce, Lowell Jackson: *See—*
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Pierce, Ogden R.; and Greenwald, John R., to Dow Corning Corporation. Monochlorotetrafluorobenzene compounds. 3,714,275, 1-30-73, Cl. 260-650.00f.
Pierce, Ogden R.; and Greenwald, John R., to Dow Corning Corporation. Difunctional tetrafluorobenzene. 3,714,276, 1-30-73, Cl. 260-650.00f.
Pierce, Ogden R.; and Kim, Yung Ki, to Dow Corning Corporation. Fluoroalkylene alcohols and esters. 3,715,387, 2-6-73, Cl. 260-488.00h.
Pierce, Reginald Roy, to Burndept Electronics (E.R.) Limited. Radio transmitters. 3,737,782, 6-5-73, Cl. 325-363.000.
Pierce, Richard H.: *See—*
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Pierce, Richard L.; and Stafford, Herbert E., to Zenith Radio Corporation. Hinging mechanism for a hinged chassis arrangement. 3,737,206, 6-5-73, Cl. 312-7.0tv.
Pierce, Robert G., to Microdot, Inc. Multiple wire electrical connector. 3,708,780, 1-2-73, Cl. 339-276.000.
Pierce, Russell W. Apparatus and method for detecting gaseous contaminants. 3,718,434, 2-27-73, Cl. 23-232.00r.
Pierce, Stanley L., Jr.; and Winn, William C., to Ford Motor Company. Automatic transmission controls for an automotive vehicle driveline. 3,714,836, 2-6-73, Cl. 74-752.00c.
Pierce, Victor J.: *See—*
Lieberman, George; Pierce, Victor J.; and Prussin, Samuel B., 3,728,276.
Pierce, Victor J.; and Prussin, Samuel B. Package for dispensing a warmed composition. 3,723,324, 3-27-73, Cl. 252-90.000.
Pierce, William C.; and Fuller, Paul W., to Lear Siegler, Inc. Air suspension with improved axle lifting structure. 3,771,812, 11-13-73, Cl. 280-124.00f.
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Seaberg, Richard D., 3,759,564.
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Pierdet, Andre: *See—*
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Gasc, Jean-Claude; and Pierdet, Andre, 3,776,902.
Jolly, Jean; and Pierdet, Andre, 3,721,685.
Pierens, Daniel A. Trash baler. 3,742,842, 7-3-73, Cl. 100-212.000.
Pieri, Giovanni; Aldo, Novara; Held, Llewellyn John; and Bedetti, Gianfranco, to Montecatini Edison S.p.A. and New Jersey Zinc Co., The. Process for producing pigment quality titanium dioxide. 3,725,526, 4-3-73, Cl. 423-613.000.
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Pierre, Jean Marc: *See—*
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Pierre, Marcel J., to Materiel Applications Plastiques. Apparatus for automatically placing phonographic record labels inside the mound of a parellel-platen press. 3,749,396, 7-31-73, Cl. 271-5.000.
Pierre, Raymond Paul, to Societe d'Etude et de Construction de Chaudiers en Acier-Seccacier. Boiler for the production of hot water. 3,741,168, 6-26-73, Cl. 122-136.00r.
Pierre, Remi; Guillet, Leon Alain; and Glachant, Luc Clement Dominique, to Gag de France. Submerged combustion heat-generator. 3,717,139, 2-20-73, Cl. 126-360.00a.
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Pierrel S.p.A.: *See—*
Fabrizio, Gerardo, 3,764,595.
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Pierret, Jean Marc, to International Business Machines Corporation. Equalizer for linearizing a transmission channel phase-frequency response utilizing odd and even order all-pass networks. 3,733,565, 5-15-73, Cl. 333-28.000.
Pierro, John J., to North American Rockwell Corporation. Gearless drive method and means. 3,708,251, 1-2-73, Cl. 417-356.000.
Pierro, Richard S.: *See—*
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Pierron, Claude Raymond, to Les Applications Industrielles Vosgiennes, SAPIVOG. Method of laying accessory parts onto the neck portion of garments. 3,769,635, 11-6-73, Cl. 2-243.00r.
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Butre, Jean-Louis; and Pierrot, Francois, 3,763,005.
Pierrot, Francois; and Schwachhofer, Ghislain. Process for the manufacture of carbon disulphide and for the recovery of sulphur. 3,743,702, 7-3-73, Cl. 423-443.000.
Pierrot, Victor Charles, III: *See—*
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French, John Lischer; Kessler, Kenneth Quentin; Funk, Welker W.; Pierrot, Victor Charles, III; and Hiseler, Stanley Robert, 3,757,837.
Pierrot, Victor Charles, III, to Deere & Company. Delimbing blade. 3,713,467, 1-30-73, Cl. 144-2.00z.
Pierrot, Victor Charles, III; Penfold, Garn Farley; and Meyers, Thomas Wilmer, to Deere & Company. Delimbing machine controls. 3,731,719, 5-8-73, Cl. 144-2.00z.
Piersimoni, Eugene, to Sauquoit Fibers Company. Dancing ring assembly for knitting machines. 3,771,331, 11-13-73, Cl. 66-146.000.
Pierson, Alexandre, to Commissariat a l'Energie Atomique. Device for production a large direct-current potential difference. 3,708,740, 1-2-73, Cl. 321-8.00r.
Pierson, Charles W.: *See—*
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Pierson, Paul Bruce, to RCA Corporation. Digitally variable delay time system. 3,781,722, 12-25-73, Cl. 333-31.00r.
Pierson, Raymond C., Jr.; and Voytko, Charles L., to Hestrom Company. Stroller bumper. 3,722,906, 3-27-73, Cl. 280-47.400.
Pierson, Robert M., to Environmental Structures, Inc., mesne. Inflatable building with reinforced seam. 3,762,108, 10-2-73, Cl. 52-2.000.
Pierson, William F.: *See—*
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Pierzchala, Chester E., to Reliable Electric Company. High voltage arc extinguishing circuit interrupter. 3,739,122, 6-12-73, Cl. 200-146.00r.
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Piesch, Steffen: *See—*
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Piester, Loyd W., to PPG Industries, Inc. Process for the production of hydrazoic acid. 3,734,998, 5-22-73, Cl. 423-406.000.



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Piet, Meyer, to Futurecraft Corporation. Poppet valve structure having O-ring seat seal. 3,731,905, 5-8-73, Cl. 251-333.000.
Pieters, Leon Andre; and Wren, James Frank, to Meldreth Electronics Limited. Image analysing. 3,743,772, 7-3-73, Cl. 178-7.200.
Pieters, Leon Andre, to Image Analysing Computers Limited. Video signal level correction circuitry. 3,777,056, 12-4-73, Cl. 178-7.100.
Pieters, Richard, to U.S. Philips Corporation. Flyback EHT and sawtooth current generator having a flyback period of at least sixth order. 3,769,542, 10-30-73, Cl. 315-27.0td.
Pietkiewicz, Charles J., Jr., to Hayes-Albion Corporation. Method of making cross blade cooling fans. 3,768,153, 10-30-73, Cl. 29-400.00b.
Pietramale, Anthony M., to I-T-E Imperial Corporation. Pivoted float hydrometer comprising movable calibration weight. 3,722,292, 3-27-73, Cl. 73-454.000.
Pietro, Rosso, & C. S. n.c.: *See—*
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Pietroski, Alex J., to General Motors Corporation. Blending device. 3,737,984, 6-12-73, Cl. 29-567.00r.
Pietrucci, Andre; Imbert, Pierre; Berthou, Jean; and Juston, Claude. Device for transforming strips of material into dimensioned pieces. 3,769,866, 11-6-73, Cl. 83-302.000.
Pietryka, Joseph, to Societe Fives Lille Cail and Konstruktionsburo fur Stahl und Walzwerke. Apparatus for storing and positioning the leader of an ingot in a continuous casting apparatus. 3,762,462, 10-2-73, Cl. 164-274.000.
Pietryka, Joseph, to Fives Lille-Cail. Installation for continuous ingot casting. 3,779,303, 12-18-73, Cl. 164-282.000.
Pietrzak, Joe P.: *See—*
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Pietsch, Gerhard Josef, to American Cyanamid Company. Article electrocoated with adhesively bondable acrylic resin containing bis-urea. 3,755,119, 8-28-73, Cl. 204-181.000.
Pietsch, Gerhard Josef; and Vitalis, Emil Alfred, to American Cyanamid Company. Molded, microporous, unsaturated, polyester resin. 3,766,102, 10-16-73, Cl. 260-2.50n.
Pietsch, Gunter E. W.: *See—*
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Pietsch, Hanns; and Curts, Julius, to Beiersdorf Aktiengesellschaft. Method for the production of electrical pressure sensitive insulating tapes. 3,728,148, 4-17-73, Cl. 117-93.310.
Pietsch, Helmut E. W.: *See—*
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Pietschmann, Helmut Richard, to Sybron Corporation. Take-up system for dental units and the like. 3,722,095, 3-27-73, Cl. 32-22.000.
Pieuchard, Guy; Flamand, Jean; and Labeyrie, Antoine, to Jobin-Yvon. Optical diffraction grating scanner device. 3,721,487, 3-20-73, Cl. 350-7.000.
Piffath, Rodney S.; and Cole, John J., to Butane Match A.G. Slit regulator for gas lighter. 3,709,462, 1-9-73, Cl. 251-118.000.
Piffath, Rodney S.; and Cole, John J., to Butane Match A.G. Lighter with delayed flame shutoff. 3,740,183, 6-19-73, Cl. 431-276.000.
Pifferi, Giorgio, to Grupp Lepetit S.p.A. Carbamic acid derivatives. 3,723,502, 3-27-73, Cl. 260-471.00c.
Pifferi, Giorgio, to I.S.F., S.p.A. Thioamides of 4-substituted syringic acid and their preparation. 3,755,317, 8-28-73, Cl. 260-247.100.
Pifferi, Giorgio, to I.S.F. S.p.A. Antihypertensive 6-substituted 3-hydrazino-pyridazines and their preparation. 3,769,278, 10-30-73, Cl. 260-240.00g.
Pifferi, Giorgio, to I.S.F. S.p.A. Process for preparing 2-dialkylaminoethyl 4-alkoxy-3-aminobenzoates. 3,775,464, 11-27-73, Cl. 260-472.000.
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Lincoln, Frank H., Jr.; and Pike, John E., 3,759,978.
Pike, John E., to Upjohn Company, The. Prostaglandin oximes and oxime ethers. 3,723,528, 3-27-73, Cl. 260-566.00a.
Pike, John E.; and Schneider, William P., to Upjohn Company, The. Prostaglandin El, Fl, and Al analogs. 3,767,695, 10-23-73, Cl. 260-468.00d.
Pike, John E.; and Schneider, William P., to Upjohn Company, The. Silylated derivatives of prostanoic acid and prostaglandins. 3,772,350, 11-13-73, Cl. 260-448.80r.
Pike, John Francis. Containers. 3,775,903, 12-4-73, Cl. 47-37.000.
Pike, Victor Eugene, to General Electric Company. Ultrasonic inspection system with pseudo-isometric display. 3,751,976, 8-14-73, Cl. 73-67.900.
Piker, Herbert M.; and Borum, Otis C., to Farenwald Enterprises, Inc., mesne. Boat and trailer. 3,709,178, 1-9-73, Cl. 114-56.000.
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Pilafidis, Emile J., to Cincinnati Milacron Inc. Method and apparatus for producing signals representing the most significant eccentricities of a plurality of simultaneously rotating spindles. 3,752,968, 8-14-73, Cl. 235-151.110.
Pilarczyk, Karol; and Pennink, Hans, to Carrier Corporation. Control for gas compression apparatus. 3,713,756, 1-30-73, Cl. 417-295.000.
Pilarczyk, Karol, to Carrier Corporation. Compressor barrel assembly. 3,717,418, 2-20-73, Cl. 415-104.000.
Pilarczyk, Karol; and Pennink, Hans, to Carrier Corporation. Control for gas compression apparatus. 3,732,038, 5-8-73, Cl. 417-282.000.
Pilarczyk, Karol; and Pennink, Hans, to Carrier Corporation. Method of and apparatus for controlling the operation of gas compression apparatus. 3,737,252, 6-5-73, Cl. 417-53.000.
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Pilet, Charles. 2-Aminopyrimidine ethylmercurithiosalicylate. 3,773,760, 11-20-73, Cl. 260-242.000.
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Pilgram, Kurt H.; and Skiles, Richard D., to Shell Oil Company. Fused 1,2,4-thiadiazolines. 3,726,891, 4-10-73, Cl. 260-306.700.
Pilgram, Kurt H.; Medema, Dirk; Soloway, Samuel B.; and Gaertner, George W., Jr., to Shell Oil Company. Hydroxyaryl thioethers. 3,732,317, 5-8-73, Cl. 260-607.00b.



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Pilgram, Kurt H.; Medema, Dirk; Soloway, Samuel B.; and Gaertner, George W., Jr., to Shell Oil Company. Method of production of hydroxyaryl thioethers from sulfonium compounds. 3,772,391, 11-13-73, Cl. 260-609.00f.
Pilgram, Kurt H.; Medema, Dirk; Soloway, Samuel B.; and Gaertner, George W., Jr., to Shell Oil Company. Production of hydroxyaryl thioethers. 3,775,485, 11-27-73, Cl. 260-609.00r.
Pilgram, Kurt H. G.: *See—*
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Pilipovich, Donald; and Weber, John Q., to North American Aviation, Inc. Ethyldecaborane or $B_5H_9$ with mixed $ClF_5$ oxidizer. 3,730,793, 5-1-73, Cl. 149-22.000.
Pilipovich, Donald; Wilson, Richard D.; and Bauer, H. Fred, to North American Rockwell Corporation. Oxychlorine trifluoride and alkali fluoride-$Cl_2O$ complex. 3,733,392, 5-15-73, Cl. 423-179.00r.
Pilipovich, Donald; Maya, Walter; and Wilson, Richard D., to North American Rockwell Corporation. Preparation of chlorine pentafluoride. 3,756,780, 9-4-73, Cl. 423-466.000.
Pilish, Andre, to Pennstar Company, The. Weather seal for pre-cast structural panels. 3,747,292, 7-24-73, Cl. 52-396.000.
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Pilkington, Russell T., Sr.; and Pilkington, Russell T., Jr., to Ney, J. M., Company, The. Muffle construction. 3,749,882, 7-31-73, Cl. 219-390.000.
Pillard, Claude, to Centre Technique du Cuir. Treatment barrel. 3,735,611, 5-29-73, Cl. 69-30.000.
Pillard, Marcel T., to Entreprise Generale de Chauffage Industriel Pillard Freres et Cie. Burning Liquid fuels. 3,775,038, 11-27-73, Cl. 431-175.000.
Pillard, Marcel T., to Entreprise Generale de Chauffage Industriel Pillard Freres et Cie. Burners for liquid or gaseous fuels. 3,775,039, 11-27-73, Cl. 431-350.000.
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Piller, Bernhard, to Ciba-Geigy AG. Photographic light-sensitive silver halide material containing azo dyes. 3,749,576, 7-31-73, Cl. 96-99.000.
Piller, Richard G., to Reynolds Metals Company. Method for controlling a reduction cell. 3,712,857, 1-23-73, Cl. 204-67.000.
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Pilloff, Herschel S.; Searless, Stuart K.; and Djeu, Nicholas I., to United States of America, Navy. Continuous wave, free-burning flame laser. 3,760,293, 9-18-73, Cl. 331-94.500.
Pillon, Daniel; Poignant, Pierre; and Caffiero, Rudolphe, to PERRO, Societe pour de Developpment et la Vente de Specialities Chimiques. Herbicidal para-tert-butylphenyl urea. 3,779,738, 12-18-73, Cl. 71-120.000.
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Pinckaers, Balthasar H., to Honeywell Inc. Power supply and phase responsive apparatus. 3,742,339, 6-26-73, Cl. 323-119.000.
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Pineau, Andre Lucien. Shock and vibration damper. 3,738,633, 6-12-73, Cl. 267-141.000.
Pineau, Andre Lucien. Shock and vibration damper. 3,751,024, 8-7-73, Cl. 267-153.000.
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Pirc, Anton. Rotary curie point magnetic engine. 3,743,866, 7-3-73, Cl. 310-4.000.
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Pistiner, Irving. Liquid filtering apparatus. 3,722,682, 3-27-73, Cl. 210-123.000.
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Pitacco, Sergio, to ITT Industries, Inc. Lamp holder. 3,775,728, 11-27-73, Cl. 339-14.00r.
Pitacco, Sergio, to ITT Industries, Inc. Lamp holder. 3,781,755, 12-25-73, Cl. 339-14.00r.
Pitbladdo, Richard B.: *See—*
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Pitchford, Armin C., to Phillips Petroleum Company. Desulfurization of heavy liquid hydrocarbon with carbon monoxide at high pressure. 3,728,252, 4-17-73, Cl. 208-243.000.
Pitchford, Armin C., to Phillips Petroleum Company. Soil control emulsions. 3,753,752, 8-21-73, Cl. 106-277.000.
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Pitel, Guy Bernard, to Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France. Injectable 3-hydroxy-pregnane-11,20-dione anesthetic compositions. 3,769,421, 10-30-73, Cl. 424-243.000.
Pitesky, Isadore; and Barsby, James B. Portable hyperventilation relieving device. 3,776,227, 12-4-73, Cl. 128-203.000.
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Pitner, Alfred, 1/2 to Nadella. Method of making a composite bearing ring. 3,710,471, 1-16-73, Cl. 29-148.40r.
Pitner, Alfred, 1/2 to Nadella. Sealing device for a bearing mounted on a shaft. 3,717,394, 2-20-73, Cl. 308-187.100.
Pitner, Alfred, 1/2 to Nadella. Method of making universal joints. 3,753,277, 8-21-73, Cl. 29-148.40a.
Pitner, Alfred, 1/2% to Nadella. Combined radial and thrust bearing. 3,765,736, 10-16-73, Cl. 308-174.000.
Pitner, Alfred, 1/2 to Nadella. Connecting means having a split collar. 3,767,235, 10-23-73, Cl. 403-344.000.
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Pitroda, Satyan G.; and Rekiere, Bernard J., to GTE Automatic Electric Laboratories, Incorporated. Asynchronous data transmission over a pulse code. 3,760,371, 9-18-73, Cl. 340-172.500.
Pitsch, Ronald D., to White Farm Equipment Company. Draft responsive three-point hitch. 3,768,568, 10-30-73, Cl. 172-7.000.
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Pitt, Larry L.; and Starbuck, James W., to Mallinckrodt Chemical Works. Haloapatite phosphors in the form of spherical particles and method of making same. 3,709,826, 1-9-73, Cl. 252-301.40p.
Pitt, Richard E., to Owens-Corning Fiberglas Corporation. Method and means for strand filament dispersal. 3,760,458, 9-25-73, Cl. 19-66.00t.
Pittaway, Lawrence Graham, to U.S. Philips Corporation. Ion gauges. 3,742,343, 6-26-73, Cl. 324-33.000.
Pittet, Alan O.; Mason, Michael E.; Theimer, Ernst T.; and Tibbetts, Merrick S., to International Flavors & Fragrances Inc. Bicyclic pyrazine compositions for flavoring processes. 3,748,145, 7-24-73, Cl. 99-140.00r.
Pittet, Alan O.; and Muralidhara, Ranya, to International Flavors & Fragrances Inc. Flavoring and fragrance compositions and processes. 3,754,934, 8-28-73, Cl. 99-140.00r.
Pittet, Alan O.; and Hruza, Denis E., to International Flavors & Fragrances Inc. Substituted thiazoles in flavoring processes and products produced thereby. 3,769,040, 10-30-73, Cl. 426-65.000.
Pittet, Alan O.; Muralidhara, Ranya; and Theimer, Ernst T., to International Flavors & Fragrances Inc. Flavoring with bicyclic dehydropiperazines. 3,773,525, 11-20-73, Cl. 426-222.000.
Pitti, Joseph J.; and Tassone, George A., to Atreo Manufacturing Co., Inc. Pool cover. 3,732,581, 5-15-73, Cl. 4-172.120.
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Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Siloxane polymers for soil-repellent and soil-release textile finishes. 3,716,518, 2-13-73, Cl. 260-46.50y.
Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Preparation of fluorinated esters. 3,716,577, 2-13-73, Cl. 260-486.00h.
Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Polymers of fluorinated epoxides and use thereof. 3,720,630, 3-13-73, Cl. 260-2.00a.
Pittman, Allen G.; and Wasley, William L., to United States of America, Agriculture. Fluorinated glycidyl ethers and use thereof. 3,766,219, 10-16-73, Cl. 260-348.00r.
Pittman, Carl R.; and Long, James A., to Arvin Industries, Inc. Touch tuning and control circuits. 3,777,290, 12-4-73, Cl. 334-15.000.
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Pittman, E. Henry, to Deering Milliken Research Corporation. Nonwoven textile fabric. 3,753,842, 8-21-73, Cl. 161-57.000.
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Pittman, Paul F., to Westinghouse Electric Corporation. Insulation test apparatus of the high frequency voltage discharge type with improved switching arrangement to initiate discharge. 3,731,185, 5-1-73, Cl. 324-54.000.
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Pittner, John R., to Westinghouse Electric Corporation. Constant torque and inertia control for armature current regulated DC motor with field weakening. 3,735,226, 5-22-73, Cl. 318-338.000.



Pittner, John R., to Westinghouse Electric Corporation. Tension control including motor speed regulation system. 3,749,989, 7-31-73, Cl. 318-6.000.
Pittner, John Richard, to Westinghouse Electric Corporation. Constant tension control system for a DC reel drive motor. 3,749,988, 7-31-73, Cl. 318-6.000.
Pittoreau, Pierre, to Societe des Aciers Fins de l'Est. Chain conveyors with standardized elements. 3,743,078, 7-3-73, Cl. 198-121.000.
Pitts, Charles A., to Dow Chemical Company, The. Drag block and slip assembly. 3,710,866, 1-16-73, Cl. 166-216.000.
Pitts, Felix L.; and Spencer, John L., to United States of America, National Aeronautics and Space Administration. Electronic strain-level counter. 3,733,424, 5-15-73, Cl. 73-88.50r.
Pitts, James J.; and Babiec, John S., Jr., to Olin Corporation. Process for trimerizing polyisocyanates with pyrazins catalysts. 3,759,916, 9-18-73, Cl. 260-77.5nc.
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Pitts, John O. Fishing lure. 3,769,739, 11-6-73, Cl. 43-42.350.
Pitts, Ralph W.; and Thomas, McKinely B., to United States Steel Corporation. Inside pipe burr removal tool. 3,722,362, 3-27-73, Cl. 90-24.00b.
Pitts, Robert W. Packaging apparatus for packaging continuous production of a discrete product in predetermined quantities. 3,732,665, 5-15-73, Cl. 53-62.000.
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Pitts, Sam H., Jr., to United States of America, Atomic Energy Commission. Plutonium dissolution and plutonium alkoxide product. 3,718,677, 2-27-73, Cl. 260-429.100.
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Pitzer, Emory W., to Phillips Petroleum Company. Oxidative-dehydrogenation catalysts. 3,732,327, 5-8-73, Cl. 260-680.00e.
Pitzer, Emory W., to Phillips Petroleum Company. Tin-phosphorus catalyzed oxidative dehydrogenation. 3,775,508, 11-27-73, Cl. 260-680.00e.
Pitzer, Kenneth H., to Adjustable Bushing Corporation. Quick acting, high tensile, blind fastener. 3,709,088, 1-9-73, Cl. 85-74.000.
Pivawer, Philip M., to Techni-Chem Company, The. Process for cleaving 2-nitrocyclohexanone using 6-aminocaproic acid as a catalyst. 3,708,472, 1-2-73, Cl. 260-239.30a.
Pives, Seemon H., to Merck & Co., Inc. Preparation of amino acid derivatives. 3,716,573, 2-13-73, Cl. 260-471.00a.
Pivette, Pierre, to Pierrefitte-Auby. Method of synthesizing tertiary aliphatic amines by amination of alkyl halides. 3,764,626, 10-9-73, Cl. 260-583.00r.
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Piziks, Henry I., to General Motors Corporation. Transmission control. 3,762,238, 10-2-73, Cl. 74-485.000.
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Plake, William Edgar, to Brown & Root, Inc. Conical stabbing guide and clamp system for riser pipe installation. 3,739,592, 6-19-73, Cl. 61-72.100.
Plakunov, James; and Koller, James Edward, to Eastman Kodak Company. Silver halide emulsion sensitized with thioamine-glutaraldehyde or acrylic aldehyde adduct. 3,708,302, 1-2-73, Cl. 96-107.000.
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Plamper, Gunter F., to MTD Products Inc. Variable speed drive having speed limiting means. 3,759,342, 9-18-73, Cl. 180-70.00r.
Plamper, Gunter F., to MTD Products Inc. Variable speed drive having speed limiting means. 3,777,585, 12-11-73, Cl. 74-230.17d.
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Plank, Karl-Ludwig; and Schwarzer, Michael, to Telefonbau und Normalzeit G.m.b.H. Time division multiplex telephone system with parallel transmission. 3,740,482, 6-19-73, Cl. 179-15.00a.
Plank, Robert E.; and Rutkowski, Michael D., to Biomarine Industries, Inc. Galvanic cells. 3,711,395, 1-16-73, Cl. 204-195.00p.
Plankinton, Robert. Apparatus for detecting the ability of paper to withstand printing processes and the like. 3,757,574, 9-11-73, Cl. 73-150.00a.
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Plantard, Bernard. Continuous sheet slitting mills. 3,735,937, 5-29-73, Cl. 242-75.200.
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Plaquet, Jacques Jules; and Van Swieten, Raymond Gerard. Installation for the evacuation of rocks from a working to a continuous transporter. 3,744,615, 7-10-73, Cl. 198-36.000.
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Plasko, Emil Robert; Kohl, James Allen; and Hutchison, Michael Raymond, to Micro Devices Corporation. Thermal limiter constructions. 3,731,248, 5-1-73, Cl. 337-208.000.
Plasko, Emil Robert, to Micro Devices Corporation. Portable electric hand-held clothes steamer. 3,742,629, 7-3-73, Cl. 38-69.000.
Plasko, Emil Robert, to Micro Devices Corporation. Thermal limiter for one or more electrical circuits and method of making the same. 3,764,948, 10-9-73, Cl. 337-163.000.
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Plasser, Franz; and Theurer, Josef. Mobile ballast treating and rail fastening element engaging tool unit. 3,722,423, 3-27-73, Cl. 104-17.00r.
Plasser, Franz; and Eglseer, Franz, to Plasser, Franz, Bahnbaumaschinen-Industriegesellschaft m.b.H. Mobile track survey apparatus for determining grade variations. 3,735,495, 5-29-73, Cl. 33-144.000.
Plasser, Franz; and Theurer, Josef. Drive for vibrating a track maintainance machine tool. 3,735,708, 5-29-73, Cl. 104-12.000.
Plasser, Franz; and Theurer, Josef. Mobile track leveling and ballast tamping machine. 3,744,428, 7-10-73, Cl. 104-12.000.
Plasser, Franz; Theurer, Josef; and Schweinhammer, Manfred, to Plasser, Franz, Bahnbaumaschinen- Industriegesellschaft m.b.H. Mobil track survey apparatus for determining the tract camber. 3,751,815, 8-14-73, Cl. 33-146.000.
Plasser, Franz; and Theurer, Josef. Mobile track gage measuring apparatus. 3,768,168, 10-30-73, Cl. 33-144.000.
Plasser, Franz; and Theurer, Josef. Mobile track survey apparatus for determining the track camber. 3,769,715, 11-6-73, Cl. 33-338.000.
Plasser, Franz; and Theurer, Josef. Control for the lateral adjustment of a track working tool assembly. 3,779,170, 12-18-73, Cl. 104-12.000.
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Platt, David M. H., to Corning Glass Works. Method for determining concentration of an element in a sample. 3,764,484, 10-9-73, Cl. 204-1.00t.
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Platt, James L., Jr., to Chevron Research Company. Preparation of phosphoroamidothionate by ketene acylation. 3,775,519, 11-27-73, Cl. 260-984.000.
Platt, John D., to MSI Data Corporation. Magnetic tape transport. 3,751,042, 8-7-73, Cl. 274-4.00c.
Platt, John D., to MSI Data Corporation. Wire type tape printing apparatus. 3,770,091, 11-2-73, Cl. 197-1.00r.
Platt, John G.; and Isaacs, Robert O., to Flex-O-Lators, Inc. Spring deck and insulator for furniture. 3,733,625, 5-22-73, Cl. 5-354.000.
Platt, John Robert, to American Can Company. Full or partial opening easy-open container end closure. 3,726,434, 4-10-73, Cl. 220-54.000.
Platt, Richard Bibby; and McCue, Bernard Beverly, to RCA Corporation. Method for separating chemically-oxidizable phosphor particles from mixtures with essentially nonoxidizable phosphor particles. 3,740,342, 6-19-73, Cl. 252-301.650.
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Platz, Gerald M.; Palmer, William H.; and Mauck, James W., to National Distillers and Chemical Corporation. Stirrer and radioactive source for polymerization reactor. 3,708,410, 1-2-73, Cl. 204-193.000.
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Plomer, John J.; Doan, Hazen V.; and Slykhouse, Thomas E., to Dow Chemical Company, The. Mixer-molder. 3,718,069, 2-27-73, Cl. 86-20.00d.
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Plowman, James S.; and Fowkes, Ivar G., to United Aircraft Corporation. Composite strut joint construction. 3,778,185, 12-11-73, Cl. 415-217.000.
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Plumat, Emile; and Leger, Lucien, to Glaverbel S.A. Apparatus for diffusion treatments of selected body. 3,755,684, 8-28-73, Cl. 250-542.000.
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Plummer, Merle A., to Myers Electric Products, Inc. Multiple connectable power outlet box with conduit separating baffles. 3,753,049, 8-14-73, Cl. 317-107.000.
Plummer, Merle A., to Myers Electric Products, Inc. Power outlet box and separable pedestal. 3,761,780, 9-25-73, Cl. 317-120.000.
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Smith, Arthur W.; Plummer, Ray A.; and Johnson, Charles Wayne, 3,722,594.
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Plummer, William T., to Polaroid Corporation. Reflective imaging apparatus. 3,735,685, 5-29-73, Cl. 95-42.000.
Plummer, William T., to Polaroid Corporation. Camera with stigmatic Fresnel optical element. 3,744,391, 7-10-73, Cl. 95-42.000.
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Plummer, William T.; Salomon, Udo W.; and Ting, Lawrence K., to Polaroid Corporation. Mirror testing apparatus. 3,761,179, 9-25-73, Cl. 356-120.000.
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Pluschke, Manfred, to Kraftwerk Union Aktiengesellschaft. Apparatus for supplying cooling water to the cooling channels of the rotors of electrical machines. 3,711,731, 1-16-73, Cl. 310-53.000.
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Pober, Zalmon. Method of inhibiting appetite for food. 3,740,440, 6-19-73, Cl. 424-320.000.
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Podesva, Ctirad; and Scott, William T., to Delmar Chemicals, Limited. 1-R, -3-(3-phthalimido-alkyloxy)-5-or-6-R-1H-indazole compounds. 3,767,670, 10-23-73, Cl. 260-310.00c.
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Podgorski, Theodore J., to Honeywell Inc. Externally biased ring laser. 3,744,908, 7-10-73, Cl. 356-106.0rl.
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Podlas, Thomas J., to Hercules Incorporated. Process of preparing CMC gels. 3,719,503, 3-6-73, Cl. 99-129.000.
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Podmore, Alan William Ronald; and Page, Ian Bruce, to AMP Incorporated, mesne. Housing for electrical connectors. 3,727,174, 4-10-73, Cl. 339-210.00m.
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Poe, Lloyd Richard; and Henrichs, Bernard W., to Hartwell Corporation. Overhead door control device. 3,773,311, 11-20-73, Cl. 267-114.000.
Poel, Lawrence R. Purity and blue lateral assembly for delta beam type cathode ray tube. 3,781,731, 12-25-73, Cl. 335-212.000.



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Poenisch, Richard Bruce; and Birch, Fernando Francis, to Oxirane Corporation. Hydroperoxide treatment. 3,778,382, 12-11-73, Cl. 252-326.000.
Poepsel, James R.; and Weber, Paul S. Furnace silencers. 3,748,085, 7-24-73, Cl. 431-114.000.
Poeschel, Gordon Paul; and Pankavich, John Anthony, to American Cyanamid Company. Method of using di, tri-and tetra chlorobenzonitriles for controlling helminths. 3,764,697, 10-9-73, Cl. 424-304.000.
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Pogonowski, Ivo C. Clamping device for closing an uncontrollably flowing submerged well. 3,740,017, 6-19-73, Cl. 251-5.000.
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Pollack, Slava A., to TRW Inc. System for converting infrared into shorter wavelength radiation. 3,764,807, 10-9-73, Cl. 250-330.000.
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Pommerening, Uwe A., to Stromberg-Carlson Corporation. Synthesis of digital signals corresponding to selected analog signals. 3,742,197, 6-26-73, Cl. 235-152.000.
Pommerening, Uwe A. Digital central switching office for telephone system. 3,761,619, 9-25-73, Cl. 179-15.0at.
Pommerrenig, Hans D.: *See—*
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Pommier, Pierre, to Societe Anonyme dite: Cefilac. Device for setting fire rings in cylinder head gaskets. 3,737,967, 6-12-73, Cl. 29-200.00b.
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Fridman, Georgy Nikolaevich; Fialkov, Abram Samuilovich; Davidovich, Yakov Gilievich; Ivanova, Irina Dmitrievna; Sysoeva, Ljudmila Petrovna; Gluskin, Abram Ykovlevich; Galiskarov, Rimm Zigangirovich; Liberman, Esfir Lvovna; and Pomortseva, Vera Stepanovna, 3,751,294.
Pomot, Jean; and Rosenbaum, Georges, to Societe Anonyme dite: L'Oreal. Process for coloring the skin with α-dialdehydes. 3,781,418, 12-25-73, Cl. 424-63.000.
Pomp, Horst: *See—*
Markwitz, Bernhard; and Pomp, Horst, 3,756,393.
Pompa, Leonard A., to Universal Oil Products Company. Flange-free venturi nozzle insert. 3,774,645, 11-27-73, Cl. 138-44.000.
Pompeev, Vladimir Mikhailovich: *See—*
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Pompei, Jean; and Guiochon, Paul, to U.S. Philips Corporation. Cathode sputtering etching device with movable guard ring. 3,730,873, 5-1-73, Cl. 204-298.000.
Pompei, Jean; and Le Vacon, Yannick, to U.S. Philips Corporation. Method of determining the thickness of a layer of dielectric material during its growth. 3,775,277, 11-27-73, Cl. 204-192.000.
Pompeo, Louis, to Duchess Mfg. Corporation. Link chain. 3,726,083, 4-10-73, Cl. 59-85.000.
Pomper, Anthony W.: *See—*
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Poncha, Rustom Pestonji; Garofano, Norman Rutledge; and Gancy, Alan Brian, to Allied Chemical Corporation. Sodium carbonate crystallization process with foam prevention. 3,725,014, 4-3-73, Cl. 23-300.000.
Poncy, George W. Sterile package for clinical thermometers and the like and method of making it. 3,732,975, 5-15-73, Cl. 206-63.200.
Ponczek, George M.; Cousins, Otto J.; and Copeland, William M., to Sunbeam Corporation. Can opener. 3,765,085, 10-16-73, Cl. 30-4.00r.
Pond, Charles W., to Hughes Aircraft Company. Crystal filter circuit with sharply defined passband wedge. 3,737,814, 6-5-73, Cl. 333-72.000.
Pond, George R.: *See—*
Rylander, Paul N.; Karpenko, Irene M.; and Pond, George R., 3,715,397.
Pond, John E. Bread slice coating applicator. 3,710,754, 1-16-73, Cl. 118-13.000.
Pond, Raymond B. Electrically actuated lock mechanism. 3,731,963, 5-8-73, Cl. 292-144.000.
Pond, Robert B., to Atom Manufacturing Co., Inc. Degassing apparatus for a fish aquarium or the like. 3,778,976, 12-18-73, Cl. 55-206.000.



Pond, William W., to Marvalaud, Inc. Crystal sketching. 3,773,576, 11-20-73, Cl. 156-6.000.
Pondelicek, William J.; and Schmidt, Vernon F., to Heich Die Casting Corporation. Apparatus for lubricating a die structure employed in die casting. 3,779,305, 12-18-73, Cl. 164-312.000.
Ponder & Best, Inc.: *See—*
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Ponder, Billy W.; and Barnhill, Charles W., to United States of America, Army. Synthesis ferrocenyl butadiene compounds. 3,739,004, 6-12-73, Cl. 260-439.0cy.
Ponghis, Nicolas Gerassimos; and Van Osmael, Claude Henri, to Centre National de Recherches Metallurgiques. Method and device for monitoring the working of a furnace. 3,718,758, 2-27-73, Cl. 178-6.800.
Ponomarenko, Vladimir Ivanovich: *See—*
Liakumovich, Alexandr Grigorievich; Michurov, Jury Ivanovich; Kiam, Nonna Fedorovna; Sobolev, Valerian Mikhailovich; and Ponomarenko, Vladimir Ivanovich, 3,751,509.
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Pons, Amedee. Mechanism for lowering and raising clockwork parts into and out of a working vat. 3,768,320, 10-30-73, Cl. 74-53.000.
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Pontecorvo, Nicholas E., to Pontecorvo R & D Company. Process for producing Ricotta cheese. 3,732,110, 5-8-73, Cl. 99-116.000.
Pontecorvo, Nicholas E., to Pontecorvo R & D Company. Preparation of Ricotta cheese. 3,741,773, 6-26-73, Cl. 99-116.000.
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Pontello, Anthony P., to United States of America, Navy. Apparatus for non-destructively testing fuel filters. 3,736,790, 6-5-73, Cl. 73-37.000.
Ponthoreau, Marcel Maximilien; and Rozen, Claude Yves Marie, to Martell & Co. High-intensity burner for combustible gas. 3,716,324, 2-13-73, Cl. 431-185.000.
Ponthus, Louis: *See—*
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Ponting, James D., to United States of America, Agriculture. Preservation of apple slices with a solution consisting of ascorbic acid, calcium chloride and sodium bicarbonate. 3,754,938, 8-28-73, Cl. 99-154.000.
Pontis, William Grant. Rotatable shaft and a rotatable member with a magnetic coupling therebetween. 3,778,738, 12-11-73, Cl. 335-306.000.
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Pontoriero, Emanuele. Projectile for smooth barrel hunting guns or rifles, with auxiliary wad provided with helical side tabs. 3,713,388, 1-30-73, Cl. 102-38.000.
Ponvert, Edwin K. Hemorrhoid treatment preparation produced from hot cherry peppers. 3,781,424, 12-25-73, Cl. 424-195.000.
Ponzetti, William John: *See—*
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Ponzoni, George B.; Protomastro, Michael G.; and Stefanucci, Arthur, to General Foods Corporation. Process for upgrading green coffee. 3,767,418, 10-23-73, Cl. 426-461.000.
Ponzoni, George Bernard: *See—*
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Poocza, Antal; and Mueller, Hans, to Fouquet-Werk Frauz & Planck. Fabric pull-off mechanism, particularly for circular knitting machines. 3,760,609, 9-25-73, Cl. 66-149.00r.
Pook, Karl-Heinz: *See—*
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Poole, Clarence A. Semiconductor heat-fault detector. 3,760,182, 9-18-73, Cl. 250-85.000.
Poole, Clarence A. Frame. 3,762,080, 10-2-73, Cl. 38-102.910.
Poole, Donald R.: *See—*
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Poole, James P.; Snyder, Herbert C.; and Boschini, Mark A., to Brockway Glass Company, Inc. Method of strengthening glass and increasing the scratch resistance of the surface thereof. 3,743,491, 7-3-73, Cl. 65-30.000.
Poole, Richard R.; and Bulkley, David D., to Irtronics, Inc. Infrared temperature sensor and control for use with heated, moving bodies. 3,742,191, 6-26-73, Cl. 219-471.000.
Pooley, Charles Kent; and Dillingham, Edward, to Data Source Corporation. Phototransistor automatic gain control. 3,743,837, 7-3-73, Cl. 250-206.000.
Poon, Siu Yun; Quicke, Kenneth George; and Stratford, David James, to Clayton Dewandre Company Limited. Heat exchangers. 3,762,467, 10-2-73, Cl. 165-163.000.
Poor, John Gove; and Rynne, George Bernard, to Conversion Chemical Corporation. Method and composition for electroplating zinc. 3,730,855, 5-1-73, Cl. 204-55.
Poor, John Gove; and Hsu, Grace F. Ammoniacal etching solution and method utilizing same. 3,753,818, 8-21-73, Cl. 156-19.000.
Poore, Ernest C.; and Goforth, John A., to Midwestern Specialties Ltd. Pipe handling method and apparatus. 3,779,696, 12-18-73, Cl. 432-6.000.
Poos, George Ireland, to McNeil Laboratories, Inc. 2-Imino-pyrrolidines. 3,725,435, 4-3-73, Cl. 260-326.50d.
Poot, Albert Lucien: *See—*
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Poot, Albert Lucien; and Hazenbosch, Edwin Hendrik, to Agfa-Gevaert. Stabilizing with iodide an imagewise exposed photosensitive composition containing a halogenated photoactivator and an organic amine color former. 3,708,297, 1-2-73, Cl. 96-48.000.
Poot, Albert Lucien; Van Besauw, Jan Frans; Von Konig, Anita; and Kampfer, Helmut, to Agfa-Gevaert Aktiengesellschaft. Photographic dry copying material. 3,728,115, 4-17-73, Cl. 96-29.00d.
Poot, Albert Lucien; Van Besauw, Jan Frans; and Ghys, Theofiel Hubert, to Agfa-Gevaert N.V. Positive working photo-thermographic materials containing bi-imidazolyl compounds and reducing agents and the use thereof in color development. 3,734,733, 5-22-73, l. 96-48.0hd.
Poot, Albert Lucien; and Van Besauw, Jan Frans, to Agfa-Gevaert N.V. Photo-thermographic recording process with 5-pyrazolane. 3,753,395, 8-21-73, Cl. 96-28.000.
Poot, Albert Lucien; Heugebaert, Frans Clement; Brinckman, Eric Maria; Von Konig, Anita; and Kampfer, Helmut, to Agfa-Gevaert Aktiengesellschaft. Lightsensitive photographic material. 3,770,448, 11-6-73, Cl. 96-114.100.
Poot, Albert Lucien; Van Besauw, Jan Frans; Heugebaert, Frans Clement; and Brinckman, Eric Maria, to Agfa-Gevaert N.V. Photothermic material containing a light-insensitive silver salt and an indane-1,3-dione reducing agent. 3,773,512, 11-20-73, Cl. 96-48.0d.
Poot, Pieter. Dough divider. 3,773,448, 11-20-73, Cl. 425-93.000.
Pope, Adam N., to General Electric Company. Force balanced split ring dynamic shaft seals. 3,743,303, 7-3-73, Cl. 277-27.000.
Pope, Gerald R.: *See—*
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Pope, Kenneth W., to Du Pont of Canada Limited. Method of fabricating a building panel containing cellular polyurethane. 3,715,417, 2-6-73, Cl. 264-45.000.
Pope, Ralph, to Heinemann Electric Company. Time delay actuator. 3,729,696, 4-24-73, Cl. 335-62.000.
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Popeil, Samuel J., to Popeil Brothers, Inc. Demountable handle assembly. 3,727,956, 4-17-73, Cl. 287-2.000.
Popeil, Samuel J., to Popeil Brothers, Inc. Quick change display frame. 3,754,343, 8-28-73, Cl. 40-155.000.
Popeil, Samuel J., to Popeil Brothers, Inc. Mop bucket. 3,756,451, 9-4-73, Cl. 220-96.000.
Popeil, Samuel Joseph; and Kupka, James Harold, to Popiel Brothers, Inc. Mop head for a wringer type mop holder. 3,750,220, 8-7-73, Cl. 15-228.000.
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Popescu, Francine. Zinc electroplating baths. 3,773,630, 11-20-73, Cl. 204-55.00r.
Popescu, Gabriel, to Surgical Design Corporation. Generator for producing ultrasonic energy. 3,727,112, 4-10-73, Cl. 317-146.000.
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Popovitsch, Ernst, to Nagele, Karl F., Dr., Feinmaschinenbau. Apparatus for manufacturing a continuous stringer for a sliding clasp fastener. 3,729,800, 5-1-73, Cl. 29-207.50r.
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Poppe, Martin C., Jr.; Beukers, John M.; Meranda, James I.; and Williams, Christian B., to Beukers Laboratories, Inc. Loran-C third cycle identification through the use of omega. 3,754,260, 8-21-73, Cl. 343-103.000.
Poppe, Martin C., Jr.; and Friedman, Maurice, to Beukers Laboratories, Inc. Radiosonde meteorological data oscillator and pulse stretcher. 3,781,715, 12-25-73, Cl. 332-9.00t.
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Popper, Jakhin Boaz; and Cohen, Raphael, to Israel, Ministry of Defense, The State of. Device for providing and indication of the distance travelled by an object under conditions of acceleration. 3,744,424, 7-10-73, Cl. 102-78.000.
Popper, Thomas L., to Schering Corporation. 3,5-Androstadieno-(3,4-d)-(2-imino-3-substituted)-thiazolines, isomers thereof, methods for their manufacture and intermediates useful therein. 3,772,283, 11-13-73, Cl. 260-239.500.
Poppincer, Herbert; and Hubner, Klaus, to Siemens Aktiengesellschaft. Control circuit for an inverter including a controlled thyristor in an intermediate direct current circuit. 3,780,361, 12-18-73, Cl. 318-171.000.
Poppinger, Herbert; and Liska, Manfred, to Siemens Aktiengesellschaft. System for regulating the speed of an axially driven winder drive. 3,713,009, 1-23-73, Cl. 318-6.000.
Poppinger, Herbert; and Huber, Klaus, to Siemens Aktiengesellschaft. Control circuit for an electric machine having an electronic commutator. 3,778,691, 12-11-73, Cl. 318-254.000.
Poppitz, Harold A. Cleaner assembly. 3,748,050, 7-24-73, Cl. 401-289.000.
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Poran, Michael, to Officine Meccaniche Danieli. Continuous centrifugal casting apparatus for hollow shapes. 3,771,587, 11-13-73, Cl. 164-282.000.
Porath-Furedi, Asher. Method and apparatus for measuring the degree of asymmetry of non-spherical particles. 3,733,136, 5-15-73, Cl. 356-197.000.
Porazinski, Robert F., to Bell & Howell Company. Film magazine with drive capstan. 3,779,484, 12-18-73, Cl. 242-199.000.
Porcelli, John C., to Federal Tool & Plastics. Plastic dispensing nozzle with a ball valve. 3,779,429, 12-18-73, Cl. 222-500.000.
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Poretti, Isidoro, to Societa Italiana Telecomunicazioni Siemens S.p.A. Time-slot-allocation network for multi-plex telecommunication system. 3,749,842, 7-31-73, Cl. 179-15.0by.
Poretti, Isidoro; and Bernasconi, Gabriele, to Societa Italiana Telecomunicazioni Siemens S.p.A. Circuit arrangement for the controlled energization of a load. 3,750,141, 7-31-73, Cl. 340-347.0da.
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Porret, Daniel; Habermeier, Juergen; and Batzer, Hans, to Ciba-Geigy AG. Adducts, containing epoxide groups, from polyepoxide compounds and binuclear N-heterrocyclic compounds. 3,779,949, 12-18-73, Cl. 260-2.00n.
Porrmann, Herbert; Klenk, Ludwig; and Loffler, Manfred, to Kalle Aktiengesellschaft. Process and apparatus for the continuously densifying nonwoven webs. 3,747,174, 7-24-73, Cl. 26-18.500.
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Porsche, Ferdinand Anton Ernst, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Swingable headlight for vehicles. 3,731,079, 5-1-73, Cl. 240-7.10h.
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Port, Max Alth. Single-coil linear motors. 3,735,162, 5-22-73, Cl. 310-13.000.
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Porta, Paolo Della; and Rebaudo, Mauro, to S.A.E.S. Getters S.p.A. Mercury generation. 3,733,194, 5-15-73, Cl. 75-.50r.
Porta, Paolo Della; Zucchinelli, Mario; and Pisani, Cesare, to S.A.E.S. Getters S.p.A. Getter pumps. 3,780,501, 12-25-73, Cl. 55-208.000.
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Porteous, Don D. Method for preparing syringe type vials of hydrocolloid impression material. 3,731,453, 5-8-73, Cl. 53-37.000.
Porter, Allan W. H. Yarn holding device for a picking element of a loom. 3,719,211, 3-6-73, Cl. 139-122.00n.
Porter, Alvin J., to Product Design & Engineering, Inc. Method of mounting a sealing disc in a cap for a container. 3,751,787, 8-14-73, Cl. 29-421.00r.
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Porter, Brooks W. Method of prearranging playing cards for educational and entertainment purposes. 3,716,238, 2-13-73, Cl. 273-149.00p.
Porter, Carl D., to Freid. E. Victor. Golf ball mold production. 3,772,008, 11-13-73, Cl. 75-214.000.
Porter, Cecil Lloyd. Recycle power unit. 3,736,068, 5-29-73, Cl. 415-89.000.
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Porter, David; Campbell, William Shore; and Duck, Edward William, to International Synthetic Rubber Company Limited, The. Process for producing moulded foams from rubber-latices by using microwave heating. 3,737,488, 6-5-73, Cl. 264-26.000.
Porter, David H.; and Raddatz, Gene R., to Thomas Industries, Inc. Mounting device for lighting fixtures. 3,719,818, 3-6-73, Cl. 240-52.00r.
Porter, David H.; Kemmerer, Wayne; and Bray, Douglas, to Thomas Industries Inc. Foldable chandelier. 3,735,123, 5-22-73, Cl. 240-78.00f.
Porter, Don B., Jr. Method and means for acoustic energy conversion. 3,760,139, 9-18-73, Cl. 219-10.650.
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Porter, Irwin C.; Barcus, Jack L.; Bear, David L.; and Marshall, James E., to Mattel, Inc. Phonograph toy. 3,774,914, 11-27-73, Cl. 274-1.00a.
Porter, James E., Jr. Adjustable and folding outdoor grill and crane. 3,719,181, 3-6-73, Cl. 166-30.000.
Porter, James M., to Trane Company, The. Double effect absorption heating and cooling system. 3,710,852, 1-16-73, Cl. 165-62.000.
Porter, James M., to Trane Company, The. High pressure multiple pump for absorption refrigeration machine. 3,721,109, 3-20-73, Cl. 62-476.000.
Porter, John H.; and Swift, Robert O., to Ametek, Inc. Motor-fan unit for moving wet working air. 3,733,150, 5-15-73, Cl. 417-424.000.
Porter, John Halsted; and Ladd, William Alexander, to Ladd Research Industries, Incorporated. Tilting variable speed rotary shadower. 3,749,052, 7-31-73, Cl. 118-48.000.
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Porter, Kenneth; and Richardson, Brian, to Imperial Chemical Industries Limited. Polycarbonamide preparation with diffusion of volatile by-products. 3,773,738, 11-20-73, Cl. 260-78.00r.
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Porter, Lawrence C., to Upjohn Company, The. Apparatus for forming urethane foam stock. 3,734,668, 5-22-73, Cl. 425-330.000.
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Porter, Milton; Kearns, Warren; Washek, Conrad; and Lambert, Paul, to Foster, L. B., Company. Methods for making bi-metallic pipe. 3,735,478, 5-29-73, Cl. 29-477.300.
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Porter, Robert J.; and Mc Farlin, Stanley B., to Gorman-Rupp Company, The. Self-priming centrifugal pump with automatic air release valve. 3,741,675, 6-26-73, Cl. 415-11.000.
Porter, Robert J., to Gorman-Rupp Company, The. Shaft seals. 3,762,724, 10-2-73, Cl. 277-21.000.
Porter, Russell W.; and Riley, John C., to General Electric Company. Variable nozzle area control system. 3,747,344, 7-24-73, Cl. 60-242.000.
Porter, Samuel, Jr.; Hart, Donald P.; and Seiner, Jerome A., to PPG Industries, Inc. Method of spraying thermoplastic paint compositions. 3,713,872, 1-30-73, Cl. 117-75.000.
Porter, Sidney Clark, Jr.: *See—*
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Porter, Stuart M.; Weimer, Ervin C.; and Shideler, Harold W., to Stearns-Roger Corporation. Solid waste disposal method and apparatus. 3,716,002, 2-13-73, Cl. 110-14.000.
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Porter, Virginia I. Steam cleaning machine. 3,755,850, 9-4-73, Cl. 15-320.000.
Porter, Wellington W. Asparagus harvester. 3,760,573, 9-25-73, Cl. 56-327.00a.
Porter, Wellington W. Turtle grass harvester. 3,765,156, 10-16-73, Cl. 56-8.000.
Porter, Wilbur Arthur, to Texas Instruments, Incorporated. Continuous deposition system. 3,710,757, 1-16-73, Cl. 118-48.000.
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Porth, Karl A. Ski boot buckle. 3,729,779, 5-1-73, Cl. 24-68.0sk.
Portilla, Mario, Jr. Sewing machine attachment. 3,760,746, 9-25-73, Cl. 112-134.000.
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Priaroggia, Paolo Gazzana; and Portinari, Antonio, 3,769,697.
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Portmann, August Thomas, to Bruderer AG. Apparatus for changing the operating stroke of a punch press. 3,765,266, 10-16-73, Cl. 74-571.00m.
Portmann, Hubert F., to Compagnie des Montres Longines Francillon S.A. Watch or clock cover glass including a liquid display device. 3,768,887, 10-30-73, Cl. 350-160.01c.
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Portoulas, Panayiotis G., to Warwick Electronics, Inc. Chroma-burst separator and amplifier circuit. 3,711,634, 1-16-73, Cl. 178-5.4sy.
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Portus, Robert A. Theft-proof tether. 3,756,048, 9-4-73, Cl. 70-233.000.
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Poschadel, Werner; and Hofgen, Gunter, to International Standard Electric Corporation. Method of and arrangement for varying the ratio of carrier power to sideband power in ILS navigation systems. 3,760,419, 9-18-73, Cl. 343-109.000.
Poschenrieder, Werner; and Bendel, Hermann. Circuit arrangement for echo suppression in a voice circuit on a four-wire transmission system upon transfer to a two-wire transmission line. 3,754,105, 8-21-73, Cl. 179-170.200.
Poschl, Gunter H., to Recaro AG. Seat, especially for motor vehicles. 3,762,769, 10-2-73, Cl. 297-284.000.
Posdal, Robert J. Surgical towel clip. 3,768,126, 10-30-73, Cl. 24-259.0fc.
Posey, Alfred Henry; and Quick, Harry Clifford, Jr., to Sigma Instruments, Inc. Indicating meter with visual alarm. 3,715,661, 2-6-73, Cl. 324-115.000.
Posey, Eldridge D. Heated fluid gun. 3,718,805, 2-27-73, Cl. 219-305.000.
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Possati, Mario, to Apparecchi Electronici Marposs. Device for changing the scale of a measuring instrument. 3,745,968, 7-17-73, Cl. 116-129.00r.
Possell, Clarence R. Pressure sensitive sensor and control unit and method of using same. 3,719,836, 3-6-73, Cl. 307-308.000.
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Post, Daniel. Lever-type ski boots. 3,747,235, 7-24-73, Cl. 36-2.5al.
Post, Daniel H. Rotary engine. 3,758,228, 9-11-73, Cl. 415-153.000.
Post, Gerald; and Buchholtz, Charles M., to Olivetti, Ing., C., & C., S.p.A. Magnetic brush developer system. 3,753,420, 8-21-73, Cl. 118-637.000.
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Post, Hendrik Alle; and Ong, Daniel, to U.S. Philips Corporation. Hypodermic syringe with radially movable blocking elements. 3,742,948, 7-3-73, Cl. 128-218.00f.
Post, Herbert H.: *See—*
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Post, Herman B., to Goodyear Tire & Rubber Company, The. Elastic cover and method of applying said cover. 3,770,876, 11-6-73, Cl. 174-88.00r.
Post, John S.; and Reed, Frederick P., to United States of America, Army. Obturator-extractor device for firearms. 3,738,223, 6-12-73, Cl. 89-26.000.
Post, John S.; and Reed, Frederick P., to United States of America, Army. Obturated firearm breech safety device. 3,738,224, 6-12-73, Cl. 89-26.000.
Post, Leo B.; Rosen, Herbert J.; and Zeh, J Howard, to Stauffer Chemical Company. Dust-free leavening agent. 3,736,151, 5-29-73, Cl. 99-95.000.
Post, Lloyd D.: *See—*
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Post Office, The: *See—*
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Clarke, Eric Fifield Stuart; Cosier, James Edwin Henry; Kolanowski, Jan; Halls, Peter Seaton; and Laidlaw, Alexander Duncan Lindley, 3,715,068.
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Post, Robert L., Sr. Animal feeder. 3,776,193, 12-4-73, Cl. 119-51.500.
Post, Russell: *See—*
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Postelle Rod Service, Inc.: *See—*
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Poster, Marvin B. Basting material injection system. 3,734,001, 5-22-73, Cl. 99-532.000.
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Postle, William Arnold: *See—*
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Potoski, John R.; and Freed, Meier E., to American Home Products Corporation. 3-Aminomethyl-2-oxindoles

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Ellen, Leonard William; and Davies, Gordon Thomas, 3,781,867.
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Poston, Adolph M., Jr., to United States of America, Interior. Multiple-electrode, directional, acoustic source. 3,728,671, 4-17-73, Cl. 340-12.0sd.
Poston, Mary F. Bone decalcification composition. 3,735,002, 5-22-73, Cl. 424-3.000.
Postulka, Simon; Vorderbrugge, Hermann; and Thermann, Hans-Christof, to Windel, Hermann, Firma. Roller construction. 3,737,963, 6-12-73, Cl. 29-130.000.
Postupack, Dennis S., to PPG Industries, Inc. Transparent electroconductive window and electroconductive solder therefor. 3,734,698, 5-22-73, Cl. 29-191.000.
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Potasek, Chester J.; and Hiscocks, Frank, to Minneapolis Gas Company. Recirculating incinerator. 3,716,001, 2-13-73, Cl. 110-8.00a.
Potash, Norman, to United States of America, Army. Canteen for use with a gas mask. 3,731,717, 5-8-73, Cl. 141-379.000.
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Potgieter, Jacobus Daniel. Exercising apparatus. 3,708,167, 1-2-73, Cl. 272-58.000.
Potgieter, Jacobus Daniel. Bicycle type exercising apparatus with eccentric mounting. 3,758,107, 9-11-73, Cl. 272-73.000.
Potgieter, Marilyn Jean; and Potgieter, Maurice Stephen, to Wheel Carrier Holdings (Proprietary) Limited. Spare-wheel carriers for vehicles. 3,724,731, 4-3-73, Cl. 224-42.230.
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Potin, Marcel, to Societe Financiere Francaise de Licences et Brevets. Apparatus for making the stops of a slide fastener. 3,748,709, 7-31-73, Cl. 29-34.00a.
Potin, Marcel, to Societe Financiere Francaise de Licences et Brevets. Process for the manufacture of a slide fastener. 3,752,718, 8-14-73, Cl. 156-66.000.
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Potoski, John R.; and Freed, Meier E., to American Home Products Corporation. 3-[(3-Azaspiro[5,5]undecino)methyl]-3-quinuclidinol. 3,775,418, 11-27-73, Cl. 260-293.530.
Potoski, John R.; and Freed, Meier E., to American Home Products Corporation. 3-Methylenequinuclidine oxide. 3,775,419, 11-27-73, Cl. 260-293.530.
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Potter, Frederick Milton, to Bendix Corporation, The. Oil spray cooled, brushless, variable speed direct current generator. 3,733,503, 5-15-73, Cl. 310-68.000.
Potter, Frederick Milton, to Bendix Corporation, The. Support for generator bearing. 3,777,195, 12-4-73, Cl. 310-91.000.
Potter, Geoffrey, to Honeywell Information Systems, Inc. Inrush-current limiting device. 3,781,637, 12-25-73, Cl. 321-11.000.
Potter, Harold F., to Carlton Company. Heat treating apparatus. 3,748,425, 7-24-73, Cl. 219-10.690.
Potter, Howell L., to Textron, Inc. Locking device for a bearing or the like. 3,709,574, 1-9-73, Cl. 308-236.000.
Potter, Huntington. Luggage handles. 3,757,911, 9-11-73, Cl. 190-57.000.
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Richwell, Gunnar; and Giouvalakis, Antonios I., 3,746,277.
Potter, James L. Rotor system having viscoelastic lead-lag damper. 3,758,230, 9-11-73, Cl. 416-107.000.
Potter, John T., to Potter Instrument Company, Inc. Information printing and storage system. 3,739,719, 6-19-73, Cl. 101-93.00c.
Potter, Margaret, 20% to Lee, Raymond, Organization, Inc., The. Portable pot stand. 3,771,665, 11-13-73, Cl. 211-107.000.
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Potter, Patrick. Chimneys. 3,730,073, 5-1-73, Cl. 98-60.000.
Potter, Paul H. Electric resistance heater with spaced insulators and an inter-connectable flexible metallic base strip. 3,718,806, 2-27-73, Cl. 219-550.000.
Potter, Ralph A.; and Tennery, Victor J., to United States of America, Atomic Energy Commission. Process for the preparation of uranium nitride powder. 3,758,669, 9-11-73, Cl. 423-254.000.
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Potter, Russell F., to General Motors Corporation. Preheater assembly for stirling engine. 3,717,993, 2-27-73, Cl. 60-24.000.
Potter, Terry C.; and Rhoads, Roger R., to Owens-Illinois, Inc. Molding apparatus with article transfer and ejecting means. 3,767,342, 10-23-73, Cl. 425-157.000.
Potter, William F., to General Dynamics Corporation. Electrical tool circuit checker. 3,728,617, 4-17-73, Cl. 324-51.000.



Pottharst, John E., Jr. Liquid distillation unit with polygonal downcomer. 3,748,234, 7-24-73, Cl. 202-187.000.
Pottle, Arthur Richard, to AMP Incorporated, mesne. Remote switching system. 3,739,187, 6-12-73, Cl. 307-29.000.
Pottorff, Donald R.; and Wright, William E., to Kidde, Walter, & Company, Inc., mesne. Mobile crane hook block storage compartment. 3,710,950, 1-16-73, Cl. 212-1.000.
Pottorff, Donald R.; and Wright, William E., to Kidde, Walter, & Company, Inc., mesne. Extendable counterweight for cranes and method of manipulating. 3,726,416, 4-10-73, Cl. 212-49.000.
Potts, Frederick John; and Wickenden, Geoffrey Charles, to Hawker Siddeley Aviation, Limited. Aircrew escape systems. 3,778,010, 12-11-73, Cl. 244-121.000.
Potts, Harold L., to Garrett Corporation, The. Cable drum gear apparatus. 3,720,400, 3-13-73, Cl. 254-172.000.
Potts, Vernon C., to Chargematic, Inc. Means and methods for battery charge retention circuits. 3,775,660, 11-27-73, Cl. 320-23.000.
Potts, William F., to Liberty Combustion Corporation. Flame ignition. 3,726,630, 4-10-73, Cl. 431-78.000.
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Poulos, Panos L., to Velsicol Chemical Corporation. Method of increasing the recoverable sugar from sugar cane. 3,767,377, 10-23-73, Cl. 71-107.000.
Poulsen, Ole. Method and apparatus for continuously measuring the porosity of a moving wet porous continuous sheet. 3,762,211, 10-2-73, Cl. 73-38.000.
Poulsen, Peder Ulrik. Electric coil consisting of a continuous strip-shaped conductor. 3,771,086, 11-6-73, Cl. 336-192.000.
Poulsen, Peter D., to General Dynamics Corporation. Extended-range spectroscope for intense radiation sources. 3,778,161, 12-11-73, Cl. 356-51.000.
Poulsen, Stephen D., to Sun-Maid Raisin Growers of California. Apparatus and method for monitoring and recording fumigant concentrations in chamber fumigation. 3,736,792, 6-5-73, Cl. 73-27.00r.
Poulsen, Stephen D., Jr., to Airco, Inc. Break seal. 3,723,081, 3-27-73, Cl. 65-55.000.
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Pour-El, Akiva; and Swenson, Thomas C., to Daniels, Archer, Midland Company. Water soluble protein materials. 3,713,843, 1-30-73, Cl. 99-79.000.
Pour-El, Akiva; and Swenson, Thomas C., to Daniels, Archer, Midland Company. Water-soluble protein materials. 3,741,771, 6-26-73, Cl. 99-79.000.
Pour-El, Akiva; and Reddy, Gollamudi Venka, to Daniels, Archer, Midland Company. Preparation of alcoholic beverages from oil seed whey. 3,769,437, 10-30-73, Cl. 426-11.000.
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Poux, Robert J.; and Deutsch, Peter R., to Phillips Petroleum Company. Apparatus and method for controlling temperature in a feed screw. 3,738,420, 6-12-73, Cl. 165-1.000.
Povalski, Eugene A.; and Bolgert, Edwin F., to Kohler Co. Pressure compensated mixing valve. 3,724,480, 4-3-73, Cl. 137-98.000.
Poveromo, Melvin D. Adjustable denture attachment. 3,710,446, 1-16-73, Cl. 32-5.000.
Poveromo, Melvin D. Dental mandrel. 3,722,098, 3-27-73, Cl. 32-5.000.
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Powell, Harold R.; Dunn, Cornelius C.; and Burke, John R., to Pennwalt Corporation. Vacuum stoppering apparatus with pegboard shelf adjustment. 3,775,942, 12-4-73, Cl. 53-264.000.
Powell, James C., to All-Steel Equipment Inc. Method for making knock-outs in electrical boxes formed of plastic material. 3,735,653, 5-29-73, Cl. 83-1.000.
Powell, James C.; and Treber, Andrew S., to All-Steel Equipment Inc. Method and apparatus for making hex nuts from sheet metal. 3,748,674, 7-31-73, Cl. 10-72.00r.
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Powell, Louis A., to Wellman-Power Gas Incorporated. Food composition containing garlic powder, paprika and black pepper and method of using same. 3,756,833, 9-4-73, Cl. 99-140.00r.
Powell, Lynn L., to Burris Industries, Incorporated. Sofa bed. 3,740,774, 6-26-73, Cl. 5-12.000.
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Powell, Patrick L., to Stewart-Warner Corporation. Speedometer and odometer assembly. 3,768,315, 10-30-73, Cl. 73-490.000.
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Powell, Roger Andrew. Conversion apparatus. 3,739,978, 6-19-73, Cl. 235-61.0pk.
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Poyner, Weston R.; Stallbaumer, Richard J.; and Eskridge, Wade A., to Chance, A. B., Company. Multiple speed hydraulic gear motor driven gear unit. 3,757,524, 9-11-73, Cl. 60-483.000.



Poynor, Paul C.; and Kegler, William H. Process for producing ammonium phosphates and polyphosphates. 3,723,086, 3-27-73, Cl. 71-29.000.
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Heinrich, Frank-Armin; Prause, Dieter; and Sost, Rolf, 3,723,641.
Prause, Dieter; and Sost, Rolf, to Bosch, Robert, Elektronik GmbH. Method and apparatus for electrically transmitting pictures. 3,715,475, 2-6-73, Cl. 178-5.000.
Prause, Siegfried: *See—*
Lindenberg, Hans-Georg; and Prause, Siegfried, 3,744,112.
Pravaz, Marcel H., to Etudes et Fabrications Aeronautiques. Rapid release buckle for safety belts and harness. 3,747,167, 7-24-73, Cl. 24-205.170.
Pravaz, Marcel H., to Etudes et Fabrications Aeronautiques. Harness for parachutes and the like. 3,757,744, 9-11-73, Cl. 119-96.000.
Pravda, Milton F., to Dynatherm Corporation. Rotary heat pump. 3,740,966, 6-26-73, Cl. 62-476.000.
Pravda, Milton F.; and Bienert, Walter B. Heat sinks. 3,766,977, 10-23-73, Cl. 165-47.000.
Prave, Paul: *See—*
Vertesy, Laszlo; Prave, Paul; and Sukatsch, Dieter, 3,767,799.
Pravednekow, Nicholas. Utility device. 3,774,930, 11-27-73, Cl. 280-47.240.
Prayfel Inc.: *See—*
Banville, Bertrand, 3,717,345.
Prazak, Wayne A., to Goodyear Tire & Rubber Company, The. Expanding mandrel. 3,741,571, 6-26-73, Cl. 279-2.000.
PRD Electronics, Inc.: *See—*
Helf, William, Jr.; and Chandler, William M., 3,764,995.
Pre-Cast Concrete Products, Ltd.: *See—*
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Preban, Arnold G.: *See—*
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Precin, Raymond J.: *See—*
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Precin, Raymond J.; and Mottoon, Robert T., to Ampex Corporation. Magnetic transducing head and drum assembly with head insertable radially into a slot in drum for alignment. 3,778,560, 12-11-73, Cl. 179-100.20t.
Precision Cutting Machine Co., Ltd.: *See—*
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Little, Stanley, 3,747,826.
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Precision Machine Products, Inc.: *See—*
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Horton, Robert A., 3,769,044.
Precision Plumbing Products, Inc.: *See—*
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Harris, Rano J., Sr.; and Harris, Rano J., Jr., 3,730,389.
Precision Screen Machines Inc.: *See—*
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Tildesley, John Matthew, 3,727,254.
Precision Valve Corporation: *See—*
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Precismeca Gesellschaft fur Fordertechnik mbH: *See—*
Lachmann, Hans-Peter, 3,748,698.
Precoul, Michel, to Societe d'Etudes de Realisation et d'Applications Techniques Serat. Repeating weapon. 3,774,499, 11-27-73, Cl. 89-1.816.
Preda, Victoria: *See—*
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Prediger, Fred Robert; and Kniazuk, Michael, to Merck & Co., Inc. Device for the evaluation of decongestant drugs. 3,721,228, 3-20-73, Cl. 128-2.00r.
Predikant, Hans H., to Universal Oil Products Company. Process for purifying industrial waste gases containing hydrogen fluoride. 3,709,978, 1-9-73, Cl. 423-240.000.
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Pregaglia, Gianfranco; Montorsi, Giorgio; Caprara, Giuseppe; and Messina, Giuseppe, to Montecatini Edison S.p.A. Process for preparing olefin oxides. 3,716,562, 2-13-73, Cl. 260-348.50v.
Pregel, Alexander; and Goldman, William A., to Conrad Precision Industries. Luminous indicators involving phosphors. 3,780,462, 12-25-73, Cl. 40-130.00r.
Pregel, Ludwig: *See—*
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Preher, John L.; and McClure, John L., to General Electric Company. Waste food disposer mounting assembly. 3,768,742, 10-30-73, Cl. 241-100.500.
Prehmus, George F.; and Verch, Richard R., to Environment/One Corporation. Explosion proof enclosure with withdrawable electrical component mounting panel. 3,775,551, 11-27-73, Cl. 174-52.00r.
Preikschat, Fritz K. Impedance measuring bridge circuit. 3,781,671, 12-25-73, Cl. 324-60.00c.
Preis, Fritz. Rotary switch housing. 3,727,021, 4-10-73, Cl. 200-168.00g.
Preis, Lothar: *See—*
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Preis, William R.; and Cole, William, to Cole Resedevel Corporation. Apparatus for treating sewage. 3,728,245, 4-17-73, Cl. 204-275.000.
Preis, William R.; and Cole, William, Jr., to Cole Resedevel Corporation. Method for treating sewage. 3,766,033, 10-16-73, Cl. 204-149.000.
Preiser, Mark E.: *See—*
Agarwal, Paul D.; Johnston, Richard W.; Neuman, John G.; Preiser, Mark E.; Traub, Norman L.; and Schroeder, Thaddeus, 3,753,064.
Preiser, Ralph H.; Goodwin, Clarence J.; and Cofoid, Robert D., to General Time Corporation. Comfort humidity indicator. 3,709,039, 1-9-73, Cl. 73-336.000.
Preiser, Ralph H., to General Time Corporation. Crystal controlled movement with frequency dividing circuitry. 3,728,855, 4-24-73, Cl. 58-38.000.
Preisler, Eberhard; Harnisch, Heinz; and Mietens, Gerhard, to Knapsack Aktiengesellschaft. Electrolytic production of manganese dioxide. 3,723,265, 3-27-73, Cl. 204-83.000.
Preisler, Eberhard; Grapentin, Kurt; Harnisch, Heinz; and Mietens, Gerhard, to Knapsack Aktiengesellschaft. Process for the manufacture of artificial manganese dioxide. 3,773,916, 11-20-73, Cl. 423-605.000.
Preisser, Gunther. Device for use in connection with spinning and twisting machines for guiding the thread from the drafting mechanism to the spindle. 3,719,036, 3-6-73, Cl. 57-106.000.
Préist, Donald H., to Varian Associates. Simultaneous measurement of the size distribution of aerosol particles and the number of particles of each size in a flowing gaseous medium. 3,763,428, 10-2-73, Cl. 324-71.0cp.
Prell, Gunter; and Baersch, Herbert, to Licentia Patent-Verwaltungs-G.m.b.H. Apparatus for mounting an optical correction member in a housing. 3,718,385, 2-27-73, Cl. 350-252.000.
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Preload Engineering Company, The: *See—*
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Prelog, Vladimir; Zaehner, Hans; and Bickel, Hans, to Ciba-Geigy Corporation. Antibiotic A 28829. 3,769,418, 10-30-73, Cl. 424-121.000.
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Premix, Inc.: *See—*
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Premru, Brian Allan; and Nash, James H., Jr., to Information Displays, Inc. Apparatus for producing ramp signals and an intensity control signal inresponse to digital data, particularly for a CRT vector generator. 3,718,832, 2-27-73, Cl. 315-18.000.
Prena, William F., to Morrell, John, & Co. Film registration apparatus. 3,762,125, 10-2-73, Cl. 53-51.000.
Prener, Jerome S.: *See—*
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Prengemann, Heinz, to Passavant-Werke. Method and apparatus for filtering liquid. 3,767,048, 10-23-73, Cl. 210-77.000.
Prentice, E. V., Co.: *See—*
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Prentice, James B.; Nicholson, Denzel Allan; and Amel, Ronald T., to Procter & Gamble Company, The. Flame-resistant cellulose and process for producing same. 3,726,639, 4-10-73, Cl. 8-115.700.
Prentice, James S.: *See—*
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Pressman, Gerald L.; and Kittredge, Thomas D., to Electroprint, Inc., mesne. Method and apparatus for single and multicopy CRT

Prentice, James S., to Esso Research and Engineering Company. Laminated non-woven sheet. 3,715,251, 2-6-73, Cl. 156-62.800.

Prentice, Thomas H. Clipper with double-action toggle mechanism. 3,745,868, 7-17-73, Cl. 83-630.000.

Prentice, Winslow W., to United States of America, Navy. Low loss electrical conductive coating and bonding materials including magnetic particles for mixing. 3,719,610, 3-6-73, Cl. 252-513.000.

Prentice, Winslow W., to United States of America, Navy. Low loss electrical conductive coating and bonding materials including magnetic particles for mixing. 3,750,243, 8-7-73, Cl. 29-25.350.

Prentiss, William C.: *See—*
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Preobrazhentsev, Konstantin Andreevich; and Shvarov, Vsevolod Sergeevich. Method of obtaining contact between electrode metal and semiconductor material. 3,761,310, 9-25-73, Cl. 117-217.000.

Prerovske strojirny, narodni podnik: *See—*
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Presby, Benedict F. Rotatable amusement and education device. 3,717,942, 2-27-73, Cl. 35-77.000.

Prescoti, Thomas Gates, to Varian Associates. Means for retaining gas-filled vial in pre-Tr unit. 3,753,158, 8-14-73, Cl. 333-13.000.

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Prescott, Elsworth; and Copus, Edward F., to Copolymer Rubber & Chemical Corporation. Method of packaging friable bales of elastomeric material. 3,775,933, 12-4-73, Cl. 53-24.000.

Prescott, Robert C., to Foxboro Company, The. Cascade control system. 3,717,162, 2-20-73, Cl. 137-14.000.

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Present, Mortimer T. Method of compacting and coating refuge material. 3,729,107, 4-24-73, Cl. 214-152.000.

President of Tokyo Medical and Dental University: *See—*
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Presley, Rex W., to Bendix Corporation, The. Rotary actuator. 3,770,997, 11-6-73, Cl. 310-82.000.

Presnell, William R., to A-T-O Inc. Football. 3,708,170, 1-2-73, Cl. 273-65.00a.

Presnick, Michael C. Inflatable insulation for packaging. 3,730,240, 5-1-73, Cl. 150-2.500.

Presoly, Elfriede: *See—*
Muller, Walter; Mayr, Hubert; Weinrotter, Ferdinand; Frohner, Walter; Presoly, Elfriede; and Kollisch, Gustav, 3,712,804.

Press, Irving D., to Resistoflex Corporation. Constrictable tube valve. 3,733,046, 5-15-73, Cl. 251-8.000.

Pressed Steel Fisher Limited: *See—*
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Pressman, Gerald L.; and Kittredge, Thomas D., to Electroprint, Inc., mesne. Method and apparatus for aperture controlled electrostatic image reproduction or constitution. 3,773,417, 11-20-73, Cl. 355-3.000.

Pressman, Gerald L.; Frohbach, Hugh; and Blake, David E., to Electroprint, Inc. Electrostatic printing system and method using ions and toner particles. 3,779,166, 12-18-73, Cl. 101-426.000.

Pressman, Gerald L.; and Kittredge, Thomas D., to Electroprint, Inc., mesne. Method and apparatus for single and multicopy CRT computer print-out. 3,780,376, 12-18-73, Cl. 346-74.0cr.

Pressman, Jerome. Method and apparatus for mass separation employing photo enhanced surface ionization. 3,740,552, 6-19-73, Cl. 250-41.9se.

Pressnell, Douglas C. Container holder. 3,719,305, 3-6-73, Cl. 220-85.00h.

Presta, Gabriel E. Golfer's head restrainer. 3,713,657, 1-30-73, Cl. 273-190.00r.

Prestel, Fritz, to J.S.J. Marquardt, Firma. Circuit control switch with contact bridge spring biased towards fixed contact. 3,778,575, 12-11-73, Cl. 200-153.01a.

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Presto Lock Co.; division of Kidde, Walter, & Company, Inc.: *See—*
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Preston, Charles L., to American Standard, Inc. Powered stop for bar cutting machines. 3,762,248, 10-2-73, Cl. 82-34.00a.

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Preston, Edward George; Williams, Robert Ernest; and Maw, Philip Arthur, to Molins Machine Company Limited. Trimmers for cigarette making machines. 3,712,160, 1-23-73, Cl. 83-4.000.

Preston, Edward George, to Molins Machine Company Limited. Handling apparatus for rod-like articles. 3,715,056, 2-6-73, Cl. 221-211.000.

Preston, Edward George, to Molins Machine Company Limited. Continuous rod making machines. 3,716,443, 2-13-73, Cl. 156-441.000.

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Preston, Leonard A.; and Shriver, Seymour J., to Unitek Corporation. Mixing syringe. 3,724,077, 4-3-73, Cl. 32-60.000.

Preston, Mark, to Litton Business Systems, Inc. Arc suppressor for dielectric apparatus. 3,731,105, 5-1-73, Cl. 250-217.00r.

Preston, Thomas William; and Reece, Albert Benjamin John, to English Electric Company, Limited, The. Attachment assembly for stator windings. 3,777,197, 12-4-73, Cl. 310-194.000.

Prestridge, Floyd L., to Combustion Engineering, Inc. Electric treater. 3,772,180, 11-13-73, Cl. 204-305.000.

Prete, Ernest, Jr., to Ancra Corporation. Door latching mechanism. 3,758,140, 9-11-73, Cl. 292-223.000.

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Preti, Jean, to Societe de Fabrication d'Instruments de Mesure SFIM. Wave guide. 3,743,933, 7-3-73, Cl. 325-24.000.

Preti, Jean Claude, to Societe de Fabrication d'Instruments de Mesure S.F.I.M. Traffic light control systems. 3,754,210, 8-21-73, Cl. 340-40.000.

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Prevett Associates, Inc.: *See—*
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Previati, Augusto, to Industrie Pirelli S.p.A. Curing apparatus for elongate elastomeric articles. 3,730,675, 5-1-73, Cl. 432-60.000.

Previte, John R., Jr. Golf practice device. 3,753,563, 8-21-73, Cl. 273-186.00c.

Previti, Giuseppe; and Roncarolo, Paolo, to Fiat Societa per Azioni. Nuclear reactor fuel elements. 3,713,974, 1-30-73, Cl. 176-78.000.

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Prewitt, Richard H.; Schmidt, Volker; and Schmidt, Erich A. Scratch strain recorder. 3,725,948, 4-3-73, Cl. 346-77.000.

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Price, Benjamin W. Self-propelled fishing lure. 3,715,830, 2-13-73, Cl. 43-26.200.

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Price, Charles E.: *See—*
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Price, Clifford Gerald: *See—*
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Price Company, Limited, The: *See—*
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Price, David: *See—*
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Price, David D., Jr.: *See—*
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Price, David J.: *See—*
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Price, Donald A.: *See—*
Maxwell, Bert F.; Price, Donald A.; and Price, Harold A., 3,744,145.

Price, Donald Walter, to International Business Machines Corporation. Error correction system for single-error correction, related-double-error correction and unrelated-double-error detection. 3,755,779, 8-28-73, Cl. 340-146.1al.

Price, Earl T., to Scientific Technology Incorporated. Photoelectric apparatus for detecting light reflected from an object. 3,774,039, 11-20-73, Cl. 250-552.000.

Price, Edison A. Recessed suspended lighting fixture. 3,748,460, 7-24-73, Cl. 240-51.11r.

Price, Edison A. Electrical fixture coupling and support apparatus. 3,748,629, 7-24-73, Cl. 339-21.00r.

Price, Edison A., to Mint Factors, The. Recessed lighting structure. 3,755,667, 8-28-73, Cl. 240-51.120.

Price, Edmund J.: *See—*
Townsend, George R.; Price, Edmund J.; and Harper, George C., 3,768,016.

Price, Elmo D., Jr.: *See—*
Freeze, John A.; Price, Elmo D., Jr.; and Wilburn, Garlington C., 3,775,675.

Price, Ernest James. Knob assemblies for gear-selectro levers in motor vehicles. 3,742,204, 6-26-73, Cl. 240-7.10r.

Price, Everett R.: *See—*
Tuck, George; Price, Everett R.; and Oakley, John E., 3,753,048.

Price, Frank C., Jr., to Ultrasystems, Inc., mesne. Fog dispersal system. 3,712,542, 1-23-73, Cl. 239-2.00r.

Price, Franklin H., Jr.: *See—*
Sims, Dewey M., Jr.; and Price, Franklin H., Jr., 3,752,513.

Price, Frederick. Downhole safety valve. 3,757,816, 9-11-73, Cl. 137-498.000.

Price, Gareth G.: *See—*
Pearson, James W.; Price, Gareth G.; and Earps, Hugh B., 3,776,847.

Price, H. C., Co.: *See—*
Bickham, Francis L., 3,743,470.
Harris, Robert J., 3,718,309.
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Harris, Robert J.; and Lee, Irvin J., 3,777,705.

Price, Harold A.: *See—*
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Price, Harry J., to Eastman Kodak Company. Photographic developers with titanous diethylenetriaminepentaacetic acid. 3,723,126, 3-27-73, Cl. 96-61.00m.

Price, Ira Emmet. Sawing machine. 3,730,042, 5-1-73, Cl. 83-471.300.

Price, James B.; and Roman, William C., to Motorola, Inc. Nitrogen nucleation process for the chemical vapor deposition of polycrystalline silicon from $SiCl_4$. 3,734,770, 5-22-73, Cl. 117-217.000.

Price, James Brian: *See—*
George, William Lloyd; and Price, James Brian, 3,755,012.

Price, James D. Apparatus for use in making patterns for elbows for cylindrical products, and other layouts. 3,751,808, 8-14-73, Cl. 33-75.00r.

Price, James F.; and Shook, Kenneth, to Bethlehem Steel Corporation. Mixing and humidification apparatus for breathing devices. 3,714,944, 2-6-73, Cl. 128-209.000.

Price, James Kenneth: *See—*
Stirling, Harold James; Williams, Roger Morley; Hampson, Peter Samuel; and Price, James Kenneth, 3,715,515.

Price, Jerry L.: *See—*
Curtis, Burnell P., Jr.; Fannin, Loyd W.; Paulik, Frank E.; and Price, Jerry L., 3,761,579.

Price, John E.: *See—*
Barrett, John C.; Bergh, Arndt B.; Price, John E.; and Hornak, Tomas, 3,721,964.

Price, Lane B.: *See—*
Price, Billie P.; and Price, Lane B., 3,740,234.

Price, Maynard L. Control device for parenteral liquid feed apparatus. 3,738,361, 6-12-73, Cl. 128-214.00e.

Price, Paul B.: *See—*
Fleischer, Robert L.; Price, Paul B.; Bostick, Edgar E.; and Holub, Fred F., 3,713,921.

Price, Peter P.; and Snyder, Nathan C., to Rapistan Incorporated. Trolley diverter. 3,744,432, 7-10-73, Cl. 104-172.00s.

Price, Philip N.; and Hoffman, Herbert N., to General Electric Company. Turbine valve chest and nozzle plate construction. 3,758,229, 9-11-73, Cl. 415-217.000.

Price, Ralph E.; and Schoonover, Stanley C., to Landis Tool Company, mesne. Feed rate and positioning control system for a machine tool. 3,716,949, 2-20-73, Cl. 51-165.800.

Price, Ralph E., to Landes Tool Company. Mechanism for precision locating of a crankshaft in an automatic crankpin grinding machine. 3,747,283, 7-24-73, Cl. 51-237.0cs.

Price, Ralph E.; and Bickford, Cudley V., to Landis Tool Company, mesne. Loader mechanism for a machine tool. 3,751,857, 8-14-73, Cl. 51-215.00h.

Price, Raymond M.; and Reed, Russell. Abrasion resistant gas generating compositions for use in inflating safety crash bags. 3,779,823, 12-18-73, Cl. 149-19.400.





Price, Raymond M., to United States of America, Army, mesne. Priefert, Erwin F. Irrigation pipe trailer. 3,712,493, 1-23-73, Cl. 214-

Price, Raymond M., to United States of America, Army, mesne. Polymers containing a difluoroamino radical. 3,781,252, 12-25-73, Cl. 260-80.730.
Price, Raymond R., to Rochester Silo Co. Double passage silo chute. 3,709,345, 1-9-73, Cl. 193-34.000.
Price, Richard Thompson, to Akzona Incorporated, mesne. Diagnostic test slide. 3,770,383, 11-6-73, Cl. 23-253.0tp.
Price, Robert: *See*—
Worley, James C.; and Price, Robert, 3,753,166.
Price, Robert B.; and Stager, Francis W., to Jacobs Manufacturing Company, The. Gear drive assembly for anti-wheel lock-up control systems in motor vehicles. 3,730,006, 5-1-73, Cl. 74-13.000.
Price, Robert S., to Irvin Industries Inc. Reversible air supported structure. 3,742,657, 7-3-73, Cl. 52-2.000.
Price, Robert T.: *See*—
Bedard, Francis L.; and Price, Robert T., 3,754,540.
Price, Roger Vernon, to Imperial Chemical Industries Limited. Production of impregnated rovings. 3,742,106, 6-26-73, Cl. 264-131.000.
Price, Roy H., to Litton Business Systems, Inc. Looseleaf binder mechanism. 3,776,648, 12-4-73, Cl. 402-17.000.
Price, Sidney M.: *See*—
Hushon, James R.; and Price, Sidney M., 3,717,306.
Price, Thomas C.; and Montgomery, Robert M., to Harris-Intertype Corporation. Static eliminator. 3,769,695, 11-6-73, Cl. 29-592.000.
Price, Warren H.: *See*—
Enters, Edward W.; and Price, Warren H., 3,720,112.
Enters, Edward W.; Price, Warren H.; and Hochwitz, Lynn E., 3,774,322.
Price, Warren H., to Gilson Bros., Co. Tractor subassembly. 3,732,940, 5-15-73, Cl. 180-64.00r.
Price, Warren R.; and Brownlee, John H., to General Electric Company. Cutting tool for holding a plurality of disposable cutting inserts. 3,707,748, 1-2-73, Cl. 29-95.100.
Price, Wayne E.; and Waldrup, William L. Spare tire lift and holder for a pickup truck and the like. 3,734,323, 5-22-73, Cl. 214-451.000.
Price, William E.; and Dullabaun, Paul W., to Owens-Illinois, Inc. Ceramic pipe coupling device. 3,724,811, 4-3-73, Cl. 251-148.000.
Price, William J.; Cooper, Richard W.; and Gates, Robert A. Mast or pole climbing device. 3,726,360, 4-10-73, Cl. 182-134.000.
Priceman, Seymour: *See*—
Pepino, George T.; and Priceman, Seymour, 3,747,207.
Pricer, David, to International Business Machines Corporation. Heterojunction information storage unit. 3,739,356, 6-12-73, Cl. 340-173.00r.
Pricer, Wilbur D.: *See*—
Beausoleil, William F.; Ho, Irving T.; and Pricer, Wilbur D., 3,740,723.
Prichard, Harry A., Jr. Unitized metal-stud concrete form structure. 3,730,476, 5-1-73, Cl. 249-191.000.
Prichard, John P.: *See*—
Long, William D.; Fell, Ferol S.; Wells, Bernard L.; and Prichard, John P., 3,739,559.
Prichard, William W., to Du Pont de Nemours, E. I., and Company. Preparation of pentahalobenzenes from tetrahalobenzenes. 3,775,490, 11-27-73, Cl. 260-650.00r.
Prickett, Robert J.: *See*—
Archer, Donald H.; and Prickett, Robert J., 3,735,256.
Archer, Donald H.; Prickett, Robert J.; and Hartwig, Curtis P., 3,761,936.
Pridemore, Donald F.: *See*—
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Pridgen, Herman S.: *See*—
Weaver, Max A.; and Pridgen, Herman S., 3,763,141.
Weaver, Max A.; and Pridgen, Herman S., 3,765,830.
Pridy, Whetstine B. Oil well tubing cleaner. 3,752,229, 8-14-73, Cl. 166-72.000.
Priebe, Edmund: *See*—
Hild, Willi; Zahradnik, Franz; Zahn, Erwin; and Priebe, Edmund, 3,778,407.
Priebe, Frank D.; Tribble, Robert G.; and Jones, Frank T., to Cities Service Oil Company. Blowout prevention apparatus. 3,744,562, 7-10-73, Cl. 166-.500.
Priebe, Fritz, to Schloemann Aktiengesellschaft. Forging press. 3,777,539, 12-11-73, Cl. 72-453.000.
Priebe, Gerhard: *See*—
Mamrud, Abram; and Priebe, Gerhard, 3,754,132.
Priebel, Wolfgang; and Frobel, Arthur, to Olympia Werke AG. Sheet inserting apparatus for a typewriter. 3,718,245, 2-27-73, Cl. 197-127.000.
Priede, Bruno Andreevich: *See*—
Abramov, Viktor Petrovich; Junga, Yan Petrovich; Berzin, Gunard Valdemarovich; Skrupsky, Voldemar Petrovich; Frolov, Petr Nikolaevich; Lugovskoi, Andrei Lukyanovich; Shilgorin, Felix Alexandrovich; Dalbinsh, Yan Yanovich; Rotsen, Karl Arturovich; Ziemelis,Andris Eduardovich; Elksnis, Artur Yanovich; and Priede, Bruno Andreevich, 3,709,270.
Priefert, Erwin E. Irrigation pipe trailer. 3,712,493, 1-23-73, Cl. 214-515.000.
Priegnitz, James W., to Universal Oil Products Company. Selective separation of butene-1 from a $C_4$ hydrocarbon mixture employing zeolite X and Y. 3,723,561, 3-27-73, Cl. 260-677.0ad.
Priem, Jan Jozef: *See*—
Mannens, Marc Godfried; Jaeken, Jan; Janssens, Wilhelmus; and Priem, Jan Jozef, 3,761,272.
Monbaliu, Marcel Jacob; van den Bergh, Armand Maria; and Priem, Jan Jozef, 3,767,412.
Van Paesschen, August Jean; Van Gossum, Lucien Janbaptist; and Priem, Jan Jozef, 3,711,284.
Pries, Erich, to Otto, C., Dr., & Comp. G.m.b.H. Pollution free discharging and quenching system. 3,748,235, 7-24-73, Cl. 202-227.000.
Pries, Erich E.; Errgang, Karl; and Drebes, Friedrich-Wilhelm, to Otto, C., Dr., & Comp. G.m.b.H. Coke car with fume-collecting hood. 3,715,282, 2-6-73, Cl. 202-263.000.
Pries, Eriche E.; and Rossow, Rolf, to Otto, C., Dr., & Comp. G.m.b.H. Plural gas mains for independently operating low and high burners in alternative flue. 3,730,847, 5-1-73, Cl. 202-139.000.
Priesmeyer, Paul T.: *See*—
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Priest, Edward D., to Parker Manufacturing Company. Ratchet wrench. 3,742,788, 7-3-73, Cl. 81-61.000.
Priest, John D. Exhaust depurator. 3,712,030, 1-23-73, Cl. 55-213.000.
Priest, Lyle Gilbert, to Information Design, Inc. Apparatus for positioning film or tape wound on reel. 3,710,221, 1-9-73, Cl. 318-467.000.
Priest, Reginald Alfred Francis: *See*—
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Priest, Robert A.: *See*—
Swick, George W., Jr.; Priest, Robert A.; and Trimble, Jerry R., 3,746,358.
Priest, Wayne A.; and Weigand, Arthur D., to Dutton-Lainson Company. Winch power module with gear disconnect. 3,766,795, 10-23-73, Cl. 74-405.000.
Priestley, Harry; and Higgins, John, to Singer Company (U.K.) Limited, The. Hook bar adjustment means for tufting machines. 3,749,036, 7-31-73, Cl. 112-79.00r.
Priestley, Hill M.; and Wilson, James H., to Lever Brothers Company. Dodecyl 2-hydroxyethyl sulfoxide. 3,739,031, 6-12-73, Cl. 260-607.00a.
Prietzel, Horst, to Suddeutsche Kalkstickstoff-Werke AG. Process for preparing salts of alkyl and alkenylguanidines. 3,723,511, 3-27-73, Cl. 260-501.140.
Prieur, Lucien Robert: *See*—
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Prieur, Lucien Robert; and Rousseau, Hubert Cecyl Albert, to Societe Industrielle Honeywell Bull (Societe anonyme). Magnetic head positioning mechanism with longitudinal rod and cam. 3,748,407, 7-24-73, Cl. 179.100.2ca.
Prieur, Lucien Robert; and Rousseau, Hubert Cecyl Albert, to Societe Industrielle Honeywell Bull (Societe Anonyme). Device for controlling magnetic head displacement. 3,751,603, 8-7-73, Cl. 179-100.0ca.
Prigozhin, Evgeny Semenovich: *See*—
Ruppeneit, Konstantin Vladimirovich; Prigozhin, Evgeny Semenovich; Denisov, Vsevolod Nikolaevich; and Golubev, Alexandr Vasilievich, 3,772,911.
Prijn, Cornelis. Arrangement for coupling a flash bulb holder to a camera. 3,713,370, 1-30-73, Cl. 95-11.00l.
Prikhna, Alexei Iosifovich: *See*—
Bakul, Valentin Nikolaevich; Prikhna, Alexei Iosifovich; and Shulzhenko, Alexandr Alexandrovich, 3,732,043.
Vereschagin, Leonid Fedorovich; Bakul, Valentin Nikolaevich; Semerchan, Aik Akopovich; Prikhna, Alexei Iosifovich; Popov, Vladimir Vasilievich; Ryabinin, Jury Nikolaevich; Livshits, Leopold Davydovich; Arkhipov, Robert Georgievich; Dslesarev, Vladislav, Niolaevich; Galaktionov, Vasily Andreevich; and Semyashkevich, Boris Pavlovich, 3,746,484.
Prikhna, Alexei Iosifovich; Shulzhenko, Alexandr Alexandrovich; and Katsai, Margarita Yakovlevna. Method of preparing synthetic diamonds. 3,743,703, 7-3-73, Cl. 423-446.000.
Prill, Arnold L.; and Tarkan, Stuart E., to Chromalloy American Corporation. Powder metallurgy sintered corrosion and heat-resistant, age hardenable nickel-chromium refractory carbide alloy. 3,713,788, 1-30-73, Cl. 29-182.700.
Prill, Arnold L.; and Tarkan, Stuart E., to Chromalloy American Corporation. Powder metallurgy sintered corrosion and wear resistant high chromium refractory carbide alloy. 3,715,792, 2-13-73, Cl. 29-182.700.
Prill, Christian: *See*—
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Prill, Erhard J., to Monsanto Company. Preparation of acid chlorides. 3,742,047, 6-26-73, Cl. 260-544.00y.
Prill, Fredric W.: *See*—
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Prill, Robert S.: *See*—
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Prill, Robert S.; Metzger, Marshall A.; and Eaton, Bradley C., to Singer Company, The. Track and hold buffer amplifier. 3,739,197, 6-12-73, Cl. 307-238.000.
Prime Manufacturing Company: *See*—
Perry, Reginald P.; and Sjoberg, Nils W., 3,724,013.
Primessing, Franz: *See*—
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Wienand, Michael; Jensen, Klaus; Primessing, Franz; and Alfter, Franz-Werner, 3,740,294.
Primmer, Charles A., to Development Technology, Inc. Products of combustion detector. 3,781,838, 12-25-73, Cl. 340-237.00s.
Primus Mfg., Inc.: *See*—
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Culver, Irven H., 3,771,228.
Primus Mfg., Inc., mesne: *See*—
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Primus, Norman S.; and Hunhoff, Raymond, to National Water Main Cleaning Co. Device for lining pipes with calcite. 3,749,056, 7-31-73, Cl. 118-408.000.
Prince, Arthur E., Jr., to Celanese Corporation. Process and apparatus for washing residual solvent from as-spun polybenzimidazole continuous filamentary materials. 3,743,479, 7-3-73, Cl. 8-151.200.
Prince, Charles S. Exercise stand. 3,765,407, 10-16-73, Cl. 128-33.000.
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Prince, Darryll G. Knife gate valve. 3,710,816, 1-16-73, Cl. 137-242.000.
Prince, David A.: *See*—
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Prince, Edgar D.: *See*—
Cain, Wayne R.; Marcus, Konrad H.; and Prince, Edgar D., 3,708,828.
Prince, Ernest A. Locking device for car stick shift. 3,710,606, 1-16-73, Cl. 70-203.000.
Prince, George M.: *See*—
Gordon, William J. J.; Marden, Carleton S.; and Sperry Charles R., 3,737,241.
Prince, Gilles Joseph. Acoustic loading system. 3,780,824, 12-25-73, Cl. 181-31.00b.
Prince, Jack M., to ESB Incorporated. Removeable protective side shield assembly for mounting on spectacles. 3,721,490, 3-20-73, Cl. 351-47.000.
Prince, Kenneth: *See*—
Coast, Geoffrey; Prince, Kenneth; Spruce, Brian; and Morgan, Vernon, 3,713,972.
Prince, Kenneth; and Saunders, Alan Charles Anthony, to United Kingdom Atomic Energy Authority. Nuclear reactor fuel pins. 3,728,220, 4-17-73, Cl. 176-58.000.
Prince Sangyo Kabushiki Kaisha: *See*—
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Prince, Zodell W.; Weatherholt, Dallas D.; and Trombatore, Adelene L. Method and apparatus for making hair curlers. 3,723,219, 3-27-73, Cl. 156-218.000.
Princeton Applied Research Corporation: *See*—
Reichard, Harry S., 3,715,678.
Princeton Biomedix Incorporated: *See*—
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Princeton Electro Dynamics, Inc.: *See*—
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Princeton Organics, Inc.: *See*—
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Principiotta, Raymond A.; and Salvucci, Antonio G. Sewing machine and control unit therefor. 3,739,734, 6-19-73, Cl. 112-219.00a.
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Prindle, Herghel B.; McElreath, Jack A.; and Elliot, David R., to Dow Chemical Company, The. Process for preparing a stabilized biocidal composition. 3,758,464, 9-11-73, Cl. 260-248.500.
Prine, David W.: *See*—
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Prine, David W., to Magnaflux Corporation. Method and composition for non-destructive analysis using red laser beams. 3,708,665, 1-2-73, Cl. 250-71.00t.
Pringle, John; and Pecker, Guillermo Eugene, to Texas Instruments, Incorporated. Thermostatic device and means for mounting same. 3,718,880, 2-27-73, Cl. 337-380.000.
Pringle, John P.: *See*—
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Pringle, William L., to Pullman Incorporated. Automobile hold-down device. 3,709,155, 1-9-73, Cl. 105-368.00r.
Pringle, William L., to Pullman Incorporated. Railway car. 3,724,394, 4-3-73, Cl. 105-368.00r.
Pringle, William L., to Pringle, William L., and Associates, Inc. Fuel tank assembly. 3,756,080, 9-4-73, Cl. 73-290.00r.
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Printy, Helen C.; and Baltazzi, Evan S., to Addressograph-Multigraph Corporation. Photoconductive elements employing N-vinyl carbazoles having fused condensed arenic ring structures. 3,751,246, 8-7-73, Cl. 96-1.500.
Prinz, Klaus D. Apparatus for supporting a plurality of members. 3,754,662, 8-28-73, Cl. 211-13.000.
Prinz, Roy H.: *See*—
Duey, Clarence J.; Prinz, Roy H.; and Ramey, James M., 3,766,277.
Prinz, Roy H.; and Kerr, Bob C., to Celanese Corporation. Stabilization of aqueous formaldehyde solutions. 3,745,190, 7-10-73, Cl. 260-606.000.
Prinz, Roy H., to Celanese Corporation. Separation of alcohols and ketones using methylene chloride and water. 3,764,627, 10-9-73, Cl. 260-593.00p.
Prinz, Roy H.; and Kerr, Bob C., to Celanese Corporation. Stabilization of aqueous formaldehyde solutions. 3,781,365, 12-25-73, Cl. 260-606.000.
Prinzhorn, Klaus, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Terminal resistor for waveguides and coaxial high frequency cables. 3,747,029, 7-17-73, Cl. 333-22.00r.
Priola, Michael Anthony, to Ciba-Geigy Corporation. Weed killing compositions using 2,4-bis (isopropylamino)-6-methoxy-triazine, 2,4-bis (isopropylamino)-6-methylthio-s-triazine, pentachlorophenol and a 2,4-d compound. 3,713,806, 1-30-73, Cl. 71-93.000.
Prior, John Roger: *See*—
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Prior, Josef, to Dynamit Nobel Aktiengesellschaft. Detonating fuse. 3,730,096, 5-1-73, Cl. 102-27.00r.
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Prischak, Joseph J.; McQuaid, Terry W.; and Prischak, Dennis J. Tethered ball bowling game. 3,726,524, 4-10-73, Cl. 273-40.000.
Prischi, Guido, to L'Air Liquide, Societe Anonyme Pour l'Etude et l'Exploitation des Procedes Georges Claude. Apparatus for initiating and stabilizing a welding arc. 3,751,627, 8-7-73, Cl. 219-131.00r.
Prisk, Bert C.; Erickson, Raymond Kenneth; and Wheatley, Marion E., to General Motors Corporation. Heat sealing die. 3,730,812, 5-1-73, Cl. 156-380.000.
Prisk, Orford W., to Weber, Martin. Outlet valve for liquid supply receptacle. 3,730,224, 5-1-73, Cl. 137-625.330.
Pritchard, Dalton Harold; and Sepp, Walter Edgar, to RCA Corporation. Television camera system with a sinusoidally varying indexing signal. 3,735,028, 5-22-73, Cl. 178-5.4st.
Pritchard, Harry W.; and Furman, Myron, to Superior Industries, Inc. Demountable partition system. 3,745,732, 7-17-73, Cl. 52-239.000.
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Christopher, William H., Jr.; Meyers, Charles O.; and Whipple,

Barta, Karll; and Pritcheet, Wilson S., 3,775,683.
Pritchett, Ervin G., to National Distillers and Chemical Corporation. Process for preparing unsaturated chlorohydrocarbons and saturated polychlorohydrocarbons by oxychlorination of hydrocarbons and catalyst system. 3,720,723, 3-13-73, Cl. 260-658.00r.
Pritchett, Wayne W., to RFL Industries, Inc. Zero voltage firing proportional controller. 3,745,378, 7-10-73, Cl. 307-252.00b.
Pritchett, William Arthur, Jr., to Du Pont de Nemours, E. I., and Company. Silver halide emulsion fogged with a boron hydride and a gold compound. 3,752,674, 8-14-73, Cl. 96-108.000.
Pritchett, William C., to Atlantic Richfield Company. Well heating. 3,757,860, 9-11-73, Cl. 166-248.000.
Prittie, Allan R. Label inspection slitter/rewinder. 3,733,230, 5-15-73, Cl. 156-64.000.
Pritulsky, James, to AMP Incorporated. Flag type electrical terminal. 3,771,111, 11-6-73, Cl. 339-223.00r.
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Privee, Ralph A.; and Wilchynski, Ronald E. Internal seal for rotary engine. 3,749,532, 7-31-73, Cl. 418-137.000.
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Privott, Wilbur J., Jr.; and Cunningham, Robert E., to Monsanto Company. Drag stabilized low viscosity melt spinning process. 3,715,419, 2-6-73, Cl. 264-82.000.
Privott, Wilbur J., Jr.; and Cunningham, Robert E., to Monsanto Company. Low viscosity melt spinning process. 3,780,153, 12-18-73, Cl. 264-176.00f.
Pro, George M. Necktie knot-forming tool. 3,752,374, 8-14-73, Cl. 223-111.000.
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Probst, Helmut, to Licentia Patent-Verwaltungs-G.m.b.H. Ultrasonic delay line having offset boundary surfaces at point where beam strikes surface. 3,735,292, 5-22-73, Cl. 333-30.00r.
Probst, John F., to P.A.L. Development Corporation. Shingle roofing construction. 3,763,609, 10-9-73, Cl. 52-105.000.
Probst, Richard O., to Ransburg Electro-Coating Corporation. Electrostatic deposition apparatus. 3,776,187, 12-4-73, Cl. 118-626.000.
Probst, Richard O.; Pollard, Kenneth R.; and Stockton, Frank R., to Ransburg Electro-Coating Corporation. Spray apparatus and method. 3,777,981, 12-11-73, Cl. 239-1.000.
Probst, Willi, to Maschinenfabrik Benninger A.G. Apparatus for guiding webs in an extended condition. 3,727,818, 4-17-73, Cl. 226-44.000.
Probst, Willi; and Weber, Hans, to Maschinenfabrik Benninger AG. Method for cleaning, especially the removal of undesired solid particles from a continuously guided wet-treated textile web, especially printed webs. 3,762,870, 10-2-73, Cl. 8-151.000.
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Prochnow, Jurgen; and Simon, Walter, to Rheinmetall G.m.b.H. Carrier projectiles. 3,768,755, 10-30-73, Cl. 244-3.240.
Prochnow, Lee W. Ball retriever attachment. 3,749,407, 7-31-73, Cl. 273-162.00e.
Procopio, Leo W., to Philco-Ford Corporation. Receiving antenna system. 3,757,333, 9-4-73, Cl. 343-100.00r.
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Proctor, Robert H.; and Kombol, Ralph J., to Philco-Ford Corporation. Refrigerant drier. 3,734,296, 5-22-73, Cl. 210-288.000.
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Proctor, Sidney E.; and Carden, John C., to Ginda Inc. Drive means for cutter chain jib. 3,711,161, 1-16-73, Cl. 299-82.000.
Proctor, Sidney E., to Hoy, Austin, and Company, Limited. Tool retaining means. 3,751,113, 8-7-73, Cl. 299-92.000.
Proctor, Sidney E., to Hoy, Austin, and Company, Limited. Tools and holders therefor. 3,751,115, 8-7-73, Cl. 299-92.000.
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Prola, Victor J. Game or educational device. 3,740,039, 6-19-73, Cl. 273-161.000.
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Pronovost, Jacques O.; and Brown, Burke A. External combustion engine. 3,756,022, 9-4-73, Cl. 60-59.00r.
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Properzi, Ilario. Continuous casting apparatus. 3,710,846, 1-16-73, Cl. 164-278.000.
Properzi, Ilario. Wheel type continuous casting machine, for the production of a continuous metal ingot. 3,749,150, 7-31-73, Cl. 164-87.000.
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Propst, Robert L.; and Kelley, James O., to Miller, Herman, Inc. Drawer, tray-shelf and supporting structures therefor. 3,716,282, 2-13-73, Cl. 312-322.000.
Propst, Robert L.; and Kelley, James O., to Miller, Herman, Inc. Cart. 3,734,526, 5-22-73, Cl. 280-33.99t.
Propst, Robert L.; and Kelley, James O., to Miller, Herman, Inc. Stackable drawer and cover. 3,752,547, 8-14-73, Cl. 312-107.000.
Propst, Robert L., to Miller, Herman, Inc. Pediatric bed. 3,763,507, 10-9-73, Cl. 5-100.000.
Propst, Robert L.; and Kelly, James O., to Miller, Herman, Inc. Shock mount for caster sockets. 3,768,116, 10-30-73, Cl. 16-43.000.
Propst, Robert L.; and Propst, Howard B., to Miller, Herman, Research Corporation. Animal marking apparatus and method. 3,770,182, 11-6-73, Cl. 227-146.000.
Propst, Robert L. Log cutting apparatus. 3,776,083, 12-4-73, Cl. 83-324.000.
Propst, Robert L., to Miller, Herman, Inc. Pediatric bed. 3,780,387, 12-25-73, Cl. 5-345.000.
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Prosser, Robert A. Protection against radiant heat energy. 3,718,592, 2-27-73, Cl. 252-62.000.
Prosser, Thomas J., to Hercules Incorporated. Nitrosation of phenols with nitrogen trioxide. 3,770,834, 11-6-73, Cl. 260-621.00n.
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Prostor, Edo, to Iskra-Zavod Za Avtomatizacijo v Zdruzenem Podjetju Iskra, Kranj. Method of manufacturing flat-wire field coils. 3,726,005, 4-10-73, Cl. 29-605.000.
Prostorov, Igor Semenovich; and Davydov, Vladimir Sergeevich. Piston ring. 3,735,992, 5-29-73, Cl. 277-215.000.
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Prouty, Robert E.; Wolff, Martin; and Bixler, Lloyd, to Essex International, Inc. Line voltage regulator. 3,757,202, 9-4-73, Cl. 323-45.000.
Prouty, Robert E.; and Bear, Herman G., to Essex International, Inc. Terminal construction for electrical conductors. 3,760,342, 9-18-73, Cl. 339-272.00r.
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Provenzano, Joseph Charles; Hiestand, David F.; and Krabec, James A., to GTE Automatic Electric Laboratories, Incorporated. Apparatus for testing stress-sensitive semiconductor transducer. 3,759,082, 9-18-73, Cl. 73-1.00b.
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Provost, George A., to American Valcro, Inc. Bonding fastening members to a substrate. 3,773,580, 11-20-73, Cl. 156-66.000.
Prucha, Richard V., to General Electric Company. Microwave oven leakage radiation detecting device. 3,746,824, 7-17-73, Cl. 219-10.550.
Prucha, Richard V.; and Bowling, Teamus, to General Electric Company. Plug-in surface heating unit with a terminal block mounting. 3,767,897, 10-23-73, Cl. 219-451.000.
Prucha, Stephen J. Disposable pet relief structure. 3,745,975, 7-17-73, Cl. 119-1.000.
Pruckmayr, Gerfried, to Du Pont de Nemours, E. I., and Company. Polymerized ethylenically unsaturated fatty acids as emulsifiers for aqueous dispersions. 3,745,135, 7-10-73, Cl. 260-23.0em.
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Pruett, George R., to United States of America, Army, mesne. Scanning infrared radiation sensor. 3,720,835, 3-13-73, Cl. 250-83.3hp.
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Prumm, Margot. Coin checking device. 3,738,468, 6-12-73, Cl. 194-100.00a.
Prunchak, John. Windshield blade reconditioner. 3,708,924, 1-9-73, Cl. 51-205.00r.
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Pruss, Gunther Manfred Wolfgang. Play, sports and training apparatus. 3,709,490, 1-9-73, Cl. 273-29.00a.
Prussin, Samuel; and Mason, Jimmie L., to Dart Industries Inc. Self-cleaning sequential valve means with ball check valve. 3,749,291, 7-31-73, Cl. 222-402.240.
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Pruvot, Francois C.; and Poletti, Henri, to Regie Nationale des Usines Renault. Method of cutting gear teeth of homokinetic joints of hydraulic pumps and motors. 3,709,093, 1-9-73, Cl. 90-8.000.
Pruvot, Francois C.; and Carre, Jean-Claude, to Regie Nationale des Usines Renault. Transmission mechanisms with hydrostatic coupling. 3,724,618, 4-3-73, Cl. 192-.070.
Pruvot, Francois C., to Regie Nationale des Usines Renault. Refeed and discharge systems of hydraulic circuits of hydrostatic transmissions. 3,748,859, 7-31-73, Cl. 60-464.000.
Pruvot, Francois C.; and Fayolle, Michel, to Regie Nationale des Usines Renault. Hydraulic free-jet servo-valves. 3,765,437, 10-16-73, Cl. 137-83.000.
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Pryor, Harry T. Angularly controlled extension for house painter's brush. 3,737,187, 6-5-73, Cl. 294-19.00r.
Pryor, James T., to Nuperm, Inc., mesne. Storage cabinet. 3,748,008, 7-24-73, Cl. 312-184.000.
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Pryor, Michael J.; and Popplewell, James M., to Olin Corporation. Glass or ceramic-to-metal seals. 3,726,987, 4-10-73, Cl. 174-50.610.
Pryor, Michael J.; Crane, Jacob; and Winter, Joseph, to Olin Corporation. Method for adding solid metal to molten metal. 3,738,827, 6-12-73, Cl. 75-76.000.
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Pryor, Richard Lee, to RCA Corporation. Carry skip-ahead network. 3,728,532, 4-17-73, Cl. 235-175.000.
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Psyras, Hippocrates G.; and Bellisio, Arthur Angelo, to GAF Corporation. Gas purification system. 3,745,747, 7-17-73, Cl. 55-31.000.
Pszona, Stanislaw. Method and apparatus for the measurement of mixed gamma-neutron radiation dose equivalent. 3,729,631, 4-24-73, Cl. 250-83.100.
Ptak, Wilbur F., to Fastway Fasteners, Inc. Plastic drive pin anchor. 3,765,295, 10-16-73, Cl. 85-72.000.
Ptashnik, William J., to General Motors Corporation. Method for producing metal alloy foams. 3,758,291, 9-11-73, Cl. 75-20.00f.
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Puccini, Sergio E., to GTE Automatic Electric Laboratories Incorporated. Data processor with cyclic sequential access to multiplexed logic and memory. 3,737,873, 6-5-73, Cl. 340-172.500.
Puccio, Joseph L. Metal stud assembly. 3,753,324, 8-21-73, Cl. 52-377.000.
Pucher, Walter: *See—*
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Puckett, George W., to Tag-Along Corporation. Helper axle assembly for vehicles. 3,711,112, 1-16-73, Cl. 280-81.00r.
Puckett, James D., to Trico Leasing. AC scaffold frame. 3,726,362, 4-10-73, Cl. 182-178.000.
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Puckette, Charles McD, IV, to General Electric Company. Zero-crossing jitter detection method and circuit. 3,727,131, 4-10-73, Cl. 324-77.00r.
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Pugh, Cecil C.; Wark, Emerson L.; and Rumpf, Richard O., to General Motors Corporation. Molded plastic base pan for room air conditioner. 3,724,233, 4-3-73, Cl. 62-285.000.
Pugh, Charles D., to Burlington Industries, Inc. Driver circuitry. 3,736,473, 5-29-73, Cl. 317-137.000.
Pugh, Charles D., to Burlington Industries, Inc. Control mechanism for producing random-like effects on textile materials. 3,748,648, 7-24-73, Cl. 340-172.500.
Pugh, Donald W.; Spomer, Roland J.; Wolfenberger, Charles J.; Palmer, William H.; and Horney, Robert W., to National Distillers and Chemical Corporation. Process for the production of ethylene polymers. 3,756,996, 9-4-73, Cl. 260-87.300.
Pugh, Emerson M.; and Eichelberger, Robert J., to United States of America, Army. Fluted liners for shaped charges. 3,726,224, 4-10-73, Cl. 102-56.000.
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Pugh, Evelyn M. Thumb or finger guard. 3,728,736, 4-24-73, Cl. 2-21.000.
Pugh, Hubert M., to Thermo-Products, Inc. Humidifier with flushing system. 3,758,086, 9-11-73, Cl. 261-92.000.
Pugh, John, to United Kingdom Atomic Energy Authority. Charge/discharge arrangements for nuclear reactor. 3,711,369, 1-16-73, Cl. 176-30.000.
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Puhahn, Werner; and Lampert, Rolf, to Standardwerk Eugen Reis GmbH. Coin counting apparatus. 3,757,805, 9-11-73, Cl. 133-8.00r.
Puharich, Henry K., to Intelectron Corporation. Blood storage method. 3,726,762, 4-10-73, Cl. 195-1.800.
Puhk, Heino, to SCM Corporation. Photopolymerization using triorgano-substituted phosphine and sulfonyl halides as a photoinitiator. 3,767,547, 10-23-73, Cl. 204-259.230.
Puhringer, Othmar, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Converter handling vehicle. 3,715,101, 2-6-73, Cl. 254-87.000.
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Punako, Stephen; and Swanson, George J., to Bendix Corporation, The. Electrical connector with extended cable support. 3,720,906, 3-13-73, Cl. 339-101.000.
Punako, Stephen, to Bendix Corporation, The. Electrical connector with improved cable support. 3,732,526, 5-8-73, Cl. 339-101.000.
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Pund, Francis X.; and Lippert, Ralph E., to Jergens, Andrew, Company, The. Adjustable guide assembly for feeding bottles and the like to a horizontal moving platform. 3,767,027, 10-23-73, Cl. 198-32.000.
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Punter, Thomas James; and Baldwin, Peter John, to Vacu-Blast Limited. Impelling wheel for particulate material. 3,768,209, 10-30-73, Cl. 51-9.000.
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Purdes, Andrew J., to Texas Instruments, Incorporated. Method of producing areas of relatively high electrical resistivity in dielectric substrates. 3,754,987, 8-28-73, Cl. 117-212.000.
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Purt, Gustav A., to Cerberus AG. Method for sealing the cutting or separation surfaces of radioactive foils. 3,710,537, 1-16-73, Cl. 53-39.000.
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Purtell, Rufus J. Mushroom-shaped drain valve and method of using the same. 3,736,951, 6-5-73, Cl. 137-217.000.
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Purves, William F.; Lee, William F.; Davies, Peter H.; and Jeffery, William J., to General Foods Limited. Agglomeration of instant coffee. 3,740,232, 6-19-73, Cl. 99-71.000.
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Puskas, Joseph Emil, to Sybron Corporation. Copolymers of vinylsulfonic acid salts and allylsulfonic acid salts. 3,755,236, 8-28-73, Cl. 260-29.6sq.
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Puster, Louis M., to Robertshaw Controls Company. Pneumatic control system and reset valve for such a system or the like. 3,761,050, 9-25-73, Cl. 251-14.000.
Pustovarin, Ivan Yakovlevich: *See—*
Astapovich, Artem Ivanovich; Bogoljubov, Sergei Alexandrovich; Kuznetsov, Nikolai Ivanovich; Lupanov, Oleg Dmitrievich; Pustovarin, Ivan Yakovlevich; and Fedorova, Tamara Alexeevna, 3,747,183.
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Putman, Richard E. J., to Westinghouse Electric Corporation. Control system and method for a reversed ball mill grinding circuit. 3,779,469, 12-18-73, Cl. 241-30.000.
Putman, William F., to Aereon Corporation. Lifting body aircraft. 3,761,041, 9-25-73, Cl. 244-13.000.
Putnam, Allen: *See—*
Putnam, Allen Lewis, 3,724,119.
Putnam, Allen L. Fishing fly with snagproof hook. 3,750,322, 8-7-73, Cl. 43-42.250.
Putnam, Allen Lewis, 1/3 to Putnam, Allen, 1/3 to Launer, Leland C. and 1/3 to Kerridge, Mark L. Fishing fly with leader attaching prongs. 3,724,119, 4-3-73, Cl. 43-42.250.
Putnam, James A., to United Aircraft Corporation. FET driver for capacitive loads. 3,710,271, 1-9-73, Cl. 330-35.000.
Putnam, Paul S.: *See—*
Hooper, David W.; and Putnam, Paul S., 3,749,525.
Putnam, Richard C., to Cessna Aircraft Company, The. Pressure loaded gear pump. 3,748,063, 7-24-73, Cl. 418-132.000.
Putnam, Richard E.; and Augusty, Richard M., to Westinghouse Electric Corporation. Methods for detecting presence and measuring the concentration of minor overlapped components in gas chromatography. 3,726,127, 4-10-73, Cl. 73-23.100.
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Putnam, Robert C.; and Young, Jeffrey W., to Polaris Chemical Corporation. Method of flame proofing carpets. 3,762,942, 10-2-73, Cl. 117t137.000.
Putney, David H.; Lindau, John H.; and West, Charles L., to Stratford Engineering Corporation. Contactor improvements. 3,759,318, 9-18-73, Cl. 165-108.000.
Putney, Richard Knight, to Hercules Incorporated. Crystalline nickel chelate of 1-nitroso-2-naphthol and process for producing same. 3,751,439, 8-7-73, Cl. 260-439.00r.
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Putt, James B.; and Kytta, Oswald O., to Bendix Corporation, The. Interchangeable backing plate for movable wall of a servomotor. 3,754,450, 8-28-73, Cl. 91-376.000.
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Putter, Irving, to Merck & Co., Inc. Hypocalcemic peptide and process of perparing it using a two phase N-butanol-pyridine-acetic acid-ammonium acetate-water system. 3,728,326, 4-17-73, Cl. 260-112.00t.
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Putthoff, George F. Fishing lure. 3,724,118, 4-3-73, Cl. 43-42.060.
Puttick, Donald W. Trip mechanism. 3,732,512, 5-8-73, Cl. 335-302.000.
Puttick, Jeffrey Roy, to National Research Development Corporation. Internal combustion engines. 3,774,391, 11-27-73, Cl. 60-14.000.
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Putz, John L., to Varian Associates. Predistortion compensation for a microwave amplifier. 3,755,754, 8-28-73, Cl. 330-149.000.
Putz, Peter, to Voith, J. M., A.G. Apparatus for shaping tubes. 3,756,098, 9-4-73, Cl. 82-2.00r.
Putz, Ulrich, to Licentia Patent-Verwaltungs-G.m.b.H. Circuit arrangement for braking a vehicle. 3,715,602, 2-6-73, Cl. 307-9.000.
Putzer, Raymond M.; and Maurino, William J., to Precision Flexmold, Inc Apparatus for molding articles. 3,776,683, 12-4-73, Cl. 425-440.000.
Putzer, Walter, to U.S. Philips Corporation. Oscillator circuit for several frequency ranges having plural feedback paths. 3,745,480, 7-10-73, Cl. 331-60.000.
Putzier, Charles W.: *See—*
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Putzler, Friedrich, to Battenfeld Maschinenfabriken G.m.b.H. Mould closing means. 3,737,278, 6-5-73, Cl. 425-450.000.
Puvogel, John M., to National Cash Register Company, The. Inductor drive means. 3,708,726, 1-2-73, Cl. 317-148.50b.
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Pye, David S., to Union Oil Company of California. Hydraulic fracturing process. 3,709,300, 1-9-73, Cl. 166-280.000.
Pye, David S.; Fischer, Paul W.; and Gallus, Julius P., to Union Oil Company of California. Low fluid loss well treating composition and method. 3,711,405, 1-16-73, Cl. 252-8.55r.
Pye, Donald George, to Du Pont de Nemours, E. I., and Company. Method of coating $CrO_2$ with alumina. 3,736,181, 5-29-73, Cl. 117-234.000.
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Pyle, Delbert E.: *See—*
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Pyne, William J.; Gullo, James M.; and Adams, Bobby F., to Diamond Shamrock Corporation. Method for regulating plant growth. 3,778,247, 12-11-73, Cl. 71-95.000.
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Quackenbush, Henry. Dry cleaning machine. 3,771,334, 11-13-73, Cl. 68-18.00c.
Quadall Company, Inc.: *See—*
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Quenelle, Robert, to IMS Corporation. Fluorescent lamp strobing circuit. 3,753,040, 8-14-73, Cl. 315-241.00s.

Quenneville, Raymond N., to United Aircraft Corporation. Bidirectional locking device. 3,759,358, 9-18-73, Cl. 192-8.00c.

Quenot, Andre, to Manufacture Quenot Mabo S.a.r.l. Mitre-box. 3,741,064, 6-26-73, Cl. 83-767.000.

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Quentin, Jean-Pierre, to Rhone-Poulenc S.A. Ionic polymers. 3,751,376, 8-7-73, Cl. 260-2.10r.

Quentin, Jean-Pierre, to Rhone-Poulenc S.A. Ion-exchange membranes. 3,770,666, 11-6-73, Cl. 260-2.10e.

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Quercetti, Alessandro. Mosaic play. 3,748,752, 7-31-73, Cl. 35-27.000.

Quercy, Jean-Fred: *See—*
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Quermerais, Philippe, to Regie Nationale des Usines Renault and Automobiles Peugeot. Pressure-fluid electromagnetic valves. 3,738,386, 6-12-73, Cl. 137-625.640.

Querou, Yvon: *See—*
Chabardes, Pierre; and Querou, Yvon, 3,781,307.

Quesnel, Marcel; and Guerin, Jean, to Regie Nationale des Usines Renault and Automobiles Peugeot. Pivoting window locking devices. 3,781,044, 12-25-73, Cl. 292-200.000.

Questor Corporation: *See—*
Bagley, Stuart C., 3,759,215.
Flak, Peter R., 3,752,478.
Grimes, Gary S., 3,762,542.
Hardick, Alden; Martin, Alvin M.; and House, Delbert, 3,742,575.
Langieri, Michael, Jr., 3,740,447.
Langieri, Michael, Jr.; and Meyers, Michael, 3,755,924.
Rawlings, John H., 3,720,955.
Rousey, Donald L., 3,722,167.
Sharaf, Ernest S., 3,737,958.

Queuille, Andre; and Larde, Raymond, to Roussel-UCLAF. Treatment of diarrhea using an insoluble homopolymer of vinylpyrrolidone. 3,725,541, 4-3-73, Cl. 424-80.000.

Queuille, Andre; and Larde, Raymond, to Roussel-UCLAF. Method for the treatment of acute or chronic diarrhea. 3,745,214, 7-10-73, Cl. 424-78.000.

Queuleu, Metz: *See—*
Leroy, Pierre; Gombert, Marcel; Queuleu, Metz; and Sprunck, Emile, 3,779,534.

Quevrin, Janic, to Compagnie Generale d'Electricite. Matrix with intergrated semiconductors for dead memory. 3,707,767, 1-2-73, Cl. 29-593.000.

Quibel, Jacques: *See—*
Lhonore, Pierre; Quibel, Jacques; and Senes, Michel, 3,737,291.

Quichaud, Claude: *See—*
Le Peuvedic, Jean-Pierre; and Quichaud, Claude, 3,737,843.

Quichaud, Claude; Le Peuvedic, Jean-Pierre; and Tinchon, Jacques, to Societe Nationale des Petroles d'Aquitaine. Device for suspending measuring instruments inside drilling assembly. 3,714,831, 2-6-73, Cl. 73-431.000.

Quichaud, Claude; and le Peuvedic, Jean-Pierre, to Societe Anonyme dite: Societe Nationale des Petroles d'Aquitaine. Device with independent hydraulic control to transmit measurements taken at the bottom of a well. 3,756,076, 9-4-73, Cl. 73-151.000.

Quick, Carolyn M., to Shell Oil Company. Glycidamides. 3,726,981, 4-10-73, Cl. 424-278.000.

Quick, Carolyn M., to Shell Oil Company. Glycidamides for inducing a sedative response. 3,726,982, 4-10-73, Cl. 424-278.000.

Quick, Carolyn M., to Shell Oil Company. Glycidamides for inducing a hypnotic response. 3,741,191, 6-26-73, Cl. 124-278.000.

Quick, Donald Jonathan, to International Harvester Company. Bucket for earth moving machines. 3,775,879, 12-4-73, Cl. 37-118.00r.

Quick, George R.; and Sowter, George R., to Singer Company, The, mesne. Self-timing code keyer. 3,725,906, 4-3-73, Cl. 340-365.000.

Quick, Graeme R., to Iowa State University Research Foundation, Inc. Ground cover fruit harvesting machine. 3,720,051, 3-13-73, Cl. 56-330.000.

Quick, Harry Clifford, Jr.: *See—*
Posey, Alfred Henry; and Quick, Harry Clifford, Jr., 3,715,661.

Quick, James E., to United States of America, Navy. Highly fluorinated alkyl esters of trimellitic acid anhydride and method for their production. 3,711,514, 1-16-73, Cl. 260-346.300.

Quick, James E.; and Venezky, David L., to United States of America, Navy. Process for the synthesis of dihydrocarbonphosphinates. 3,720,736, 3-13-73, Cl. 260-973.000.

Quick, John Harvey: *See—*
Hill, Edwin T.; and Quick, John Harvey, 3,745,350.

Quick, John L., to Baxter Laboratories, Inc. Method for adding medicaments to a sealed expandable parenteral fluid container. 3,719,213, 3-6-73, Cl. 141-5.000.

Quick, Lester K. Refrigeration system with plural evaporator means. 3,766,745, 10-23-73, Cl. 62-196.000.

Quick, Richard C.: *See—*
Leonard, James H.; and Quick, Richard C., 3,714,383.

Quick, Robert G., to Hy-Rider, Inc. Travel home with car-top hitch. 3,770,297, 11-6-73, Cl. 280-423.00r.

Quick-Rotan Becker & Notz, KG: *See—*
Angersbach, Wolfgang; and Meier, Karl-Heinz, 3,778,692.
Daab, Heinz, 3,761,790.

Quick-Sane, Inc.: *See—*
Harris, John L.; and Hellman, Robert W., 3,754,291.

Quicke, Kenneth George: *See—*
Poon, Siu Yun; Quicke, Kenneth George; and Stratford, David James, 3,762,467.

Quickstad, La Ron O.: *See—*
Zeltwanger, Earl D.; Quickstad, La Ron O.; and Laidig, Roger D., 3,744,572.

Quigley, James R.: *See—*
Jaster, Dale R.; and Quigley, James R., 3,745,447.

Quigley, Robert E.: *See—*
Raymond, David W.; and Quigley, Robert E., 3,768,215.

Quik, Willem C. J.,; and van Weeren, Pieter A., to Shell Oil Company. Process for the preparation of base oils for the production of lubricating oil. 3,730,877, 5-1-73, Cl. 208-143.000.

Quik-Die, Inc.: *See—*
Shelton, Winston L.; and Newman, Joseph L., 3,756,308.

Quilici, Alfred P.; and Wilson, Warren F. Warning system for automobile trailer hitches. 3,710,370, 1-9-73, Cl. 340-275.000.

Quilico, Adolfo: *See—*
Minisci, Francesco; Bertini, Franco; Galli, Remo; Pizzo, Torricella Del; and Quilico, Adolfo, 3,719,685.
Minisci, Francesco; Galli, Remo; and Quilico, Adolfo, 3,781,286.

Quillot, Jean Claude; Poignant, Pierre; and de Lisseux, Jacques de Bazelaire. Certain N-thiazolyl-ureas. 3,755,347, 8-28-73, Cl. 260-306.80r.

Quimby, Oscar T.; and Prentice, James B., to Procter & Gamble Company, The. Hypohalogenation of gem-diphosphonate esters and phosphonoacetate esters. 3,772,412, 11-13-73, Cl. 260-932.000.

Quin Data, Inc.: *See—*
Strauss, Albert B.; and Mutter, William H., 3,763,985.

Quinby, Charles E., to Lear Siegler, Inc. End plate for gyroscope rotor. 3,719,092, 3-6-73, Cl. 74-5.000.

Quincy, Roger B., Jr.: *See—*
Strum, Bernard J.; Quincy, Roger B., Jr.; and Butler, Charles T., 3,711,600.

Quindar Electronics, Inc.: *See—*
Epstein, Philip L., 3,740,681.
Epstein, Philip L., 3,760,290.

Quine, John P., to General Electric Company. Amplifier for microwaves comprising radial waveguide-hybrid. 3,775,694, 11-27-73, Cl. 330-56.000.





Quiney, Kenneth Maurice, to Girling Limited. Vehicle brake actuators. 3,748,913, 7-31-73, Cl. 74-18.200.

Quinif, Edward G., to Walled Lake Door Co. Method of making a rigid laminated core for a structural panel. 3,761,336, 9-25-73, Cl. 156-210.000.

Quinlan, Frank B. Ball swage for reducing tubes. 3,727,443, 4-17-73, Cl. 72-35.000.

Quinlan, Joseph B., to United States of America, Army. Energetic protective coating for caseless ammunition. 3,730,094, 5-1-73, Cl. 102-38.000.

Quinlan, Joseph B.; and Van Arstdalen, Earl F., to United States of America, Army. Simultaneous axially and radially ignited caseless telescopic tube ammunition round. 3,732,819, 5-15-73, Cl. 102-40.000.

Quinlan, Patrick M., to Petrolite Corporation. Cyclic thiazines. 3,770,732, 11-6-73, Cl. 260-243.00r.

Quinlan, William J.; and Huver, Lawrence L., to Hastings Manufacturing Company. Windshield wiper assembly. 3,717,900, 2-27-73, Cl. 15-250.360.

Quinlan, William J.; and Huver, Lawrence L., to Hastings Manufacturing Company. Windshield wiper assembly. 3,725,971, 4-10-73, Cl. 15-250.360.

Quinlan, William J.; and Hover, Lawrence L., to Hastings Manufacturing Company. Windshield wiper assembly. 3,751,754, 8-14-73, Cl. 15-250.420.

Quinlan, William J.; and Huver, Lawrence L., to Hastings Manufacturing Company. Windshield wiper assembly. 3,780,394, 12-25-73, Cl. 15-250.320.

Quinlan, William J.; and Huver, Lawrence L., to Hastings Manufacturing Company. Windshield wiper assembly. 3,780,395, 12-25-73, Cl. 15-250.360.

Quinlisk, John W., Jr.; and Sinagra, Anthony W., to Rockwell International Corporation. Electric motor control circuits. 3,761,794, 9-25-73, Cl. 318-472.000.

Quinn, Brian P., to United States of America, Air Force. Acoustic wing stall delaying device. 3,774,867, 11-27-73, Cl. 244-40.00r.

Quinn, Edwin J.: *See—*
Heckles, John S.; and Quinn, Edwin J., 3,764,570.

Quinn, Frederic R., to Zyrotron Industries, Inc. Voltage sensor and method of using same. 3,766,510, 10-16-73, Cl. 338-20.000.

Quinn, Frederic R., to Zyrotron Industries, Inc. Firing circuit and transformer. 3,772,586, 11-13-73, Cl. 323-35.000.

Quinn, John D.: *See—*
Roetter, Robert P.; Miller, Alfred H.; Quinn, John D.; and Crosman, John M., Jr., 3,725,026.

Quinn, Lawrence R.; and Bielenberg, Max J., to Roura Iron Works, Inc. Punching and extrusion die. 3,776,016, 12-4-73, Cl. 72-327.000.

Quinn, Mary E. Compressible stencil with high walls and narrow bridges. 3,724,420, 4-3-73, Cl. 118-505.000.

Quinn, Peter T., to Honeywell Inc. Computer flash light sensing apparatus. 3,769,888, 11-6-73, Cl. 95-10.0ce.

Quinn, Peter T.; and Schroeder, Bruce W., to Honeywell Inc. Photographic slide dispenser. 3,779,423, 12-18-73, Cl. 221-186.000.

Quinn, Richard Edward, to RCA Corporation. Apparatus for etching of thin layers of material by ion bombardment. 3,708,418, 1-2-73, Cl. 204-298.000.

Quinn, Richard M.; and Kwiatkowski, Jerome A., to Ball Corporation. Glass forming machine having an automatic control system. 3,762,907, 10-2-73, Cl. 65-164.000.

Quinn, Robert C.: *See—*
Collins, Leland F.; Quinn, Robert C.; and Wilhelmsen, Paul G., 3,759,836.

Quinn, Ronald E., to General Motors Corporation. Regenerative gas turbine system. 3,742,702, 7-3-73, Cl. 60-39.230.

Quinn, Thomas: *See—*
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Quinn, William C.; Morrfall, Albert F.; and Ross, Alexander V., to United States of America, Air Force. Wideband radar receiver protective apparatus. 3,745,567, 7-10-73, Cl. 343-5.00r.

Quinney, James L., to Idaho Bank of Commerce. Method of making firearms having interchangeable barrels. 3,708,841, 1-9-73, Cl. 29-1.100.

Quintana, Leo J.: *See—*
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Quintex Corporation: *See—*
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Quintilian, Bartholomew F.; and Williams, Robert J. W., to Koppers Company, Inc. Method for installing multiples of dust collector plates. 3,729,815, 5-1-73, Cl. 29-592.000.

Quinto, Mario J. Refuse compacting device. 3,721,060, 3-20-73, Cl. 53-124.00b.

Quinton, Kenneth Charles: *See—*
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Quinty, David B.: *See—*
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Quiogue, Virgilio J., to Burroughs Corporation. Monostable multivibrator having output pulser dependent upon input pulse widths. 3,711,729, 1-16-73, Cl. 307-273.000.

Quirijnen, Marius: *See—*
Lenders, Wilhelmus Leonard Louis; Post, Hendrik Alle; Sie, Tjwan Khing; Visscher, Johannes Mattheus; and Quirijnen, Marius, 3,735,698.

Quiring, Bernd: *See—*
Erdmenger, Rudolf; Ullrich, Martin; Germerdonk, Rolf; Pedain, Josef; Quiring, Bernd; and Wingler, Frank, 3,725,340.
Himmelmann, Wolfgang; Bergthaller, Peter; Quiring, Bernd; and Wagner, Kuno, 3,729,318.

Quiriunen, Marius, to U.S. Philips Corporation. Print hammer striking moving type at an angle to compensate for frictional force. 3,759,174, 9-18-73, Cl. 101-93.00c.

Quirk, James F.; Martincic, Paul W.; and Friedrich, Kevin F., to Westinghouse Electric Corporation. Cast condenser bushing. 3,769,447, 10-30-73, Cl. 174-143.000.

Quirk, John B.: *See—*
Jackson, Arthur L.; Jolly, Shelby A.; and Quirk, John B., 3,710,144.

Quirk, Robert W., to Rheem Fluid Systems, Inc. Flanged body with flange reinforcing ribs. 3,751,004, 8-7-73, Cl. 251-366.000.

Quirk, Robert W., to Rheem Fluid Systems, Inc. Two-stage filament winding of T-shaped hollow products. 3,773,583, 11-20-73, Cl. 156-175.000.

Quirk, Virgil P.; and Titlar, James M., to Stackpole Carbon Company. Flame-sprayed ferrite powder X-ray radiation shield. 3,725,718, 4-3-73, Cl. 313-313.000.

Quis, Peter: *See—*
Gruber, Wilhelm; Kleine-Doepke, Wolfgang; Quis, Peter; and Schroeder, Guenther, 3,709,934.

Quisenberry, Robert E., to Texaco, Inc. Hydrotreating and hydroisomerizing $C_5$ and $C_6$ hydrocarbon streams. 3,718,710, 2-27-73, Cl. 260-683.670.

Quist, Donald G.: *See—*
Turner, Douglas M.; and Quist, Donald G., 3,728,478.

Quittenton, Richard C., to Labatt, John, Limited. Process for making a brewers' wort. 3,713,840, 1-30-73, Cl. 99-51.000.

Quittner, George F. Radiation path termination housing. 3,737,663, 6-5-73, Cl. 250-83.30h.

Quittner, George P. Radiation path continuity transducer of high pass frequency. 3,751,667, 8-7-73, Cl. 250-351.000.

Quoirin, Jean-Baptiste: *See—*
Blanchard, Bruno; Hilleret, Noel; Connier, Joel; and Quoirin, Jean-Baptiste, 3,757,116.

Quoos, Kurt: *See—*
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Qurashi, Maqbool; and Faries, Lincoln W., to Jerrold Electronics Corporation. Weather time display. 3,752,919, 8-14-73, Cl. 178-7.880.

Qurneli, Frank D.; Ikemoto, Robert N.; and Lass, James L., to General Electric Company. Fuel bundle with removable rods. 3,741,868, 6-26-73, Cl. 176-78.000.

Quvae Chemical Industries, Inc.: *See—*
Gulick, Graham L., 3,755,152.

QVA Corporation: *See—*
Lindelof, Leonard A., 3,731,975.

R & L Molecular Research Ltd.: *See—*
Lemieux, Raymond Urgel; and Chin, Clinton Gordon, 3,759,905.
Lemieux, Raymond Urgel; and Raap, Rintoe, 3,766,175.
Lemieux, Raymond Urgel; and Raap, Rintoe, 3,766,176.

R. D. Products, Inc.: *See—*
Dalton, Robert L., 3,738,836.

R. F. Inc, mesne: *See—*
Hathaway, Bruce E.; Huffman, Earl W.; and O'Connor, Kevney J., 3,745,938.
Rice, Charles A.; and Foust, Michael L., 3,775,782.

R. I. Patents, Inc.: *See—*
Arnoldy, Roman F., 3,735,087.
Margave, John L.; Bautista, Renato G.; Ficalora, Peter J.; and Badachhape, Ramachandra B., 3,711,595.
Margrave, John L.; and Lagow, Richard J., 3,758,450.

R. K. S.: *See—*
Dubost, Jacques Leon Francois, 3,720,987.

R. W. Transmissions Limited: *See—*
Stranger, Donald Arthur; Yates, Frank; and Senior, Jack, 3,710,640.

R-J Industries, Inc.: *See—*
Rausch, Ronald L.; and Jacque, Donald A., 3,771,277.

R-K Electric Co., Inc.: *See—*
Runge, John N.; and Krusling, Kenneth R., 3,716,756.

R-Tron Corporation: *See—*
Bullivant, Kenneth W., 3,773,124.

Raab, Andrew F., to Indak Manufacturing Corporation. Sliding action electrical switch with ramp portions between contacts and insulating strips. 3,721,779, 3-20-73, Cl. 200-16.00c.

Raab, Andrew F., to Indak Manufacturing Corporation. Combined electrical control and safety switch for vehicles. 3,769,481, 10-30-73, Cl. 200-161.000.





Raab, Stefan, to Demag Aktiengesellschaft. Combined gripping and lifting mechanism for handling

Rabichev, Lev Yakovlevich; Vasiliev, Vladislav Fedorovich; Putilin,





Clabburn, Robin James Thomas, 3,721,749.

Raab, Stefan, to Demag Aktiengesellschaft. Combined gripping and lifting mechanism for handling anode plates in an anode plate casting plant. 3,715,048, 2-6-73, Cl. 214-16.00b.

Raabe, Gerhard; Eckstein, Dieter; Sauermann, Heinz; and Winkler, Gerhard. Method of manufacturing a semiconductor capacitance diode. 3,764,415, 10-9-73, Cl. 148-191.000.

Raabe, Herbert P., to International Business Machines Corporation. Stabilized communication and control system. 3,757,334, 9-4-73, Cl. 343-100.0td.

Raabe, Thomas; Piesch, Steffen; Resag, Klaus; and Nitz, Rolf-Eberhard, to Cassella Farbwerke Mainkur Aktiengesellschaft. Piperazine derivatives and processes for their manufacture. 3,728,340, 4-17-73, Cl. 260-240.00r.

Raabe, Thomas; Resag, Klaus; and Nitz, Rolf-Eberhard, to Cassella Farbwerke Mainkur Aktiengesellschaft. Piperazine derivatives and processes for their manufacture. 3,753,983, 8-21-73, Cl. 260-240.00j.

Raaf, Helmut; and Buttel, Kurt, to MEPAG Metall and Plastik Packung GmbH & Company. Device and method for simultaneously dispensing different materials from a container. 3,747,804, 7-24-73, Cl. 222-1.000.

Raago, Rein, to Wagner Electric Corporation. Symbol display tube with auxiliary electrode. 3,780,326, 12-18-73, Cl. 313-108.00r.

Raaigever, Frederik: *See—*
Van Elk, Cornelis Johannes; Raaigever, Frederik; Van Der Lee, Jan Gijsbert Dirk; and Morrien, Albertus Marinus, 3,753,141.

Raal, Aino: *See—*
Dinh-Nguyen, Nguyen; and Raal, Aino, 3,717,664.

Raal, Stefan: *See—*
Krelz, Otto; and Raal, Stefan, 3,759,401.

Raamot, Jaan, to Western Electric Company, Incorporated. Parallel-current voltage regulating circuit. 3,766,402, 10-16-73, Cl. 307-44.000.

Raap, Gerald G.; and Kutz, Donald F. Device for attaching loading ramp to pickup truck tailgate. 3,756,440, 9-4-73, Cl. 214-85.000.

Raap, Rintoe: *See—*
Lemieux, Raymond Urgel; and Raap, Rintoe, 3,766,175.
Lemieux, Raymond Urgel; and Raap, Rintoe, 3,766,176.

Raasch, Hans, to Schlafhorst, W., & Co. Method and device for monitoring the readying of spinning cops for unwinding the same. 3,747,862, 7-24-73, Cl. 242-35.60r.

Raasch, Maynard Stanley, to Du Pont de Nemours, E. I., and Company. Diels-alder adducts of bis-(trifluoromethyl) thioketene. 3,752,827, 8-14-73, Cl. 260-327.0th.

Raatgever, Jacob Frederik: *See—*
Van Elk, Cornelis Johannes; Raatgever, Jacob Frederik; Morrien, Albertus Marinus; and Dirk van der Lee, Jan Gijsbert, 3,716,780.

Raatz, Eckart, to Licentia Patent-Verwaltungs-G.m.b.H. Control device for switching rectifier systems. 3,735,225, 5-22-73, Cl. 318-332.000.

Raaymakers, Rene A.M.M., to N.V. Industrieele Handelscombinatie Holland. Arrangement for effecting a relative linear displacement between a plurality of legs and a structure adapted to be moved along said legs. 3,765,649, 10-16-73, Cl. 254-106.000.

Raba, Joseph W.: *See—*
Whitcomb, Elmer W.; and Raba, Joseph W., 3,748,753.

Raban, Kenneth A. Orthopedic rack. 3,762,403, 10-2-73, Cl. 128-75.000.

Rabb, Joseph C.; and Miller, Larry W., to Heath Farm Equipment Inc. Beet topping and windrowing apparatus and knife orientation means therefor. 3,733,795, 5-22-73, Cl. 56-121.450.

Rabe, Karl Lars Gunnar; and Hanaeus, Karl Sune Ingemar, to Aktiebolaget Arboga Mekaniska Verkstad. Arrangement in storage type wire drawing machines for continuously controlling the speed of an individually driven drawing block having an associated guide bock arranged coaxially therewith and a guide pulley arranged between the blocks. 3,750,449, 8-7-73, Cl. 72-288.000.

Rabe, Peter: *See—*
Kluge, Johannes; Rabe, Peter; Schmidt, Otto; and Schleyer, Meinlof, 3,746,812.

Rabek, Elmer E., to Reliance Electric Company. Combination fitting. 3,731,541, 5-8-73, Cl. 73-493.000.

Rabelos, Nicholas A. Fire escape device. 3,765,507, 10-16-73, Cl. 182-5.000.

Rabenecker, Horst: *See—*
Wachier, Karl-August; and Rabenecker, Horst, 3,759,106.

Rabenhorst, David W., to Johns Hopkins University, The. Fanned circular filament rotor. 3,737,694, 6-5-73, Cl. 310-74.000.

Rabian, Laszlo: *See—*
Ullmann, Werner; Panschow, Rudolf; Shur, Volker; Meyer, Wolfgang; Sieg, Arno; and Rabian, Laszlo, 3,731,043.
Ullmann, Werner; Rabian, Laszlo; Mattei, Silvano; Sieg, Arno; Suter, Peter; Tadini, Costantino; Panschow, Rudolf; Suhr, Volker; and Meyer, Wolfgang, 3,731,044.
Ullmann, Werner; Rabian, Laszlo; Mattei, Silvano; Sieg, Arno; Suter, Peter; Tadini, Costantino; Panschow, Rudolf; Suhr, Volker; and Meyer, Wolfgang, 3,731,045

Rabichev, Lev Yakovlevich; Vasiliev, Vladislav Fedorovich; Putilin, Alexandr Sergeevich; Ilina, Tatyana Grigorievna; Raku, Petr Vasilievich; and Kernitsky, Leopold Pavlovich. Apparatus for the treatment of neuropsychic and somatic diseases with heat, light sound and VHF electromagnetic radiation. 3,773,049, 11-20-73, Cl. 128-362.000.

Rabin, Albert M., to Bell & Howell Company. Knife programmer. 3,779,114, 12-18-73, Cl. 83-205.000.

Rabin, Herbert: *See—*
Bey, Paul P.; Giuliani, John F.; and Rabin, Herbert, 3,718,602.

Rabinovich, Dov; and Schmidt, Gerhard M. J.; deceased (by Schmidt, Esther; administrator), to Yale Research and Development Co., Ltd. X-ray diffractometer. 3,728,541, 4-17-73, Cl. 250-51.500.

Rabinovich, Vyacheslav Anatolievich: *See—*
Nabiullin, Faat Khatovich; Buzova, Zoya Mikhailovna; Gertsik, Efim Mikhailovich; Marfin, Boris Vasilievich; Rabinovich, Vyacheslav Anatolievich; and Koval, Ivan Ivanovich, 3,732,607.

Rabinow, Jacob. String-supported phonograph cartridge. 3,734,511, 5-22-73, Cl. 274-1.00r.

Rabinow, Jacob. Dynamically-balanced phonograph arm. 3,776,557, 12-4-73, Cl. 274-23.00r.

Rabinowitz, Charles M., to Chandler Evans Inc. Fuel control diagnostic unit. 3,748,897, 7-31-73, Cl. 73-118.000.

Rabinowitz, Robert: *See—*
Panzer, Hans Peter; and Rabinowitz, Robert, 3,725,312.
Panzer, Hans Peter; and Rabinowitz, Robert, 3,741,891.

Rabjohn, Rodney R., to Medidyne, Inc. Intermittent traction apparatus. 3,710,787, 1-16-73, Cl. 128-75.000.

Rabl, Richard, to Akkumulaloerenfabrik Dr. Leopold Jungfer. Device for the intermittent feed of a width of material. 3,726,458, 4-10-73, Cl. 226-141.000.

Rabner, Walter P. Tissue containing box holder. 3,733,044, 5-15-73, Cl. 248-313.000.

Rabodzei, Nikolai Vasilievich; Ljubimou, Evgeny Mikhailovich; Nadobnikov, Mikhail Nikolaevich; and Krokhin, Alexandr Alexandrovich. Closed-circuit TV inspection X-ray microscope. 3,743,845, 7-3-73, Cl. 250-360.000.

Raboeuf, Andre: *See—*
Bermann, Francis; Courtaud, Paul; Dioux, Claude; Manifacier, Andre; Raboeuf, Andre; and Ruffet, Pierre, 3,752,985.

Raburn Products, Inc.: *See—*
Etilinger, Ralph, Jr.; and Strobl, Fred P., Jr., 3,765,343.

Rabusin, Elio, to S.A.E.S. Getters S.p.A. Getter device. 3,719,433, 3-6-73, Cl. 417-48.000.

Rabut, Eugene W., to Udylite Corporation, The. Arrangement for mounting semi-conductive device to heat sinks. 3,777,238, 12-4-73, Cl. 317-234.00r.

Rabut, Eugene W., to Occidental Energy Development Company. Manifold system for electrical energy storage systems. 3,779,813, 12-18-73, Cl. 136-161.000.

Racal-Thermionic Limited: *See—*
McLaughlin, Paul, 3,766,529.

Raccanelli, Mirco: *See—*
Galvagni, Alighiero; Raccanelli, Mirco; and Eccettuato, Vittorio, 3,711,843.

Race, Andras: *See—*
Glass, Marvin I.; Bruck, Joseph; and Race, Andras, 3,735,986.

Race, Marlin L., to General Electric Company. Trash compactor having means facilitating trash removal therefrom. 3,779,156, 12-18-73, Cl. 100-218.000.

Race, Martin L.; and Martiniak, Leonard J., to General Electric Company. Appliance anti-tip device. 3,738,727, 6-12-73, Cl. 312-276.000.

Race, Richard T., to Motorola, Inc. Marine galvanic control circuit. 3,769,926, 11-6-73, Cl. 114-.50r.

Race, Russell L.: *See—*
Follrath, Richard D.; and Race, Russell L., 3,739,619.

Race, William J., to Motorola, Inc. Dial pointer assembly for a radio/tape player. 3,763,332, 10-2-73, Cl. 179-100.110.

Rach, Heinz-Dieter; and Grollich, Ekkehard, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic tire with an asymmetrical folded belts. 3,738,408, 6-12-73, Cl. 152-361.0fp.

Rach, Heinz-Dieter; and Grollich, Ekkehard, to Continental Gummi-Werke Aktiengesellschaft. Pneumatic tire with folded belt plies. 3,754,588, 8-28-73, Cl. 152-361.0fp.

Rachel, Todd L., to Bendix Corporation, The. Acceleration enrichment circuitry for electronic fuel system. 3,720,191, 3-13-73, Cl. 123-32.0ea.

Rachel, Todd L., to Bendix Corporation, The. Fuel injection system. 3,763,833, 10-9-73, Cl. 123-32.0ea.

Rachel, Todd L.; Horn, John W.; and Wertheimer, Harry P., to Bendix Corporation, The. Electronic fuel control systems with nonlinearizing circuit means interconnecting the pressure transducer with the main computation means. 3,765,380, 10-16-73, Cl. 123-320ea.

Rachels, Julian A., Jr.: *See—*
Mausner, Marvin; and Rachels, Julian A., Jr., 3,776,861.

Rachem Corporation: *See—*





Clabburn, Robin James Thomas, 3,721,749.

Rachie, John B. Surfing sailboat. 3,707,935, 1-2-73, Cl. 114-39.000.

Rachlin, Albert Israel: *See—*
Gurien, Harvey; and Rachlin, Albert Israel, 3,764,629.

Rachlin, Joel R.; and Neudek, Rudolph Otto. Ventilating air distributing channel-duct joint. 3,759,159, 9-18-73, Cl. 98-40.00c.

Rachlin, Joel R.; and Neudek, Rudolph Otto. Ventilating air distributing channel spreader-supporting bracket. 3,760,709, 9-25-73, Cl. 98-40.00d.

Rachlin, Joel R.; and Neudek, Rudolph Otto. Ventilating air distributing channel bar. 3,760,710, 9-25-73, Cl. 98-41.0sv.

Rachlinski, Stanley: *See—*
Kirkland, Norman; and Rachlinski, Stanley, 3,711,876.

Rachmann, Johannes: *See—*
Fussgaenger, Kurt; Rachmann, Johannes; and Mettler, Klaus, 3,737,828.

Rachner, Horst: *See—*
Schuster, Siegfried; Kilian, Franz Peter; and Rachner, Horst, 3,732,839.

Rachocki, Eugene, to Zurn Industries, Inc. Bilge pump. 3,717,420, 2-20-73, Cl. 417-12.000.

Rachor, Lothar; and Hackstein, Karl-Gerhard, to NUKEM Nuklear-Chemie und- Metallurgie Gesellschaft mit beschrankter Haftung. Fuel element for high temperature reactor. 3,738,912, 6-12-73, Cl. 176-71.000.

Raciazek, Andre: *See—*
Falvert, Daniel; Raciazek, Andre; Authie, Gerard; Clot, Jean; and Giraud, Alain, 3,717,757.

Racicoi, Donatien. Automatic transmission and centrifugal clutch assemblies. 3,768,337, 10-30-73, Cl. 74-752.00e.

Racicot, Ernest G.: *See—*
Lipchik, Harold; and Racicot, Ernest G., 3,758,203.

Racin, George, 1/2% to Racin, Michael and Reynolds, Donald A. Tool for releasing frozen work parts. 3,762,021, 10-2-73, Cl. 29-263.000.

Racin, Michael: *See—*
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Racina, Joseph M. Jump cup. 3,749,344, 7-31-73, Cl. 248-221.000.

Racine Railroad Products, Inc.: *See—*
McIlrath, William P., 3,766,860.

Racine, Raymond F.: *See—*
Barrett, Carl R., Jr.; Feeney, James E.; Goldstein, Abe; and Racine, Raymond F., 3,745,578.

Racine, William H., to Test Tools, Inc. Quick mount fitting. 3,738,688, 6-12-73, Cl. 285-312.000.

Racine, William H. Tube end fitting. 3,779,587, 12-18-73, Cl. 285-312.000.

Rack, David. Multiple-plant substrate body. 3,755,964, 9-4-73, Cl. 47-37.000.

Rack Engineering Company: *See—*
Colbridge, Thomas D., 3,757,967.
Saul, Samuel, Jr.; and Colbridge, Thomas D., 3,743,115.

Rackman, Michael I. Liquid-crystal television display system. 3,716,658, 2-13-73, Cl. 178-7.30d.

Rackman, Michael I.; and Matthew, Morton P. Action game. 3,731,924, 5-8-73, Cl. 273-1.00e.

Rackman, Michael I. Mating configurations for connectable components. 3,755,641, 8-28-73, Cl. 200-163.000.

Rackman, Michael I. Attachment for facilitating use of a push-button telephone set as a data terminal. 3,778,553, 12-11-73, Cl. 179-2.0dp.

Rackow, Martin L., to Parker Pen Company, The. Apparatus for handling cylindrical blanks. 3,712,093, 1-23-73, Cl. 72-3.000.

Rackson, Chester B. Control system for dental drill operation. 3,732,622, 5-15-73, Cl. 32-22.000.

Ract, Bernard, to Juvenilia. Convertible piece of furniture with double-decker beds. 3,748,667, 7-31-73, Cl. 5-8.000.

Racunas, Bernard J.: *See—*
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Racy, Stanley, to Line Fast Corporation. Container coupler. 3,752,511, 8-14-73, Cl. 287-2.000.

Racz, Nick S.; and Higgins, David M. Spray assembly memory. 3,739,742, 6-19-73, Cl. 118-2.000.

Raczek, Thaddeus Anthony, to International Business Machines Corporation. Forming a metal and foam plastic composite. 3,768,142, 10-30-73, Cl. 29-421.000.

Raczuk, Richard Charles. Variable exhaust system for combustion engine. 3,726,092, 4-10-73, Cl. 60-314.000.

Radabaugh, Gary L.: *See—*
Chambers, Bruce B.; and Radabaugh, Gary L., 3,775,915.

Radakovich, Louis. Means for molding. 3,771,438, 11-13-73, Cl. 100-178.000.

Radchenko, Ruslan Vasilievich; and Mokrushin, Stanislav Alexandrovich, to Otdel Fiziko-Tekhnicheskikh Problem Energetiki Uralskogo Filiala An SSSR. Electromagnetic pumps for liquid metals. 3,708,246, 1-2-73, Cl. 417-50.000.

Radcliffe, Arthur J., Jr., to Burroughs Corporation. Sense amplifier for high speed memory. 3,739,355, 6-12-73, Cl. 340-173.00r.

Radcliffe, Arthur J., Jr., to Burroughs Corporation. Correlation measurement apparatus. 3,767,907, 10-23-73, Cl. 235-181.000.

Radcliffe, Jerry K.; and Whalen, Gerald W., to International Business Machines Corporation. Zero skew clock distribution system. 3,751,591, 8-7-73, Cl. 178-68.000.

Radcliffe, Milton R.: *See—*
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Radd, Frederick T., to Continental Oil Company. Cutter bit and method of causing rotation thereof. 3,746,396, 7-17-73, Cl. 299-10.000.

Raddatz, Gene R.: *See—*
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Raddi, William J., to ESB Incorporated. Body organ stimulator with voltage converter. 3,707,974, 1-2-73, Cl. 128-419.00p.

Raddi, William J.; Johnson, Robert W.; and Smithmyer, Joseph W., to ESB Incorporated. Cardiac pacers with source conditionresponsive rate. 3,738,371, 6-12-73, Cl. 128-419.00p.

Raddi, William J.; Kligerman, Jerome L.; and Herrmann, Cal C., to ESB Incorporated. Monitor apparatus for implanted pulse generator. 3,769,965, 11-6-73, Cl. 128-2.05r.

Radecke, Helmut, to Fernseh G.m.b.H. Producing vertical aperture correction signals for television image transmitters 08400110. 3,708,753, 1-2-73, Cl. 328-162.000.

Radecke, Helmut, to Bosch, Robert, Fernsehanlagen GmbH. Horizontal aperture correction with variable characteristic. 3,730,987, 5-1-73, Cl. 178-7.100.

Radecki, Kenneth P.: *See—*
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Radecki, Tony: *See—*
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Radecki, Tony, to Modern Faucet Mfg. Co. Adjustable spray head. 3,762,650, 10-2-73, Cl. 239-396.000.

Radecki, Tony, to Modern Faucet Mfg., Co. Oral hygiene device utilizing a pulsed jet of water. 3,771,517, 11-13-73, Cl. 128-66.000.

Radell, Eugene A.; Rauner, Frederick J.; and Houle, James F., to Eastman Kodak Company. Lithographic plate desensitizer formulations. 3,738,850, 6-12-73, Cl. 106-2.000.

Rademacher, Albert, to Maschinenfabrik Carl Zangs Aktiengesellschaft. Harness connector for jacquard machines. 3,736,962, 6-5-73, Cl. 139-85.000.

Rademachers, Jakob: *See—*
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Rademaker, Leo C.; and Hill, Ezra C., to General Electric Company. Plastic case power supply. 3,721,865, 3-20-73, Cl. 317-120.000.

Rademaker, Leo C., to General Electric Company. Adjustable high voltage power supply with output polarity switching. 3,731,179, 5-1-73, Cl. 321-15.000.

Rader, Charles A.: *See—*
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Rader Companies, Inc.: *See—*
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Rader, Edwin R.: *See—*
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Rader, Edwin R.; and Ripley, Clarence A., Jr., to Monitor Systems Corporation. Method and apparatus for non-contact surface measurement. 3,781,115, 12-25-73, Cl. 356-167.000.

Rader, Guy: *See—*
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Rader, James R.; and Smith, Paul W. Teaching aid for demonstrating drug circulation or the like in human body. 3,748,366, 7-24-3, Cl. 35-17.000.

Rader, Jerome A. Apparatus for shredding and disposing of construction waste material. 3,727,846, 4-17-73, Cl. 241-47.000.

Rader, T. Freeman. Modular building system. 3,755,973, 9-4-73, Cl. 52-73.000.

Radex Corporation: *See—*
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Radford, David L., to Vital Assists, Inc. Hemodialysis. 3,723,305, 3-27-73, Cl. 210-22.000.

Radford, Herschel D.: *See—*
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Radford, Troy R.: *See—*
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Radiant Devices Incorporated: *See—*
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Radiant Energy Systems, Inc.: *See—*
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Radiant Industries, Inc.: *See—*
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Radiation and Environmental Materials, Inc.: *See—*
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Free, David, 3,780,305.

Radiation Dynamics, Inc.: *See—*

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Davidson, Jimmy Lee; and Mason, Donald R., 3,728,179.
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Radimer, Kenneth J.: *See—*
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Radin, Bernard G.; and Vanderberg, Lawrence J., to Ford Motor Company. External high speed warning system for an automotive vehicle. 3,748,642, 7-24-73, Cl. 340-62.000.
Radin, Edward J.; and Sames, Delbert W., to GAF Corporation. Flash flat-bed wet copier. 3,717,408, 2-20-73, Cl. 355-3.000.
Radin, George: *See—*
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Radke, Arthur O., to Oil Products Company. Molded seat cushion with cast skin and insert receiving recess. 3,736,022, 5-29-73, Cl. 297-453.000.
Radke, Arthur O.; and Galbraith, Donald C., to Universal Oil Products Company. Seat belt anchor mechanism for adjustable seat. 3,758,158, 9-11-73, Cl. 297-385.000.
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Radomski, Alfreda, to Warnaco, Inc. Brassiere. 3,779,250, 12-18-73, Cl. 128-489.000.
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Radscheit, Kurt; Stache, Ulrich; Fritsch, Werner; Haede, Werner; and Lindner, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 3-β Hydroxy-14, 15β-oxido-14β-bufa-4, 20,22-trienalide-3β-(α-L-rhamnopyranoside). 3,741,955, 6-26-73, Cl. 260-210.500.
Radscheit, Kurt; Stache, Ulrich; Fritsch, Werner; Haede, Werner; and Lindner, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Cardio-active glycosides of 3 beta, 14-dihydroxy-4,5 beta-oxido-14 beta-bufa 20,22-dienolides andprocess for their preparation. 3,741,956, 6-26-73, Cl. 260-210.500.
Radscheit, Kurt; Stache, Kelkheim Ulrich; Fritsch, Werner; Haede, Werner; and Lindner, Ernst, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Cardio-active pyranosides of 3β-hydroxy-4-chloro-carda-4,20, (22)-dienolides. 3,761,464, 9-25-73, Cl. 260-210.500.
Radtke, Charles Stephan. Opening tab for easy open container. 3,773,210, 11-20-73, Cl. 220-54.000.
Radtke, Joseph D.: *See—*
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Radtke, Joseph D.; and Kiffmeyer, William W., to Allen-Bradley Company. Analog to digital converter. 3,710,378, 1-9-73, Cl. 340-347.0ad.
Radtke, Schrade F.; and Lund, John A., to International Lead Zinc Research Organization, Inc. Particulate zinc alloys. 3,753,702, 8-21-73, Cl. 75-178.00r.
Radtke, Shcrade F.; Miron, Jerry; Bhatt, Pradip; Shah, Bharat C.; and Skeist, Irving, to International Lead Zinc Research Organization, Inc. Process for producing a lead-plastic laminate and a laminate produced by the process. 3,719,551, 3-6-73, Cl. 161-21.000.
Radulescu, Valentin, to Institutul de Proiectari si Cercetari Pentru Utilaj Petrolier-IPCUP. Torque-controlled pipe-thread tightener. 3,722,331, 3-27-73, Cl. 81-52.400.
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Rae, Howard Keith, to Atomic Energy of Canada Limited. Deuterium-hydrogen monothermal exchange. 3,716,621, 2-13-73, Cl. 423-248.000.
Raebiger, Wolfgang, to Grundig. Device for examining the piston rings in free-floating piston engines. 3,714,781, 2-6-73, Cl. 60-54.50r.
Raebiger, Wolfgang, to Grundig. Device for ventilating hydrostatic motion converters in free-floating piston engines. 3,745,765, 7-17-73, Cl. 60-24.000.
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Raefield, Robert W., to Systems Enterprises Inc. Washing machine including oscillatory spray system. 3,773,266, 11-20-73, Cl. 239-243.000.
Raess, Ulrich; and Jan, Daniel, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Apparatus for the lapping of two gear wheels. 3,724,042, 4-3-73, Cl. 29-90.000.
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Raetzsch, Carl W.; Darlington, William B.; and Cunningham, Hugh, to PPG Industries, Inc. Electrolytic cell. 3,759,813, 9-18-73, Cl. 204-256.000.
Raevsky, Georgy Vladimirovich; Biletsky, Semen Mikhailovich; and Burmenko, Eduard Jurievich, to Institut Elektrosvarki Imeni E.O. Patona Akademii Nauk Ukrainskoi SSR. Supporting device of rotary furnaces. 3,711,075, 1-16-73, Cl. 263-33.00r.
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Raff, Paul; Reuther, Wolfgang; Petersen, Harro; and Pommer, Ernst-Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Fungicide for protecting wood. 3,725,544, 4-3-73, Cl. 424-154.000.
Raff, Paul; Ritzeri, Gerhard; and Weitz, Hans-Martin, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Prevention of fouling in hydrocarbon separation. 3,763,018, 10-2-73, Cl. 203-9.000.
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Raffa, Angelo M. Duct bank with coupling. 3,711,127, 1-16-73, Cl. 285-137.00r.
Raffaelli, Joseph Gino; and Palmer, Reed Albert, to International Telephone and Telegraph Corporation. Method of making an electrical apparatus. 3,742,601, 7-3-73, Cl. 29-611.000.
Raffaelli, Joseph Gino; and Palmer, Reed Albert, to International Telephone and Telegraph Corporation. Electrical ignition apparatus. 3,774,077, 11-20-73, Cl. 317-98.000.
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Ragen, Robert A., to Singer Company, The. Calculator with self-synchronous recirculating memory. 3,778,778, 12-11-73, Cl. 340-172.500.
Ragep, Gazie K., to Beaunit Corporation. Surface modified polyester reinforcing articles. 3,729,336, 4-24-73, Cl. 117-76.00t.
Rager, Charles E. Buoy mooring device. 3,775,787, 12-4-73, Cl. 9-8.00r.
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Ragland, Evan L., to American Reditel Corporation. Hand held apparatus for sensing data bits carried on a sheet. 3,736,410, 5-29-73, Cl. 235-61.11e.
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Ragsdale, Charles W., to United States of America, Army. Cardiac programmer for a coronary blood pump. 3,750,644, 8-7-73, Cl. 128-1.00d.
Ragsdale, Charles W.; and Wright, Edward A., to United States of America, Army. Audio electrocardiogram monitor. 3,760,100, 9-18-73, Cl. 179-1.000.
Ragsdale, Robert G., to Milgo Electronic Corporation, mesne. Automatic equalizer circuit. 3,742,360, 6-26-73, Cl. 325-42.000.
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Rahn, Rudolph J., to Rahn Granite Surface Plate Company. Surface plate and controls therefor. 3,739,150, 6-12-73, Cl. 219-448.000.
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Rai, Charanjit, to Cities Service Oil Company. Reforming catalyst. 3,776,860, 12-4-73, Cl. 252-455.00r.
Raible, Donald A.; and Pierie, Will R., to American Hospital Supply Corporation. Cloth covered heart valve with protected cage legs. 3,723,996, 4-3-73, Cl. 3-1.000.
Raible, Hermann, to Bauerle, Mathias, GmbH. Control means for printing apparatus, in particular for offset printing machines. 3,742,244, 6-26-73, Cl. 307-112.000.
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Raichuk, Jury Isaakovich; Knyazhinsky, Zakhar Osipovich; Mandelberg, Simon Lvovich; Lebedev, Vladimir Konstantinovich; and Volkov, Viktor Nikolaevich. Method of electric-arc welding of tubular products with magnetic control of the arc. 3,710,066, 1-9-73, C. 219-61.000.
Raidel, John E., to Ridwell Corporation. Multiple joint tandem suspension with torque springs. 3,751,063, 8-7-73, Cl. 280-104.50a.
Raider, George K., to Dynamics Corporation of America. Composite air distributing, lighting and acoustical unit. 3,744,396, 7-10-73, Cl. 98-40.0dl.
Raider, Jerry W., to International Business Machines Corporation. Printer hammer mechanism. 3,715,978, 2-13-73, Cl. 101-93.00c.
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Rait, Joseph M.; and Riesenberg, James H., to Pelorex Corporation. Container filling and sealing apparatus. 3,755,985, 9-4-73, Cl. 53-7.000.
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Raitport, Eli. Snap mechanism for use in electrical switches, fluidic switches, valves, etc. 3,749,354, 7-31-73, Cl. 251-75.000.
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Rakestraw, Robert H. Method and apparatus for orienting and harvesting tobacco leaves. 3,754,382, 8-28-73, Cl. 56-27.500.
Rakestraw, Roy R. Movable chair entertainment unit. 3,713,652, 1-30-73, Cl. 272-1.00r.
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Rambo, Sheldon I., to Westinghouse Electric Corporation. Means for generating a flat-topped pulse with sine-squared rise and fall characteristics. 3,736,589, 5-29-73, Cl. 343-17.10r.
Rambold, Klaus: *See—*
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Rambosek, George M.: *See—*
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Ramdohr, Detlef, to Mannesmann Aktiengesellschaft. Press die for bending U-shaped blanks into pipes. 3,754,431, 8-28-73, Cl. 72-416.000.
Ramello, Piero, to Minnesota Mining and Manufacturing Company. Phenolic couplers. 3,772,002, 11-13-73, Cl. 96-100.000.
Ramey, James M.: *See—*
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Ramge, Dennis Lee: *See—*
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Ramier, Georges: *See—*
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Ramillon, Rene. Safety front jaw for ski bindings. 3,779,569, 12-18-73, Cl. 280-11.35t.
Ramins, Gunars H. Pocket rake for gable siding concealing a roof edge. 3,735,538, 5-29-73, Cl. 52-94.000.
Ramirez, Carlos M., to Steven Manufacturing Co. Article transporting game apparatus. 3,720,412, 3-13-73, Cl. 273-86.00r.



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Ramsey, Frank J. Floating fish trap. 3,754,348, 8-28-73, Cl. 43-103.000.



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Ramovist, Lars Henry, to Rederiaktiebolaget Nordstjernan. Cemented carbide compositions and process for producing the same. 3,713,789, 1-30-73, Cl. 29-182.800.
Ramovist, Lars Henry, to Rederiaktiebolaget Nordstjernan. Sintered hard metal product. 3,752,655, 8-14-73, Cl. 29-182.500.
Rampe, John F., to Rampe Research. Finishing machine including pressure responsive valve peripherally sealing tub drain openings. 3,769,759, 11-6-73, Cl. 51-163.000.
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Ramqvist, Lars Henry, to Rederiaktiebolaget Nordstjernan. Method of enlarging the particle size of transition metal powder and carbides thereof. 3,743,499, 7-3-73, Cl. 75-.5bb.
Rams, Michael J.; Rosenthal, Arnold J.; and Clarke, Charles M., to Celanese Corporation. Carbonization/graphitization of polyacrylonitrile fibers containing residual spinning solvent. 3,775,520, 11-27-73, Cl. 264-29.000.
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Ramsay, Alston, Jr., to Celanese Corporation. Fabric molding. 3,713,936, 1-30-73, Cl. 156-242.000.
Ramsay, Marcus, to Olin Corporation. Electric and impact primer. 3,768,413, 10-30-73, Cl. 102-46.000.
Ramsay, Ray D., to Phillips Petroleum Company. Method for rendering difficulty dyeable material or fabric dyeable and product. 3,743,529, 7-3-73, Cl. 117-21.000.
Ramsdale, Roy. Apparatus for dispensing photographic chemicals. 3,765,576, 10-16-73, Cl. 222-132.000.
Ramsdall, Roy, to Clark, Alex L., Limited. Processing of photographic roll film. 3,763,759, 10-9-73, Cl. 95-93.000.
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Ramsey, Charles W., to General Motors Corporation. Bezel assembly. 3,781,537, 12-25-73, Cl. 240-8.160.
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Ramsey, James B.; and Anderson, Paul T., to Westinghouse Electric Corporation. Thermally responsive electrical control device for polyphase currents. 3,743,992, 7-3-73, Cl. 337-48.000.
Ramsey, James C. Collapsible bow arm rest. 3,750,641, 8-7-73, Cl. 124-23.000.
Ramsey, James E., Jr., to Westinghouse Electric Corporation. Electrolytic coulometer for integrating voltage and current components of power. 3,718,861, 2-27-73, Cl. 324-142.000.
Ramsey, Keith E., to Knickerbocker Company, The. Lift truck load lifting mechanism. 3,727,781, 4-17-73, Cl. 214-701.00p.
Ramsey, Maynard, III, to Ramtech, Inc. Disposable body fluid pressure monitor. 3,720,201, 3-13-73, Cl. 128-2.05d.
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Ramsey, Samuel Terry. Tool for treating or cleaning wire rope. 3,736,618, 6-5-73, Cl. 15-306.00a.
Ramsey Steel Company, Inc.: *See—*
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Ramsey, Wallace Burton; and De Lapp, Darwin Fiske, to American Cyanamid Company. Preparation of polyglycolic acid in finely divided form. 3,781,349, 12-25-73, Cl. 260-535.00p.
Ramsey, William R.; West, Phillip B.; Fields, Charles E.; and Smith, Robert E. Torpedo recovery device. 3,766,880, 10-23-73, Cl. 114-241.000.
Ramsey, William W. Device for driving stakes. 3,735,819, 5-29-73, Cl. 173-21.000.
Ramstetter, Otto, Kommanditgesellschaft, Firma: *See—*
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Ramunas, Valdas S., to Warner & Swasey Company, The. Flyer assembly. 3,728,854, 4-24-73, Cl. 57-68.000.
Ramunda, Angelo J.; deceased (by Ramunda, Phyllis G.; executrix); Adams, Phillip; Beinfest, Sidney; and Gulakowski, Thaddeus A., to Millmaster Onyx Corporation. Treatment of cellulosic fiber containing fabrics to improve the physical characteristics. 3,752697, 8-14-73, Cl. 117-138.80f.
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Rand Corporation, The: *See—*
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Rand, Myron Joel; and Schmidt, Paul Felix, to Bell Telephone Laboratories, Incorporated. Radiation resistant coatings for semiconductor devices. 3,765,935, 10-16-73, Cl. 117-201.000.
Rand, Sidney, to Commonwealth of Puerto Rico, Government of the. Machine for polishing masonry floors. 3,721,048, 3-20-73, Cl. 51-174.000.
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Kiesel, Robert J.; Randall, David I.; Field, Nathan D.; and Rudoff, Stanley, 3,728,319.
Randall, David I.; and Wynn, Robert W., to GAF Corporation. Cyclic diamides of 2-chloroethyl phosphonic acid as plant growth regulants. 3,711,272, 1-16-73, Cl. 71-86.000.
Randall, David I.; and Wynn, Robert W., to GAF Corporation. Plant growth method and composition using 2-chloro-ethyl phosphonic diamide. 3,713,805, 1-30-73, Cl. 71-86.000.
Randall, David I.; and Copes, Joseph P., to GAF Corporation. Production of 2-hydroxy-3,5,6-trichlorobenzylamines. 3,781,359, 12-25-73, Cl. 260-570.900.
Randall, David L.; and Vogel, Calvin, to GAF Corporation. Production of 2-haloethylphosphonic acid. 3,728,381, 4-17-73, Cl. 260-502.40r.
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Randall, Francis R., to Harsco Corporation. Side mount loading platform for van type truck. 3,764,030, 10-9-73, Cl. 214-77.00p.
Randall, Francis R., to Harsco Corporation. Vertical closing tailgate for trucks. 3,771,672, 11-13-73, Cl. 214-77.00p.
Randall, James E., to Ranco Incorporated. Vortex fluid amplifier with noise suppresser. 3,722,522, 3-27-73, Cl. 137-812.000.
Randall, John H.; and Proctor, Oliver P., to Phillips Petroleum Company. Control of reaction temperature in a plurality of alkylation reactors. 3,726,941, 4-10-73, Cl. 260-683.570.
Randall, John H., to Phillips Petroleum Company. Process and apparatus for fractionator reboiling with minimized fouling by centrifuging and decanting. 3,766,021, 10-16-73, Cl. 203-39.000.
Randall, Louis E. Three-point hitch log skidding attachment. 3,739,928, 6-19-73, Cl. 214-85.500.
Randall, Lyman James; and Seward, Thomas P., III, to Corning Glass Works. Thermally darkening photochromic glass. 3,734,754, 5-22-73, Cl. 106-47.00r.
Randall, Richard L., to North American Rockwell Corporation. Thermal flowmeter. 3,742,761, 7-3-73, Cl. 73-204.000.
Randall, Robert Paul, to EMI Limited. Arrangements including image intensifier devices. 3,767,961, 10-23-73, Cl. 315-11.000.
Randall, Robert Scott; and Tengelsen, Ralph Arnold, to Bell Telephone Laboratories, Incorporated. Latching switch. 3,743,977, 7-3-73, Cl. 337-77.000.
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Irmscher, Klaus; Klockow, Michael; Mehrhof, Werner; Pfitzner, Klaus; Randau, Deeter; Nowak, Herbert; and Freisberg, Karl-Otto, 3,780,171.
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Randau, Helmut Klaus; and Taphorn, Bodo Egon, to Volkswagenwerk Aktiengesellschaft. Distributor. 3,721,223, 3-20-73, Cl. 123-102.000.
Randel, Mortimer A. Lock device for securing apertured members. 3,769,821, 11-6-73, Cl. 70-33.000.
Randel, Rikk Harrison. Illuminated electronic doorbell. 3,735,112, 5-22-73, Cl. 240-2.00s.
Randell, Donald Alan: *See—*
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Randell, Donald Richard; and Cox, Ernest Alfred, to Ciba-Geigy Corporation. Hydroxybenzotriazoles as metal deactivators. 3,720,616, 3-13-73, Cl. 252-51.50r.
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Randle, William R. Rally race computer. 3,742,195, 6-26-73, Cl. 235-92.0ev.
Randles, William W.: *See—*
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Randmer, Jacob A., to Machlett Laboratories, Incorporated, The. Electron beam heating apparatus. 3,770,934, 11-6-73, Cl. 219-121.0eb.
Randmere, Uno; and Suntop, Morris A., to Stromberg-Carlson Corporation. Current splitting arrangement. 3,763,323, 10-2-73, Cl. 179-77.000.
Rando, Frederick D.; and Rogers, William P., to Ultronic Systems Corporation. Selective blanking of video display. 3,732,365, 5-8-73, Cl. 178-6.800.
Randol, Glenn T. Vacuum-power brake booster. 3,727,405, 4-17-73, Cl. 60-54.50p.
Randol, Kent B.; and Redford, Robert L., to International Harvester Company. Flexible plastic trash plate for a moldboard plow. 3,736,989, 6-5-73, Cl. 172-75.00g.
Randolph, Alexander. Chess game pieces. 3,759,523, 9-18-73, Cl. 273-137.00r.
Randolph, Arthur J. Induction embossing. 3,764,767, 10-9-73, Cl. 219-10.490.
Randolph, Arthur J.; and Horsting, Albertus G. Poultry handling apparatus. 3,774,578, 11-27-73, Cl. 119-97.00r.
Randolph, George J. J., Jr. Electromechanical deflection sensing device. 3,742,418, 6-26-73, Cl. 338-5.000.
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Rands, William Partington. Energy absorbing device. 3,779,591, 12-18-73, Cl. 293-89.000.
Ranel, Josef, to Vereinigte Farbenglaswerke Aktiengesellschaft. Multi-part mold with means for aligning mold parts. 3,778,246, 12-11-73, Cl. 65-360.000.
Raneses, Pedro C. Apparatus for determining earthwork volumes. 3,745,658, 7-17-73, Cl. 33-121.000.
Ranet, Ernst L.; and Pfrengle, Kenneth R., to General Motors Corporation. Air induction valve for exhaust emission control system. 3,751,915, 8-14-73, Cl. 60-290.000.
Raney, William E.; and Siebert, Milan J. Device for pushing and pulling implements, including cables, into and from conduits and the like. 3,776,179, 12-4-73, Cl. 118-8.000.
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Ranieri, Louis F. Self-contained, multi-blade package. 3,742,805, 7-3-73, Cl. 83-662.000.
Rank, Carleton L.; and Ryan, Ray T., to Metradon Associates, Sail-
Ransom, Stephen, to British Aircraft Corporation Limited. Aircraft having variable sweep-back wings. 3,734,430, 5-22-73, Cl. 244-



Rapids, Felix R., to Rapid Electroplating Process, Inc. Method of
Rarey, Kenneth W.; and Kennedy, John B., Jr., to Continental Can

Ranieri, Louis F. Self-contained, multi-blade package. 3,742,805, 7-3-73, Cl. 83-662.000.

Rank, Carleton L.; and Ryan, Ray T., to Metradon Associates. Soil stabilization apparatus. 3,732,023, 5-8-73, Cl. 94-40.000.

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Western, Michael Christopher Ian, 3,763,586.
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Rankel, Lillian Ann, to Bell Telephone Laboratories, Incorporated. Silicon semiconductor device processing. 3,751,314, 8-7-73, Cl. 156-17.000.

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Rankin, Billy F., to Burton, Parsons Chemicals Inc. Ophthalmic solution. 3,767,788, 10-23-73, Cl. 424-78.000.

Rankin, Billy F., to Burton, Parsons & Chemicals, Inc. Method of providing a synthetic mucus in vivo. 3,767,789, 10-23-73, Cl. 424-78.000.

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Rankin, Gordon W.; and Hooker, James R., to United States of America, Atomic Energy Commission. Method of making particles from an aqueous sol. 3,748,274, 7-24-73, Cl. 252-301.10s.

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Rankins, Everett V. Windrow rake opening device and one wheel tractor. 3,778,987, 12-18-73, Cl. 56-377.000.

Ranks Hovis McDougall Limited: *See—*
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Emery, Anthony Nicholas, 3,713,982.

Rannells, David C., to Itek Corporation. Circuit for improving RF pulse reception frequency resolution without rise-time degradation. 3,781,688, 12-25-73, Cl. 325-321.000.

Rannenberg, George C., to United Aircraft Corporation. Function generator transducer. 3,731,594, 5-8-73, Cl. 92-36.000.

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Ratliff, George D., Jr., to United States Steel Corporation. Reinforcing and supporting saddle for C-shaped sheet-metal beams. 3,714,752, 2-6-73, Cl. 52-665.000.
Ratliff, George D., Jr. Variable displacement motors. 3,728,048, 4-17-73, Cl. 418-17.000.
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Ratten, Antonius G.; and Van Brederode, Jan H., to Stichting Ontwikkeling Verpakkingsmethoden in de Zuivelindustrie. Sealing of foam plastic sheets. 3,712,844, 1-23-73, Cl. 161-38.000.
Rattenbury, Kenneth H.: *See—*
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Rattenbury, Kenneth H., to Weston Chemical Corporation. Olefinic polymers stabilized with thioacyl trivalent phosphorus compounds. 3,773,716, 11-20-72, Cl. 260-45.850.
Ratti, Ferruccio, to Steiner Company Lausanne S.A. Dispensing apparatus. 3,730,409, 5-1-73, Cl. 225-14.000.
Ratti, Michele. Process and device for producing fancy ply yarns with high efficiency uptwisters. 3,780,512, 12-25-73, Cl. 57-16.000.
Rattman, James A., to Du Pont de Nemours, E. I., and Company. Apparatus for forming images on continuously moving elements. 3,771,871, 11-13-73, Cl. 355-102.000.
Rattner, Leonard C. Box. 3,738,041, 6-12-73, Cl. 40-130.00c.
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Rattray, William L., to AMF Incorporated. Apparatus for building tires. 3,775,220, 11-27-73, Cl. 156-396.000.
Ratts, Kenneth Wayne, to Monsanto Company. Aryl methyl phenacyl sulfonium tetrafluoroborates. 3,723,534, 3-27-73, Cl. 260-590.000.
Ratts, Kenneth Wayne. Dimethylsulfonium-2-[(alkoxycarbonyl) carbonyl] phenacyhides and derivatives thereof. 3,739,012, 6-12-73, Cl. 260-470.000.
Ratts, Kenneth Wayne, to Monsanto Company. Insecticidal composition and method containing aryl-methyl phenacyl sulfonium tetrafluoroborates. 3,772,434, 11-13-73, Cl. 424-185.000.
Ratts, Kenneth Wayne, to Monsanto Company. S-Dichloromethyl oxyphosphorus thioates. 3,776,984, 12-4-73, Cl. 260-943.000.
Ratusky, Josef; and Sorm, Frantisek, to Ceskoslovenska akademie ved. Insect control agents. 3,746,748, 7-17-73, Cl. 260-486.00r.
Ratz, Heinz; Gawlick, Heinz; Marondel, Gunther; and Bendler, Hellmut, to Dynamit Nobel Aktiengesellschaft. Propellant charge for the firing of projectiles, bolts and the like, from a firing device, and apparatus for the introduction of this propellant chare. 3,756,118, 9-4-73, Cl. 89-33.00r.
Ratzel, Dieter, to Bruker-Physik AG. Circuit arrangement for generating a phase-shiftable voltage. 3,725,772, 4-3-73, Cl. 323-105.000.
Ratzlaff, Waldo O. Carrying case for fishing rods and reels. 3,772,819, 11-20-73, Cl. 43-26.000.
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Rau, Gottfried; and Eck, Albert, to Eumuco Aktiengesellschaft fur Maschinenbau. Forming machine for heated materials, particularly metals. 3,718,027, 2-27-73, Cl. 72-407.000.
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Raubenheimer, Johann Nicolaas. Dosing of liquids. 3,753,659, 8-21-73, Cl. 23-267.00a.
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Rauch, Stewart E., Jr.; and Mayer, Edward H., to Bethlehem Steel Corporation. Steel pickling method. 3,752,169, 8-14-73, Cl. 134-3.000.
Rauch, William Theodore, to General Electric Company. Closed loop carding machine control. 3,768,122, 10-30-73, Cl. 19-240.000.
Rauch, William Theodore, to General Electric Company. Miniature yarn air gauge head. 3,768,303, 10-30-73, Cl. 73-37.700.
Rauchwerger, George P. Capacitance probe for detecting moisture with very long cables. 3,710,244, 1-9-73, Cl. 324-61.00r.
Rauchwerger, George P. Capacitive moisture control system having a peak detector. 3,771,548, 11-13-73, Cl. 137-392.000.
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Rauhui, Michael McKay, to American Cyanamid Company. Carboalkoxy substituted bis-phenyl oxalates as superior chemiluminescent materials. 3,749,679, 7-31-73, Cl. 252-188.300.
Rauhut, Herbert: *See—*
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Rauhut, Michael McKay, to American Cyanamid Company. Stabilization of oxalate ester solutions during storage. 3,718,599, 2-27-73, Cl. 252-188.300.
Rauhut, Otto A., to Wide Range Electronics Corporation. Sound recording device with commonly liftable mounting arms for a plurality of heads which are individually adjustable. 3,748,406, 7-24-73, Cl. 179-100.2ca.
Rauke, Donald G., to Allied Chemical Corporation. Cushion with restraining bands. 3,756,620, 9-4-73, Cl. 280-150.0ab.
Rault, Patrick, to Sodeco Societe des Compteurs de Geneve S.A. Connector for insulated flat cable. 3,768,067, 10-23-73, Cl. 339-99.00r.
Raum, John F.; and Tillman, Henry R., to Western Electric Company, Incorporated. Twisted pair untwisting and stripping tool. 3,736,606, 6-5-73, Cl. 7-14.10r.
Rauma, John G., to Griswold and Rauma, Architects, Inc. Combination eating counter and self-contained garbage receptable unit. 3,738,724, 6-12-73, Cl. 312-140.100.
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Rauner, Frederick J.; and Engebrecht, Ronald H., to Eastman Kodak Company. Nitrogen linked appending quinone diazide light sensitive vinyl polymer compositions and elements. 3,759,711, 9-18-73, Cl. 96-36.000.
Raupach, E. H. Friedrich. Transformer for producing or measuring high and very high potentials or the measuring currents at high potentials in cascade connection. 3,772,625, 11-13-73, Cl. 336-94.000.
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Rausch, John J.; and Van Thyne, Ray J., to Surface Technology Corporation. Nitrided-oxidized/boronized materials. 3,764,405, 10-9-73, Cl. 148-31.500.

Rausch, John J.; and Van Thyne, Ray J., to Surfalloy Corporation. Rotary barrel diffusion coating in molten lead. 3,778,299, 12-11-73, Cl. 117-109.000.

Rausch, Manfred, to Siemens Aktiengesellschaft. Tape drive system. 3,746,287, 7-17-73, Cl. 242-206.000.

Rausch, Paul Gilger; and Todish, Walter Donald, to Foseco Trading A.G. Assembly method for the lining of hot tops and the like in foundry practice. 3,739,833, 6-19-73, Cl. 164-6.000.

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Rausch, Richard E., to Universal Oil Products Company. Hydrocarbon conversion process and catalyst therefor. 3,740,328, 6-19-73, Cl. 208-139.000.

Rausch, Richard E., to Universal Oil Products Company. Platinum-tin uniformly dispersed hydrocarbon conversion catalyst and process. 3,745,112, 7-10-73, Cl. 208-139.000.

Rausch, Richard E., to Universal Oil Products Company. Hydrocarbon isomerization process. 3,772,397, 11-13-73, Cl. 260-668.00a.

Rausch, Richard E., to Universal Oil Products Company. Hydrotreating of hydrocarbons. 3,773,654, 11-20-73, Cl. 208-57.000.

Rausch, Ronald L.; and Jacque, Donald A., to R-J Industries, Inc. Building and method of constructing same from interconnected panels. 3,771,277, 11-13-73, Cl. 52-468.000.

Rausch, William T. Method of employing a television receiver for active participation. 3,778,058, 12-11-73, Cl. 273-85.00r.

Rauschelbach, Paul A., to Sperry Rand Corporation. Autopilot pitch attitude control. 3,781,628, 12-25-73, Cl. 318-584.000.

Rauschenbach, Franz; Timpe, Wolfgang; and Waldmann, Hermann, to Siemens Aktiengesellschaft. Circuit for converting an input voltage of variable frequency into an output voltage of a predetermined, lower frequency. 3,754,180, 8-21-73, Cl. 321-61.000.

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Rauschenberger, Hans: *See—*
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Rauscher, David Albert; and Alexander, Robert Warren, to Carolina Steel and Wire Corporation. Method and apparatus for splicing jacketed cable. 3,721,277, 3-20-73, Cl. 140-111.000.

Rauscher, David Albert; and Alexander, Robert Warren, to Carolina Steel and Wire Corporation. Apparatus for splicing jacketed cable. 3,754,845, 8-28-73, Cl. 425-111.000.

Rauscher, Herbert; and Schoom, Werner. Pesticide and a process for its manufacture. 3,719,751, 3-6-73, Cl. 424-27.000.

Rausen Corporation, The: *See—*
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Rausing, Anders Ruben, to Sobrefina S.A. Apparatus for producing a packaging container comprising a container body of thermoplastic material and a metal foil lining inserted into the. 3,728,196, 4-17-73, Cl. 156-443.000.

Rausing, Anders Ruben, to Sobrefina SA. Packaging container having a container body of thermoplastic material and a metal foil lining inserted into the container body. 3,737,092, 6-5-73, Cl. 229-14.00b.

Rauterkus, Karl Josef; and Seip, Detlev, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of aqueous dispersions of vinyl esters. 3,714,098, 1-30-73, Cl. 260-29.6rw.

Rauterkus, L. Thomas: *See—*
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Ravagli, Armand: *See—*
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Ravas, Richard J., to Westinghouse Electric Corporation. Staggered phase pulse width modulated inverter apparatus. 3,715,649, 2-6-73, Cl. 321-45.00r.

Ravas, Richard J.; Pittman, Paul F.; and Saletta, Gary F., to Westinghouse Electric Corporation. Radar power supply. 3,740,640, 6-19-73, Cl. 323-17.000.

Ravas, Richard J., to Westinghouse Electric Corporation. Direction sensitive doppler processor. 3,781,773, 12-25-73, Cl. 340-1.00r.

Ravdin, Bruce: *See—*
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Rave, Terence W., to Hercules Incorporated. Cross-linking epihalohydrin polymers. 3,717,592, 2-20-73, Cl. 260-2.00a.

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Ravenel, Raymond, to Societe Anonyme Automobiles Citroen. Electronic control devices for multistage gear boxes. 3,741,042, 6-26-73, Cl. 74-863.000.

Ravenelle, Richard L.; and Thorburn, David E., to United States of America, Air Force. Radio frequency store and display system. 3,775,690, 11-27-73, Cl. 325-455.000.

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Ravera, Giovanni; Cosmo, Nicola; and Siletto, Giorgio, to Olivetti, Ing., C., & C., S.p.A. Desk-top electrostatic copying machine. 3,779,638, 12-18-73, Cl. 355-3.000.

Raves, John Reginald, to Northern Electric Company Limited. Apparatus and method for plowing cable or pipe. 3,720,070, 3-13-73, Cl. 61-72.600.

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Ravitts, Richard B., to Richards of Rockford, Inc. Axial flow liquid aerator. 3,739,986, 6-19-73, Cl. 239-221.000.

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Rawlings, Charles S., 20% to Lee, Raymond, Organization, Inc., The. Automatic landing gear device. 3,764,162, 10-9-73, Cl. 280-150.500.

Rawlings, John H., to Questor Corporation. Football helmet. 3,720,955, 3-20-73, Cl. 2-3.00r.

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Rawson, Edward B.; and O'Riorden, David J., Jr., to Searle Medidata, Inc. Signal processing system for achilles tendon reflex testing. 3,734,082, 5-22-73, Cl. 128-2.00n.

Rawson, Edward B.; Murphy, William J., Jr.; Schwarzkope, Daniel B.; and Dowling, John B., to Searle Medidata Inc. Entry confirming input terminal. 3,768,073, 10-23-73, Cl. 340-172.500.

Rawson, Eric Gordon, to Bell Telephone Laboratories, Incorporated. Optical transmission apparatus including radial and tangential polarizers. 3,719,415, 3-6-73, Cl. 350-157.000.

Rawson, Harry H. Replaceable roll assembly. 3,708,844, 1-9-73, Cl. 29-123.000.

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Ray, Charles A. Aerator type attachment structure. 3,739,856, 6-19-73, Cl. 172-21.000.

Ray, Charles William, to Bandy, Emmett O. Apparatus for effecting operations on a fitting on a high pressure gas main. 3,773,067, 11-20-73, Cl. 137-318.000.

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Ray, Gardner C.; and Crain, Donald L., to Phillips Petroleum Company. Conversion of cyclic olefins to acyclic polyenes. 3,715,410, 2-6-73, Cl. 260-680.00r.

Ray, George D. Convertible pool enclosure. 3,766,691, 10-23-73, Cl. 52-71.000.

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Ray, Harry Edward. Rotary sprinkler head. 3,771,723, 11-13-73, Cl. 239-206.000.

Ray, Jack H., to Tenneco Oil Company. Method for drilling a well. 3,722,607, 3-27-73, Cl. 175-57.000.

Ray, James D. Trailer hitching coupler. 3,730,559, 5-1-73, Cl. 280-513.000.

Ray, Joseph, to American Totalisator Company, Inc. Machine for producing business forms. 3,713,674, 1-30-73, Cl. 282-13.000.

Ray, Neil Hunter; and Sherliker, Francis Raymond, to Imperial Chemical Industries Limited. Polymer composites reinforced with low-melt glass. 3,732,181, 5-8-73, Cl. 260-41.00b.

Ray, Philip M.: *See—*
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Ray-Chaudhuri, Dilip K.; Schoenberg, Jules E.; and Sickafoose, Keith E. Alkaline-curing corrugating adhesive. 3,728,141, 4-17-73, Cl. 106-213.000.

Rayburn, Charles C. Method of making a miniature metallized capacitor. 3,715,784, 2-13-73, Cl. 29-25.420.

Rayburn, Charles C., to Illinois Tool Works Inc. Method of making a multilayer plastic chip capacitor. 3,731,354, 5-8-73, Cl. 29-25.420.

Rayburn, Charles C., to Illinois Tool Works Inc. Wound film capacitor and method of winding same about its lead wires. 3,754,311, 8-28-73, Cl. 29-25.420.

Rayburn, Charles Calvin, to Illinois Tool Works Inc. Self-drilling blind rivet. 3,750,518, 8-7-73, Cl. 85-68.000.

Rayburn, Charles Calvin, to Illinois Tool Works Inc. Wound film capacitor. 3,758,833, 9-11-73, Cl. 317-258.000.

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Reddish, Wilson: *See—*
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Reddy, Junuthula N., to Bendix Corporation, The. Fuel injection control system. 3,734,068, 5-22-73, Cl. 123-32.0ea.
Reddy, Junuthula N., to Bendix Corporation, The. Circuit for providing electronic warm-up enrichment fuel compensation which is independent of intake manifold pressure in an electronic fuel control system. 3,771,502, 11-13-73, Cl. 123-32.0ea.
Reddy, Redreddy Sukumar, to Vapor Corporation. Integrated linear door operator. 3,745,705, 7-17-74, Cl. 49-139.000.
Redecker, Friedrich; and Sommer, Ruediger, to Hell, Dr.-Ing., Rudolf. Method of and means for recording line drawings on the screen of a cathode ray tube under computer control. 3,746,912, 7-17-73, Cl. 315-26.000.
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Redenbarger, Philip D.; and Khilnani, Ashok, to Case, J. I., Company. Fluid filter with clogging relief means. 3,757,951, 9-11-73, Cl. 210-131.000.
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Redford, Robert L., to International Harvester Company. Automatic disk harrow hinge locking device. 3,713,495, 1-30-73, Cl. 172-456.000.
Redhead, Paul A., to Canadian Patents and Development Limited. Hot cathode ionization gauge having electrode means for shaping the electric field in the vicinity of the cathode. 3,743,876, 7-3-73, Cl. 373-7.000.
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Redinger, Volker, to Hellerich, Robert, K.G. Eutingen. Process and apparatus for making polygonal spectacle glass rims. 3,721,275, 3-20-73, Cl. 140-88.000.
Redington, Rowland W.; and van Heerden, Pieter J., to General Electric Company. Method of manufacturing semiconductor camera tube targets. 3,718,955, 3-6-73, Cl. 29-25.110.
Redington, Rowland W., to General Electric Company. Photoconductive camera tubes and methods of manufacture. 3,729,645, 4-24-73, Cl. 315-11.000.
Redington, Rowland W.; and Blumenfeld, S. Morry, to General Electric Company. Anti-reflection coating for semiconductor diode array targets. 3,755,015, 8-28-73, Cl. 148-188.000.
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Redman, Michael J., to Kennecott Copper Corporation. Rare earth tellurites and method of producing same. 3,723,600, 3-27-73, Cl. 423-264.000.
Redman, Michael J., to Kennecott Copper Corporation. Extraction of metal values from complex ores. 3,734,715, 5-22-73, Cl. 75-21.000.
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Redmore, Derek, to Petrolite Corporation. Corrosion inhibitors employing phosphate esters of cyclic amidines. 3,711,403, 1-16-73, Cl. 252-8.55e.
Redmore, Derek, to Petrolite Corporation. Use of phosphoramidates of cyclic amidines as corrosion inhibitors. 3,711,404, 1-16-73, Cl. 252-8.55e.
Redmore, Derek; and Welge, Frederick T., to Petrolite Corporation. Silicon-containing aminomethyl phosphonates. 3,716,569, 2-13-73, Cl. 260-448.80n.
Redmore, Derek, to Petrolite Corporation. Inhibiting corrosion with nitrogen-heterocyclic phosphonic acid. 3,720,498, 3-13-73, Cl. 21-2.500.
Redmore, Derek, to Petrolite Corporation. Inhibiting scale with nitrogen-heterocyclic phosphonic acids. 3,743,603, 7-3-73, Cl. 252-180.000.
Redmore, Derek; and Welge, Frederick I., to Petrolite Corporation. Scale formation inhibiting process using silicon-containing aminomethyl phosphonates. 3,751,371, 8-7-73, Cl. 252-175.000.
Redmore, Derek, to Petrolite Corporation. Oxygen scavenger and use thereof. 3,764,548, 10-9-73, Cl. 252-188.000.
Redmore, Derek, to Petrolite Corporation. Certain dihydro pyridine phosphonates. 3,766,197, 10-16-73, Cl. 260-297.00p.
Redmore, Derek, to Petrolite Corporation. Quaternary full nitrogen-heterocyclic phosphonates. 3,770,750, 11-6-73, Cl. 260-294.80r.
Redmore, Derek, to Petrolite Corporation. Use as corrosion inhibitors, nitrogen-heterocyclic phosphonates. 3,775,057, 11-27-73, Cl. 21-2.50a.
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Reed, Bert H., Jr., to Midwest Products of Chicago, Inc. Cement package. 3,747,744, 7-24-73, Cl. 206-47.00r.
Reed, Bruce D.; and O'Dell, Herbert Franklin. Teaching apparatus. 3,707,785, 1-2-73, Cl. 35-35.00c.
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Reed, Chester L., to United States of America, Navy. Three axis simulator. 3,752,429, 8-14-73, Cl. 248-179.000.
Reed, Clifton G. Instrument mount. 3,776,496, 12-4-73, Cl. 248-182.000.
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Reed, Geoffrey Ronald, to British Iron and Steel Research Association, The. Apparatus and method for packaging. 3,724,159, 4-3-73, Cl. 53-3.000.
Reed, George G., Jr.; Karpinski, Janusz M.; and Fox, Sidney V., to Bethlehem Steel Corporation. Method for producing metallic iron powder from iron ore concentrate. 3,748,116, 7-24-73, Cl. 75-3.000.
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Reed, James C. Automatic cabinet making tool. 3,734,153, 5-22-73, Cl. 144-326.000.
Reed, James N., to Copes-Vulcan, Incorporated. Soot blower. 3,750,230, 8-7-73, Cl. 75-317.000.
Reed, Jerry A.; Van Delden, Ronald; Maruko, Shuji U.; Garner, George E.; Ryan, Stanley; Waring, Winfred F.; Klein, Jacob; Schmidt, Herman W., Jr.; and Friedrich, Simon, to United States of America, Army. Multishot portable launching apparatus. 3,750,529, 87-73, Cl. 89-1.800.
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Reed, Lee R.: *See—*
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Reed, Noel E., to Hughes Aircraft Company. High-speed switch device. 3,750,061, 7-31-73, Cl. 335-168.000.
Reed, Norman Leonard, to AMP Incorporated, mesne. Printed circuit bridging connector. 3,771,100, 11-6-73, Cl. 339-17.01m.
Reed, Philip E. Suspended movable scaffold. 3,735,951, 5-29-73, Cl. 248-340.000.
Reed, Richard E., to United States of America, Navy. Retractable electrical connector for missiles. 3,724,322, 4-3-73, Cl. 89-1.811.
Reed, Richard F., to Pavement Planing Company. Gang form mover. 3,734,657, 5-22-73, Cl. 425-62.000.
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Reed, Robert D., to Zink, John, Company. Purge gas admission control for flare system. 3,741,713, 6-26-73, Cl. 431-202.000.
Reed, Robert D.; Zink, John Smith; and Goodnight, Hershel E., to Zink, John, Company. Smokeless flare pit burner and method. 3,749,546, 7-31-73, Cl. 431-5.000.
Reed, Robert D.; Zink, John Smith; Schwartz, Robert E.; Glomm, Horst; Corble, John C.; and Koons, Harold F., to Zink, John, Company. Method and apparatus for non-polluting combustion of waste gases. 3,779,689, 12-18-73, Cl. 431-89.000.
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Reed, William A.; Kinzer, William K.; Swanson, John J.; and Kusner, Robert E., to Republic Steel Corporation. Apparatus for producing metal powder. 3,752,611, 8-14-73, Cl. 425-7.000.
Reed, William Carroll; and Livingston, Kenneth Bratton, to Jet Research Center, Inc. Subsea cable cutter and the method of its use. 3,765,333, 10-16-73, Cl. 102-24.0hc.
Reed, William G., to General Electric Company. Condensate drain subcooler for moisture separator and reheater. 3,744,459, 7-10-73, Cl. 122-483.000.
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Reehil, Edward G.; and Buddendeck, Gerald A., to Xerox Corporation. Electrostatic reproduction machine having selectable magnification ratios. 3,778,147, 12-11-73, Cl. 355-8.000.
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Rees, Alfred, to Lucas, Joseph, (Industries) Limited. Ignition distributor base plate having integral resilient securing means. 3,723,691, 3-27-73, Cl. 200-168.00r.
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Rees, Clive, to Girling Limited. Method of molding with flash removal by mold rotation. 3,737,502, 6-5-73, Cl. 264-161.000.
Rees, Clive, to Girling Limited. Coupling for moulded tubular components. 3,741,251, 6-26-73, Cl. 138-96.000.
Rees, Donald Frank; and Richardson, Michael Alexander, to Rees, William F., Limited. Tunnel boring equipment. 3,716,997, 2-20-73, Cl. 61-85.000.
Rees, Herbert: *See—*
Van Melle, Hugh; and Rees, Herbert, 3,741,366.
Van Melle, Hugh; and Rees, Herbert, 3,764,025.
Rees, Herbert, to Husky Manufacturing & Tool Works Limited. Injection-molding machine with transverse feed. 3,723,040, 3-27-73, Cl. 425-245.000.
Rees, Herbert, to Husky Manufacturing & Tool Works Limited. Ejector mechanism for molded articles. 3,726,625, 4-10-73, Cl. 425-247.000.
Rees, Herbert, to Husky Manufacturing & Tool Works Limited. Transporter for molded parts and the like. 3,729,103, 4-24-73, Cl. 214-1.0bc.
Rees, Herbert, to Husky Manufacturing & Tool Works Limited. Injection mold with unloading mechanism. 3,767,352, 10-23-73, Cl. 425-441.000.
Rees, Huw David: *See—*
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Rees, James D., to Xerox Corporation. Illumination system. 3,777,135, 12-4-73, Cl. 240-41.35r.
Rees, James G., to Chicago Pneumatic Tool Company. Apparatus for testing air brake control valves. 3,727,453, 4-17-73, Cl. 73-39.000.
Rees, John Michael: *See—*
Coxon, George Eric; and Rees, John Michael, 3,738,729.
Johnston, Robert Bernard; and Rees. John Michael, 3,712,701.
Rees, John Robert, to Girling Limited. Disc brake actuator, and resilient retaining means. 3,717,226, 2-20-73, Cl. 188-71.400.
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Reese, Albert W. Wedge-cutting machine including template and hold-down. 3,731,721, 5-8-73, Cl. 144-253.00e.
Reese, Cecil E.: *See—*
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Reese, Dale C. Wall or floor safe. 3,747,541, 7-24-73, Cl. 109-50.000.
Reese, Donald H.: *See—*
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Reese, James A.: *See—*
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Reese, James D. Portable lamp. 3,721,516, 3-20-73, Cl. 731-202.000.
Reese, James D. Lighting system. 3,723,045, 3-27-73, Cl. 431-18.000.
Reese, Johannes; and Hotze, Hermann, to Chemische Werke Albert. Synthetic resins. 3,723,572, 3-27-73, Cl. 260-860.000.
Reese, John B. Marine propeller lock. 3,759,076, 9-18-73, Cl. 70-232.000.
Reese, Mary Catholeene: *See—*
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Reese, Paul T., to Tecumseh Products Company. Automatic choke system. 3,749,069, 7-31-73, Cl. 123-108.000.
Reese Products, Inc.: *See—*
Reese, Robert P., 3,768,837.
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Reese, Randall Douglas, to Bell Telephone Laboratories, Incorporated. Key telephone system wideband conferencing arrangement. 3,718,770, 2-27-73, Cl. 179-18.0bc.
Reese, Robert L. Apparatus having automatic re-set means, for detecting a fault current. 3,735,248, 5-22-73, Cl. 324-51.000.
Reese, Robert P., to Reese Products, Inc. Tow bar constituting a part of a hitch assembly adapted for securement to a vehicle frame. 3,768,837, 10-30-73, Cl. 280-495.000.
Reese, Stanton L. Container for transporting radioactive material. 3,727,059, 4-10-73, Cl. 250-108.00r.
Reese, Terrell J., to Reese Products, Inc. Hydraulic stabilizing device. 3,722,920, 3-27-73, Cl. 280-446.00b.
Reese, William M., Sr., to Reese, Mary Catholeene. Differential pressure responsive device. 3,751,988, 8-14-73, Cl. 92-37.000.
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Reetz, Theodor; and Britain, J. W., to Baychem Corporation. Flame resistant polyurethane polymers. 3,719,639, 3-6-73, Cl. 260-75.0nq.
Reeve, Douglas W.: *See—*
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Rapson, William H.; and Reeve, Douglas W., 3,740,308.
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Reeve, John; and Sevcenco, Jura A., to Westinghouse Canada Limited. Control apparatus for the prevention of premature firing of valves of a converter. 3,764,882, 10-9-73, Cl. 321-5.000.



Reeve, John, to Westinghouse Canada Limited. Voltage to time con-

Reeve, John, to Westinghouse Canada Limited. Voltage to time conversion apparatus for an electrical converter. 3,764,884, 10-9-73, Cl. 321-9.00a.
Reeve, John, to Westinghouse Canada Limited. Selection of a reference valve in a converter under special operating conditions. 3,766,464, 10-16-73, Cl. 321-5.000.
Reeve, John, to Westinghouse Canada Limited. Electrical apparatus to control the extinction angle of valves of a converter. 3,766,465, 10-16-73, Cl. 321-5.000.
Reeve, John Edwin, to Thorn Electrical Industries Limited. Drive mechanism. 3,710,639, 1-16-73, Cl. 74-393.000.
Reeve, Paul H.: *See—*
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Reeve, William Ernest, to Silent Channel Products Limited. Method for sealing grooves in concrete structures. 3,712,016, 1-23-73, Cl. 52-741.000.
Reeve, William Ernest, to Silent Channel Products Limited. Method for the sealing of roof or other structures. 3,724,155, 4-3-73, Cl. 52-741.000.
Reeves, Adam A.: *See—*
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Reeves, Allan C., to Foremost-McKesson, Inc. Beverage container with straw hole. 3,770,185, 11-6-73, Cl. 229-17.00g.
Reeves, Billy Joe; and Chancey, James L. Fish scaler device. 3,751,765, 8-14-73, Cl. 17-64.000.
Reeves, Hewett Maxwell, to Brown & Root, Inc. Electronic range measuring method and apparatus. 3,780,370, 12-18-73, Cl. 343-17.700.
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Reeves, John R.; Dow, Bruce R.; and Thompson, Francis T., to Westinghouse Electric Corporation. Limit switch with high hysteresis. 3,720,845, 3-13-73, Cl. 307-116.000.
Reeves, John R.; Bogel, George F.; and Thompson, Francis T., to Westinghouse Electric Corporation. Ground fault interrupter apparatus. 3,736,468, 5-29-73, Cl. 311-18.00d.
Reeves, Marvin O. Automotive tractor unit with tiltover type cab construction. 3,765,500, 10-16-73, Cl. 180-77.0tc.
Reeves, Richard A.: *See—*
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Reeves, Robert E., to Inland Container Corporation. Apparatus for forming containers. 3,729,887, 5-1-73, Cl. 53-194.000.
Reeves, Sam B. Nut harvesting machine. 3,744,225, 7-10-73, Cl. 56-328.00r.
Reeves, Willis D. Eyelid support for invalids. 3,710,788, 1-16-73, Cl. 128-76.500.
Reeves, Wilson A.: *See—*
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Reforzo, Jean Baptiste Marie, to Societe Nationale Industrielle Aerospatiale. Automatic servo system for electric cable marking machines. 3,711,757, 1-16-73, Cl. 313-600.000.
Refouvelet, Joseph-Paul-Marie; and Francois, Joseph Jean, to Etat Francais. High-speed commutation device for heavy power applications. 3,736,545, 5-29-73, Cl. 338-13.000.
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Reft, Allen B.; and Berk, William E., Jr. Anti-pollution ventilation system for spray-type coating chambers. 3,750,622, 8-7-73, Cl. 118-326.000.
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Regan, Bernard M., to Baxter Laboratories, Inc. Production of polyfluoropropanols. 3,714,271, 1-30-73, Cl. 260-633.000.
Regan, Bernard M., to Baxter Laboratories, Inc. Ether anesthetic agent. 3,769,428, 10-30-73, Cl. 424-342.000.
Regan, Bernard M., to Baxter Laboratories, Inc. Difluoromethyl 1,2,2,3,3-tetrafluoropropyl ether. 3,773,840, 11-20-73, Cl. 260-614.00f.
Regan, Bernard M., to Baxter Laboratories, Inc. 1-Chloro-2,2,3,3-tetrafluoropropyl difluoromethyl ether. 3,773,841, 11-20-73, Cl. 260-614.00f.
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Regan, James L. Method and apparatus for creating hand-chiseled effect. 3,729,535, 4-24-73, Cl. 264-84.000.
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Regan, John F.; and Hedin, Robert A., to Eaton Corporation. Single cable signaling system. 3,757,301, 9-4-73, Cl. 340-147.01p.
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Regel, Erik; Eue, Ludwig; and Buchel, Karl Heinz, to Farbenfabriken Bayer Aktiengesellschaft. Process for the preparation of imidazoiso-quinolinedione compounds. 3,732,232, 5-8-73, Cl. 260-288.00r.
Regel, Erik; Buchel, Karl Heinz; Schmidt, Robert R.; and Eue, Ludwig, to Bayer Aktiengesellschaft. Bistriazolyl-bisphenyl-methanes and their salts. 3,755,345, 8-28-73, Cl. 260-308.00r.
Regel, Erik; and Buchel, Karl-Heinz, to Bayer Aktiengesellschaft. Process for the production of 2-acylimidazoles. 3,772,315, 11-13-73, Cl. 260-296.00r.
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Regelson, William, to Hercules Incorporated. Antiviral treatment. 3,749,771, 7-31-73, Cl. 424-78.000.
Regelson, William, to Hercules Incorporated. Preventing Herpes virus infections with copolymers of divinyl ether and maleic anhydride. 3,773,923, 11-20-73, Cl. 424-78.000.
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Regipa, Robert, to Centre National d'Etudes Spatiales. Positioning device for the edge of flexible films. 3,779,443, 12-18-73, Cl. 226-199.000.
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Regneault, Marcel; and Le Creurer, Maurice, to Automobiles Peugeot. Injection devices for compression-ignited internal combustion engines. 3,759,239, 9-18-73, Cl. 123-326.000.
Regneault, Marcel; and Perez, Jean, to Automobiles Peugeot. Injection device. 3,777,977, 12-11-73, Cl. 239-96.000.
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Reiback, Earl M. Backlighted projection screen. 3,719,412, 3-6-73, Cl. 350-117.000.
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Reich, Arturo; and Huder, Guido. Fire-fighting auxiliary apparatus. 3,722,823, 3-27-73, Cl. 242-86.000.
Reich, Charles, to Minnesota Mining and Manufacturing Company. Polycarbodiimide prepolymers. 3,755,242, 8-28-73, Cl. 260-37.00n.
Reich, Donald A.; and Stevens, Henry C., to PPG Industries, Inc. Alpha, alpha-dihalo-beta-lactones. 3,719,689, 3-6-73, Cl. 260-343.900.
Reich, Hanan; and Wolf, Seymour, to Nabisco, Inc. Apparatus for aiding the flow of particulate materials through a hopper. 3,729,176, 4-24-73, Cl. 259-4.000.
Reich, Henry E.: *See—*
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Reich, Rudolf. Method and apparatus for threading yarn ends into the working needles of embroidery stitching and sewing machines. 3,763,804, 10-9-73, Cl. 112-225.000.
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Reich, Zygmund, to Instrument Systems Corporation. Control system having column timers at each end. 3,737,862, 6-5-73, Cl. 340-163.00r.
Reichard, George Willis, Jr., to Bell Telephone Laboratories, Incorporated. Combination microphone and control stand for loud-speaking telephone set. 3,751,600, 8-7-73, Cl. 179-100.001.
Reichard, Harry S., to Princeton Applied Research Corporation. Active electrical filter. 3,715,678, 2-6-73, Cl. 330-86.000.
Reichard, Thomas E., to Monsanto Company. Electroptical system and method for sensing and controlling the diameter and melt level of pulled crystals. 3,740,563, 6-19-73, Cl. 250-222.00r.
Reichard, Thomas E.; and Bever, Thomas L., to Monsanto Company. Process and apparatus for centering unground semiconductor rods. 3,749,499, 7-31-73, Cl. 356-150.000.
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Reiche, Alfons, to Gessner, Peter. Process and apparatus for assisting in starting internal combustion engines. 3,777,728, 12-11-73, Cl. 123-122.00d.
Reiche, Carl-Heinz: *See—*
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Reiche, Hans Joachim, to Fromme, Poerderanlagen GmbH. Tow truck system. 3,771,464, 11-13-73, Cl. 104-172.0bt.
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Reichenbacher, Frank W.; Kraver, Theodore C.; and Hope, Edward F., to Burn Treatment Skin Bank, Inc. Process for producing split-thickness animal skin for protecting flayed human tissue. 3,777,599, 12-11-73, Cl. 83-39.000.
Reicheneder, Franz; Dury, Karl; deceased (by Dury, Johanna Maria; heiress-at-law); Krusche, Georg; and Burger, Heinz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Brominating butyne-(2)-diol-(1,4). 3,746,726, 7-17-73, Cl. 260-347.800.
Reichert, August. Apparatus for extracting and feeding tubes to a machine for filling the tubes with a suitable material. 3,747,786, 7-24-73, Cl. 214-309.000.
Reichert, August. Method and apparatus for injecting by positive action collapsible carton tubes into holders of a tube filling machine. 3,760,930, 9-25-73, Cl. 198-25.000.
Reichert, C., Optische Werke, A.G.: *See—*
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Reichert, Donald G., to ABC Packaging Machine Corporation. Box forming machine. 3,763,750, 10-9-73, Cl. 93-53.0bf.
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Reichert, Ernst, to Stump Bohr AG. Anchor tie construction and method of setting an anchor tie in the ground. 3,717,966, 2-27-73, Cl. 52-127.000.
Reichert, Gilbert A.; and Moehrle, Earl R., to Allen-Bradley Company. Selector switch with particular operator means, and detents which are restrained from rotation. 3,781,499, 12-25-73, Cl. 200-166.0sd.
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Reichmann, Horst; and Rottmann, Gernot, to Vaillant, Joh., KG. Fin heat exchanger. 3,726,258, 4-10-73, Cl. 122-250.00r.
Reichmann, Horst, to Vaillant, Joh., KG. Oil-heated once-through heater with apparatus for pre-heating the mixing chamber. 3,738,352, 6-12-73, Cl. 126-351.000.
Reichmann, Horst, to Vaillant, Joh., KG. Oil gasification burner. 3,756,764, 9-4-73, Cl. 431-37.000.
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Reick, Kenneth R.; and Wolff, David F., to Sunbeam Business Equipment Co. Hand-fed electrophotographic copier. 3,741,642, 6-26-73, Cl. 355-8.000.
Reick, Otto, Jr. Gripping device. 3,752,524, 8-14-73, Cl. 294-25.000.
Reid, Alexander Mailer; Harper, David William; and Forber, Albert, to Pilkington Brothers Limited. Method of producing elongate, clad glass member. 3,726,656, 4-10-73, Cl. 65-3.000.



Reid, Alfred E. Gripping tool with rotatable head. 3,761,121, 9-25-73, Cl. 294-26.000.
Reid, Carroll Glen; Hicks, Darrell D.; and Green, Charles David, to Celanese Coatings Company. Process of preparing nonaqueous dispersions of thermosetting copolymers. 3,745,137, 7-10-73, Cl. 260-33.6ua.
Reid, Charles J.: *See—*
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Reid, Edward A., Jr.; and Venendaal, Robert G., to Columbia Gas System Service Corporation. Fluid heater. 3,734,065, 5-22-73, Cl. 122-250.00r.
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Reid, James Angus Wilson, to Imperial Chemical Industries Limited. Antimony compound catalyzed ethylene glycol polyesterification with added second diol. 3,714,126, 1-30-73, Cl. 260-75.00r.
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Reid, John Edgar, Jr.; and Muehleman, Russell N., said Muehleman assor. to said Reid, John Edgar, Jr. Automated rhythm teaching machine. 3,774,494, 11-27-73, Cl. 84-470.000.
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Reid, Robert J. C.; and Crate, Graham F., to Trans-Canada Pipe Lines Limited. Control system for compressors operating in parallel. 3,732,034, 5-8-73, Cl. 417-6.000.
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Reid, Samuel J.; Mullett, Edward J.; and Hogan, John B., to Barnes & Jones, Inc. Steam trap. 3,725,989, 4-10-73, Cl. 29-157.10r.
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Reifers, Richard F.; and Bixler, Kenneth D., to Diamond International Corporation. High strength open bottom packaging tray. 3,756,492, 9-4-73, Cl. 229-2.500.
Reifers, Richard F.; and Bixler, Kenneth D., to Diamond International Corporation. Food packaging tray. 3,761,011, 9-25-73, Cl. 229-2.500.
Reifers, Richard F.; and Bixler, Kenneth D., to Diamond International Corporation. High strength open bottom packaging tray. 3,764,057, 10-9-73, Cl. 229-2.500.
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Reiffel, Leonard, to Telestrator Industries, Inc. Audio-visual teaching system and student response apparatus. 3,718,759, 2-27-73, Cl. 178-6.800.
Reiffel, Leonard, to Instructional Dynamics, Inc. Method and apparatus for producing animated motion pictures. 3,731,995, 5-8-73, Cl. 352-87.000.
Reifschneider, Walter, to Dow Chemical Company, The. (((Alkylthio)alkyl)thio)phenyl carbamates. 3,726,910, 4-10-73, Cl. 260-471.00c.
Reifschneider, Walter, to Dow Chemical Company, The. Thiazolium compounds. 3,751,424, 8-7-73, Cl. 260-302.00r.
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Reil, Wilhelm, to Sobrefina S.A. Packing machine. 3,738,080, 6-12-73, Cl. 53-180.000.
Reiland, Bernard F. Apparatus for making a drill screw with an extruded point. 3,754,292, 8-28-73, Cl. 10-9.000.
Reiland, Bernard F., to Textron, Inc. Threaded fastener device with torque control and driver therefore. 3,763,725, 10-9-73, Cl. 81-121.00r.
Reilhac, Andre; and Soetaert, Guy, to Regie Nationale des Usines Renault and Automobiles Peugeot. Lock with a staple-type bolt. 3,743,335, 7-3-73, Cl. 292-127.000.
Reilly, Bertram B. Gas scrubber. 3,765,659, 10-16-73, Cl. 261-109.000.
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Reilly, James J., Jr.; and Wiswall, Richard H., Jr., to United States of America, Atomic Energy Commission. Enriching with heavy hydrogen isotopes. 3,711,601, 1-16-73, Cl. 423-648.000.
Reilly, James P., to Avco Corporation. Electrically excited flowing gas laser and method of operation. 3,721,915, 3-20-73, Cl. 331-94.500.
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Reimann, Gerhard; and Weichmann, Otto Friedrich, to Rheinstahl Aktiengesellschaft. Method and apparatus for burning gypsum. 3,773,892, 11-20-73, Cl. 423-171.000.
Reimann, William George. Flatpack lead positioning device. 3,778,530, 12-11-73, Cl. 174-68.500.
Reime, Theodor; Schnell, Gunter; Dinkelbach, Anton; and Wippermann, Friedrich, to Gebr. Eickhoff, Maschinenfabrik und Eisengiesserei m.b.H. Web edge control for strip processing lines. 3,753,381, 8-21-73, Cl. 83-364.000.
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Reimer, Robert M., to General Electric Company. Engine inlet distortion testing apparatus. 3,759,091, 9-18-73, Cl. 73-116.000.
Reimer, William A.: *See—*
Bennett, Joseph C.; and Reimer, William A., 3,713,110.
Bennett, Joseph C.; Reimer, William A.; and Winters, Hilary M., 3,742,574.
Krylow, Konstanty E.; and Reimer, William A., 3,730,264.
Reimer, William A., to GTE Automatic Electric Laboratories, Incorporated. Printed wiring card guide shelf and method for manufacture thereof. 3,731,157, 5-1-73, Cl. 317-101.0dh.
Reimer, William A., to GTE Automatic Electric Laboratories, Incorporated. Flexible printed wiring switch. 3,745,288, 7-10-73, Cl. 200-166.0pc.
Reimer, William A., to GTE Automatic Electric Laboratories Incorporated. Printed wiring cable termination. 3,748,628, 7-24-73, Cl. 339-17.00f.
Reimer, William A., to GTE Automatic Electric Laboratories, Incorporated. Connectorless plug-in printed wiring card. 3,774,140, 11-20-73, Cl. 339-17.00c.
Reimer, William A., to GTE Automatic Electric Laboratories, Incorporated. Fastening device. 3,780,401, 12-25-73, Cl. 24-16.0pb.
Reimer, William A., to GTE Automatic Electric Laboratories, Incorporated. Air directing heat sink mounting of electrical components. 3,780,798, 12-25-73, Cl. 165-128.000.
Reimers, George W.: *See—*
Khalafalla, Sanaa E.; and Reimers, George W., 3,764,540.
Reimers Getriebe A.G.: *See—*
Steuer, Herbert, 3,722,308.
Reimers, James L.; and Mughannam, Adil A., to FMC Corporation. Multiple pitch processing conveyor. 3,709,352, 1-9-73, Cl. 198-131.000.
Reimers, James L., to FMC Corporation. Universal carrier chain for cookers. 3,724,644, 4-3-73, Cl. 198-131.000.
Reimers, James L. Repetitive heat treatment at speeds higher than feeding. 3,762,934, 10-2-73, Cl. 99-182.000.
Reimers, James L., to FMC Corporation. Gated carrier for hydrostatic cooker. 3,770,104, 11-6-73, Cl. 198-131.000.
Reimers, James L., to FMC Corporation. Container flattening apparatus. 3,780,647, 12-25-73, Cl. 100-232.000.
Reimink, Ronald L.: *See—*
Boenke, Clyde A.; Reimink, Ronald L.; and Jackson, James A., 3,752,908.
Reimlinger, Hans K.; and Vandewalle, Jan Joseph Maurice, to Mallinckrodt Chemicals Works, mesne. s-Triazolo [5,1α] isoquinolines and derivatives. 3,758,480, 9-11-73, Cl. 260-288.00r.
Reimlinger, Hans K.; and Vandewalle, Jan Joseph Maurice, to Mallinckrodt Chemical Works, mesne. S-Triazolo (3,4-A) isoquinolines and derivatives thereof. 3,775,416, 11-27-73, Cl. 260-288.00r.
Reimschussel, George Paul: *See—*
Weeks, Thomas Joseph, Jr.; and Reimschussel, George Paul, 3,779,244.
Reinagel, Frederick G.; and Zumchak, Eugene M., to Venture Technology, Inc. Music synthesizer keyboard circuit. 3,733,955, 5-22-73, Cl. 84-1.010.
Reinartz, Hans-Dieter, to ITT Industries, Inc. Adjusting device for brake linings of friction brakes. 3,737,011, 6-5-73, Cl. 188-196.0ba.
Reinauer, Thomas V. Method of filtering. 3,716,971, 2-20-73, Cl. 55-96.000.
Reinberg, Alan R., to Texas Instruments, Incorporated. Radial flow reactor. 3,757,733, 9-11-73, Cl. 118-49.500.
Reinberger, William C., to TRW Inc. Method of reinforcing piston ring grooves. 3,715,790, 2-13-73, Cl. 29-156.50r.
Reinburg, Alexandr Nironovich: *See—*
Sudnishnikov, Boris Vasilievich; Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Tupitsyn, Konstantin Konstantinovich; Klimashko, Vladimir Vasilievich; Solomko, Viktor Eliseevich; Reinburg, Alexandr Nironovich; and Yampolsky, Moisei Lvovich 3,756,328.
Reinebach, Lawrence R.: *See—*
Lech, Richard J.; and Reinebach, Lawrence R., 3,712,758.
Reinecke, Erich, to Westinghouse Bremsen- und Apparatebau G.m.b.H. Automatic slack adjusting device for a brake lever. 3,724,607, 4-3-73, Cl. 188-79.50k.
Reinecke, Erich; Isernhagen, Fritz; Klatt, Alfred; and Holthusen, Erwin, to Westinghouse Bremsen- und Apparatebau GmbH. Antiskid device for car wheels especially for road vehicles. 3,773,366, 11-20-73, Cl. 303-21.00f.
Reinecke, Gerd-Konrad: *See—*
Salamon, Manfred; Hagebaum, Hans-Jurgen; Wandel, Martin; Muhlhausen, Cornelius; Bau, Werner; and Reinecke, Gerd-Konrad, 3,759,742.
Reinecke, Gunter, to Benz & Hilgers GmbH. Apparatus for wrapping up of disc-shaped food and table luxuries, as cheese discs, chocolate bars or the like. 3,715,859, 2-13-73, Cl. 53-209.000.
Reinecke, Marvin E., to Phillips Petroleum Company. Chromatographic apparatus for analyzing a rich oil sample. 3,720,092, 3-13-73, Cl. 73-23.100.
Reinefeld, Erich: *See—*
Schneider, Ferdinand; Reinefeld, Erich; and Dietzel, Walter, 3,746,576.
Reineke, Charles E.: *See—*
Gibbons, Carl L.; and Reineke, Charles E., 3,732,342.
Reineke, Charles E., to Dow Chemical Company, The. Fire retardant polyester plasticizers. 3,773,825, 11-20-73, Cl. 260-485.00g.
Reineke, Ezra Paul: *See—*
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Reiner, Alberto, to Laboratori Biochimici Fargal-Pharmasint S. p. A. 2-Carboxy-1-benzalimino-1,5-dimethyl-2-phenyl-3-pyrazolone, organic and inorganic derivatives thereof and process for producing the same. 3,745,159, 7-10-73, Cl. 260-240.00g.
Reiner, Joef Rudolf; and Schramm, Gunther Paul Theodore, to Wernicke & Co., K.G., Firma. Devices for centering spectacle lenses. 3,737,238, 6-5-73, Cl. 356-172.000.
Reiner, Kenneth. Fastening devices. 3,751,769, 8-14-73, Cl. 24-73.0es.
Reiner, Lawrence L. Tethered ball tic tac toe. 3,770,273, 11-6-73, Cl. 273-101.000.
Reiner, Norbert L., to Coleco Industries, Inc. Filtration system for liquids. 3,767,050, 10-23-73, Cl. 210-169.000.
Reiner, Robert Leopold, to Cleveland Machine Controls Inc., mesne. Self-tuned vibratory feeder. 3,748,553, 7-24-73, Cl. 318-128.000.
Reiner, Roland: *See—*
Rey-Bellet, Gerald; Schwartz, Daniel Ernest; and Reiner, Roland, 3,715,357.
Reinermann, Karl-Heinz: *See—*
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Reiners, Walter: *See—*
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Reinert, Charles P.; and Tutt, Samuel F., to Winona Research, Inc. Biological product and process for treating and restoring honeycombs infected with bacillus larvae (American Foulbrood disease). 3,775,786, 12-4-73, Cl. 6-12.00r.
Reinert, Gerald H. Slave system for a pair of hydraulic cylinders. 3,778,193, 12-11-73, Cl. 417-342.000.
Reinert, Guenther: *See—*
Balbach, Guenter; and Reinert, Guenther, 3,748,296.
Reinertsen, Tormod K., to Ideal Toy Corporation. Game including balancing platform. 3,764,134, 10-9-73, Cl. 273-1.00r.
Reinfeld, Kurt; and Gauye, Emmanuel V., to Koppers Company, Inc. Apparatus for bending continuous cast slabs. 3,730,256, 5-1-73, Cl. 164-282.000.
Reingen, Werner, 1/3 to Suddeutsche Kalkstickstoff-Werke AG and 2/3 to Borgordts, H & E. Plaster mold compositions. 3,748,290, 7-24-73, Cl. 260-2.50f.
Reinhall, Rolf Bertil. Grinding apparatus for fibrous material. 3,717,308, 2-20-73, Cl. 241-244.000.
Reinhall, Rolf Bertil. Apparatus for dividing up a mass of small particles into part streams. 3,747,622, 7-24-73, Cl. 137-262.000.
Reinhall, Rolf Bertil. Grinding apparatus especially for lignocellulose containing material. 3,754,714, 8-28-73, Cl. 241-34.000.
Reinhall, Rolf Bertil. Revolver feeder for cellulosic materials. 3,758,379, 9-11-73, Cl. 162-246.000.
Reinhall, Rolf Bertil. Disc type press. 3,774,528, 11-27-73, Cl. 100-121.000.
Reinhard, Clyde J. Input bias and signal conditioning circuit for differential amplifiers. 3,754,193, 8-21-73, Cl. 330-30.00r.
Reinhard, Hans; Mueller, Alfred; and Dotzauer, Bernhard, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Pressure-sensitive adhesive coated articles having a polyacrylate adhesive coating. 3,725,122, 4-3-73, Cl. 117-122.00p.
Reinhard, Paul. Ski training apparatus. 3,711,089, 1-16-73, Cl. 272-57.00b.
Reinhard, Paul, to Teppichfabrik Melchnau AG. Method and apparatus for fabricating pile goods. 3,721,372, 3-20-73, Cl. 223-30.000.
Reinhard, Richard N.: *See—*
Lubsen, Timothy A.; Strobel, Rudolf G.; Reinhard, Richard N.; and Patel, Janyantilal M., 3,769,032.
Reinhard, Ruedi. Process for the manufacture of a carpet with pile that is vertically lined up in rows and with ribbon-shaped interlayers which run through part of the height of the pile and are attached to the rows of pile. 3,781,181, 12-25-73, Cl. 156-72000.
Reinhard, Russell R.; and Blackley, William D., to Texaco Inc. Purifying bis (perfluoroalkyl) nitroxide. 3,718,695, 2-27-73, Cl. 260-583.00d.
Reinhards, Gunter: *See—*
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Stosberg, Herbert; Reinhards, Gunter; Engels, Siegfried; and Sauer, Hans-Jurgen, 3,772,733.
Reinhardt, Alberta C. Restraining device. 3,742,945, 7-3-73, Cl. 128-134.000.
Reinhardt, Dieter: *See—*
Haass, Guenther; and Reinhardt, Dieter, 3,716,799.
Reinhardt, Helmut; Brandt, Bernd; and Peters, Albert, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Apparatus for processing of finely divided particulate materials. 3,738,785, 6-12-73, Cl. 425-85.000.
Reinhardt, Helmut; Brandt, Bernd; and Peters, Albert, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Processing of finely divided particulate materials. 3,742,566, 7-3-73, Cl. 29-132.000.
Reinhardt, Helmut; Brandt, Bernd; and Peters, Albert, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Processing of finely divided particulate materials. 3,762,851, 10-2-73, Cl. 425-223.000.
Reinhardt, Helmut; and Trebiner, Karl, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of calcium hexacyanoferrate (II). 3,764,659, 10-9-73, Cl. 423-367.000.
Reinhardt, Robert L. Earth moving apparatuses and process. 3,738,028, 6-12-73, Cl. 37-4.000.
Reinhardt, Robert M.: *See—*
Kullman, Russel M.; and Reinhardt, Robert M., 3,775,050.
Kullman, Russell M. H.; Frick, John G., Jr.; and Reinhardt, Robert M., 3,755,418.
Kullman, Russell M. H.; and Reinhardt, Robert M., 3,768,969.
Reinhardt, Robert M.; and Kullman, Russell M. H., to United States of America, Agriculture. Removal of free formaldehyde from solutions of methylolated carbamate finishing agents and textiles treated therewith. 3,723,058, 3-27-73, Cl. 8-116.300.
Reinhart, Donald R.; and Fritts, Russell A., to Conchemco, Incorporated, mesne. Metallic paint. 3,708,318, 1-2-73, Cl. 106-193.00m.
Reinhart, Franz Karl, to Bell Telephone Laboratories, Incorporated. Optical modulators. 3,748,597, 7-24-73, Cl. 332-7.510.
Reinhart, Joan; Stump, Warren E.; and Davidson, Julian S., to United States of America, Navy. Nitrasol propellant. 3,767,489, 10-23-73, Cl. 149-18.000.
Reinhart, Norman E.; and Mullender, Claude, to Goodrich, B. F., Company, The. Belt covering apparatus. 3,775,221, 11-27-73, Cl. 156-460.000.
Reinhart, Richard D.; and Straughn, Robert O., to General Mills, Inc. Process for extruding tubular, corrugated products. 3,778,520, 12-11-73, Cl. 426-446.000.
Reinhart, Walter L., to Atlas Chemical Industries, Inc. Gelatin explosive containing hollow resinous plastic spheres. 3,728,174, 4-17-73, Cl. 149-21.000.
Reinheimer, Gunter, to Leitz, Ernst, G.m.b.H. Arrangement for automatically focussing an optical instrument. 3,721,827, 3-20-73, Cl. 250-201.000.
Reinhold, Donald F.: *See—*
Sletzinger, Meyer; Reinhold, Donald F.; and Harmetz, Ronald, 3,766,259.
Reinhold, Donald F.; Sletzinger, Meyer; and Chemerda, John M., to Merck & Co., Inc. Resolution of DLα-lower alkanoylamino-α-(benzyl) propionitriles. 3,721,697, 3-20-73, Cl. 260-465.00d.
Reinhold, Donald F.; Sletzinger, Meyer; and Chemerda, John M., to Merck & Co., Inc. Resolution of DL-α-amino-α-vanillyl-propionitriles. 3,723,496, 3-27-73, Cl. 260-465.00e.
Reinhoudt, Jacobus Pieter, to U.S. Philips Corporation. Bearing. 3,724,918, 4-3-73, Cl. 308-109.000.
Reinicke, Hans: *See—*
Bircher, Johannes; Weidenhagen, Rudolf; Mainz, Uber; Reinicke, Hans; Leonhauser, Senta; and Bauer, Ingeborg, 3,772,433.
Reiniger, Friedrich; von Hacht, Reinhard; and Lemmrich, Jurgen, to U.S. Philips Corporation. Apparatus for taking section radiographs. 3,714,427, 1-30-73, Cl. 250-61.500.
Reininghaus & Co., Firma: *See—*
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Seelbach, Heinz, 3,781,754.
Reinis, Gedeminas J.: *See—*
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Reinisch, Frederick Frank. Snap-on one pair block and drames therefor. 3,728,668, 4-17-73, Cl. 339-198.00g.
Reinische Braunkohlenwerke A.G.: *See—*
Wenzel, Werner; Franke, Friedrich H.; and Meraikib, Mohammed, 3,751,214.
Wenzel, Werner; and Schenck, Hermann, 3,761,233.
Reinjnierse, Pieter: *See—*
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Reinke, Friedhelm, to AEG-Elotherm G.m.b.H. Medium frequency transformer. 3,728,655, 4-17-73, Cl. 336-62.000.
Reinke, Friedhelm; and Stengel, Edgar, to AEG-Elotherm GmbH. Apparatus for gripping and holding elongated workpieces particularly in induction hardening machines. 3,738,636, 6-12-73, Cl. 269-49.000.





Reinke, Friedhelm, to AEG-Elotherm G.m.b.H. Apparatus for induc- Reisenfeld, Sam: *See—*

Reinke, Friedhelm, to AEG-Elotherm G.m.b.H. Apparatus for inductively surface-hardening workpieces of at least approximately axially symmetrical shape. 3,739,131, 6-12-73, Cl. 219-10.790.
Reinke, Fritz. Method of making bubble-free, fiber reinforced plastic laminates by tamping operations. 3,746,589, 7-17-73, Cl. 156-73.000.
Reinke, George W., to Screen Printing Systems, Inc. Method of making a metal printing screen. 3,759,799, 9-18-73, Cl. 204-16.000.
Reinke, George W., to Screen Printing Systems, Inc. Seamless rotary printing screen and method of making same. 3,759,800, 9-18-73, Cl. 24-16.000.
Reinke, Richard F. Electrically driven circular irrigation system. 3,750,953, 8-7-73, Cl. 239-177.000.
Reinnagel, Richard E., to Cornell Aeronautical Laboratory, Inc. Droplet sizing and detecting apparatus and method using a magnetic recording. 3,714,564, 1-30-73, Cl. 324-71.0cp.
Reinsburg, Alexandr Mironovich: *See—*
Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Tkach, Khaim Berkovich; Nazarov, Nikolai Grigorievich; Malbert, Petr Eduardovich; Lavron, Nikolai Sergeevich; Alkasarov, Jury Innokentievich; Legeche, Nikolai Leontievich; Golbinshtein, Alexanr Isovich; Reinsburg, Alexandr Mironovich; Burshtein, Mikhail Vladimirovich; Mikushin, Dmitry Pavlovich; Terskov, Alexei Danilovich; and Belov, Leonid Stepanovich, 3,730,283.
Sudnishnikov, Boris Vasilievich; Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Tupitsyn, Konstantin Konstantinovich; Plavskikh, Vladimir Dmitrievich; Solomko, Viktor Eliseevich; and Reinsburg, Alexandr Mironovich, 3,727,701.
Reinsch, Edward: *See—*
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Reinsch, Herbert; and Korner, Peter, to Bosch, Robert, Photokino GmbH. Motion picture projector. 3,720,461, 3-13-73, Cl. 352-224.000.
Reinsch, Herbert; Kuhne, Gottfried; and Schirmer, Wolf, to Bosch, Robert, Photokino GmbH. Motion picture camera with adjustable shutter means. 3,753,613, 8-21-73, Cl. 352-121.000.
Reinsch, Herbert, to Bosch, Robert, Photokino G.m.b.H. Motion picture camera with means for making "time" exposures. 3,767,298, 10-23-73, Cl. 352-169.000.
Reinz Dichtungs-Gesellschaft: *See—*
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Reis, C. Dale: *See—*
Heeren, Vernon L.; Howell, James M.; and Reis, C. Dale, 3,775,769.
Reis, Katharina Maria. Coin sorting and counting machines. 3,771,538, 11-13-73, Cl. 133-3.00d.
Reis, Robert D., to United Electric Controls Company. Control instrument. 3,736,808, 6-5-73, Cl. 74-469.000.
Reis, Robert D., to United Electric Controls Company. Control instrument for two or more switches. 3,760,138, 9-18-73, Cl. 200-835.00a.
Reis, Walter: *See—*
Reis, Walter; Pfenning, Helmut; and Boll, Dietmar (said Pfenning, said Boll, assor to said), 3,779,067.
Reis, Walter; Pfenning, Helmut; and Boll, Dietmar, said Pfenning, said Boll, assor to said Reis, Walter. Device for finishing complementary parts and testing the same. 3,779,067, 12-18-73, Cl. 73-37.000.
Reisacher, Josef, to Daimler-Benz Aktiengesellschaft. Cooling water conduit system in internal combustion engines. 3,709,200, 1-9-73, Cl. 123-41.820.
Reisacher, Josef; Klaue, Hans Joachim; Jacoby, Ewald; and Bergmeier, Dieter, to Aktiengesellschaft Kuhnle, Kopp & Kausch. Exhaust-gas driven turbochargers. 3,734,650, 5-22-73, Cl. 417-407.000.
Reisacher, Josef; Noltemeyer, Friedrich; and Schmid, Albrecht, to Daimler-Benz Aktiengesellschaft. Reciprocating piston internal combustion engine. 3,744,469, 7-10-73, Cl. 123-195.00r.
Reisch, Franz S., to Honeywell Inc. Illuminated indicator for high and low ambient light environments. 3,731,077, 5-1-73, Cl. 240-1.0el.
Reisch, John C., to Esso Research and Engineering Company. Method of forming complex cobalt carbonyl compounds. 3,725,534, 4-3-73, Cl. 423-417.000.
Reisch, Kenneth E. Calender roll cover. 3,753,276, 8-21-73, Cl. 29-129.500.
Reischl, Artur: *See—*
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Reischl, Artur; and Dieterich, Dieter, to Farbenfabriken Bayer Aktiengesellschaft. Coarsely dispersed, sedimenting aqueous polyurethane dispersions. 3,714,095, 1-30-73, Cl. 260-29.2tn.
Reischl, Artur; Dieterich, Dieter; and Witt, Harro, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of microporous polyurethane (urea) sheet structures permeable to water vapor. 3,763,054, 10-2-73, Cl. 260-2.5ay.
Reisen, Dorothy Ann Carrier. Laminated helmet. 3,725,956, 4-10-73, Cl. 2-200.000.
Reisenfeld, Sam: *See—*
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Reiser, Alfred A. Unbalance detector. 3,741,017, 6-26-73, Cl. 73-480.000.
Reiser, Hans Joachim, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Apparatus for uncoiling wire from a spool. 3,721,394, 3-20-73, Cl. 242-254.00r.
Reiser, Kurt: *See—*
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Reising, Flavian, Jr., to General Electric Company. Inverter-oscillator. 3,766,467, 10-16-73, Cl. 321-45.00r.
Reisinger, Andrew J. Pin ball game apparatus with supplemented manual. 3,746,341, 7-17-73, Cl. 273-121.00a.
Reisinger, James F. Keg lifting devices. 3,727,962, 4-17-73, Cl. 294-16.000.
Reisner, David B.; Ludwig, Bernard J.; Berger, Frank M.; and Sofia, Robert D., to Carter-Wallace, Inc. Methods of relieving pain. 3,773,953, 11-20-73, Cl. 424-251.000.
Reisner, David D.; Ludwig, Bernard J.; and Berger, Frank M., to Carter-Wallace, Inc. Compositions and methods for treating gout. 3,755,589, 8-28-73, Cl. 424-272.000.
Reisner, Sam, to Kar Products, Inc., mesne. Hand operated key cutter. 3,719,992, 3-13-73, Cl. 30-131.000.
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Reiss, Gerhard: *See—*
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Reiss, Leon G., to Robbins & Myers, Inc. Electric motor stator. 3,749,956, 7-31-73, Cl. 310-216.000.
Reiss, Lewis Philip; and Meyer, Frank L., to Shell Oil Company. Sulfur slurry preparation in pipelines. 3,745,121, 7-10-73, Cl. 252-309.000.
Reiss, Martin H.: *See—*
Cotter, William L., 3,732,369.
Reiss, Walter B., to Gulf Oil Canada Limited. Polymer encapsulation of finely divided solids. 3,714,102, 1-30-73, Cl. 260-29.60r.
Reisser, Vernon H. Vehicle wheel. 3,779,616, 12-18-73, Cl. 305-19.000.
Reist, Walter; and Meili, Heinz, to Ferag, Fehr & Reist AG. Apparatus for adjusting the speed of a transport band equipped with grippers to the speed of a conveyor band arranged ahead of such transport band. 3,719,267, 3-6-73, Cl. 198-76.000.
Reist, Walter, to Ferag, Fehr & Reist AG. Method and apparatus for turning flat structures, especially newspapers. 3,735,977, 5-29-73, Cl. 271-75.000.
Reist, Walter, to Ferag, Fehr & Reist AG. Book-like product and method for opening and stuffing same with an insert. 3,756,627, 9-4-73, Cl. 283-38.000.
Reist, Walter, to Ferag AG. Universal link chain. 3,757,514, 9-11-73, Cl. 59-78.000.
Reister, Richard A. Electronic celestial navigation means. 3,769,710, 11-6-73, Cl. 33-320.000.
Reitbergen, Wilhelmus Petrus Carolus, to U.S. Philips Corporation. Cassette recording apparatus. 3,754,696, 8-28-73, Cl. 226-179.000.
Reitblatt, Joseph, to Singer Company, The, mesne. Condensate collector pan heating. 3,774,406, 11-27-73, Cl. 62-155.000.
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Reiter, Eli; and Hickey, Herbert P., to I.D.L. Co., Inc. Personalized photograph type watch. 3,733,809, 5-22-73, Cl. 58-127.000.
Reiter, Eugene A.: *See—*
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Reiter, Gabriel. Amalgam trituration device. 3,752,065, 8-14-73, Cl. 100-123.000.
Reiter, John J. Clamp. 3,779,108, 12-18-73, Cl. 81-424.000.
Reiter, Joseph. Furniture construction. 3,744,868, 7-10-73, Cl. 312-263.000.
Reiter, William M.; and Reventas, Algirdas A., to Allied Chemical Corporation. Method for suspension polymerization of vinyl chloride. 3,757,001, 9-4-73, Cl. 260-92.80w.
Reiter, William M., to Universal PVC Resins Inc., mesne. Method for reducing polymer deposit in polymerization of vinyl chloride. 3,778,423, 12-11-73, Cl. 260-92.80w.
Reithmeier, Alton F.; and Fahey, Frank R., to Xerox Corporation. Data transmission system interruption monitor. 3,735,043, 5-22-73, Cl. 178-69.00g.
Reithmeyer, Randolph A., Jr., to United States of America, Army. Low-capacity, high impedance circuit. 3,720,879, 3-13-73, Cl. 330-26.000.
Reitknecht, Jack. Plastic fountain toothbrush. 3,728,035, 4-17-73, Cl. 401-175.000.
Reitler, Richard C. Downrigger release for deep water trolling. 3,765,118, 10-16-73, Cl. 43-43.120.



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Reitsma, Hantje, to U.S. Philips Corporation. Video contour determining circuit. 3,748,382, 7-24-73, Cl. 178-7.100.
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Reitter, George M., to Eastman Kodak Company. Receptacle for a roll, reel or cassette of photographic film. 3,776,483, 12-4-73, Cl. 242-71.001.
Reitter, Gunther; and Riegler, Ernst, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Tilting drive for converters. 3,736,807, 6-5-73, Cl. 74-410.000.
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Rennick, Lyle Vance, to Northrop Corporation. Synchronous vibrational analyzer for rotating machinery. 3,733,892, 5-22-73, Cl. 73-71.400.
Rennick, Robert C.; and Morse, William C., to Bell Telephone Laboratories, Incorporated and Western Electric Company, Incorporated. Method for automatically adjusting the frequency of monolithic crystal filters. 3,756,851, 9-4-73, Cl. 117-201.000.
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Renskers, John O.; Liebman, Charles S.; Salzman, Robert J.; and Schroeder, Charles E., to Coilcraft, Inc. Inductor with mounting means. 3,743,990, 7-3-73, Cl. 336-192.000.
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Rentschler, Waldemar T., to Frontier-Werk Alfred Gauthier GmbH. Photographic shutter with electronic timing circuit. 3,762,296, 10-2-73, Cl. 95-53.0eb.
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Reppel, Willi E., to Oliver Tire & Rubber Company. Apparatus for retreading tires. 3,779,831, 12-18-73, Cl. 156-394.000.
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Rexroad, James O., to Westinghouse Electric Corporation. Spaced-metallic-plate-type of arc-chute for a switch. 3,749,867, 7-31-73, Cl. 200-146.00r.
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Reynolds, George A.; Tuccio, Sam A.; Peterson, Otis G.; and Specht, Donald P., to Eastman Kodak Company. Visible spectrum dye lasers. 3,753,146, 8-14-73, Cl. 331-94.500.
Reynolds, George E.; Mattison, Donald J.; and Gedemer, Fred J., to Allis-Chalmers Manufacturing Company. Wrapping sheet dispenser for roll wrapping machine. 3,716,964, 2-20-73, Cl. 53-389.000.
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Reynolds, Jefferson W., to Eastman Kodak Company. Nitrile hydrogenation catalyst. 3,728,284, 4-17-73, Cl. 252-459.000.
Reynolds, Jerald James, to International Business Machines Corporation. Solder terminal rework technique. 3,751,799, 8-14-73, Cl. 29-574.000.
Reynolds, Joe D.; and Cannon, Kenneth V., to Federal Sign and Signal Corporation. Parallel alarm circuit having series supervision. 3,711,854, 1-16-73, Cl. 340-409.000.
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Reynolds, John M. Combination well bailer and swab. 3,739,847, 6-19-73, Cl. 166-107.000.
Reynolds, Leslie E., to Deering Milliken Research Corporation. Knitting machine stop motion. 3,738,124, 6-12-73, Cl. 66-163.000.
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Ricca, Peter M.; Stickney, William W.; and Turner, Robert W., to Boeing Company, The. Film evaporator panel. 3,738,410, 6-12-73, Cl. 159-13.00b.
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Rice, Hal H.; and Holzwarth, James C., to General Motors Corporation. Method of forming a thermally insulated composite article. 3,718,172, 2-27-73, Cl. 164-75.000.
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Rice, Harold B., to Burton, John, Machine Corporation. Case dumper. 3,729,108, 4-24-73, Cl. 214-304.000.
Rice, Harold B., to Burton, John, Machine Corporation. Method and apparatus for removing screw caps from containers. 3,775,829, 12-4-73, Cl. 29-426.000.
Rice, Henry T. M. Boat trailer. 3,720,967, 3-20-73, Cl. 9-1.00t.
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Rice, Joseph A., to Textron, Inc. Pneumatically actuated stapling plier. 3,734,378, 5-22-73, Cl. 227-124.000.
Rice, Lynn H., to Universal Oil Products Company. Process for the recovery of heat from hydrocarbons and the separation thereof. 3,723,301, 3-27-73, Cl. 208-213.000.
Rice, Paul Patrick. Pressure-to-electric transducer. 3,753,199, 8-14-73, Cl. 338-42.000.
Rice, Philip J., Jr., to American Express Investment Management Company. Electrostatic matrix head construction. 3,718,936, 2-27-73, Cl. 346-74.0es.
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Rich, Ernest Joseph, to Celanese Corporation. Spray-spun continuous tubular structure. 3,758,373, 9-11-73, Cl. 161-169.000.
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Rich, Frank D., Jr.; and McDonald, Alexander D., to Rich, F. D., Housing Corporation. Building. 3,750,366, 8-7-73, Cl. 52-79.000.
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Rich, Kenneth K., to Shell Oil Company. Catalization of diaminodiphenylsulfone core of polyepoxides with an imidazole compound or a salt thereof. 3,755,253, 8-28-73, Cl. 260-47.0en.
Rich, Leonard G.; and Blake, Dale G., to Gerber Scientific Instrument Company, The. Optical line follower. 3,711,717, 1-16-73, Cl. 250-202.000.
Rich, Leonard G., to Gerber Scientific Instrument Company, The. Step motor damping method and apparatus. 3,727,121, 4-10-73, Cl. 318-696.000.
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Richard, Jean Etienne Marie; and Richard, Louis Antoine Etienne Jean. Warp knitted fabric. 3,728,876, 4-24-73, Cl. 66-192.000.
Richard, Joseph D. Delayed release device. 3,724,120, 4-3-73, Cl. 43-100.000.
Richard, Joseph D. Apparatus for detecting aquatic animals. 3,757,286, 9-4-73, Cl. 340-3.00t.
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Richards, Albert G. Method and apparatus for variable depth laminagraphy. 3,742,236, 6-26-73, Cl. 250-321.000.
Richards, Albert Z., Jr., to Key Minerals Corporation. Precipitation of metal proteinates from brines by base-acid-base hydrolysis. 3,775,132, 11-27-73, Cl. 426-364.000.
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Richards, Brynley Thomas; and Battman, Bernard Desmond, to Metcalfe, C. B., Food Machinery, Ltd. Slicing machine. 3,771,404, 11-13-73, Cl. 83-713.000.
Richards, Daniel E. Combination house trailer and airplane hangar. 3,708,200, 1-2-73, Cl. 296-23.00r.
Richards, David O.; Beeson, Robert J.; and Kissell, Ronald E., to Owens-Corning Fiberglas Corporation. Tubular fibrous body and method and apparatus for forming same. 3,761,342, 9-25-73, Cl. 156-446.000.
Richards, Dennis Maunder, to English Clays Lovering Pochin & Company Limited. Method of preparing surfacing composition for roads airfield runway and the like. 3,776,748, 12-4-73, Cl. 106-280.000.
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Richards, George Gilman, Jr.; and Cherry, Alton Edgar, to AMP Incorporated. High voltage dual isolated output tracking power supply. 3,740,571, 6-19-73, Cl. 307-55.000.
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Richards, Reynald B.; O'Brien, William P.; and Cannon, Peter, said O'Brien and said Cannon assor. to said Richards, Reynald B. Building construction and method of manufacture. 3,730,796, 5-1-73, Cl. 156-173.000.
Richards, Robert E., to Richards, J. A., Co. Guide pin assembly for die plate. 3,748,941, 7-31-73, Cl. 83-637.000.
Richards, Ronald Francis John: *See—*
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Richards, Roy C.; Le Masters, Paul D.; and Shearer, James E., to General Motors Corporation. Internal combustion engine speed limit circuit. 3,762,383, 10-2-73, Cl. 123-102.000.
Richards, Sumner F., Jr.; and Biechler, Charles S. Shelter structure. 3,766,693, 10-23-73, Cl. 52-71.000.
Richards, Thomas E.: *See—*
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Richards, William E., to United States of America, Navy. Metal vapor laser tube. 3,777,282, 12-4-73, Cl. 331-94.500.
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Richardson, Albert S., Jr., to Interpace Corporation. Line post insulator with self-restoring hinge means. 3,719,770, 3-6-73, Cl. 174-161.00r.
Richardson, Barton Leigh: *See—*
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Richardson, Billy Joe, to Southwire Company. Method of pouring

Richardson, Billy Joe, to Southwire Company. Method of pouring molten metal. 3,746,072, 7-17-73, Cl. 164-87.000.
Richardson, Brian: *See—*
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Richardson, Byron L., to United Merchants and Manufacturers, Inc. Creaseproofing cellulose-based fabrics. 3,770,489, 11-6-73, Cl. 117-76.00t.
Richardson, Carl: *See—*
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Richardson, Daniel E. Apparatus for aseptically filling initially covered containers. 3,719,023, 3-6-73, Cl. 53-381.00a.
Richardson, Donald A.: *See—*
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Richardson, Donald C., to Warren Fastener Corporation. Damper assembly. 3,724,812, 4-3-73, Cl. 251-306.000.
Richardson, Earl L., to Union Carbide Corporation. Sunscreens preparations. 3,751,563, 8-7-73, Cl. 424-60.000.
Richardson, Edwin A.: *See—*
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Suman, George O., Jr.; Richardson, Edwin A.; and Scheuerman, Ronald F., 3,750,768.
Suman, George O., Jr.; Richardson, Edwin A.; and Scheuerman, Ronald F., 3,756,315.
Richardson, Edwin A.; and Scheuerman, Ronald F., to Shell Oil Company. Plugging solution precipitation time control. 3,730,272, 5-1-73, Cl. 166-294.000.
Richardson, Edwin A., to Shell Oil Company. Plugging solution precipitation time control by epoxide. 3,747,677, 7-24-73, Cl. 166-293.000.
Richardson, Edwin Allen: *See—*
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Richardson, Edwin Allen, to Shell Oil Company. Plugging solution precipitation time control by charge neutralization. 3,732,927, 5-15-73, Cl. 166-294.000.
Richardson, Elwin J., Jr., to Bristol-Myers Company. Process for the decolorization of 7-a-(4-pyridylthio)acetamido) cephalos-poranic acid. 3,714,157, 1-30-73, Cl. 260-243.00c.
Richardson, Frederick Denys: *See—*
Richardson, Frederick Denys; and Rogers, Philip Sydney, 3,730,698.
Richardson, Frederick Denys, 1/3 to Metallurgie Hoboken-Overpelt and 1/3 to RST International Metals Limited. Apparatus for measuring in a continuous manner the oxygen in a molten metal. 3,719,574, 3-6-73, Cl. 204-195.00s.
Richardson, Frederick Denys; and Rogers, Philip Sydney, to Metallurgie Hoboken-Overpelt, RST International Metals, Limited and Richardson, Frederick Denys. Sealing of joints in refractory devices with silicate coating. 3,730,698, 5-1-73, Cl. 65-43.000.
Richardson, Garland D.: *See—*
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Richardson, Gregory A.: *See—*
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Richardson, Harry L., to Chemical Construction Corporation. Removal of entrained matter from gas streams. 3,729,898, 5-1-73, Cl. 55-7.000.
Richardson, Hugh H., to General Electric Company. Method and apparatus for quantitatively evaluating integrity of winding insulation. 3,742,349, 6-26-73, Cl. 324-54.000.
Richardson Ink Co.: *See—*
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Richardson, Jack Y.; and Mellow, Dale F., to Brunswick Corporation. Pyrotechnic fuse. 3,712,222, 1-23-73, Cl. 102-27.00r.
Richardson, James E.: *See—*
Sherman, Lawrence M.; and Richardson, James E., 3,712,614.
Richardson, James Paul, to British Aircraft Corporation Limited. Aircraft having variable sweep-backwings. 3,764,093, 10-9-73, Cl. 244-46.000.
Richardson, Jerry Grant, to Celanese Corporation. Method for producing uniform drawn films. 3,761,553, 9-25-73, Cl. 264-40.000.
Richardson, Jerry J.: *See—*
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Richardson, John Bernard; and Sharpe, Anthony Keith, to Pye Limited. Multiple receiver selection system. 3,761,822, 9-25-73, Cl. 325-301.000.
Richardson, Michael Alexander: *See—*
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Richardson, Murl R., to Oil States Rubber Company. Swab cup cage. 3,724,338, 4-3-73, Cl. 92-241.000.
Richardson, Neal Allen: *See—*
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Richardson, Oliver F.; Easton, Robert S.; and Jack, Roger L., to Emerald Manufacturing Corporation. Heat tunnel apparatus. 3,756,769, 9-4-73, Cl. 432-142.000.
Richardson, Ralph A.: *See—*
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Richardson, Robert W.; and Keegan, James J., III, to Franklin Mint, Inc., The. Multi-step etching projection system. 3,726,732, 4-10-73, Cl. 156-11.000.
Richardson, Rolland A., to Pacific Press & Shear Corporation. Precision anti-whip ram type machine. 3,722,366, 3-27-73, Cl. 91-179.00r.
Richardson, Russell F.; and Richardson, Gregory A., to Richline Company Incorporated, The. Rivet gun. 3,760,627, 9-25-73, Cl. 72-391.000.
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Richardson, Wallace L., to Chevron Research Company. Nonionic surfactant as a demulsifier for amine containing fuel detergents. 3,752,657, 8-14-73, Cl. 44-72.000.
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Richardson, William D., to Tuthill Pump Company. Tube connector. 3,727,952, 4-17-73, Cl. 285-101.000.
Richardson, William Henry; Brown, Douglas; and Guha, Prodyot, to Langley Alloys, Limited. Copper nickel alloys. 3,769,005, 10-30-73, Cl. 75-159.000.
Richardson-Merrell, Inc.: *See—*
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Saarem, Myrl J.; and Merriner, Delbert L., 3,757,263.
Richelmann, Bernd H., to Republic Corporation. Test contactor head for circuit modules. 3,715,662, 2-6-73, Cl. 324-158.00f.
Richelmann, Bernd H., to Republic Corporation. Contactor for testing circuit modules with axial leads. 3,728,667, 4-17-73, Cl. 339-193.00p.
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Williams, Arthur; and Davenport, Donald Ray, 3,749,340.
Richens, Kenneth A.; Grover, Scott C.; Allred, James K.; and Shook, James H., to Eaton Yale & Towne, Inc. Drive means for a vehicle in a warehousing apparatus. 3,708,077, 1-2-73, Cl. 214-16.40a.
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Richert, Walter J., to AMF Incorporated. Flat pack reed relays. 3,711,798, 1-16-73, Cl. 335-153.000.
Richert, Wilbert K., to Burt, F. N., Company, Inc. Individual tablet dispensing package. 3,743,085, 7-3-73, Cl. 206-42.000.
Riches, Arthur John, to Bunker-Ramo Corporation, The. Electrical connectors. 3,716,815, 2-13-73, Cl. 339-44.00m.
Riches, George Henry Wiseman. Convertible sofa. 3,736,601, 6-5-73, Cl. 5-9.00r.
Richeson, Dale T. Conversion system for providing useful energy from water surface motion. 3,758,788, 9-11-73, Cl. 290-42.000.



Richeson, William E., Jr., to Magnavox Company, The. Level modulator for facsimile transmitter. 3,735,034, 5-22-73, Cl. 178-7.100.
Richeson, William E., Jr.; and Roach, Joel K., to Magnavox Company, The. Fax carrier detector. 3,772,456, 11-13-73, Cl. 178-88.000.
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Richman, Jay Lewis, to Pennwalt Corporation. Molten metal pouring device having pantograph tilting mechanism. 3,747,808, 7-24-73, Cl. 222-166.000.
Richman, John A., Jr.: *See—*
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Richman, Paul, to Standard Microsystems Corporation, mesne. MOS integrated circuit with substrate containing selectively formed resistivity regions. 3,751,722, 8-7-73, Cl. 317-235.00r.
Richman, Peter L. Electrical measuring systems using a quarter-square multiplier. 3,778,608, 12-11-73, Cl. 235-194.000.
Richmon, Sidney. Elevator control apparatus. 3,765,510, 10-16-73, Cl. 187-29.00r.
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Richmond, Thomas C.; and Bertsch, Peter K., to U.S. Philips Corporation. Cryogenic refrigerator. 3,736,761, 6-5-73, Cl. 62-6.000.
Richmond, Thomas C., to U.S. Philips Corporation. Bellows sealed shutoff valve. 3,741,520, 6-26-73, Cl. 251-144.000.
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Richter, Alfred G., Jr., to Lockheed Aircraft Corporation. Accessory for a right angle drill tool. 3,776,319, 12-4-73, Cl. 173-36.000.
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Richter, Eike; and Brissey, George E., to General Electric Company. High speed homopolar inductor generator with straight winding construction. 3,737,696, 6-5-73, Cl. 310-168.000.
Richter, Friedrich; and Schramm, Heinz-Helmut, to Siemens Aktiengesellschaft. Blast-piston circuit breaker. 3,739,124, 6-12-73, Cl. 200-148.00a.
Richter, Friedrich, to Hell, Rudolf, Dr.-Ing., GmbH. Apparatus for the electro-mechanical production of printing matrices on variable scale of reproduction. 3,778,544, 12-11-73, Cl. 178-6.60b.
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Richter, Gerhard; and Poppei, Peter. Leather shaving machine. 3,744,278, 7-10-73, Cl. 69-42.000.
Richter, Hans H., to Leesona Corporation. Winding method and apparatus. 3,727,855, 4-17-73, Cl. 242-18.100.
Richter, Hans H., to Leesona Corporation. Yarn processing post treatment. 3,774,384, 11-27-73, Cl. 57-34.0hs.
Richter, Hans Heinrich, to Leesona Corporation. Apparatus for winding yarn. 3,741,491, 6-26-73, Cl. 242-18.100.
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Richter, Paul D.; Janchus, Robert M.; and Shen, Shih C., to Envirotech Corporation. Apparatus for rotary filters. 3,776,386, 12-4-73, Cl. 210-398.000.
Richter, Robert D., to Tridair Industries. Door structure for cargo container. 3,710,513, 1-16-73, Cl. 49-464.000.
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Richter, Rudolf; and Kropp, Walter, to Linde Aktiengesellschaft. Position-control device operated by fluid pressure. 3,748,967, 7-31-73, Cl. 91-387.000.
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Richter, Sidney B.; and Levin, Alfred A., to Velsicol Chemical Corporation. Method of preparing 1,4,5,6,7,7-hexachloro-5-norbornene-2,3-dicarboxylic acid. 3,714,232, 1-30-73, Cl. 260-515.00r.

Richter, Sidney B.; and Levin, Alfred A., to Velsicol Chemical Corporation. Thiocyanoacetamides. 3,723,439, 3-27-73, Cl. 260-283.0cn.

Richter, Sidney B.; and Barnas, Eugene F., to Velsicol Chemical Corporation. Method for the control of acarids using 3-halobenzamides. 3,733,414, 5-15-73, Cl. 424-300.000.

Richter, Sidney B.; and Stach, Leonard J., to Velsicol Chemical Corporation. Phosphoramidate esters. 3,748,335, 7-24-73, Cl. 260-294.80k.

Richter, Sidney B.; and Mayer, David P., to Velsicol Chemical Corporation. Insecticidal and acaricidal compositions and method of combating insects and acarids using dialkylamenobenzhydryl dicarboxylate. 3,749,796, 7-31-73, Cl. 424-304.000.

Richter, Stanley H. Aircraft. 3,752,419, 8-14-73, Cl. 244-23.00c.

Richter, Ulf, to Dynamit Nobel Aktiengesellschaft. Composite for explosive bonding. 3,730,415, 5-1-73, Cl. 228-3.000.

Richter, Ulf, to Dynamit Nobel Aktiengesellschaft. Metal laminated material. 3,761,007, 9-25-73, Cl. 228-3.000.

Richterkessing, Frank H. Fluid operated machine and safety control system therefor. 3,709,101, 1-9-73, Cl. 91-424.000.

Richterkessing, Frank H., to Cissell, W. M., Manufacturing Company. Garment finisher with attached assembly of fluid spraying guns. 3,726,450, 4-10-73, Cl. 223-70.000.

Richterkessing, Frank H., to Cissell W. M., Manufacturing Company. Conveyor rail. 3,727,745, 4-17-73, Cl. 198-181.000.

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Richwell, Gunnar; and Giouvalakis, Antonios I., to Potter Instrument Company, Inc. Dribble circuit. 3,746,277, 7-17-73, Cl. 242-182.000.

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Rick, Norman A., to Wehr Corporation. Adjustable diffuser. 3,768,395, 10-30-73, Cl. 98-40.00d.

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Rickel, Allen D., to Trans-Clean, Inc., mesne. Vehicle washing apparatus. 3,761,986, 10-2-73, Cl. 15-21.00d.

Rickenbacher, Hans Rudolf, to Ciba-Geigy AG. Chlorinated alpha-aminoanthraquinones and process for their manufacture. 3,758,518, 9-11-73, Cl. 260-381.000.

Ricker, Conrad J.: *See*—
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Ricketts, Calvin I.: *See*—
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Ricketts, Ronald Edmund, to Imperial Chemical Industries, Limited. Manufacture of non-woven materials. 3,763,521, 10-9-73, Cl. 19-155.000.

Rickey, James C. Music teaching device with a color coordinated fingerboard region and color correlated fingerboard region and color correlated fingerboard and notation regions. 3,771,409, 11-13-73, Cl. 84-471.000.

Rickey, Roger E., to Ford Motor Company. Carburetor idle system air bleed. 3,741,188, 6-26-73, Cl. 123-198.0db.

Rickey, Wynn P.: *See*—
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Rickhoff, Leo J., Jr., to Tennessee Jed's Franchise Corporation. Barbecue pit. 3,709,140, 1-9-73, Cl. 99-331.000.

Ricklefs, Merlin J.: *See*—
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Rickrode, Cyril J.; and Becker, Charles A., to Cam Industries, Inc. Method and machine to de-bur commutator bars. 3,722,144, 3-27-73, Cl. 51-50.00r.

Ricks, Tom E. Torque coupler. 3,738,122, 6-12-73, Cl. 64-29.000.

Rickter, Donald O., to Polaroid Corporation. Photographic products and processes having a polycyclic S-substituted tetrahydropyrimidine compound. 3,756,825, 9-4-73, Cl. 96-76.00r.

Rico Corporation: *See*—
Kafkis, Nicholas H., 3,739,420.

Rico, Edward H.; and Jaeger, Joseph H. Hydropneumatic massage equipment. 3,710,786, 1-16-73, Cl. 128-66.000.

Rico, Hubert: *See*—
Simonet, Guy; and Rico, Hubert, 3,738,084.

Ricoh Co., Ltd.: *See*—
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Ando, Akira, 3,770,906.
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Ridder, Georg Sven-Olof; and Lorinder, Hans Goran. Vehicle, especially a station wagon, having a vortex generator for producing an attached flow over the rear window. 3,724,892, 4-3-73, Cl. 296-1.00s.

Ridder, Hubert: *See*—
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Ridders, Johannes Antonius Maria; Mollet, Adrianus Josephus Theresia; and Termuelen, Arend Jan, to U.S. Philips Corporation. Arrangement for the introduction of material in an electric discharge vessel. 3,764,842, 10-9-73, Cl. 313-177.000.

Ridderstrale, Carl-Erik: *See*—
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Riddiford, Frank Oliver George. Devices for automatically controlling the watering of plants. 3,741,239, 6-26-73, Cl. 137-408.000.

Ridding, Michael John, to Alfa-Laval AB. Gate for animal enclosure. 3,742,910, 7-3-73, Cl. 119-27.000.

Riddle, Dennis L.: *See*—
Eschenbach, Paul W.; King, Jerry N.; and Riddle, Dennis L., 3,751,945.
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Riddle, Hugh W. Fluid dispensing cover. 3,777,941, 12-11-73, Cl. 222-207.000.

Riddle, John B.: *See*—
Roundy, Carlos B.; Riddle, John B.; and Heintz, Ralph M., 3,710,218.

Riddle, Robert K., Sr. Releasable boat anchor. 3,747,553, 7-24-73, Cl. 114-208.00a.

Ride-Rite Corporation: *See*—
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Thaxton, Ellis B., 3,730,550.

Ridenour, Derrel J. Stairway. 3,747,709, 7-24-73, Cl. 182-219.000.

Ridenour, Ralph G.; and Stevens, Walter Chandler, Jr., to Universal Refrigeration, Inc. Method of forming staked seal for tubular parts. 3,744,122, 7-10-73, Cl. 29-516.000.

Ridenour, Richard E.; and Groves, Kenneth O., to Dow Chemical Company, The. Deposition of thin metal films. 3,762,938, 10-2-73, Cl. 117-63.000.

Ridenour, Richard R.: *See*—
Thompson, Gerald F.; and Ridenour, Richard R., 3,734,311.

Rideout, Vincent L.: *See*—
Dumke, William P.; Rideout, Vincent L.; and Woodall, Jerry M., 3,780,359.

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Rider, George William, to AMP Incorporated. Crimping tool having an improved valve control mechanism. 3,772,907, 11-20-73, Cl. 72-712.000.

Rider, George William. Surgical tubing clip clenching tool. 3,780,416, 12-25-73, Cl. 29-212.00d.

Rider, Miles I.: *See*—
Whitney, Theodore R., 3,730,985.

Ridge, Alvin Arthur; and Polchet, Jack Marquis, to South African Coal, Oil and Gas Corporation Limited. Methods for preparing master batches of additive concentrates. 3,778,288, 12-11-73, Cl. 106-308.00q.

Ridge, Charles K.; and Allen, Jack R. Overload safety switch apparatus. 3,733,450, 5-15-73, Cl. 200-85.00r.

Ridge, Ray H. Multiple fishing pole device. 3,772,816, 11-20-73, Cl. 43-21.200.

Ridge Tool Company, The: *See*—
Province, William F., 3,723,705.

Ridgway, Harold C., to Telaco Industries. Hydraulically actuated rotary pop-up sprinkler. 3,758,038, 9-11-73, Cl. 239-206.000.

Ridgway, James S., to Monsanto Company. Copolyamides of 9,9-bis(3-aminopropyl)-fluorene. 3,738,968, 6-12-73, Cl. 260-78.00r.

Ridgway, Merrill L.; Carabbio, Robert M.; Jordan, Robert D.; Seyfried, Donald N.; and Monnin, Philip V., to Minster Machine Company, The. Automatic stamping press arrangement and method of operation. 3,727,442, 4-17-73, Cl. 72-700.000.

Ridings, Willis A., Jr. Variable meter shunt. 3,714,568, 1-30-73, Cl. 324-126.000.

Ridley, Jeter L.: *See*—
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Ridley, John Cecil. Fluid pressure operated rotary actuators. 3,709,105, 1-9-73, Cl. 92-137.000.

Ridley, Kenneth Arthur, to Ilford Limited. Steering device for travelling web. 3,776,442, 12-4-73, Cl. 226-198.000.

Ridwell Corporation: *See*—
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Austin, Peter William; Crabtree, Allen; Leng, John Lindley; Robert, Denis; Ridyard, Annesley; and Young, Elliott, 3,725,383.

Riebel, Hans-Jochem; Hammann, Ingeborg; Unterstenhofer, Gunter; Behrenz, Wolfgang; and Stendel, Wilhelm, to Bayer Aktiengesellschaft. 1-Phenyl-2-cyanovinyl(thio)-phosphoric or -phosphonic acid esters. 3,763,285, 10-2-73, Cl. 260-940.000.

Riebel, Hans-Jochem; Hammann, Ingeborg; and Unterstenhofer, Gunter, to Bayer Aktiengesellschaft. 1-Phenyl-2-cyano-2-methylvinyl-thionophosphoric (phosphonic) acid esters. 3,775,517, 11-27-73, Cl. 260-940.000.

Rieber & Son Plastic-Industri A/S: *See*—
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Rieber, Heinrich: *See*—
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Rieber, Heinrich, Jr.; and Lumpp, Gunther, to Rieber, Heinrich. Transporting containers. 3,727,789, 4-17-73, Cl. 220-44.00r.

Rieber, Martin: *See*—
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Riebling, Eugene F., to University of Akron, The. Process for making metal spheres in oxide glasses. 3,765,853, 10-16-73, Cl. 65-18.000.

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Riechmann, Werner, to Blaupunkt-Werke GmbH. Stabilized low voltage supply circuit in solid-state T.V. receivers. 3,766,314, 10-16-73, Cl. 178-7.30r.

Riechmann, Wilhelm. Proximity switch. 3,743,865, 7-3-73, Cl. 307-308.000.

Rieck, Henry G.: *See*—
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Riecke, Louis G., Jr.; and O'Hare, Thomas J., Jr. Guidingly supported adjustable weight vertical lift carriage. 3,746,337, 7-17-73, Cl. 272-81.000.

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Riedberger, Jacques H.; and Ezavin, Rene M. Building structures. 3,710,528, 1-16-73, Cl. 52-236.000.

Riede, Gerhard; and Hagstrom, Olov, to Gambro AG. Device for dialysis. 3,734,298, 5-22-73, Cl. 210-321.000.

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Riedel, Hans-Jurgen, to Kernforschungsanlage Julich Gesellschaft mit beschrankter Haftung. Method of extracting uranium from seawater. 3,721,533, 3-20-73, Cl. 23-337.000.

Riedel, John Y., to Bethhehem Steel Corporation. Cold work die steel. 3,725,050, 4-3-73, Cl. 75-126.000.

Riedel, Rogers; and Lepore, Anthony, to Thelford Corporation. Toilet. 3,755,827, 9-4-73, Cl. 4-10.000.

Riedel, Rudolph T. Flush tank control. 3,719,957, 3-13-73, Cl. 4-67.000.

Riedel, Wolfgang: *See*—
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Riedel, Wolfgang, to Bosch, Robert, Photokino GmbH. Cinematographic apparatus with coupling means for detachable film-containing cassettes. 3,717,405, 2-20-73, Cl. 352-72.000.

Riedel, Wolfgang, to Bosch, Robert, G.m.b.H. Film guide means for cinematographic apparatus. 3,771,704, 11-13-73, Cl. 226-89.000.

Riedell, Edwin H. Catheter bag and kit therefor. 3,762,399, 10-2-73, Cl. 128-2.00f.

Riedl, H. Raymond; and Scharnhorst, Peter, to United States of America, Navy. Two color detector. 3,743,995, 7-3-73, Cl. 338-15.000.

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Snyder, James H.; and Riedner, William E., 3,720,327.
Snyder, James H.; and Riedner, William E., 3,754,513.

Riedo, Otto. Equipment on the human body for giving signals, especially in connection with alarm systems. 3,777,086, 12-4-73, Cl. 200-52.00n.

Riedy, Charles H.: *See*—
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Riegel, Herbert: *See*—
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Riegel, Herbert; Schindler, Harvey D.; and Sze, Morgan C., to Lummus Company, The. Process for producing a phenol by oxidation of an aromatic hydrocarbon. 3,745,193, 7-10-73, Cl. 260-621.00g.

Riegel, Herbert; Schindler, Harvey P.; Sze, Morgan C.; and Brooks, Maurice E., to Lummus Company, The. Dehydrogenation process. 3,776,967, 12-4-73, Cl. 260-666.00a.





Riegel Paper Corporation: *See*—
Cote, Raymond A., 3,770,116.

Riera, Antonio Cortes, to Sociedad Anonima Metalorte. Improvements applied in the manufacture of lamps. 3,779,052, 11-6-73, Cl. 65-36.000.





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Riegel, Peter S., to Gilbert & Barker Manufacturing Company. Automatic trip fill nozzle. 3,710,831, 1-16-73, Cl. 141-207.000.
Riegel Textile Corporation: *See—*
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Teed, Richard K., 3,779,186.
Riegelman, Harry M., Jr., to Rusco Industries, Inc. Metal window sub-frame and wall structure. 3,768,220, 10-30-73, Cl. 52-208.000.
Rieger, Hansjorg. Tire chain. 3,768,536, 10-30-73, Cl. 152-239.000.
Rieger, Helmuth: *See—*
Gross, Werner Johann; Lanzerath, Gunter Franz; Patzer, Helmut Karl; Maennchen, Joachim Klauss; Rieger, Helmuth; and Weiberg, Horst, 3,776,562.
Rieger, Klaus K., to Universal Oil Products Company. Method of forming spiral ridges on the inside diameter of externally finned tube. 3,768,291, 10-30-73, Cl. 72-78.000.
Rieger, Martin M., to Warner-Lambert Company. Aluminum alcoholates of N-acetyl-p-aminophenol. 3,772,352, 11-13-73, Cl. 260-448.0ad.
Rieger, Paul P.: *See—*
Fallon, William H.; Rieger, Paul P.; and Richards, Donald K., 3,736,490.
Rieger, Werner: *See—*
Martin, Wilhelm; and Rieger, Werner, 3,746,827.
Riegert, Rupert: *See—*
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Riegger, Paul Charles. Device for unwinding and winding webs of material from or on to spools. 3,743,206, 7-3-73, Cl. 242-75.100.
Riegler, Adolf: *See—*
Suette, Kurt; and Riegler, Adolf, 3,719,355.
Riegler, Ernst: *See—*
Reitter, Gunther; and Riegler, Ernst, 3,736,807.
Riehen, Jakob Nuesch: *See—*
Treichler, Hans-Joerg; and Riehen, Jakob Nuesch, 3,776,815.
Riehl, Frederick W. Method of recovering oil from substantially level formation strata. 3,749,170, 7-31-73, Cl. 166-272.000.
Riehl, Paula: *See—*
Riehl, Wilhelm; and Strobel, Werner Karl, 3,710,093.
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Boshinski, Edwin E.; Clark, Walter W.; Riehl, Roger W.; and Watson, William M., 3,741,324.
Riehl, Wilhelm; deceased (by Riehl, Paula; executrix); and Strobel, Werner Karl, to General Motors Corporation. Device for raising or retracting motor vehicle headlamps. 3,710,093, 1-9-73, Cl. 240-7.10h.
Riek, Raymond F.: *See—*
Buckley, Francis T.; Riek, Raymond F.; and Christensen, Donald I., 3,718,516.
Rieke Corporation: *See—*
Bauman, George F., 3,747,962.
Smith, Rolo Wayne, 3,750,859.
Smith, Rulo Wayne, 3,769,964.
Rieke, Wilhelm, to Rheinstahl Aktiengesellschaft. Cartridge feeding and loading device for light weapons. 3,763,741, 10-9-73, Cl. 89-33.00a.
Rieker, Justus, Messrs. Dr., & Co.: *See—*
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Riekkinen, Asko S., to Oy Nokia AB. Device for cooling an electric wire insulated by extrusion. 3,746,021, 7-17-73, Cl. 134-122.000.
Riekkinen, Asko Sakari: *See—*
Leinonen, Aarno Olavi; and Riekkinen, Asko Sakari, 3,761,030.
Riel, Frank J., to Rohr Industries, Inc. Method of making a ribbed panel. 3,747,197, 7-24-73, Cl. 29-470.900.
Rieli, Anthony. Amphibious all-terrain vehicle. 3,771,615, 11-13-73, Cl. 180-6.480.
Rielle, Russell A. Decorative display device. 3,744,166, 7-10-73, Cl. 40-106.210.
Riello Condizionatori S.A.S. di Giordano Riello & C.: *See—*
Riello, Valerio Giordano, 3,756,039.
Riello, Valerio Giordano, to Riello Condizionatori S.A.S. di Giordano Riello & C. Air conditioners. 3,756,039, 9-4-73, Cl. 62-262.000.
Riely, Phyllis, to Pall Corporation. Microporous nonadherent surgical dressing. 3,709,221, 1-9-73, Cl. 128-156.000.
Riemerschmid, Fritz, to Motoren- und Turbinen-Union Munchen GmbH. Means for actuating a multiple tube jet defector device. 3,776,467, 12-4-73, Cl. 239-265.350.
Riencell Boats, Inc.: *See—*
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Riendeau, William P., to Aiken Industries, Incorporated. Switch breaker. 3,755,768, 8-28-73, Cl. 337-66.000.
Riendeau, William P., to Aiken Industries, Incorporated. Circuit breaker, trip mechanism and method for manufacturing same. 3,771,087, 11-6-73, Cl. 337-112.000.
Rienerth, George R.: *See—*
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Riera, Antonio Cortes, to Sociedad Anonima Metalorte. Improvements applied in the manufacture of lamps. 3,770,953, 11-6-73, Cl. 240-73.0bj.
Riers, Juan Colombe: *See—*
Salat, Carlos Ferrer; Batlles, Jorge Ferrer; and Riers, Juan Colombe, 3,718,664.
Ries, Gordon E. Light unit. 3,721,814, 3-20-73, Cl. 240-10.00r.
Ries, Gordon E. Security device. 3,748,982, 7-31-73, Cl. 95-15.000.
Ries, Jurgen; Keck, Manfred; Streicher, Heinz; and Leuiwein, Manfred, to Eastman Kodak Company. Intermediate storage station means for sheet-like information bearing media. 3,753,559, 8-21-73, Cl. 271-3.000.
Riesbeck, Laverne J.; and Blackwell, Willis A., to Midwestern Industries, Inc. Flow controller for a material separator. 3,720,316, 3-13-73, Cl. 209-254.000.
Rieschel, Hans: *See—*
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Rieschel, Hans, to Hasmann, Josef and Freudenberger Winden und Hebezeuafabrik. Hydraulic hoisting apparatus for use with a road vehicle. 3,744,652, 7-10-73, Cl. 214-392.000.
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Riese, Hans-Walter: *See—*
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Riesel, Werner: *See—*
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Rieser, Donald E., to International Harvester Company. Alternating mechanism for hydraulic markers. 3,714,991, 2-6-73, Cl. 172-130.000.
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Riesland, David H., to General Electric Company. Power factor correction in a lead/lag ballast circuit. 3,780,347, 12-18-73, Cl. 317-9.0pf.
Riess, Walter: *See—*
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Riess, Werner: *See—*
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Riester, James J.: *See—*
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Ohschlager, Hans; and Riester, Oskar, 3,776,738.
Riester, Oskar, to Agfa-Gevaert Aktiengesellschaft. Bis-pyridinium salt and a phenyl borante as photosensitive combination. 3,716,366, 2-13-73, Cl. 96-88.000.
Riester, Oskar; and Voigt, Armin, to Agfa-Gevaert Aktiengesellschaft. Spectrally sensitizing quick-processing photographic material. 3,726,684, 4-10-73, Cl. 96-95.000.
Riester, Oskar, to Agfa-Gevaert Aktiengesellschaft. Photographic layer containing a light-sensitive leucophthalocyanine sensitized with a phenyl boranate. 3,754,921, 8-28-73, Cl. 96-90.00r.
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Rieth, Harold F., to Industrial Electronic Engineers, Inc. Bar segment readout light shield. 3,728,808, 4-24-73, Cl. 40-130.00e.
Rieth, Harold F. Reflex meter. 3,739,768, 6-19-73, Cl. 128-2.000.
Rieth, Jean Jaques; and Castejon, Francois, to Les Etablissements Marechal S.A. Process for producing an embossing cylinder. 3,775,261, 11-27-73, Cl. 204-15.000.
Riethmann, Jean; Gremmelmaier, Claude; and Scheck, Leo, to Ciba-Geigy Corporation. Continuous process for the production of cyanuric chloride. 3,761,472, 9-25-73, Cl. 260-248.00c.
Riethmeier, William C., to Collins Radio Company. Hold-down/extraction apparatus. 3,756,087, 9-4-73, Cl. 74-89.150.
Rietjens, Pierre L.L.M., to Akzona Incorporated. Process and apparatus for the stufferbox crimping of yarns. 3,765,068, 10-16-73, Cl. 28-1.700.
Rietmann, Norman G., to Autoclave Engineers, Inc. Isostatic clamp press. 3,761,574, 9-25-73, Cl. 423-405.00h.
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Rifgin, Alfred A.; and Simon, Andrew M., to International Business Machines Corporation. Integral storage container, shipping carton and extraction/insertion mechanism for multi-chip circuit modules. 3,760,486, 9-25-73, Cl. 29-278.000.
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Rigby, Frank; and Ainscough, John Brian, to United Kingdom Atomic Energy Authority. Nuclear fuel element containing sintered uranium dioxide fuel with a fine particulate dispersion of an oxide additive therein and method of making same. 3,715,273, 2-6-73, I. 176-67.000.
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Rigdon, Orville W.; Macaluso, Anthony, Sr.; and Powers, William, III, to Texaco Inc. Process for acid treating of olefins. 3,758,608, 9-11-73, Cl. 260-677.000.
Rigdon, Orville W.; Edwards, Robert S.; and Holst, Edward H., to Texaco Inc. Photonitrosation of normal paraffins. 3,775,275, 11-27-73, Cl. 204-162.0xn.
Rigert, Max, to McGraw-Edison Company. Quick closing mechanism for circuit interrupter. 3,723,686, 3-27-73, Cl. 200-153.0sc.
Rigert, Max, to McGraw-Edison Company. Control means for reclosing circuit breaker. 3,725,830, 4-3-73, Cl. 335-32.000.
Riggert, Karlheinz, to Vickers-Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen. Process for the production of technical endless filaments of high-molecular weight linear polymers. 3,758,658, 9-11-73, Cl. 264-176.00f.
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Riggs, David K.; and Smith, Frank G., to American Tire Apparatus Co. Automatically operatively positioned and storable outrigger pad. 3,754,777, 8-28-73, Cl. 280-150.500.
Riggs, David K., to American Fire Apparatus Co. Fire fighting apparatus. 3,770,062, 11-6-73, Cl. 169-24.000.
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Riggs, Robert F., to Sperry Rand Corporation. Ship's maneuver assessment system. 3,717,873, 2-20-73, Cl. 343-5.0em.
Riggs, Robert F., to United States of America, Navy. Method for determining the closest point of approach. 3,774,213, 11-20-73, Cl. 343-112.00d.
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Rigterink, Raymond H., to Dow Chemical Company, The. Substituted S-(4-oxo-1,2,3-benzotriazin-3(4H)-yl) methyl) phosphorothioates and phosphorodithioates for controlling arthopods. 3,737,527, 6-5-73, Cl. 424-200.000.
Rigterink, Raymond H., to Dow Chemical Company, The. Substituted (trifluoromethyl)-pyridyl phosphate and phosphorothioates. 3,743,648, 7-3-73, Cl. 260-294.80k.
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Riley, Robert E.; and Taub, James M., to United States of America, Atomic Energy Commission. Tantalum carbide-tantalum fiber composite material. 3,779,716, 12-18-73, Cl. 29-182.800.
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Rinehart, Louis P., to Morgan, R. A., Co., Inc. Microfilm reader apparatus with automatic updating display means. 3,751,152, 8-7-73, Cl. 353-26.000.
Rinesch, Rudolf, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Plant for continuous casting without deep casting stream penetration. 3,718,175, 2-27-73, Cl. 164-254.000.
Ring, Albert W. Remotely operated electrical combination lock. 3,722,238, 3-27-73, Cl. 70-278.000.
Ring, Charles Martin, to Motorola, Inc. High voltage solid-state amplifier having temperature responsive shutdown. 3,755,751, 8-28-73, Cl. 330-23.000.
Ring, Charles Martin, to Motorola, Inc. Bridge amplifier suitable for manufacture in monolithic integrated circuit form. 3,768,031, 10-23-73, Cl. 330-15.000.
Ring, Clinton E., to General Electric Company. Air-conditioner air-directing means. 3,713,376, 1-30-73, Cl. 98-110.000.
Ring, Howard D., to Xerox Corporation. Printing apparatus. 3,771,184, 11-13-73, Cl. 101-1.000.
Ring, John Joseph: *See—*
Buchan, William Arthur; and Ring, John Joseph, 3,771,114.
Ring, Richard: *See—*
Tesoro, Giuliana C.; and Ring, Richard, 3,719,698.
Ring, Richard N.: *See—*
Tesoro, Giuliana C.; and Ring, Richard N., 3,761,473.
Ring, Stuart H.: *See—*
Sewell, John M.; Matteson, Lawrence J.; and Ring, Stuart H., 3,742,833.
Ring, Theodore C.: *See—*
Bunting, Robert L., Jr.; Ring, Theodore C.; D'Amato, Joseph; and Wojcik, Witold M., 3,766,961.
Ring, Walter R., Sr.: *See—*
Chrisman, Willis L.; and Ring, Walter R., Sr., 3,718,023.
Ringel, Reginald, to Caterpillar Tractor Company. Multi-part bearing liner. 3,744,859, 7-10-73, Cl. 308-72.000.
Ringelmann, Heinz: *See—*
Hirt, Wilhelm; Ringelmann, Heinz; Weckesser, Ernst; and Weinhold, Gottfried, 3,712,785.
Ringer, Charles Judd, to Ringer, Judd, Corporation. Receptacle for lawn debris. 3,747,653, 7-24-73, Cl. 150-1.000.
Ringer, Judd, Corporation: *See—*
Lovness, Donald E., 3,747,260.
Ringer, Charles Judd, 3,747,653.
Ringer, Kenneth W., to A.R.F. Products, Incorporated. Remote control system. 3,747,108, 7-17-73, Cl. 343-225.000.
Ringfeder Gm.b.H.: *See—*
Friedrichs, Josef; Schropfer, Karl Heinrich; and Kloren, Ulrich, 3,720,429.
Ringhand, Kenneth D., to Central Screw Company. Method and apparatus for the assembly of screw blanks and washers. 3,745,599, 7-17-73, Cl. 10-155.00a.
Ringland, Kenneth D., to Central Screw Company. Self-drilling and thread-forming screw. 3,710,676, 1-16-73, Cl. 85-41.000.
Ringland, William L.; Neumann, Manfred E.; Kaeser, Ernst K.; and Geiersbach, Allois F., to Allis-Chalmers Corporation. Electrically driven vehicle steered by control of power and speed of tractive elements. 3,720,863, 3-13-73, Cl. 318-52.000.
Ringle, Richard Bertrem, to Globe-Union Inc. Battery charger apparatus having multiple modes of operation and automatic switching therebetween. 3,735,233, 5-22-73, Cl. 320-24.000.
Ringwall, Carl Gustav: *See—*
Haefner, Kenneth Browning; and Ringwall, Carl Gustav, 3,724,478.
Ringwall, Carl Gustave: *See—*
Conroy, Thomas Francis; and Ringwall, Carl Gustave, 3,763,534.
Riniker, Bernhard; and Rittel, Werner, to Ciba Corporation. $Gly^3$-achth-active peptides. 3,755,286, 8-28-73, Cl. 260-112.500.
Riniker, Paolo. Fixator for diaphyses fractures. 3,727,610, 4-17-73, Cl. 128-92.00a.
Rinipa AB: *See—*
Nordstrom, Lars Vilhelm; Nilsson, Anders Johan; Nilsson, Mats Erik; and Persson, Sven Roland, 3,732,703.
Rink, Helm Arthur, to Resistoflex Corporation. Constrictable tube valve with anti-cracking tube arrangement and tube therefor. 3,770,023, 11-6-73, Cl. 138-121.000.
Rink, Karl-Heinz: *See—*
Pohl, Gerhard; Rink, Karl-Heinz; Triebel, Wolfgang; Weiberg, Otto; and Weigert, Wolfgang, 3,720,689.
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Rinke, Heinrich: *See—*
Thoma, Wilhelm; Oertel, Harald; and Rinke, Heinrich, 3,708,453.
Thoma, Wilhelm; Oertel, Harald; and Rinke, Heinrich, 3,711,443.
Thomas, Wilhelm; Oertel, Harald; Rinke, Heinrich; and Bahr, Ulrich, 3,719,708.
Rinke, Odenthal-Globusch Heinrich: *See—*
Winkelmann, Hans Dieter; Rosendahl, Friedrich Karl; Oertel, Harald; and Rinke, Odenthal-Globusch Heinrich, 3,758,553.
Rinkel, Gerardus; and Van Doorn, Gijsbert, to Bitumarin N.V. Water-permeable bituminous compositions for hydraulic engineering. 3,717,492, 2-20-73, Cl. 106-280.00r.
Rinkel, Gerardus, to Bitumarin N.V. Support means for slope revetments. 3,722,222, 3-27-73, Cl. 61-38.000.
Rinker, Clark I. Three-phase engine apparatus. 3,710,569, 1-16-73, Cl. 60-39.610.
Rinkler, Heinrich: *See—*
Lorenz, Gunter; Rinkler, Heinrich; and Nischk, Gunther, 3,755,430.
Rinkler, Heinrich; Wieden, Horst; Engelhard, Helmut; and Nogaj, Alfred, to Farbenfabriken Bayer Aktiengesellschaft. Polyacrylonitrile polymer mixtures with an affinity for acid dyes containing a cyclic imide polymer. 3,720,733, 3-13-73, Cl. 260-895.000.
Rinkler, Heinrich-August: *See—*
Engelhard, Helmut; Rinkler, Heinrich-August; and Nischk, Gunther, 3,767,631.
Rinnai Kabushiki Kaisha: *See—*
Tamada, Kazumi; and Takase, Tadayoshi, 3,710,775.
Rinnergschwentner, Hans: *See—*
Steiner, Adolf; and Rinnergschwentner, Hans, 3,757,885.
Rinta, Jussi. Method for transporting fluids or gases sparsely soluble in water. 3,763,652, 10-9-73, Cl. 61-.500.
Rio, Andre, to Rhone-Poulenc S.A. Process for the preparation of diorganochlorophines. 3,734,958, 5-22-73, Cl. 260-543.00p.
Rio, Michel, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Individual respirators containing compositions based on potassium superoxide. 3,767,367, 10-23-73, Cl. 23-281.000.
Rioman, Genevieve Antoinette. Anti-skid device. 3,760,857, 9-25-73, Cl. 152-226.000.



Riomdel, Pierre, to Societe Anonyme des Ateliers de Secheron. Automatic operation control device of an automatic vehicle



Urbutis, Algimantas P.; Schenk, Bernard H.; Risany, Joseph J.;

Riomdel, Pierre, to Societe Anonyme des Ateliers de Secheron. Automatic operation control device of an automotive vehicle. 3,752,084, 8-14-73, Cl. 105-61.000.
Riordan, Hugh E.; Every, Peter; and Hill, Frank E., to Kelsey-Hayes Company. Skid control valve assembly. 3,708,214, 1-2-73, Cl. 303-21.00f.
Riordan, Hugh E., to Kelsey-Hayes Company. Skid control system. 3,744,852, 7-10-73, Cl. 303-21.00p.
Riordan, Hugh E., to Kelsey-Hayes Company. Four wheel skid control system. 3,768,874, 10-30-73, Cl. 303-21.0be.
Riordan, John D.: *See—*
Libby, Carl F., 3,752,195.
Ripka, William Charles, to Du Pont de Nemours, E. I., and Company. Process for the preparation of 21-chloro-6,6,9 alpha-trifluoro-11 beta, alpha, 17 alpha-trihydroxy-1,4-pregnadien-3,20-dione 16,17-ketals and selected intermediates. 3,718,673, 2-27-73, Cl 260-397.300.
Ripley, Charles C.; and O'Neill, Gerald L., to General Electric Company. Variable flow steam circulator. 3,719,524, 3-6-73, Cl. 417-180.000.
Ripley, Charles C., to General Electric Company. Nuclear reactor control rod drive with rod position indicating means. 3,734,824, 5-22-73, Cl. 176-36.00r.
Ripley, Charles C., to General Electric Company. Nuclear fuel assembly. 3,764,471, 10-9-73, Cl. 176-78.000.
Ripley, Clarence A., Jr.: *See—*
Rader, Edwin R.; and Ripley, Clarence A., Jr., 3,781,115.
Ripley Company, Inc.: *See—*
Jones, Charles L., 3,732,404.
Ripley, Dennis L.: *See—*
Johnston, Harlin D.; and Ripley, Dennis L., 3,728,412.
Ripley, Dennis L., to Phillips Petroleum Company. Oxidative conversion including dehydrogenation. 3,716,545, 2-13-73, Cl. 260-290.00v.
Ripley, Dennis L., to Phillips Petroleum Company. Two-stage dehydrogenation process for producing diolefins. 3,725,494, 4-3-73, Cl. 260-680.00e.
Ripley, Dennis L., to Phillips Petroleum Company. Two-stage dehydrogenation process. 3,737,473, 6-5-73, Cl. 260-680.00e.
Ripley, Ian Stanley: *See—*
Hepworth, Paul; Ripley, Ian Stanley; and Scott, Norman, 3,709,854.
Moody, Anthony Gifford; and Ripley, Ian Stanley, 3,763,125.
Ripley, Marion M., 30% to Lee, Raymond, Organization, Inc., The. Energy absorbing automobile bumper. 3,746,384, 7-17-73, Cl. 293-86.000.
Ripley, Robert L.: *See—*
Hard, Robert A.; and Ripley, Robert L., 3,708,206.
Ripoll Moran, German. Impusle generator to ignite combustion engines. 3,727,071, 4-10-73, Cl. 307-10.00r.
Rippel, Robert; Ruschig, Heinrich; Lindner, Ernst; and Orr, Manfred, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. 2-(Thienyl-3'-amino)-1,3-diaza-cycloalkenes. 3,758,476, 9-11-73, Cl. 260-256.50r.
Rippel, Wally E. Current limited transistor switch. 3,721,836, 3-20-73, Cl. 307-253.000.
Ripper, Jose Ellis: *See—*
Paoli, Thomas Lee; and Ripper, Jose Ellis, 3,723,903.
Rippie, Charles W. Process to remove mercaptan sulfur from sour oils. 3,708,421, 1-2-73, Cl. 208-244.00r.
Rippingille, Edward V., Jr.: *See—*
Kwok, Clyde Chi Kai, 3,777,746.
Ripplinger, Roland E., to Honeywell Information Systems, Inc. Silicon controlled rectifier tester. 3,766,475, 10-16-73, Cl. 324-158.50c.
Rippy, Dorian F.: *See—*
Siebol, George; and Rippy, Dorian F., 3,777,540.
Rips, Richard, to Institut National de la Sante et de la Recherche Medicale and Les Laboratoires Millot. N,N-diethyl(2-allyl-tert-butyl substituted-phenoxy) acetamides. 3,714,250, 1-30-73, Cl. 260-559.00b.
Ririe, Max H.; Roland, Murray C.; and Olson, Rich, to Lockwood Corporation. Alignment means for mobile irrigation apparatus. 3,712,544, 1-23-73, Cl. 239-177.000.
Ririe, Max H.; Roland, Murray C.; and Olson, Rich, to Lockwood Corporation. Mobile irrigation system and pipe coupling. 3,777,979, 12-11-73, Cl. 239-177.000.
Ririe, Max H.; Roland, Murray C.; and Olson, Rich, to Lockwood Corporation. Mobile irrigation apparatus and alignment control. 3,780,947, 12-25-73, Cl. 239-177.000.
Ris, Kenneth B.; and Huber, Ferdinand V., to Ecodyne Corporation. Adjustable selective orificing steam condenser. 3,731,734, 5-8-73, Cl. 165-100.000.
Ris, Kenneth B., to Ecodyne Corporation, mesne. Selective orificing steam condenser. 3,731,735, 5-8-73, Cl. 165-110.000.
Risacher, Gerard H., to Westinghouse Electric Corporation. Steam iron. 3,711,972, 1-23-73, Cl. 38-77.830.
Risany, Joseph J.: *See—*
Urbutis, Algimantas P.; Schenk, Bernard H.; Risany, Joseph J.; and Marbach, Walter V., 3,741,779.
Urbutis, Algimantas P.; Schenk, Bernard H.; Risany, Joseph J.; and Marbach, Walter V., 3,766,603.
Risbeck, John S.: *See—*
Neumeier, Leander A.; and Risbeck, John S., 3,730,781.
Neumeier, Leander A.; and Risbeck, John S., 3,764,402.
Risch, Adolf Friedrich: *See—*
Vorsatz, Fritz Artur; and Risch, Adolf Friedrich, 3,726,967.
Risch, Rudolf, to Brown, Boveri & Company Limited. Apparatus for monitoring the air gap in rotary electrical machines using magnetic field plates or magneto diodes. 3,743,934, 7-3-73, Cl. 324-34.00e.
Risdon Manufacturing Company, The: *See—*
Swenson, Roy S., 3,771,881.
Wakeman, Alfred W.; and Kotuby, Paul M., 3,722,748.
Risdon, Merle C.; and Meyer, Ronald A., to Sterigard Corporation, Irvine Industrial Complex. Attaching a dispensing valve to a pressurized dispenser. 3,746,218, 7-17-73, Cl. 222-334.000.
Rise, Donald J. Differential pressure thermoforming apparatus for forming large articles such as trailer bodies and boats. 3,713,765, 1-30-73, Cl. 425-384.000.
Riseley, Gerald Frederick, Jr. Restrained access protection apparatus. 3,779,178, 12-18-73, Cl. 109-6.000.
Riseman, Jacob: *See—*
Duffy, Michael C.; Riseman, Jacob; and Wu, Bevan P. F., 3,760,242.
Risener, George A. Liquid handling method and apparatus. 3,752,362, 8-14-73, Cl. 222-85.000.
Risgin, Ojars, to Sensors, Inc. Method of fabricating film type sensing structures. 3,715,288, 2-6-73, Cl. 204-38.00a.
Risgin, Ojars; and Szeles, Donald M., to Sensors, Inc. D.C. electronic apparatus for IR radiation temperature measurement. 3,777,568, 12-11-73, Cl. 73-355.0em.
Rishavy, Edward A.: *See—*
Burley, Harvey A.; Bleil, Carl E.; Rishavy, Edward A.; and Currie, James H., 3,739,753.
Rishel, Paul A.: *See—*
Morgan, Robert A.; and Rishel, Paul A., 3,714,619.
Risher, Frederick L. Razor blade with integrated supplemental guard. 3,735,486, 5-29-73, Cl. 30-78.000.
Risher, Frederick L., to Morris, Philip, Incorporated. Safety razor embodying blade pressure control. 3,740,841, 6-26-73, Cl. 30-32.000.
Rishton, Michael L.; and Federico, Armando, to Avco Corporation. Safety connector for balloon pump. 3,720,199, 3-13-73, Cl. 128-1.00d.
Rising, Bradley D.: *See—*
Huboi, Robert W.; Palmer, Osmond F.; and Rising, Bradley D., 3,708,676.
Rising, Donald B.: *See—*
Martin, Afton V.; Moldovan, Michael T.; Jazbutis, Anatolijus; Fourgere, Guy L.; Rising, Donald B.; Koger, Gary C.; Arciprete, Genio R.; and Svendsen, Noel, 3,744,713.
Shaufus, Charles P.; Rose, Robert E.; and Rising, Donald B., 3,741,877.
Trasen, Ben; and Rising, Donald B., 3,730,353.
Risinger, Max K. Anaerobic bacteria laboratory. 3,775,256, 11-27-73, Cl. 195-108.000.
Risius, George. Trailer stand leg position indicator. 3,768,088, 10-23-73, Cl. 340-282.000.
Risk, Norman E.: *See—*
Klett, Gene R.; Kokaly, Joseph; Risk, Norman E.; and Smith, Roger M., 3,739,506.
Risko, Bernard L.: *See—*
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Risko, John Joseph: *See—*
Liu, Shing-Gong; and Risko, John Joseph, 3,753,153.
Risko, Richard C., to General Motors Corporation. Occupant restraint system. 3,731,948, 5-8-73, Cl. 280-150.0ab.
Risky, Frank A., to GTE Automatic Electric Laboratories Incorporated. Remote contact sensing scanpoint matrix. 3,713,103, 1-23-73, Cl. 340-166.00r.
Risky, Frank A., to GTE Automatic Electric Laboratories, Incorporated. Electro-magnetic current-sensing scanpoint matrix having means for detecting and isolating electrical failures the matrix. 3,714,556, 1-30-73, Cl. 324-34.00r.
Risley, Gerald Thomas: *See—*
Fothergill, Reginald Allan; Bennett, Reginald Frank Charles; Risley, Gerald Thomas; and Weeks, William Stanley, 3,718,918.
Risley, John T.: *See—*
Osika, Thomas F.; and Risley, John T., 3,727,013.
Risley, Robert F.: *See—*
Pagdin, William G.; and Risley, Robert F., 3,714,759.
Pagdin, William G.; Risley, Robert F.; and Smith, Wayne A., 3,726,061.
Pagdin, William G.; and Risley, Robert F., 3,767,026.
Risney, Donald R. Boat transporter. 3,716,156, 2-13-73, Cl. 214-450.000.



Riso, Rocco R.; and Lemberg, Seymour, to Stepan Chemical Company. Process for producing 2-pinanol. 3,723,542, 3-27-73, Cl. 260-631.500.
Riso, Vladimir: *See—*
Croisier, Alain; Esteban, Daniel J.; Levilion, Marc E.; and Riso, Vladimir, 3,777,130.
Rispoli, Joseph M.; and Capossela, Anthony C., Jr., to General Foods Corporation. Process for preparing a snack food product. 3,719,501, 3-6-73, Cl. 99-83.000.
Rissberger, Arthur C., Jr., to Eastman Kodak Company. Strip storage device. 3,715,088, 2-6-73, Cl. 242-74.000.
Risse, Willis H., to United Filtration Corporation. Air cleaner. 3,745,753, 7-17-73, Cl. 55-481.000.
Rissi, Erwin: *See—*
Bastian, Jean-Michel; Ebnother, Anton; and Rissi, Erwin, 3,749,729.
Ebnother, Anton; and Rissi, Erwin, 3,740,406.
Ebnother, Anton; and Rissi, Erwin, 3,740,407.
Rissinger, John C., to Westinghouse Electric Corporation. Pressure ring for transformer windings. 3,750,070, 7-31-73, Cl. 336-84.000.
Rissler, Peter, to Siemens Aktiengesellschaft. Release device for flooding spaces subjected to pressure. 3,746,029, 7-17-73, Cl. 137-81.000.
Rissolo, Herman A.: *See—*
Fuller, David H.; and Rissolo, Herman A., 3,764,116.
Rist, Bruno A.: *See—*
Tanner, James L.; and Rist, Bruno A., 3,741,184.
Rist, Bruno A.; and Tanner, James L., to Tanner Electronic Systems Technology, Inc. Detector using radio receiver and R-F probe. 3,769,575, 10-30-73, Cl. 324-3.000.
Rist, Donald H.; and Schneider, Joseph D., to General Electric Company. Electronic power control and load rate circuit. 3,771,821, 11-13-73, Cl. 290-14.000.
Rist, Michel, to Societe Anonyme Francaise du Ferodo. Clutch plate spring with pivot rings. 3,712,436, 1-23-73, Cl. 192-89.00b.
Rist, Michel Theophill, to Societe Anonyme Francaise du Ferodo. Free-wheel mechanisms and free wheels incorporating such mechanisms. 3,779,350, 12-18-73, Cl. 192-45.000.
Ristau, Theodore F., to General Motors Corporation. Torsions impact energy absorbing device. 3,718,326, 2-27-73, Cl. 267-140.000.
Rister, Franklin D. Multi purpose ladder. 3,779,344, 12-18-73, Cl. 182-214.000.
Ristow, Harold E. Dial indicator gage. 3,721,010, 3-20-73, Cl. 33-172.00r.
Rists Wires and Cables Limited: *See—*
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Ritcey, Gordon Malcolm; and Lucas, Bernard Henry, to Canadian Patents and Development Limited. Liquid-liquid separation of cobalt from ammoniacal solutions. 3,718,458, 2-27-73, Cl. 75-119.000.
Ritcey, Gordon Malcolm; and Lucas, Bernard Henry, to Canadian Patents and Development Limited. Copper extraction from ammoniacal solutions. 3,761,249, 9-25-73, Cl. 75-101.0be.
Ritchey, Harold W.; and Mc Dermott, John M., to Thiokol Chemical Corporation. Rocket motor with blast tube and case bonded propellant. 3,765,177, 10-16-73, Cl. 60-253.000.
Ritchey, Harold W., to Thiokol Chemical Corporation. Firearm and cartridge therefor. 3,777,387, 12-11-73, Cl. 42-84.000.
Ritchey, Thomas W., Jr., to Ampex Corporation. Method of erasing signals from magnetic discs using DC pulses which persist for one disc revolution. 3,723,668, 3-27-73, Cl. 179-100.20d.
Ritchie, Alexander: *See—*
Jenkins, Peter Anthony; and Ritchie, Alexander, 3,773,673.
Ritchie, Colin Foster: *See—*
Edgar, Owen Burchell; Hughes, William; Lawrence, Derek R.; Lederer, Gerald; and Ritchie, Colin Foster, 3,709,710.
Ritchie, David Alan; and Reeves, Richard A., to Sherwood Medical Industries, Inc. Optical detecting system. 3,754,866, 8-28-73, Cl. 23-253.00r.
Ritchie, David Alan; and Kuciejcik, James S., to Sherwood Medical Industries, Inc. Reagent reservoir and magnetic stirring system. 3,758,274, 9-11-73, Cl. 23-259.000.
Ritchie, David Alan; and Beckham, David Scott, to Sherwood Medical Industries Inc. Reagent pipette system. 3,767,364, 10-23-73, Cl. 23-259.000.
Ritchie, Frederick Stafford: *See—*
Seeley, John Scott; Smith, Stanley Desmond; and Ritchie, Frederick Stafford, 3,733,217.
Ritchie, George Douglas V., to Goodrich, B. F., Company, The. Apparatus for curing endless elastomeric belts. 3,767,337, 10-23-73, Cl. 425-288.000.
Ritchie, James Alexander. Thermal regenerators. 3,780,792, 12-25-73, Cl. 165-9.000.
Ritchie, Joe L.: *See—*
Bethea, Thomas J.; and Ritchie, Joe L., 3,765,160.
Ritchie, John K. Dental silver retrieval apparatus. 3,777,403, 12-11-73, Cl. 32-33.000.
Ritchie, Kim: *See—*
Crowe, William J.; Ritchie, Kim; and Gurev, Harold S., 3,770,499.
Ritchie, Lyle J., to Automatic Refuse Systems, Inc. Anti-shock reversing-drive screw actuator unit. 3,743,909, 7-3-73, Cl. 318-282.000.
Ritchie, Lyle J., to Automatic Refuse Systems, Inc. Dolly-mounted bag holder for refuse compactor. 3,757,682, 9-11-73, Cl. 100-220.000.
Ritchie, Robert C.: *See—*
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Rite-Hite, mesne: *See—*
Beckwith, Robert C.; and Hecker, Robert W., Jr., 3,728,753.
Ritland, Paul D.; and Peake, Charles C., to Westinghouse Electric Corporation. Method for increasing effective scavenging vent steam within heat exchangers which condense vapor inside long tubes. 3,759,319, 9-18-73, Cl. 165-111.000.
Ritmar Corporation: *See—*
Jensen, Howard Martin, 3,767,217.
Ritsema, Craig T.: *See—*
Billerbeck, Fred W.; Everett, Lawrence H.; and Ritsema, Craig T., 3,749,587.
Ritsema, Irving R.; and Goerke, Frederick E., to Bendix Corporation, The. Pneumatic variable orifice for adaptive braking. 3,747,991, 7-24-73, Cl. 303-21.00f.
Ritsema, Riving R., to Bendix Corporation, The. Wheel speed sensors for vehicle adaptive braking systems. 3,719,841, 3-6-73, Cl. 310-155.000.
Ritt Laboratories, Inc.: *See—*
Clark, John E., 3,731,197.
Rittel, Werner: *See—*
Riniker, Bernhard; and Rittel, Werner, 3,755,286.
Tesser, Godefridus Ignatius; and Rittel, Werner, 3,770,715.
Rittenbach, Otto E., to United States of America, Army. Operating proximate radars with interlaced spectral lines. 3,731,310, 5-1-73, Cl. 343-17.10r.
Ritter, Adolf; and Walser, Karl, to Hilti Aktiengesellschaft. Method of securing anchoring members in high-strength steel. 3,742,591, 7-3-73, Cl. 29-525.000.
Ritter, Edmond Jean: *See—*
Kelly, Ralph; and Ritter, Edmond Jean, 3,769,242.
Ritter, Ernst: *See—*
Staudt, Heinrich; and Ritter, Ernst, 3,759,236.
Ritter, George F., Jr.; and King, Roger P., to Libbey-Owens-Ford Company. Textured conveyor roll and method of finishing the same. 3,723,083, 3-27-73, Cl. 65-119.000.
Ritter, George F., Jr., to Libbey-Owens-Ford Company. Producing bent tempered glass sheets. 3,734,706, 5-22-73, Cl. 65-104.000.
Ritter, George F., Jr., to Libbey-Owens-Ford Company. Apparatus for conveying and heat treating hot glass with a roller conveyor. 3,775,087, 11-27-73, Cl. 65-348.000.
Ritter, Gerhard: *See—*
Ritter, Josef; Boyer, Wilhelm; Ritter, Gerhard; and Ritter, Klaus, 3,727,038.
Ritter, Klaus; Gott, Hans; Ritter, Josef; and Ritter, Gerhard, 3,708,646.
Ritter, Klaus; Gott, Hans; Ritter, Gerhard; and Ritter, Josef, 3,731,042.
Ritter, Klaus; Ritter, Josef; Ritter, Gerhard; and Hans, Gott, 3,734,383.
Ritter, Helmut, to Heberlein Patent Corporation. Transfer tail traction mechanism. 3,717,310, 2-20-73, Cl. 242-18.00a.
Ritter, Henry, to Avco Corporation. Mobile passenger loading lounge for aircraft. 3,779,596, 12-18-73, Cl. 296-28.0al.
Ritter, Herman O.; and Weber, Karl, to Singer Company, The, mesne. Even feeding attachment for sewing machines. 3,730,117, 5-1-73, Cl. 112-212.000.
Ritter, John A.: *See—*
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Ritter, Josef: *See—*
Ritter, Klaus; Gott, Hans; Ritter, Josef; and Ritter, Gerhard, 3,708,646.
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Ritter, Klaus; Ritter, Josef; Ritter, Gerhard; and Hans, Gott, 3,734,383.
Ritter, Josef; and Gott, Hans, to EVG Entwicklungs- und Verwertungsgesellschaft m.b.H. Multiple spot welding machines. 3,725,632, 4-3-73, Cl. 219-116.000.
Ritter, Josef; Boyer, Wilhelm; Ritter, Gerhard; and Ritter, Klaus, to EVG Entwicklungs-und Verwerlungsgesellschaft m.b.H. Apparatus for manufacturing welded wire mesh mats for reinforcing concrete. 3,727,038, 4-10-73, Cl. 235-151.100.
Ritter, Klaus: *See—*
Ritter, Josef; Boyer, Wilhelm; Ritter, Gerhard; and Ritter, Klaus, 3,727,038.
Schmidt, Gerhard; Ritter, Klaus; and Gott, Hans, 3,760,851.



Ritter, Klaus; Gott, Hans; Ritter, Josef; and Ritter, Gerhard, to EVG Ritterfeld, Gerhard, Print plate attachment

Ritter, Klaus; Gott, Hans; Ritter, Josef; and Ritter, Gerhard, to EVG Entwicklungs- und Verwertungsgesellschaft m.b.H. Electric resistance welding machine. 3,708,646, 1-2-73, Cl. 219-56.000.
Ritter, Klaus; Gott, Hans; Ritter, Gerhard; and Ritter, Josef, to EVG Entwicklungs- und Verwertungsgesellschaft m.b.H. Welding machine for manufacture of wire mesh. 3,731,042, 5-1-73, Cl. 219-56.000.
Ritter, Klaus; Ritter, Josef; Ritter, Gerhard; and Hans, Gott, to EVG Entwicklungs- und Verwertungsgesellschaft m.b.H., Firma. Apparatus for manufacturing welded wire mesh by friction welding. 3,734,383, 5-22-73, Cl. 228-2.000.
Ritter, Klaus; Gott, Hans; and Zechner, Gottfried, to EVG Entwicklungs- und Verwertungsgesellschaft m.b.H. Machine for straightening and cutting metal wire or strip into pieces. 3,757,552, 9-11-73, Cl. 72-12.000.
Ritter, Orville A. Close coupled pulling hitch assembly. 3,738,682, 6-12-73, Cl. 280-413.000.
Ritter, Reinhold: *See—*
Ziebarth, Paul E.; and Ritter, Reinhold, 3,723,284.
Ritter, Ronald E.: *See—*
Hutson, Thomas, Jr.; and Ritter, Ronald E., 3,709,951.
Ritter, Thomas E., to General Motors Corporation. Vehicle suspension system. 3,717,354, 2-20-73, Cl. 280-124.00a.
Ritter, Wolfgang: *See—*
Bockmann, August; Trenczek, Gerhard; Rudolph, Hans; Wiegreffe, Wolfgang; and Ritter, Wolfgang, 3,778,289.
Ritterman, Paul F.: *See—*
Seiger, Harvey N.; and Ritterman, Paul F., 3,769,088.
Rittersdorf, Walter; Rey, Hans-Georg; and Rieckmann, Peter, to Boehringer Mannheim Gesellschaft mit beschrankter Haftung. Diagnostic agent for the detection of nitrite and of nitrite-forming bacteria. 3,712,853, 1-23-73, Cl. 195-103.50r.
Rittershausen, Gunther: *See—*
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Rittiger, Robert S.; and Russell, Charles K., to United States Steel Corporation. Apparatus for oxygen determination. 3,758,397, 9-11-73, Cl. 204-195.00s.
Rittiger, Robert S.; and Russell, Charles K., to United States Steel Corporation. Oxygen sensors. 3,772,177, 11-13-73, Cl. 204-195.00s.
Rittler, Alfred J.; Fantuzzo, Joseph; and Williams, Raymond G., to Xerox Corporation. Donor for touchdown development. 3,739,748, 6-19-73, Cl. 118-637.000.
Rittler, Alfred J.; and Wilmer, Michael E., to Xerox Corporation. Electrographic recording system. 3,765,026, 10-9-73, Cl. 346-74.0es.
Rittler, Hermann L.: *See—*
Beall, George H.; and Rittler, Hermann L., 3,723,140.
Beall, George H.; and Rittler, Hermann L., 3,726,695.
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Rittmannsberger, Norbert: *See—*
Scholl, Hermann; Mauch, Harald; Glockler, Otto; Rittmannsberger, Norbert; Reichardt, Wolfgang; Werner, Peter; and Drews, Ulrich, 3,750,631.
Rittmayer, Gerhard: *See—*
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Rittner, Siegbert: *See—*
Kuhne, Rudolf; Diery, Helmut; and Rittner, Siegbert, 3,715,319.
Kuhne, Rudolf; Diery, Helmut; and Rittner, Siegbert, 3,748,278.
Ritz, Hermann; Gorlitz, Hans; and Jendis, Anneliese, to Siemens & Halske Aktiengesellschaft. Circuit arrangement for attenuation compensation in telecommunication subscriber stations. 3,748,400, 7-24-73, Cl. 179-81.00b.
Ritz, Rudolf, to Gesellschaft fur Kernforschung m.b.H. Method of operating a nuclear reactor facility with a steam cooled fast breeder reactor as the heat source. 3,715,272, 2-6-73, Cl. 176-60.000.
Ritze, Willi, to Jenaer Glaswerk Schott & Gen. Steep-edge absorption filter. 3,754,816, 8-28-73, Cl. 350-311.000.
Ritze, Willy: *See—*
Faulstich, Marga; and Ritze, Willy, 3,740,242.
Ritze, Willy, to Jenaer Glaswerk Shott & Gen. Optical glasses comprising alf having a varying partial dispersion. 3,716,385, 2-13-73, Cl. 106-47.00q.
Ritzen, Johannes Maria Jozef; and Peloschek, Hans Peter, to U.S. Philips Corporation. Method of manufacturing magnet cores and magnet cores manufactured by the same. 3,709,822, 1-9-73, Cl. 252-62.600.
Ritzen, Servatius L., to Telesco Brophey, Limited. Anti-pilferage umbrella stand. 3,768,662, 10-30-73, Cl. 211-4.000.
Ritzenhoff, Hermann, to Gebruder Seidel KG, Metallwarenfabrik. Metal tear-off cap. 3,771,684, 11-13-73, Cl. 215-46.00a.
Ritzenthaler, Richard L.: *See—*
Cole, George S.; Ritzenthaler, Richard L.; and Arnold, Don C., 3,738,389.
Cole, George S.; and Ritzenthaler, Richard L., 3,774,643.
Ritzerfeld, Gerhard. Print wheel setting arrangement in duplicating print drums with punch control means. 3,738,261, 6-12-73, Cl. 101-91.000.
Ritzerfeld, Gerhard. Copying apparatus with different radiation sources. 3,749,490, 7-31-73, Cl. 355-89.000.
Ritzerfeld, Gerhard. Selective printing apparatus with an activated master. 3,760,725, 9-25-73, Cl. 101-471.000.
Ritzerfeld, Gerhard. Moistening apparatus and method for duplicator sheets. 3,776,133, 12-4-73, Cl. 101-147.000.
Ritzeri, Gerhard: *See—*
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Ritzmann, Horst; and Kruger, Wilfried, to Polysius AG. Process for heat treatment of fine granular material. 3,716,095, 2-13-73, Cl. 165-1.000.
Ritzmann, Horst, to Polysius AG. Apparatus for firing or sintering fine material. 3,744,962, 7-10-73, Cl. 432-58.000.
RIV-SKF Officine di Villar Perosa S.p.A.: *See—*
Bertone, Pier Felice; Golzio, Pier Giorgio; and Vrola, Vincenzo, 3,745,815.
Brambilla, Guido; and Fogliacco, Vittorio, 3,729,101.
Camosso, Domenico, 3,770,305.
Camosso, Dominico, 3,729,239.
Claesson, Georg; and Battini, Renato, 3,727,896.
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McLean, Robert E.; and Farkas, Joseph J., 3,722,089.
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Rivarossi S.p.A.: *See—*
Rossi, Alessandro, 3,722,131.
Rossi, Alessandro, 3,767,114.
Rivas, Dayton F. Dual replaceable holesaw bit. 3,778,179, 12-11-73, Cl. 408-206.000.
Rivat-Lahousse, Andre, to Saint-Gobain. Apparatus for the production of shaped articles of expanded cohered granules of thermoplastic material, in particular polystyrene. 3,709,651, 1-9-73, Cl. 425-4.000.
Rivelle, George R. Automatic toilet flushing system. 3,780,384, 12-25-73, Cl. 4-41.000.
Rively, Clair M.: *See—*
Petro, James; and Rively, Clair M., 3,725,720.
Petro, James; and Rively, Clair M., 3,778,664.
Rively, Clair M.; and Petro, James, to Westinghouse Electric Corporation. Method and apparatus for manufacturing beaded filament-coil components for electric lamps. 3,729,787, 5-1-73, Cl. 29-25.180.
Rively, Clair M.; and Petro, James, to Westinghouse Electric Corporation. Apparatus for sculpturing an indicia or decorative design in the surface of an article with a beam of corpuscular energy. 3,770,936, 11-6-73, Cl. 219-121.01a.
Rivenaes, Ivar: *See—*
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Rivenes, Arnold S. Retarded glide bomb. 3,724,373, 4-3-73, Cl. 102-4.000.
River, Charles Foundation: *See—*
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Rivere, Jean-Pierre, to Regie Nationale des Usines Renault and Automobiles Peugeot. Ignition timing devices for internal combustion engines. 3,722,486, 3-27-73, Cl. 123-117.00a.
Rivere, Jean-Pierre, to Regie Nationale des Usines Renault and Automobiles Peugeot. Methods of measuring instantaneous mean pressures in fluid media. 3,780,587, 12-25-73, Cl. 73-398.00r.
Rivers, Alfred James, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Rocket assisted ejection seats. 3,740,005, 6-19-73, Cl. 244-122.0ad.
Rivers, Richard D., to American Air Filter Company, Inc. Carbon filter leak detector. 3,765,225, 10-16-73, Cl. 73-40.700.
Riviere, Eugene; Vilarel, Danyele Yevette; Debrie, Roger Lucien; and Loiseau, Gerard Paul Marie Henri, to Ugine Kuhlmann. Certain 8-hydroxyquinolines as amoebicides. 3,769,409, 10-30-73, Cl. 424-245.000.
Rivin, Arnold A.: *See—*
Nolan, John L.; Rivin, Arnold A.; and Johnson, Bremen I., 3,779,247.
Rivin, Ervin Mikhailovich: *See—*
Anikeev, Konstantin M.; Babitsky, Boris Davidovich; Verblovsky, Alexei Matveevich; Kozhenets, Tamara Nikolaevna; Kormer, Vitaly Abramovich; Lobach, Mark Iosifovich; Markova, Viktoria Vladimirovna; and Rivin, Ervin Mikhailovich, 3,780,078.
Rivinius, Theodore. Hydraulic control system for road graders. 3,759,333, 9-18-73, Cl. 172-781.000.
Rivlin, Charles A.: *See—*
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Rivman, Samuel Joseph, to Grace, W. R., & Co. Re-usable handle bag. 3,722,785, 3-27-73, Cl. 229-54.00r.
Rivoir, Karl Heinz. Means for the resilient securing of tooth substitutes. 3,722,094, 3-27-73, Cl. 32-2.000.
Rivolier, Charles, to Societe Anonyme D.B.A. Steering mechanism for a road vehicle. 3,734,228, 5-22-73, Cl. 180-82.00r.
Rivtac Blindnieten, A.G.: *See—*
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Rix, Albert; Werner, Georg; and Fuchs, Hans, to Olympia Werke AG. Apparatus for postponing and storing key controlled functions of a typewriter. 3,715,022, 2-6-73, Cl. 197-98.000.
Rix, Albert; Werner, Georg; and Fuchs, Hans, to Olympia Werke AG. Adjustable blocking means for typing and printing mechanisms. 3,727,742, 4-17-73, Cl. 197-107.000.
Rix, Albert; Werner, Georg; and Euchs, Hans, to Olympia Werke AG. Apparatus for the control of type printing sequences. 3,759,360, 9-18-73, Cl. 197-17.000.
Rix, Albert; Werner, Georg; and Euchs, Hans, to Olympia Werke AG. Type action drive. 3,777,869, 12-11-73, Cl. 197-17.000.
Rixen, Bruno. Apparatus and technique for moving objects particularly useful in water skiing. 3,743,278, 7-3-73, Cl. 272-32.000.
Rixon Inc.: *See—*
Stuart, Richard L., 3,746,800.
Rixson Inc.: *See—*
Coulter, Gordon L.; and Pearsall, Duane D., 3,777,423.
Rixson-Firemark, Inc.: *See—*
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Roberts, Frank D., 3,752,208.
Riza, Warren D. Motor driven golf cart. 3,777,836, 12-11-73, Cl. 180-260.000.
Rizza, Michael C.; and Brown, Delmont D., to Brown, D. S., Company, The. Modular expansion joint. 3,732,021, 5-8-73, Cl. 404-51.000.
Rizzer, Alexander J., to Cities Service Company. Process of sealing joints with sealant composition. 3,759,780, 9-18-73, Cl. 156-335.000.
Rizzi, George P., to Procter & Gamble Company, The. Dihydrochalcone sweetening agents. 3,739,064, 6-12-73, Cl. 424-49.000.
Rizzi, George P.; and Neely, James S., to Procter & Gamble Company, The. Sweetening compositions containing aglyconic dihydrochalcones. 3,743,716, 7-3-73, Cl. 424-49.000.
Rizzi, George P., to Procter & Gamble Company, The. Sugar compositions containing aglyconic dihydrochalcones. 3,751,270, 8-7-73, Cl. 99-141.00a.
Rizzi, Joseph D.; and Fagan, Lloyd D., to Intersil Incorporated, mesne. Double junction read only memory and process of manufacture. 3,733,690, 5-22-73, Cl. 29-577.000.
Rizzi, Joseph D.; and Fagan, Lloyd D., to Intersil Incorporated, mesne. Electrically alterable integrated circuit read only memory unit and process of manufacturing. 3,742,592, 7-3-73, Cl. 29-574.000.
Rizzi, Luigi, & Co., S.p.A.: *See—*
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Rizzi, Marc A.; and Cutarelli, James, to USM Corporation. Mixing and transporting device and method of mixing and transporting. 3,746,315, 7-17-73, Cl. 259-21.000.
Rizzi, Marc A.; Hold, Peter; D'Amato, Dominic A.; and Ramazzotti, Dario J., to USM Corporation. Apparatus for injecting molding reinforced plastic articles. 3,746,489, 7-17-73, Cl. 425-205.000.
Rizzi, Peter A., to Alpha Industries, Inc. Filter-type digital diode phase shifter. 3,778,733, 12-11-73, Cl. 333-31.00r.
Rizzo, Angelo: *See—*
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Rizzo, Anthony A.: *See—*
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Rizzo, Charles P.: *See—*
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Rizzo, Pantaleone L. Folding motorcycle or the like. 3,710,883, 1-16-73, Cl. 180-33.000.
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Rjumshina, Nadezhda Vasilievna; Vasiliev, Gennady Fedorovich; and Vozlinsky, Georgy Markovich. Article with a multicolored surface decoration thereon produced by light interference effects. 3,775,263, 11-27-73, Cl. 204-18.00r.
RKL Controls, Inc.: *See—*
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RMI Company: *See—*
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Ro, Rolland Shih-Yuan: *See—*
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Auberry, Horace R., 3,739,502.
Auberry, Horace R.; and Liebscher, Anton, 3,742,544.
Auberry, Horace R.; and Liebscher, Anton, 3,755,928.
Auberry, Horace Ray; and Liebscher, Anton I., 3,758,903.
Roach, Anthony, to Eltra Corporation. Forming tank for lead-acid battery plates. 3,754,994, 8-28-73, Cl. 136-34.000.
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Roach, Robert F.: *See—*
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Roach, Robert Joseph, to Canadian Industries Limited. Borehole charging apparatus. 3,774,496, 11-27-73, Cl. 86-20.00c.
Roach, William F., to Kingsley Dryer Corporation. Textile treatment apparatus. 3,769,817, 11-6-73, Cl. 68-5.00d.
Roach, William J., to Oxford Laboratories. Disassembleable valve and liquid dispensing device. 3,729,022, 4-24-73, Cl. 137-533.150.
Roach, William J., to Oxford Laboratories. Motorized liquid dispenser with an accurate dispensing volume adjustment. 3,770,169, 11-6-73, Cl. 222-309.000.
Roadstrum, William H. Electrical coil. 3,717,835, 2-20-73, Cl. 336-84.000.
Roamer Watch Co. S.A.: *See—*
Visconti, Gerald; and Muller, Theo, 3,771,308.
Roark, Glenn L. Multiple torque tube system for variable view mirrors. 3,771,854, 11-13-73, Cl. 350-304.000.
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Mason, Richard K.; and Roark, John M., 3,772,889.
Roatcap, Daniel A.: *See—*
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Robaczek, Edward, to Mako Apparatebau Fritze Brede. Type wheel setting and locking means and print actuating means in selective printers. 3,747,517, 7-24-73, Cl. 101-93.00r.
Robalex Inc.: *See—*
Bemiss, Robert P., 3,715,853.
Bemiss, Robert P.; and Donald, Alexander, 3,716,180.
Bemiss, Robert P., 3,756,495.
Bemiss, Robert P., 3,779,447.
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Robaszkiewicz, Gerald D.: *See—*
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Robaszkiewicz, Gerald D., to Reliance Electric Company. Multiple digital comparator. 3,731,765, 5-8-73, Cl. 187-29.00r.
Robaszkilwicz, Gerald D., to Reliance Electric Company. Elevator control for optimizing allotment of individual hall calls to individual cars. 3,739,880, 6-19-73, Cl. 187-29.00r.
Robatel S.L.P.I.: *See—*
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Bochard, Camille, 3,780,309.
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Robb, David L.: *See—*
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Robb, Derek John Mac Donald; and Samuel, John Raymond, to Lever Brothers Company. Detergent composition. 3,759,846, 9-18-73, Cl. 252-527.000.
Robb, Ronald Robert: *See—*
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Robba, Max Fernand; Marcy, Rene Henri Pierre; and Duval, Denise Jeanne Claude, to Innothera. Quinazoline derivatives. 3,772,295, 11-13-73, Cl. 260-256.50r.
Robbiati, Dante. Metallic laminate. 3,712,849, 1-23-73, Cl. 161-218.000.
Robbiati, Danti. Apparatus and a method for preparing a composite laminated sheet. 3,769,138, 10-30-73, Cl. 156-310.000.
Robbin Company, The: *See—*
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Robbins, Daniel H.: *See—*
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Robbins, Daniel T. Envelope opening machine. 3,726,454, 4-10-73, Cl. 225-99.000.

Robbins, Dewey H.: *See—*
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Robbins, Dwight M.: *See—*
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Robbins, Frederick E.: *See—*
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Robbins, Harold. Motorcycle to towing vehicle hitch. 3,713,672, 1-30-73, Cl. 280-292.000.

Robbins, Harry, to Bell & Howell Company. Iron containing ferromagnetic chromium oxide. 3,778,373, 12-11-73, Cl. 252-62.560.

Robbins Incubator Co.: *See—*
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Robbins, Jack W. Clarinet. 3,747,460, 7-24-73, Cl. 84-382.000.

Robbins, James F., to Sybron Corporation. Coupling and/or joining lined pipe. 3,722,925, 3-27-73, Cl. 285-55.000.

Robbins, James F., to Sybron Corporation. Diaphragm valve. 3,727,623, 4-17-73, Cl. 137-1.000.

Robbins, John D.; and Wanner, Louis R., to GTE Sylvania Incorporated. Tri-color cathode ray tube employing a shadow mask having elongated apertures. 3,777,204, 12-4-73, Cl. 313-85.00s.

Robbins, Kenneth W.: *See—*
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Robbins, Nathaniel, Jr., to Honeywell Inc. Thermostat with thermally isolated switch means. 3,761,737, 9-25-73, Cl. 307-117.000.

Robbins, Robert; and Boswell, Benjamin C., Jr., to United States of America, Army, mesne. Direct production of beta-HMX. 3,770,721, 11-6-73, Cl. 260-239.0hm.

Robbins, Robert P.; and Thys, Thierry, to FMC Corporation. Water spray ring for citrus fruit processing apparatus. 3,717,084, 2-20-73, Cl. 146-3.00r.

Robbins, Samuel B.; and Yoshida, Yoshitaka, to General Motors Corporation. Vehicle seat occupant sensor. 3,727,181, 4-10-73, Cl. 340-52.00e.

Robbins, William Paul; and Bullock, Clifford R. Plastic zipper/closure for flexible containers. 3,722,039, 3-27-73, Cl. 24-201.00c.

Robblee, Alexander R.: *See—*
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Robe, Harlan Karl, Jr. Squeeze dispenser for flexible packages. 3,768,699, 10-30-73, Cl. 222-103.000.

Roberg, Kurt W.; and Marotti, Ernest F., to Grace, W. R., & Co. Cassette album container. 3,743,081, 7-3-73, Cl. 206-1.00r.

Roberk Company, The: *See—*
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Roberson, Donald Keith, to Motorola, Inc. Hermetically sealed semiconductor package and method of manufacture. 3,748,543, 7-24-73, Cl. 317-234.00r.

Roberson, Elbert Belmont, Jr., to Du Pont de Nemours, E. I., and Company. Multi-end knit-deknit process. 3,720,984, 3-20-73, Cl. 28-72.160.

Roberson, Richard E.; and Roberson, Richard E., Jr. Slab and cant mill. 3,779,117, 12-18-73, Cl. 83-404.004.

Roberson, Richard E., Jr.: *See—*
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Robert, Michel, to Carnaud, J. J., & Forges de Basse-Indre, S.A. Container spout and pouring nozzle. 3,752,369, 8-14-73, Cl. 222-481.000.

Robert, Pierre: *See—*
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Robert, Ramon Casas, to Mefina S.A. Sewing machine presser foot. 3,734,041, 5-22-73, Cl. 112-212.000.

Roberto, Francisco Q., to United States of America, Air Force. Ionic interhalogen oxidizing agent and method. 3,709,748, 1-9-73, Cl. 149-109.000.

Roberts, Benjamin W., Jr. Process for making carbon fiber. 3,764,662, 10-9-73, Cl. 423-447.000.

Roberts, Bernard J.: *See—*
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Roberts, Bissett J. Vehicle ambulance. 3,773,198, 11-20-72, Cl. 214-505.000.

Roberts, Bruce W.: *See—*
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Roberts, Carroll R.; Glidden, Ramon L.; and Molly, Patrick C., to Avco Corporation. Shock testing machine. 3,739,625, 6-19-73, Cl. 73-12.000.

Roberts, Cecil P.; and Ochs, Charles S., to Anchor Hocking Corporation. High speed rotary container sealing machine with inclined sealing heads. 3,714,760, 2-6-73, Cl. 53-112.00r.

Roberts, Cecil P., to Anchor Hocking Corporation. Roller sealing means for sealing containers with closure caps. 3,775,944, 12-4-73, Cl. 53-334.000.

Roberts, Charles W.: *See—*
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Roberts, Conrad L. Saw guide for cutting wedges. 3,717,063, 2-20-73, Cl. 83-477.200.

Roberts Dairy Company: *See—*
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Roberts, Daniel M.: *See—*
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Roberts, David Anthony: *See—*
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Roberts, David C., to International Business Machines Corporation. Line finding system and method for character recognition. 3,725,862, 4-3-73, Cl. 340-146.30h.

Roberts, Derek Aubrey, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Seals. 3,729,139, 4-24-73, Cl. 239-127.300.

Roberts, Donald B. Infusion guard and immobilizer. 3,722,508, 3-27-73, Cl. 128-133.000.

Roberts, Donald L., to Goodyear Tire & Rubber Company, The. Pneumatic tire including belt cables. 3,708,007, 1-2-73, Cl. 152-361.000.

Roberts, Donald L., to Reynolds, R. J., Tobacco Company. Preparation of hydroperoxides. 3,751,477, 8-7-73, Cl. 260-586.00b.

Roberts, Donald L.; and Hege, Bonita P., to Reynolds, R. J., Tobacco Company. 1,3,3-Trimethyl-7-oxabicyclo[4.1.0] heptane-2,5-dione. 3,775,437, 11-27-73, Cl. 260-348.00c.

Roberts, Donald L., to Reynolds, R. J., Tobacco Company. Tobacco product. 3,780,743, 12-25-73, Cl. 131-17.000.

Roberts, Donald Lee; and George, David John, to Control Data Corporation, mesne. Light apparatus for testing surfaces. 3,734,626, 5-22-73, Cl. 356-120.000.

Roberts, Dorward T., Jr.; Kay, Edward L.; Calihan, Lawrence E.; and Wakefield, Lynn B., to Firestone Tire & Rubber Company, The. Synthesis of 1,2-butadiene. 3,755,489, 8-28-73, Cl. 260-680.00r.

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Roberts, Earl J.; Wade, Clinton P.; and Rowland, Stanley P., to United States of America, Agriculture. Pad-cure process for the preparation of DEAE-cotton. 3,756,777, 9-4-73, Cl. 8-188.000.

Roberts, Earl W., to Woodhead, Daniel, Inc. Lamp capsule. 3,757,102, 9-4-73, Cl. 240-2.00r.

Roberts, Edward H., to General Electric Company. Handle assembly. 3,766,598, 10-23-73, Cl. 16-125.000.

Roberts, Edward R.: *See—*
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Roberts, Edward S., to Treadwell Corporation. Kiln seal. 3,724,887, 4-3-73, Cl. 263-33.00r.

Roberts, Edward S., to Treadwell Corporation. Method and apparatus for extruding metal powder to produce a continuous rod. 3,757,410, 9-11-73, Cl. 29-420.500.

Roberts, Edward S.; and Tuwiner, Sidney B., to Treadwell Corporation. $SO_2$ recovery and conversion to elemental sulfur. 3,773,900, 11-20-73, Cl. 423-356.000.





Roberts, Elwyn: *See—*
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Roberts, Evan D. Self-righting instrument cap device. 3,712,749, 1-23-73, Cl. 401-202.000.

Roberts, Foy F., to Pfizer Inc. Fermentation process for the production of citric acid. 3,717,549, 2-20-73, Cl. 195-37.000.

Roberts, Francis D.; and Norfleet, James, to Colgate-Palmolive Company. Speckled dentrifrice gel. 3,728,446, 4-17-73, Cl. 424-49.000.

Roberts, Frank A., mesne: *See—*
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Roberts, Frank B., to Victor Products (Wallsend) Limited. Lamp circuits. 3,781,594, 12-25-73, Cl. 315-98.000.

Roberts, Frank D.: *See—*
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Roberts, Frank D., to Rixson-Firemark Inc. Closure operator. 3,752,208, 8-14-73, Cl. 160-1.000.

Roberts, Frank D., to SCR Corporation. Self-cleaning rest room. 3,755,826, 9-4-73, Cl. 4-1.000.

Roberts, Franklin B.; and Groom, James S., to Package Machinery Company. Web feed mechanism for wrapping machines. 3,721,375, 3-20-73, Cl. 225-96.000.

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Roberts, George C.; and Datson, Donald A., to Monogram Industries, Inc. Waste incineration system. 3,741,134, 6-26-73, Cl. 110-8.00r.

Roberts, George Leathwhite, Jr.: *See—*
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Roberts, George Leathwhite, Jr.; and Rowland, John David, to American Cyanamid Company. Rutile T 102 slurries. 3,758,322, 9-11-73, Cl. 106-300.000.

Roberts, George Wavell, to Gravoki Systems Limited. Fluid pressure devices. 3,730,652, 5-1-73, Cl. 417-568.000.

Roberts, Harold D., to E-Systems, Inc., mesne. Ultrasonic welding apparatus. 3,717,539, 2-20-73, Cl. 156-498.000.

Roberts, Harold Devere. Permanent support frame for upper jaw denture and method of mounting the same. 3,739,476, 6-19-73, Cl. 32-10.00a.

Roberts, Harold Devere. Denture support frame with ramus implant for molar area of lower jaw. 3,777,402, 12-11-73, Cl. 32-10.00a.

Roberts, Harry W., to Pylon Manufacturing Corporation. Windshield wiper. 3,707,741, 1-2-73, Cl. 15-250.420.

Roberts, Heinz Theodore Felix. Combination credit card. 3,713,235, 1-30-73, Cl. 40-2.200.

Roberts, Henry J.; Thurston, James R.; and Dinsdale, Vern Thomas, to United States of America, Air Force. Ignition system for a parachute flare. 3,736,877, 6-5-73, Cl. 102-35.000.

Roberts, Henry J.; and Davis, Willard F., to Thiokol Chemical Corporation. Release connector for a riser of a parachute flare. 3,752,077, 8-14-73, Cl. 102-35.000.

Roberts, James C. Planter pot sprinkler unit. 3,758,986, 9-18-73, Cl. 47-38.000.

Roberts, James C., Jr.; and Nelson, Hersey B., to Combustion Engineering, Inc. Method of erection of horizontal surfaced heat transfer modules for steam generating units. 3,751,783, 8-14-73, Cl. 29-157.400.

Roberts, Jerome A.: *See—*
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Roberts, John A.: *See—*
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Roberts, John A.; Roberts, Peter R.; King, Alwyn H.; and Danzey, Lee B., to Brunswick Corporation. Method of forming collimated hole structure. 3,713,202, 1-30-73, Cl. 29-423.000.

Roberts, John A.; Roberts, Peter R.; and Danzey, Lee B., to Brunswick Corporation. Orifice structure. 3,730,227, 5-1-73, Cl. 138-160.000.

Roberts, John A.; and Roberts, Peter R., to Brunswick Corporation. Passage structure. 3,737,367, 6-5-73, Cl. 161-109.000.

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Roberts, John G.; Weber, Jack; and Margherio, Secondino P., to North American Rockwell Corporation. Horizontally butt fusion tube welding. 3,754,115, 8-21-73, Cl. 219-125.00r.

Roberts, John T., to Grace, W. R., & Co. Bag packaging system. 3,721,062, 3-20-73, Cl. 53-385.000.

Roberts, John T.; and Reid, Philip L., to Grace, W. R., & Co. Capping system. 3,727,288, 4-17-73, Cl. 29-211.00d.

Roberts, John T., to Grace, W. R., & Co. Bag packaging system. 3,727,372, 4-17-73, Cl. 53-59.00w.

Roberts, Kent S.: *See—*
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Roberts, Leonard N. Method of fracturing a formation using a liquid explosive. 3,747,679, 7-24-73, Cl. 166-299.000.

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Roberts, Lincoln Edwin, to AMP Incorporated. Pre-loaded electric connector. 3,760,335, 9-18-73, Cl. 339-99.00r.

Roberts, Lisle H.: *See—*
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Roberts, Maurice; Harris, John Derek; Humpage, Roy William; and Crow, Geoffrey George, to Lucas, Joseph, (Industries) Limited. Battery plate coating apparatus. 3,747,560, 7-24-73, Cl. 118-57.000.

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Roberts, Minnie M. Rug frame. 3,753,273, 8-21-73, Cl. 28-15.000.

Roberts, Miron J.; and Runge, Heinz F., to Kraftco Corporation. Method and apparatus for making cheese. 3,765,090, 10-16-73, Cl. 426-38.000.

Roberts, Paul C., to United States of America, Navy. Fluid velocity indicator. 3,771,362, 11-13-73, Cl. 73-229.000.

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Roberts, Preston C., to Kajan Specialty Company, Inc. Hydraulic jarring mechanism. 3,729,058, 4-24-73, Cl. 175-297.000.

Roberts, Reginald F., Jr., to Dow Chemical Company, The. Process for cleaving dichloroisopropyl ether. 3,723,544, 3-27-73, Cl. 260-633.000.

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Roberts, Richard M.; and Jones, John Stephen. Electrophoretic apparatus. 3,719,580, 3-6-73, Cl. 204-299.000.

Roberts, Richard W., to Borg-Warner Corporation. Hydrostatic transmission mechanism. 3,735,646, 5-29-73, Cl. 74-687.000.

Roberts, Richard W., to Borg-Warner Corporation. Audio-visual apparatus. 3,751,150, 8-7-73, Cl. 353-7.000.

Roberts, Richard W., to Borg-Warner Corporation. Variable speed friction drive transmission. 3,752,000, 8-14-73, Cl. 74-190.500.

Roberts, Richard W., to Borg-Warner Corporation. Automotive air conditioning apparatus. 3,771,318, 11-13-73, Cl. 62-227.000.

Roberts, Richard W.; and Jernakoff, George, to General Electric Company. Instrument for guiding the blind in filling open-top vessels. 3,781,840, 12-25-73, Cl. 340-245.000.

Roberts, Robert; and Anderson, Roland Fitzhugh, to Du Pont de Nemours, E. I., and Company. Polytetrafluoroethylene filled and unfilled molding powders and their preparation. 3,766,133, 10-16-73, Cl. 260-41.00r.

Roberts, Robert E., to Under Sea Industries, Inc. Inflatable vest having a quick-release hose connection to supply tank. 3,747,140, 7-24-73, Cl. 9-319.000.

Roberts, Robert E.; and Zdinak, William D. Programmable toy vehicle. 3,780,470, 12-25-73, Cl. 46-213.000.

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Roberts, Thomas G.; Shatas, Romas A.; Meyer, Harry C., III; and Stettler, John D., to United States of America, Army. Laser assisted neutron generator. 3,766,004, 10-16-73, Cl. 176-1.000.
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Robertson, Eugene P. Safety connector. 3,740,700, 6-19-73, Cl. 339-206.00r.
Robertson, Frank Henry. Rotors for rotary winged aircraft. 3,756,743, 9-4-73, Cl. 416-108.000.
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Robertson, Jerry E.; Harrington, Joseph K.; and Kvam, Donald C., to Riker Laboratories, Inc., mesne. Substituted sulfonanilides in the treatment of inflammation. 3,758,688, 9-11-73, Cl. 424-321.000.
Robertson, Jerry E., to Riker Laboratories, Inc. Fluoromethanesulfonic acid derivatives. 3,759,993, 9-18-73, Cl. 260-556.00a.
Robertson, John A.: *See—*
Lyon, Richard H.; and Robertson, John A., 3,739,393.
Robertson, John A., to Mead Corporation, The. Method and apparatus for aerodynamic switching. 3,709,432, 1-9-73, Cl. 239-4.000.
Robertson, John A., to Mead Corporation, The. Phase control for a drop generating and charging system. 3,761,941, 9-25-73, Cl. 346-1.000.
Robertson, John H.: *See—*
Chadwick, Ray F.; and Robertson, John H., 3,730,040.
Robertson, John K.: *See—*
Audesse, Emery G.; Tartakoff, Alexander; and Robertson, John K., 3,715,232.
Robertson, Kenneth P. Burgler proof gun apparatus. 3,762,789, 10-2-73, Cl. 312-305.000.
Robertson, Odes B.: *See—*
Slater, William L.; and Robertson, Odes B., 3,749,377.
Robertson, P. L., Manufacturing Company, Limited: *See—*
Dreger, Geoffrey, 3,748,949.
Robertson Paper Box Company, Inc.: *See—*
Hackenberg, Robert A., 3,777,883.
Tyrseck, Walter, 3,773,246.
Robertson, Peter Struan: *See—*
Bysouth, Raymond; and Robertson, Peter Struan, 3,763,769.
Robertson, Peter Struan; and Bysouth, Raymond, to New Zealand Dairy Research Institute. Cheese vats. 3,733,702, 5-22-73, Cl. 99-462.000.
Robertson, Raymond A.: *See—*
Lehrer, Stanley; Robertson, Raymond A.; and Holme, John C., 3,737,856.
Robertson, Richard G., to Hytek International Corporation. Process and apparatus for destroying hexavalent chromium in solution. 3,716,485, 2-13-73, Cl. 210-50.000.
Robertson, Robert H. Interior assembly for a pickup camper. 3,751,103, 8-7-73, Cl. 296-23.00r.
Robertson, Robert L.; and Kasubick, Robert V., to Pfizer Inc. Process for the preparation of quinoxaline-di-N-oxides. 3,767,657, 10-23-73, Cl. 260-250.00r.
Robertson, Robert S.: *See—*
Davis, Haggai; and Robertson, Robert S., 3,757,858.
Robertson Seals, Inc.: *See—*
Lingley, Ronald, 3,749,412.
Robertson, Thomas Kirkland, to Premium Publications Limited. Rotating pointer chance device. 3,756,605, 9-4-73, Cl. 273-141.00a.
Robertson, W. H., Company: *See—*
Curran, Bernard Edwin, 3,714,747.
Robertson, Walter W. Valve. 3,774,877, 11-27-73, Cl. 251-30.000.
Robertson, William D. Guided cafeteria high chair. 3,734,028, 5-22-73, Cl. 104-245.000.
Robertson, William Lauchlin. Snow cleat and track for tracked vehicle. 3,715,146, 2-6-73, Cl. 305-35.0eb.
Robertson, William Swan, to Simon-Hartley Limited. Aerators. 3,741,682, 6-26-73, Cl. 416-179.000.
Robeson, Lloyd Mahlon: *See—*
Barlow, Joel William; Azrak, Raymond George; and Robeson, Lloyd Mahlon, 3,708,454.
Robic, Gabriel: *See—*
Pariel, Jean Marie; and Robic, Gabriel, 3,757,706.
Robic, Gabriel, to Elf Union S.A. Emulsion burner. 3,765,609, 10-16-73, Cl. 239-405.000.
Robic Gabriel, to Elf Union S.A. Fuel burner. 3,771,727, 11-13-73, Cl. 239-417.300.
Robicheaux, Ronald J. Well servicing apparatus. 3,713,483, 1-30-73, Cl. 166-117.500.
Robicheaux, Thomas A.; and Ford, Clyde G., to International Paper Company. Barrier attachment for gas chromatograph. 3,721,065, 3-20-73, Cl. 55-67.000.
Robicheaux, Warren J.: *See—*
Henning, John L., Jr.; and Robicheaux, Warren J., 3,727,765.
Robie's Machineworks, Inc.: *See—*
Stearns, George H., 3,730,113.
Robiette, Alfred Gordon Evans, to Foseco International Limited. Electric arc stabilization in electric arc melting using carbon electrodes. 3,715,440, 2-6-73, Cl. 13-18.000.
Robillard, David R.: *See—*
Bonis, Scott A.; Salzer, Thomas E.; and Robillard, David R., 3,747,870.
Robillard, Edward G.: *See—*
Hahn, Robert S.; Lindsay, Richard P.; Robillard, Edward G.; and Youden, David H., 3,745,710.
Robillard, Edward G.; and Lizotte, Robert H., to Cincinnati Milacron-Heald Corporation. Grinding machine. 3,736,704, 6-5-73, Cl. 51-165.780.
Robillard, Edward G.; and Uhtenwoldt, Herbert R., to Cincinnati Milacron-Heald Corporation. Grinding machine. 3,739,528, 6-19-73, Cl. 51-5.000.
Robillard, Edward G.; and Uhtenwoldt, Herbert R., to Cincinnati Milacron-Heald Corporation. Wheel dulling sensing circuit. 3,760,539, 9-25-73, Cl. 51-165.00r.
Robin, Edward L. Battery terminal guard. 3,721,947, 3-20-73, Cl. 339-116.00r.
Robin, Jean: *See—*
Lefort, Marcel; and Robin, Jean, 3,711,442.
Robin, Maurice Henry, to Imperial Chemical Industries Limited, mesne. Process of injection molding a hinged article having foam cored members joined by an unfoamed hinge. 3,767,742, 10-23-73, Cl. 264-45.000.
Robin, Michael; and Schulte, Sheldon R., to Ashland Oil, Inc. 2,6-Bis-[(2-hydroxy-alkyl-phenyl) methyl]-4-amino-phenols. 3,728,391, 4-17-73, Cl. 260-570.00r.
Robin, Michael; and Schulte, Sheldon, to Ashland Oil, Inc. Triazine derivatives of bisphenols. 3,729,471, 4-24-73, Cl. 260-248.0cs.
Robin, Michael; and Schulte, Sheldon R., to Ashland Oil, Inc. Process of reacting a benzoic acid with amino alcohol. 3,758,547, 9-11-73, Cl. 260-472.000.
Robinair Manufacturing Corporation: *See—*
Pignataro, Tony, Jr., 3,714,959.
Robinder, Ronald C., to Zenith Radio Corporation. Method of screening a color picture tube. 3,726,678, 4-10-73, Cl. 96-36.100.
Robins, A. H., Company, Incorporated: *See—*
Chen, Ying-Ho; and Lunsford, Carl Dalton, 3,726,893.
Chen, Ying-Ho; and Lunsford, Carl Dalton, 3,777,031.
Duncan, Robert L.; and Boswell, Robert F., Jr., 3,726,898.
Greenberg, Jack; and Spiegel, Lawrence S., 3,745,023.
Helsley, Grover Cleveland; Lunsford, Carl D.; and Richman, John A., Jr., 3,732,247.
Helsley, Grover Cleveland, 3,743,645.
Helsley, Grover Cleveland, 3,745,162.
Lerner, Irwin S., 3,750,662.
Lerner, Irwin S., 3,756,228.
Lerner, Irwin S., 3,771,520.
Stroop, John Harry, 3,766,666.
Welstead, William John, Jr.; and Franko, Bernard V., 3,766,196.
Robins, Charles I., to McCord Corporation. Adhesive in capsule coated gasket. 3,740,062, 6-19-73, Cl. 277-235.00b.
Robins, Janis, to Ashland Oil, Inc. Foundry process and articles produced thereby. 3,726,867, 4-10-73, Cl. 260-30.40n.
Robins, Milton: *See—*
Karman, Harvey; Robins, Milton; and Wolf, Leo, 3,747,812.
Robins, Ronald F.: *See—*
Dobedoe, Thomas J. L.; Robins, Ronald F.; and Brookes, Frederick J., 3,748,639.
Robinsky, Eli I. Roll-up corrugated steel roofing sheet material. 3,732,656, 5-15-73, Cl. 52-108.000.
Robinson, Alan Thomas. Stringed musical instruments. 3,780,612, 12-25-73, Cl. 84-173.000.
Robinson, Albert Sidney; Loukes, David Gordon; and Lawrenson, Jack, to Pilkington Brothers Limited. Manufacture of wired glass or molten metal bath. 3,770,406, 11-6-73, Cl. 65-51.000.
Robinson, Alexander: *See—*
Beaulieu, Alexandre J.; Fortin, Roger; Johnson, Derwyn C.; and Robinson, Alexander, 3,725,735.
Robinson, Alfred G., to Eastman Kodak Company. Hexahydro-3,3,6,6-tetramethylfuro-(3,2-b)-furan-2, 5-dione and method of its preparation. 3,734,929, 5-22-73, Cl. 260-343.600.
Robinson, Alfred G.; Blood, Alden E.; and Hagemeyer, Hugh J., Jr., to Eastman Kodak Company. Triols by hydrogenation of bicyclic furodioxles. 3,760,011, 9-18-73, Cl. 260-635.00e.
Robinson, Alfred G., III: *See—*
Hagemeyer, Hugh J., Jr.; and Robinson, Alfred G., III, 3,742,063.
Robinson, Bernie E., to Milwaukee Valve Company, Inc. Throttle-shutoff valve. 3,767,164, 10-23-73, Cl. 251-122.000.
Robinson, Brian: *See—*
Dobinson, Bryan; Massey, Derek James Rowland; Winterbottom, Kenneth; and Robinson, Brian, 3,753,649.
Robinson, Burton H. Toilet tank flush valve assembly. 3,768,103, 10-30-73, Cl. 4-67.00a.
Robinson, Charles C.: *See—*
Shaw, Robert R.; and Robinson, Charles C., 3,714,059.
Snitzer, Elias; Robinson, Charles C.; and Woodcock, Richard F., 3,711,787.
Robinson, Charles C.; Graf, Robert E.; Young, Robert W.; and Sproul, Merrill F., to American Optical Corporation. Method for producing a Faraday rotation glass having a high verdet constant. 3,711,264, 1-16-73, Cl. 65-134.000.



Robinson, Charles C.; Shaw, Robert R.; and Fournier, Joseph T., to American Optical Corporation. Ytterbium glass laser with an out-
Robinson, John W.; and Whittington, Billy Joe, to Jasper Electronics Manufacturing Corporation, The. Chord playing organ. 3,725,560

Robinson, Charles C.; Shaw, Robert R.; and Fournier, Joseph T., to American Optical Corporation. Ytterbium glass laser with an output in the 1024 nanometers range. 3,727,150, 4-10-73, Cl. 331-94.500.

Robinson, Charles E. Fluidic circuit control for centering sanding belt on a belt sander. 3,745,717, 7-17-73, Cl. 51-135.0bt.

Robinson, Charles W.; Merklin, Kenneth E.; and Wood, William P., to Marcona Corporation. Liquid jet nozzle. 3,749,314, 7-31-73, Cl. 239-206.000.

Robinson, Dale D., to Beckman Instruments, Inc. Manually operated sample changing elevator and light sealing mechanism for scintillation counters and the like. 3,710,120, 1-9-73, Cl. 250-106.0sc.

Robinson, Daniel E.; and Rubinstein, Solomon, to General Cable Corporation. Wall receptacle with improved connector terminal construction. 3,725,841, 4-3-73, Cl. 339-14.00r.

Robinson, Daniel T., to Milwaukee Valve Company, Inc. Check valve. 3,744,751, 7-10-73, Cl. 251-276.000.

Robinson, David Everett. Tension control device. 3,749,136, 7-31-73, Cl. 139-109.000.

Robinson, David Peter: *See*—
Dolby, Ray Milton; and Robinson, David Peter, 3,737,678.

Robinson, David Peter; and Dolby, Ray Milton, to Dolby Laboratories Inc. Level setting in noise reduction systems. 3,760,102, 9-18-73, Cl. 179-1.00r.

Robinson, Derek Gilbert, to Imperial Chemical Industries, Limited. Imitation sheepskin fabric. 3,710,462, 1-16-73, Cl. 28-72.00p.

Robinson, Desmond Thomas: *See*—
Wright, Eric John; and Robinson, Desmond Thomas, 3,762,206.

Robinson, Douglas Burton, to Cutler-Hammer, Inc. Joy-stick operator for pushbutton switch. 3,715,933, 2-13-73, Cl. 74-471.0xy.

Robinson, E S & A Limited: *See*—
Gibbs, Gilbert Leslie; and Davies, Timothy Muir, 3,715,073.

Robinson, Edgar A., to Palmer Paint Products, Inc. Water color set and teaching aid. 3,777,414, 12-11-73, Cl. 35-28.500.

Robinson, Ernest B.; Ehrlich, Shelton; and Bishop, John W., to United States of America, Interior. Apparatus for burning sulfur containing fuels. 3,763,830, 10-9-73, Cl. 122-4.00d.

Robinson, Eugene A.; and Shipley, Roy E., to Collins Radio Company. RF microwave power amplifier and carrier. 3,733,525, 5-15-73, Cl. 317-234.00r.

Robinson, Eugene A., to Collins Radio Company. RF power amplifier. 3,764,932, 10-9-73, Cl. 330-30.00r.

Robinson, Eugene A., to Collins Radio Company. RF transistor carrier. 3,781,613, 12-25-73, Cl. 317-234.00r.

Robinson, Frank: *See*—
Betts, Max William; and Robinson, Frank, 3,777,511.
Flavell, John; Betts, Max William; and Robinson, Frank, 3,735,812.

Robinson, Fred: *See*—
Stecklen, Robert; and Robinson, Fred, 3,719,646.

Robinson, Gary E.; and Smith, Floyd O., to Esco Corporation. Kiln chain hanger. 3,738,797, 6-12-73, Cl. 432-118.000.

Robinson, Gerald P. Reciprocating handstamp with magnetic plate holding means for removing the plate. 3,714,894, 2-6-73, Cl. 101-382.0mv.

Robinson, Henry G., to Lamson & Sessions Co., The. Stackable dispenser container. 3,747,833, 7-24-73, Cl. 229-17.00r.

Robinson, Herbert N.: *See*—
De Grazio, Robert P.; and Robinson, Herbert N., 3,715,204.

Robinson, Hugh J., Jr. Water safety device for occupants of a submerged vehicle. 3,761,978, 10-2-73, Cl. 9-9.000.

Robinson, Isaac C. H.: *See*—
Strang, Aart; and Robinson, Isaac C. H., 3,753,670.

Robinson, Isaac C. H., to Shell Oil Company. Fuel composition. 3,756,793, 9-4-73, Cl. 44-62.000.

Robinson, James G. Aerial sign. 3,708,900, 1-9-73, Cl. 40-212.000.

Robinson, James J. Self feeding continuous forming device. 3,760,624, 9-25-73, Cl. 72-385.000.

Robinson, James M.; and Lyman, John B., to Whirlpool Corporation. Control apparatus for an ice maker. 3,769,809, 11-6-73, Cl. 62-137.000.

Robinson, James O. Beam antenna selectively oriented to vertical or horizontal position. 3,728,733, 4-17-73, Cl. 343-765.000.

Robinson, Joel P.: *See*—
Maly George P.; and Robinson, Joel P., 3,741,301.

Robinson, John D., 50% to Robinson, Rebecca P. Temporary trailer running gear. 3,726,538, 4-10-73, Cl. 280-81.00r.

Robinson, John Donald: *See*—
Williamson, Alexander; Robinson, John Donald; and Brass, James Richard, 3,768,550.

Robinson, John E.: *See*—
Drummond, Michael E.; and Robinson, John E., 3,720,354.

Robinson, John Joseph; and Hibbert, Frederick. Apparatus for forming and displaying words or numerals or a series of numerals and symbols. 3,757,433, 9-11-73, Cl. 35-75.000.

Robinson, John W.; Bookwalter, George N.; and Tuschhoff, John V., to Staley, A. E., Manufacturing Company. Starch thickener. 3,719,661, 3-6-73, Cl. 260-233.30r.

Robinson, John W.; and Whittington, Billy Joe, to Jasper Electronics Manufacturing Corporation, The. Chord playing organ. 3,725,560, 4-3-73, Cl. 84-1.010.

Robinson, John Wesley, to Telattach, Inc. Interactive display and viewer response apparatus and method. 3,777,410, 12-11-73, Cl. 35-9.00b.

Robinson, Joseph D.; and Vogiatzis, John P., to Shell Oil Company. Method for determining distance and direction to a cased borehole using measurements made in an adjacent borehold. 3,725,777, 4-3-73, Cl. 324-8.000.

Robinson, Keith D., to Goodyear Tire & Rubber Company, The. Container for liquid hydrocarbons. 3,755,040, 8-28-73, Cl. 156-242.000.

Robinson, Kent W.: *See*—
Norton, Charles J.; Drayer, Dennis E.; Reuter, Michael J.; and Robinson, Kent W., 3,755,466.

Robinson, La Roy E.; and Peltz, Leslie J., to Continental Machines, Inc. Automatic control for return motion of cutoff saw head. 3,721,139, 3-20-73, Cl. 83-63.000.

Robinson, Leon H.: *See*—
Heilhecker, Joe K.; and Robinson, Leon H., 3,766,997.

Robinson, Leroy E., to Phillips Petroleum Company. Method for forming a protrusion in a blow molded article. 3,764,644, 10-9-73, Cl. 264-89.000.

Robinson, Martin A.: *See*—
Franco, Nicholas B.; and Robinson, Martin A., 3,743,664.
Hurley, Thomas J.; and Robinson, Martin A., 3,781,321.

Robinson, Max C. Capacitance thermometer. 3,759,104, 9-18-73, Cl. 73-362.00r.

Robinson, Max Charles. Three-terminal capacitor. 3,727,117, 4-10-73, Cl. 317-242.000.

Robinson, Melville W., Jr.; and Jaco, Charles M., Jr., to Dravo Corporation. Industrial bulk material transportation. 3,752,334, 8-14-73, Cl. 214-41.000.

Robinson, Merritt A., to Fieldhome Equipment Corporation. Cargo carrying vehicle construction. 3,746,388, 7-17-73, Cl. 296-28.00m.

Robinson, Morton; and Devor, Donald P., to Hughes Aircraft Company. Calcium fluoride rare earth fluoride fluorescent compound useful as a laser crystal. 3,769,230, 10-30-73, Cl. 252-301.40h.

Robinson, Nelson M.: *See*—
Easoz, Robert D.; and Robinson, Nelson M., 3,727,550.

Robinson, Norman F.: *See*—
Hanback, Francis J.; and Robinson, Norman F., 3,730,563.

Robinson, Norman Robert: *See*—
Pask, George; and Robinson, Norman Robert, 3,745,629.

Robinson, Paul Harvey; and Wance, Richard Oren, to RCA Corporation. Chemical polishing of sapphire. 3,753,775, 8-21-73, Cl. 117-213.000.

Robinson, Philip W. Reactive waste gas treating device. 3,751,227, 8-7-73, Cl. 23-260.000.

Robinson, Preston. Electrolytic device and semiconductor oxide electrolyte therefor. 3,732,470, 5-8-73, Cl. 317-230.000.

Robinson, Ralph C., to General Time Corporation. Geneva type mechanism for use in clock timer or the like. 3,745,852, 7-17-73, Cl. 74-436.000.

Robinson, Ralph O., Jr., to United States of America, Navy. Base fuze. 3,722,417, 3-27-73, Cl. 102-70.20p.

Robinson, Ralph O., Jr., to United States of America, Navy. Process for making a toroidal inductance coil. 3,740,837, 6-26-73, Cl. 29-602.000.

Robinson, Ralph R. Abortive device and method. 3,722,500, 3-27-73, Cl. 128-1.00r.

Robinson, Rebecca P.: *See*—
Robinson, John D., 3,726,538.

Robinson, Robert E., to National Distillers and Chemical Corporation. Process for aromatic substitution. 3,725,463, 4-3-73, Cl. 260-479.00r.

Robinson, Robert J.: *See*—
Kun, Zoltan K.; and Robinson, Robert J., 3,745,073.

Robinson, Russell G. Sporting velocipede. 3,753,577, 8-21-73, Cl. 280-261.000.

Robinson, Russell S. Anti spin-kick firearm. 3,738,044, 6-12-73, Cl. 42-75.00b.

Robinson, Russell S., to Colt Industries Operating Corporation. Cartridge feeder. 3,766,825, 10-23-73, Cl. 89-33.0sf.

Robinson Sacks Limited: *See*—
Madden, John; and Bye-Jorgensen, Hans-Jorgen, 3,750,965.

Robinson, Samuel C., to Robinson-Nugent, Inc. IC unit carrier and its electrical interconnectors. 3,748,630, 7-24-73, Cl. 339-74.00r.

Robinson, Sharon D.: *See*—
Raihill, Ioni R.; and Robinson, Sharon D., 3,774,826.

Robinson, Sirman. Indoor-outdoor cooker. 3,759,164, 9-18-73, Cl. 99-413.000.

Robinson, Thomas C.: *See*—
Hill, J. Donald; and Robinson, Thomas C., 3,776,237.

Robinson, Thomas C., to United States of America, Health, Education and Welfare, mesne. Intra-aortic balloon system. 3,769,960, 11-6-73, Cl. 128-1.00d.

Robinson, Thomas Charles: *See*—
Kitrilakis, Sotiris; and Robinson, Thomas Charles, 3,707,967.





Robinson, Thomas E., to International Business Machines Corporation. Pattern recognition systems using associative memories. 3,737,852, 6-5-73, Cl. 340-146.30q.

Robinson, Thomas Scott, to International Business Machines Corporation. Control system employing microprogram discrete logic control routines. 3,781,799, 12-25-73, Cl. 340-164.3ma.

Robinson Waxed Paper Company Limited, The: *See*—
Phipps, Raymond Harold, 3,743,562.

Robinson, William J., to Reynolds Guyer Agency of Design. Display stand. 3,721,413, 3-20-73, Cl. 248-174.000.

Robinson, William P.: *See*—
Trbovich, Nicholas D.; Meyer, William H.; Bean, Edwin T., Jr.; and Robinson, William P., 3,758,113.

Robinson, William S. Apparatus for wrapping small articles. 3,780,491, 12-25-73, Cl. 53-226.000.

Robinson, Worden. Portable gas fired art pottery kiln and method. 3,752,643, 8-14-73, Cl. 432-120.000.

Robinson-Nugent, Inc.: *See*—
Robinson, Samuel C., 3,748,630.

Robison, Billie J.; and Lucic, Richard A. D., to Hewlett-Packard Company. Sputtering system with spirally coiled coolant coil. 3,718,572, 2-27-73, Cl. 204-298.000.

Robison, Ernest B.: *See*—
Ehrlich, Shelton; Bishop, John W.; and Robison, Ernest B., 3,736,908.

Robison, Ernest B.; Ehrlich, Shelton; and Bishop, John W., to United States of America, Interior. Process and apparatus for burning sulfur-containing fuels. 3,717,700, 2-20-73, Cl. 423-244.000.

Robison, James W.: *See*—
Eads, Harold O.; and Robison, James W., 3,760,500.

Robison, Jim Ray: *See*—
Moen, Art Murphy Dean; and Robison, Jim Ray, 3,779,886.

Robison, Leslie P.: *See*—
Taylor, Vincent J.; and Robison, Leslie P., 3,748,954.

Robison, Michael Mullen; and Finch, Neville, to Ciba-Geigy Corporation. Imidazo(4,5-b)pyridines. 3,719,683, 3-6-73, Cl. 260-294.80f.

Robison, Michael Mullen; and Finch, Neville, to Ciba-Geigy Corporation. 3H-imidazo(4,5-c)pyridines. 3,759,933, 9-18-73, Cl. 260-295.00k.

Robison, Samuel B.: *See*—
Cozewith, Charles; and Robison, Samuel B., 3,780,005.

Robitaille, Dennis R.: *See*—
Moore, Fred W.; Robitaille, Dennis R.; and Barry, Henry F., 3,726,694.

Robl, Robert F.; and Walker, Wayne J., to Aluminum Company of America. Magnetic field control in electrolysis cells using plates and/or bars. 3,719,577, 3-6-73, Cl. 204-243.00m.

Robles, Henry. Wheel locking device. 3,760,620, 9-25-73, Cl. 70-226.000.

Robles, Joseph: *See*—
Skeist, Irving; Miron, Jerry; Steinfink, Murray; Savla, Manilal; Robles, Joseph; and Bhatt, Pradip, 3,759,869.

Roblin Industries, Inc.: *See*—
Bunting, Robert L., Jr.; Ring, Theodore C.; D'Amato, Joseph; and Wojcik, Witold M., 3,766,961.
Wojcik, Witold M., 3,771,584.

Roblin, John M.; Cole, Frank J.; and Bourne, James G., to Republic Steel Corporation. Apparatus and method for vaporizing molten metal. 3,725,045, 4-3-73, Cl. 75-93.000.

Roblyer, Steven P. Hot gas engine. 3,750,391, 8-7-73, Cl. 60-24.000.

Robnolie, Wilber B. Entry device for reproduction machine. 3,758,208, 9-11-73, Cl. 355-97.000.

Robota, Stephen, to Hooker Chemical Corporation. Preparation of octachlorocyclopentene using ultraviolet light. 3,723,272, 3-27-73, Cl. 204-163.00r.

Robra, Helmut, to Schloemann Aktiengesellschaft. Securing an extrusion press ram to a thrust member. 3,732,716, 5-15-73, Cl. 72-273.000.

Robra, Helmut, to Schloemann Aktiengesellschaft. Drop forging press. 3,747,393, 7-24-73, Cl. 72-455.000.

Robroy Industries: *See*—
Slocum, Fred H., 3,724,706.

Robson, Francis Lambert: *See*—
Smale, John Reginald; and Robson, Francis Lambert, 3,746,349.

Robson, Frederick G.: *See*—
Pearne, Florentin J.; Pearne, Frank S.; and Robson, Frederick G., 3,716,264.

Robson, Harry E., to Esso Research and Engineering Company. Method for preparing a small-pore synthetic zeolite. 3,720,753, 3-13-73, Cl. 423-329.000.

Robson, Harry E., to Esso Research and Engineering Company. Layered complex metal silicate compositions and their preparation. 3,729,429, 4-24-73, Cl. 252-454.000.

Robson, Harry E., to Esso Research and Engineering Company. Promotion of crystalline zeolite synthesis. 3,733,390, 5-15-73, Cl. 423-118.000.

Robson, Peter: *See*—
Hardy, Frederick Edward; Robson, Peter; and Speakman, Peter Roscoe Hartley, 3,719,647.

Robson, Peter; and Hardy, Frederick Edward, to Procter & Gamble Company, The. Novel bleaching compounds. 3,711,413, 1-16-73, Cl. 252-99.000.

Robson, Robert: *See*—
Flowerday, Peter; Fowler, Benjamin Thomas; and Robson, Robert, 3,728,260.
Jervis, Graham James; and Robson, Robert, 3,761,405.

Robustelli, Ciro M.: *See*—
Longenecker, John G.; Rubio, Manuel J.; and Robustelli, Ciro M., 3,773,520.

Roby, John. Anti-theft system for a vehicle. 3,738,444, 6-12-73, Cl. 180-114.000.

Rocca-Serra, Jean: *See*—
Boudinet, Guy; and Rocca-Serra, Jean, 3,781,710.
Farcy, Jean-Claude; Dumanchin, Roger; and Rocca-Serra, Jean, 3,740,662.

Rocco, Thomas J., Jr. Glove and ball tethered thereto. 3,731,927, 5-8-73, Cl. 273-26.00e.

Rocco, William A.: *See*—
Wentorf, Robert H., Jr.; and Rocco, William A., 3,743,489.
Wentorf, Robert H., Jr.; and Rocco, William A., 3,745,623.
Wentorf, Robert H., Jr.; and Rocco, William A., 3,767,371.

Roch, Gerald V., to Hurco Manufacturing Company, Inc. Automatic shearing method and apparatus. 3,757,645, 9-11-73, Cl. 91-411.00r.

Rocha, Henry A. F., to General Electric Company. Ultrasonic inspection apparatus. 3,780,572, 12-25-73, Cl. 73-67.50r.

Rocha, John G.; and Livingston, Richard W., to United States of America, Army. Concealed single shot firing mechanism. 3,707,794, 1-2-73, Cl. 42-1.00j.

Rocha, John G., to United States of America, Army. Telescoping ammunition launcher. 3,745,876, 7-17-73, Cl. 89-1.700.

Rocha, John Gonsalves: *See*—
Folley, Cranston Wesley; and Rocha, John Gonsalves, 3,715,955.

Rocha, John Gonsalves, to Maremont Corporation. Caseless ammunition and gun therefor. 3,762,328, 10-2-73, Cl. 102-38.000.

Rochat, Alain Claude: *See*—
Spaun, Ruediger; Rochat, Alain Claude; Gallay, Jean-Jacques; and Brenneisen, Paul, 3,781,290.

Rochat, Daniel, to Ebauches S.A. Timepiece. 3,739,569, 6-19-73, Cl. 58-58.000.

Rochat, Donald, to Valjoux S.A. Chronograph. 3,727,398, 4-17-73, Cl. 58-74.000.

Rochat, Freddy. Safety device for automobile vehicles and the like. 3,749,931, 7-31-73, Cl. 307-10.0at.

Roche, Daniel F., 1/2 to Salka, Carl. Scraping or scoring tool. 3,738,001, 6-12-73, Cl. 30-171.000.

Roche, John L., to Minnesota Mining and Manufacturing Company. Audio-visual system. 3,720,005, 3-13-73, Cl. 35-8.00a.

Roche, Joseph R.; and Bowen, Mat M., to FMC Corporation. Automatic pressure-relief rupture disc changer. 3,779,264, 12-18-73, Cl. 137-68.000.

Roche, Leon: *See*—
Dureau, Gabriel; Roche, Leon; and Villain, Marcel, 3,740,746.

Roche, Michel, to Commissariat a l'Energie Atomique. Rotary target for electrostatic accelerator which operates as a neutron generator. 3,733,490, 5-15-73, Cl. 250-84.500.

Roche, Roland, to Commissariat a l'Energie Atomique. Control system for gas-filled control rod. 3,726,760, 4-10-73, Cl. 176-86.00g.

Roche, William J., to GTE Sylvania Incorporated. DC fluorescent lamp with improved efficiency. 3,714,492, 1-30-73, Cl. 313-108.00r.

Roche, William J., to GTE Sylvania Incorporated. Integrated fluorescent lamp unit. 3,753,036, 8-14-73, Cl. 315-60.000.

Roche, William J.; and Waymouth, John F., to GTE Sylvania Incorporated. Lighting system including positive volt-ampere discharge lamp. 3,771,013, 11-6-73, Cl. 315-101.000.

Rochefort, J Guy: *See*—
Dobson, Thomas A.; and Rochefort, J Guy, 3,728,349.

Rocheleau, Antoni A.: *See*—
Hickman, Richard W.; Rocheleau, Antoni A.; and Spitz, David A., 3,731,520.

Rocheleau, Charles E. Article storing and dispensing unit with movably mounted gate. 3,765,429, 10-16-73, Cl. 133-5.00a.

Rochelle, James M.: *See*—
Borkowski, Casimer; and Rochelle, James M., 3,711,705.
Borkowski, Casimer J.; and Rochelle, James M., 3,712,983.

Rochelle, William R.: *See*—
Lochridge, Joe C.; and Rochelle, William R., 3,744,258.
Ward, Delbert R.; and Rochelle, William R., 3,730,537.

Rochelle, William R., to Brown & Root, Inc. Method and apparatus for laying pipeline. 3,729,941, 5-1-73, Cl. 61-72.300.

Rochelle, William R.; and Smith, Leif H., to Brown & Root, Inc. Method and apparatus for laying a submergible elongate structure. 3,775,987, 12-4-73, Cl. 61-72.300.

Rochelmeyer, Hans: *See*—
Eich, Eckart; and Rochelmeyer, Hans, 3,709,891.





Rochelt, Gunter Karl Rudolf. Quick-clamping passe partout. 3,727,335, 4-17-73, Cl. 40-156.000.

Rockland Systems Corporation: *See*—

Rochelt, Gunter Karl Rudolf. Quick-clamping passe partout. 3,727,335, 417-73, Cl. 40-156.000.
Rocher, Edouard Y.; and Schuster, Stanley E., to International Business Machines Corporation. Communication system and method. 3,732,374, 5-8-73, Cl. 179-15.0al.
Rocher, Edouard Y.; and Schuster, Stanley E., to International Business Machines Corporation. Loop switching teleprocessing method and system using switching interface. 3,732,543, 5-8-73, Cl. 340-172.500.
Rocher, Edouard Y.; and Schuster, Stanley E., to International Business Machines Corporation. Fast error recovery communication controller. 3,754,211, 8-21-73, Cl. 340-146.1ba.
Rochester Corporation, The: *See*—
Lovett, Stanley L., Jr., 3,707,836.
Rochester Envelope Company: *See*—
Taylor, Gerald A., 3,709,753.
Rochester, James R.; Hamilton, Fenton D.; Navarro, Felipe; and McCurdy, Neal R., to Kenotech, Inc. Xenon photography light. 3,720,822, 3-13-73, Cl. 240-1.300.
Rochester Silo Co.: *See*—
Price, Raymond R., 3,709,345.
Rochester Telephone Corporation, The: *See*—
Allen, Richard W.; Maring, Donald G., Sr.; and Andrews, Henry J., Jr., 3,725,613.
Rochina, Vincent: *See*—
Couchoud, Paul; and Rochina, Vincent, 3,781,400.
Rochina, Vincent; and Allard, Pierre, to Societe Rhodiaceta. Process for the preparation of polyamide-imide filaments. 3,717,696, 2-20-73, Cl. 264-205.000.
Rochman, Arnold. Front loading variable depth picture frame. 3,715,824, 2-13-73, Cl. 40-152.000.
Rochow, Stephen Eugene: *See*—
United States of America, National Aeronautics and Space Administration, 3,755,265.
Rock, Wilfried: *See*—
Hubert, Helmut; Jung, Anton L.; Lapczyna, Manfred; Ledwon, Erhard; Rock, Wilfried; and Schmidt-Burbach, Gerhard, 3,710,077.
Rock-Ola Manufacturing Corporation: *See*—
Bookout, Floyd V., 3,776,418.
Rockola, David C., 3,771,691.
Rockaway Corporation: *See*—
McCrea, Joseph, 3,734,334.
Rocke, Arthur F. Lyle, to International Telephone and Telegraph Corporation. Identification of elevation angle of arrival of multiple ionospheric reflections. 3,742,505, 6-26-73, Cl. 343-113.00r.
Rockefeller, George D., Jr., to Westinghouse Electric Corporation. Impedance distance relay. 3,731,152, 5-1-73, Cl. 317-27.00r.
Rockefeller, Winston G., to Colgate-Palmolive Company. Internal partitioning of compartmented cases. 3,770,184, 11-6-73, Cl. 209-15.000.
Rockel, Lee A. Punch unit. 3,777,399, 12-11-73, Cl. 30-361.000.
Rockepath, John L., to Jetsew, Inc. Sewing machine cutting mechanism. 3,760,748, 9-25-73, Cl. 112-219.00b.
Rocker, Dietrich: *See*—
Himmelmann, Wolfgang; Von Konig, Anita; Moll, Franz; Rocker, Dietrich; and Saleck, Wilhelm, 3,764,339.
Rocker, Elmer: *See*—
Blazey, Lawrence; Silverstrom, David; and Rocker, Elmer, 3,777,673.
Rocker, Herman, to Windmoller & Holscher. Apparatus for forming parcels of parallelipiped shape from individual stacks of flattened paper. 3,720,040, 3-13-73, Cl. 53-62.000.
Rocker, Hermann: *See*—
Hidding, Walter E.; Rocker, Hermann; and Beck, Hugo, 3,774,285.
Rockerath, John L., to Jetsew Inc. Retractable sewing machine cutting mechanism. 3,763,800, 10-9-73, Cl. 112-130.000.
Rocket Research Corporation: *See*—
Bridgforth, Robert M., Jr.; Sutherland, George S.; and Good, Carl D., 3,773,574.
Galbraith, Lyle D.; and Harvey, Alan R., 3,712,332.
Galbraith, Lyle D., 3,719,054.
Galbraith, Lyle D.; and Harvey, Alan R., 3,753,527.
Good, Carl D.; Poole, Donald R.; and Schmidt, Eckart W., 3,744,427.
Green, Charles J., 3,721,102.
Schmidt, Eckart W., 3,768,832.
Sutherland, George S.; and Emmons, Donald L., 3,719,046.
Sutherland, George S.; and Hoskins, Randel L., 3,778,084.
Rockey, Kenneth William, to Albright & Wilson Limited. Novel polyester resins containing spiroacetal units. 3,714,291, 1-30-73, Cl. 260-861.000.
Rockford Screw Products Company: *See*—
Stover, Jordan H., III, 3,763,909.
Rockford Servo Corporation: *See*—
Bonner, William A., 3,724,732.
Ott, Robert W., Jr., 3,731,864.
Ott, Robert W., Jr., 3,767,131.
Vischulis, George, 3,768,772.
Rockland Systems Corporation: *See*—
Jackson, Leland B., 3,735,269.
Rocklin, Albert L., to Shell Oil Company. Nitro-substituted butyl ester. 3,770,805, 11-6-73, Cl. 260-482.00r.
Rocklin, Albert L., to Shell Oil Company. Nitro-substituted propyl ester. 3,770,806, 11-6-73, Cl. 260-482.00r.
Rocklin, Isadore J. Metal treating tool. 3,763,343, 10-2-73, Cl. 219-76.000.
Rockola, David C., to Rock-Ola Manufacturing Corporation. Depleted stake replacement apparatus for cup dispenser. 3,771,691, 11-13-73, Cl. 221-11.000.
Rockson, Thomas. Sterilizing and dryer. 3,766,397, 10-16-73, Cl. 250-432.000.
Rockwell, Edward A.; and Holland, Harvison C. Anti-skid brake system. 3,738,711, 6-12-73, Cl. 303-21.00a.
Rockwell, Harry Brown. Combination frame and exhaust system for motor vehicles. 3,763,950, 10-9-73, Cl. 180-64.00a.
Rockwell, Harvey W., to Allis-Chalmers Corporation. Angle and tilt mechanism for bulldozer. 3,749,182, 7-31-73, Cl. 172-804.000.
Rockwell International Corporation: *See*—
Anderson, Douglas W., 3,777,787.
Ash, Edward B., 3,753,856.
Blake, Donald L., 3,776,486.
Budzyna, Edward S., 3,779,288.
Cumming, James C., 3,772,549.
Darnell, Alfred J., 3,770,422.
Easoz, Robert D.; and Carlson, Herbert L., 3,771,447.
Fayling, Clarence D.; Van Horn, John W.; and Ray, Philip M., 3,770,090.
Fiteny, Louis M.; and Oehring, Leo G., 3,774,061.
Friedman, Joseph, 3,779,009.
Fugman, Robert L.; and Jezuit, Leslie J., 3,769,909.
Gage, Arthur F.; and Stamm, Alex F., 3,776,446.
Golze, Richard R.; and Kienle, Richard F., 3,779,592.
Hagel, Jerrold A.; and Tromel, Richard H., 3,764,255.
Hardy, Walter H.; and Gray, Kenneth W., 3,777,270.
Hardy, Walter N., 3,778,837.
Herman, Virgil L., 3,779,721.
McCoy, Lowell R., 3,762,959.
McCoy, Lowell R.; and Heredy, Laszlo A., 3,767,466.
McCoy, Lowell R., 3,770,605.
McElwain, John C., 3,777,510.
Michael, Harold J., 3,772,043.
Nattefort, Fritz, 3,781,072.
Pettigrew, David D., 3,762,231.
Prange, Charles J., 3,774,630.
Prange, James M., 3,780,821.
Quinlisk, John W., Jr.; and Sinagra, Anthony W., 3,761,794.
Schack, Carl J.; and Pilipovich, Donald, 3,773,901.
Schaefer, Daniel F., 3,778,723.
Sellers, Jerry W.; and Taylor, Robert W., 3,770,331.
Sprague, Frederick L., 3,780,775.
Sweeney, James S.; Dyers, George A., Sr.; and Johnson, Ronald G., 3,771,325.
Tao, Ting C., 3,754,706.
Volpe, Richard L., 3,776,281.
Wagner, William R., 3,779,212.
Wroblewski, Richard C.; and Wright, Charles G., 3,772,548.
Yosim, Samuel J.; Grantham, Le Roy F.; and Huber, Donald A., 3,778,320.
Rockwell International Corporation, mesne: *See*—
Anastasio, Frank J.; Brundage, Clinton F.; and Strakosch, Clarence P., 3,776,404.
Rockwell Manufacturing Company: *See*—
Berends, Emerson R., 3,718,168.
Beson, John, 3,739,846.
Bonner, Joseph A.; and Evans, Howard J., 3,733,904.
Drouin, Andre H., 3,738,426.
Drouin, Andre H., 3,741,297.
Ebsary, Vivan Richard, 3,734,638.
Evans, Howard J.; Lofink, Joseph P.; and Bonner, Joseph A., 3,733,910.
Fowler, John H., 3,732,923.
Frostad, Lars, 3,721,141.
Gregory, Edward G., 3,738,013.
Herd, David P., 3,731,739.
Herd, David P.; Mc Caskill, John W.; and Bonds, James V., 3,741,589.
Herd, David P., 3,758,072.
Keiter, Edward F.; Pfleiderer, Glenn F.; and Pettigrew, David D., 3,718,405.
Medwig, William J.; and Koch, Ronald N., 3,759,100.
Niehaus, Edward J.; and Benney, Harry D., 3,754,493.
Painley, Elmer F.; Last, Bernard; and Dym, Joseph B., 3,731,534.
Pettigrew, David D., 3,762,830.
Sutherland, Ray, 3,748,654.
Rockwell, Perry M.: *See*—
Harbaugh, Samuel S.; and Rockwell, Perry M., 3,741,557.
Rockwell, R. James, Jr.: *See*—
Goldman, Leon; and Rockwell, R. James, Jr., 3,769,963.



Rockwood, Albert M.; Lemieux, Robert W.; Lutz, Allen; and Lazar, Ralph M., to Brunswick Corporation. Pinsetter masking. 3,738,656, 6-12-73, Cl. 273-54.00r.
Rocla Concrete Pipes Limited: *See*—
Hickman, Malcolm Douglas, 3,770,219.
Rocquin, Camile J. No-tilt Christmas tree stand. 3,733,040, 5-15-73, Cl. 248-48.000.
Rocton, Lucien; and Belisaire, Robert, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Coaxial cable having a fluid stop therein and method for producing a coaxial cable which is impervious to the passage of air therethrough. 3,728,466, 4-17-3, Cl. 174-23.00r.
Rocton, Lucien, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Connection device for submarine repeater. 3,780,210, 12-18-73, Cl. 174-70.00s.
Rod, Trygve R.: *See*—
Ernst, Richard J.; and Rod, Trygve R., 3,711,357.
Kercher, Dean S.; and Rod, Trygve R., 3,774,489.
Roda, Donato, to Faltex-Falzmaschinenfabrik AG. Machine for making concertina folds with reversible roller and means for reversing same. 3,747,917, 7-24-73, Cl. 270-68.00r.
Roda, Emilio, to Fratelli Roda S.A. Panel inserting apparatus for beehive partition assembly. 3,777,630, 12-11-73, Cl. 93-37.00r.
Roda, Emilio, to Fratelli Roda S.A. Machine for the automatic formation and insertion of container partitions. 3,780,627, 12-25-73, Cl. 93-37.00r.
Roda, Raymond J., to Bagcraft Corporation of America. Reclosable bag. 3,764,060, 10-9-73, Cl. 229-65.000.
Rodach, Alexander, to Frau Irma Ungerer. Reel for colling strip. 3,774,862, 11-27-73, Cl. 242-78.300.
Rodale Manufacturing Company, Inc.: *See*—
Schmier, Jacob, 3,712,781.
Rodaway, Bruce K.; and Calvert, Kenneth O., to Dunlop Holdings Limited. Prevulcanization of rubbers by hydrogen peroxide and an activator. 3,755,232, 8-28-73, Cl. 260-29.7at.
Rodbard, Simon; and Mount, Bruce E., to City of Hope. Method and apparatus for obtaining and displaying cardiovascular data. 3,773,033, 11-20-73, Cl. 128-2.06r.
Rodco, Inc.: *See*—
Iglehart, Jesse H.; and Iglehart, Hilary H., 3,750,261.
Rodden, Joseph P. Explosion proof aerosol can. 3,722,759, 3-27-73, Cl. 222-396.000.
Rodder, Jerome A. Spirometer. 3,735,752, 5-29-73, Cl. 128-2.080.
Roddy, Joseph T.; and Page, Wayne L., to Emerson Electric Co. Centrifugal friction clutch. 3,712,438, 1-23-73, Cl. 192-105.0cd.
Roddy, Robert L. Roller skate brake for beginners. 3,734,244, 5-22-73, Cl. 188-83.000.
Rode, D. John, to Sinclair-Koppers Company, mesne. Fluid distributor for use in extruding foamed polymeric materials. 3,724,976, 4-3-73, Cl. 425-72.000.
Rode, Heinz A., to Republic Steel Corporation. Welding flash detector. 3,768,307, 10-30-73, Cl. 73-105.000.
Rode, James A., to United Nuclear Corporation. Production of uranium dioxide. 3,765,844, 10-16-73, Cl. 423-19.000.
Rode, John E., to Temper Corporation. Seal element. 3,751,048, 8-7-73, Cl. 277-200.000.
Rode, John E., to Temper Corporation. Dual rate cylindrical spring. 3,774,896, 11-27-73, Cl. 267-182.000.
Rodek, Victor, to Xerox Corporation. Printing apparatus including registration control. 3,768,904, 10-30-73, Cl. 355-40.000.
Rodel Inc.: *See*—
Budinger, William D.; and Mc Laughlin, Paul F., 3,760,637.
Rodely, Alan E.; and Fussell, Theodore J., to Eastech, Inc. Bluff body flowmeter arrangement for use in controlling air pollution produced by internal combustion engines. 3,722,275, 3-27-73, Cl. 73-194.00b.
Rodemann, Alfred H.: *See*—
Breglia, Denis R.; Rodemann, Alfred H.; and Mohon, Windell N., 3,748,751.
Mohon, Windell N.; Rodemann, Alfred H.; and Oerderian, George, 3,761,156.
Rodemann, Alfred N.: *See*—
Mohon, Windell N.; and Rodemann, Alfred N., 3,724,933.
Rodenberg, Orville C.: *See*—
Mosehauer, Michael; and Rodenberg, Orville C., 3,779,748.
York, William C.; and Rodenberg, Orville C., 3,758,327.
Rodenkirch, Mathew E.: *See*—
Wilson, Francis B.; and Rodenkirch, Mathew E., 3,748,565.
Roder, Georg, to Messer Griesheim G.m.b.H. Device for raising and lowering the torches of a flame cutting machine. 3,731,911, 5-8-73, Cl. 266-23.00m.
Roder, Gerhard: *See*—
Tucking, Werner; and Roder, Gerhard, 3,717,426.
Roder, Kurt: *See*—
Hoyer, Georg-Alexander; and Roder, Kurt, 3,720,769.
Roder, Manfred, to Arbeitsstelle fur Molekularelektronik. Fabrication of integrated microcircuits utilizing dielectric-p-n junction isolation. 3,725,146, 4-3-73, Cl. 148-175.000.
Roderick, John James: *See*—
Fein, Marvin Michael; and Roderick, John James, 3,721,693.
Roderick, William R.: *See*—
Schleicher, Joseph Bernard; and Roderick, William R., 3,767,795.
Roderick, William Rodney, to Abbott Laboratories. Anti-inflammatories. 3,708,581, 1-2-73, Cl. 424-203.000.
Roderick, William Rodney, to Abbott Laboratories. Anti-inflammatory methods. 3,733,411, 5-15-73, Cl. 424-263.000.
Rodermund, Gerd: *See*—
Rodermund, Gerd; and Kappus, Helmut (said Kappus assor. to said), 3,780,514.
Rodermund, Gerd; and Kappus, Helmut, said Kappus assor. to said Rodermund, Gerd. Method for the manufacture of wreaths, pompons, rosettes, and the like. 3,780,514, 12-25-73, Cl. 57-156.000.
Rodewald, Paul G., to Mobil Oil Corporation. Pyrrolidones from γ-butyrolactones using a zeolite catalyst. 3,775,431, 11-27-73, Cl. 260-326.5fl.
Rodewald, Paul G., Jr.; Rowe, Carleton N.; and Heiba, El Ahmadi I., to Mobil Oil Corporation. Gamma-substituted-gamma-butyrolactone adducts of O,O-dialkyl-phosphorodithioic acids. 3,773,791, 11-20-73, Cl. 260-343.600.
Rodgers, Arthur; and Weiner, Robert J., to Union Carbide Corporation. Two step porous boiling surface formation. 3,753,757, 8-21-73, Cl. 117-22.000.
Rodgers, Charley R.: *See*—
Merrow, Raymond T.; Julian, Elmo C.; Eldridge, Judson B.; Rice, George B.; Dow, Robert L.; Rodgers, Charley R.; and Stull, Bertram O., 3,732,132.
Rodgers, Franklin A., to Pactide Corporation. Method of manufacturing a distillation apparatus. 3,765,981, 10-16-73, Cl. 156-210.000.
Rodgers, James L., to Talos Systems Inc. Apparatus for converting the position of a manually operated instrument into an electrical signal. 3,767,858, 10-23-73, Cl. 178-18.000.
Rodgers, John T.; Williams, Richard M.; and Larsen, Richard J., to Ducommun Incorporated, mesne. Process of coating articles with pyrolytic graphite and coated articles made in accordance with the process. 3,725,110, 4-3-73, Cl. 117-46.0cg.
Rodgers, Leonard John: *See*—
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Monaghan, William Thomas; and Rodgers, Leonard John, 3,731,489.
Wilde, Geoffrey Light; and Rodgers, Leonard John, 3,763,874.
Rodgers, Loyal J.: *See*—
Tack, Carl E.; and Rodgers, Loyal J., 3,721,482.
Rodgers, Nellie Hunt; Hunt, William P.; and Wenstrom, Richard T., to Sea Savory, Inc. Crab picking machine. 3,750,234, 8-7-73, Cl. 17-71.000.
Rodgers, Paul D., to International Telephone and Telegraph Corporation. Radiant energy receiver. 3,766,481, 10-16-73, Cl. 325-363.000.
Rodhe, Peder Magnus: *See*—
Danell, Curt; and Rodhe, Peder Magnus, 3,732,499.
Rodi, Anton: *See*—
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Rodi, Aton; Leiber, Heinz; Jonner, Wolf-Dieter; and Korasiak, Wolfgang, to Teldix GmbH. Skid control system. 3,754,797, 8-28-73, Cl. 303-21.0be.
Rodi, Fritz: *See*—
Lailach, Gunter; Rodi, Fritz; Bade, Heribert; and Koller, Heinz, 3,755,554.
Rodi, Fritz; and Hund, Franz, to Farbenfabriken Bayer Aktiengesellschaft. Ferromagnetic chromium dioxide. 3,725,281, 4-3-73, Cl. 252-62.510.
Rodia, Ralph M.: *See*—
Pews, R. Garth; and Rodia, Ralph M., 3,746,739.
Rodier, Christian; and Carre, Paul, to Societe d'Optique Precision Electronique et Macanique (Sopelem). Mounting for a zoom lens. 3,748,024, 7-24-73, Cl. 350-255.000.
Rodine, Thomas G., to Hewlett-Packard Company. Phasemeter employing means for preventing errors in the phase reading produced by noise. 3,764,902, 10-9-73, Cl. 324-83.00r.
Rodman, Charles W.: *See*—
Kaiser, Willard D.; and Rodman, Charles W., 3,727,027.
Rodrigalvarez Nieto, Carlos; and Arteaga Vera, Luis. UHF and VHF tuner for television. 3,727,140, 4-10-73, Cl. 325-458.000.
Rodrigues, Antonio A. Restraining device for quadrupeds. 3,734,059, 5-22-73, Cl. 119-27.000.
Rodriguez, Arturo Perez. Circuit breaker with thermal tripping device. 3,716,757, 2-13-73, Cl. 317-40.00r.
Rodriguez, David: *See*—
Pierce, Albert R., III.; and Rodriguez, David, 3,735,734.
Rodriguez, David G.: *See*—
Cox, Thomas L.; and Rodriguez, David G., 3,757,966.
Rodriguez, Edward T. Full range light dimmer adaptor. 3,781,593, 12-25-73, Cl. 315-58.000.
Rodriguez, George: *See*—
Lewis, Tony E.; and Rodriguez, George, 3,714,809.
Rodriguez, Juan A.: *See*—
Bailey, David L.; Fiorino, Benjamin C.; and Rodriguez, Juan A., 3,747,079.
Carpentier, Anthony L.; and Rodriguez, Juan A., 3,744,023.
Laatt, Richard G.; and Rodriguez, Juan A., 3,731,208.



Rodriguez, Juan Antonio, to Eastman Kodak Company. Dodging ci...

Rodriguez, Juan Antonio, to Eastman Kodak Company. Dodging circuitry for photographic printing apparatus. 3,728,022, 4-17-73, Cl. 355-80.000.

Rodriguez, Leopoldo; and Birk, Donald G. Device for sharpening the tapered points of dental instruments. 3,722,146, 3-27-73, Cl. 51-73.00r.

Rodriguez, Raul. Marine propeller. 3,740,165, 6-19-73, Cl. 416-241.000.

Rodriguez, Rodolfo, to Miles Laboratories, Inc. Composition for suppressing the tremor of Parkinson's syndrome. 3,737,540, 6-5-73, Cl. 424-250.000.

Rodriguez, Rodolfo, to Miles Laboratories, Inc. Process for suppressing the tremor of Parkinson's syndrome. 3,743,732, 7-3-73, Cl. 424-250.000.

Rodriguez, Rodolfo, to Miles Laboratories, Inc. Method of treating depression with 1-(2-pyridyl) piperazine. 3,773,951, 11-20-73, Cl. 424-250.000.

Rodrique, Kenneth, to Can Machinery & Engineering Company, Inc. Sugar cane topping cutter and selective cut top director. 3,772,864, 11-20-73, Cl. 56-63.000.

Rodstein, Harvey B. Fiberglass shoe for sanding tools. 3,732,651, 5-15-73, Cl. 51-358.000.

Rodway, Ronald Ernest; and Simmonds, Robin George, to Aspro-Nicholas Limited. Substituted phthalazines. 3,753,988, 8-21-73, Cl. 260-250.00a.

Rodwin, Stephen Anthony; and Descary, John Gilbert, to Dominion Engineering Works, Limited. Sonic drying of webs on rolls. 3,750,306, 8-7-73, Cl. 34-69.000.

Rody, Jean: *See—*
Heller, Hansjorg; Rody, Jean; and Keller, Ernst, 3,766,205.

Rody, Jean; and Lind, Hanns, to Ciba-Geigy Corporation. Triazolyl ketones. 3,749,732, 7-31-73, Cl. 260-308.00a.

Rodzen, Richard A.: *See—*
Burns, Marvin; Ogden, Charles Thomas; and Rodzen, Richard A., 3,773,034.

Roe, Benson B.: *See—*
Goodenough, Samuel H.; Brown, Ronald C.; and Roe, Benson B., 3,710,744.

Roe, Bruce. Vehicle theft security system. 3,749,930, 7-31-73, Cl. 307-10.0at.

Roe, Elverton O.; and Moore, Charles Gregg, to Wooster Brush Company, The. Hand held roller frame. 3,751,748, 8-14-73, Cl. 15-230.110.

Roe, Harry L., Jr.: *See—*
Maierson, Theodore; Roe, Harry L., Jr.; and Williams, James E., 3,736,653.

Roe, Rene Pierre Victor; Levavasseur, Andre Adolphe Rene; Sureau, Robert Frederic Michel; and Alicot, Marie-Josephe Jeanne, to Ugine Kuhlmann. Process for the preparation of naphthoylenebenzimidazolium dyestuffs. 3,734,905, 5-22-73, Cl. 260-247.20a.

Roe, Robert A.; and Anderson, Gerald C., to Applied Power Industries, Inc. Vehicle drive system and control means therefor. 3,717,213, 2-20-73, Cl. 180-6.480.

Roe, Warren A., Jr.: *See—*
Carr, Norman L.; Roe, Warren A., Jr.; and Stauffer, Harry C., 3,732,085.

Roebelen, George J., Jr.; and Fitzsimmons, Thomas E., to United Aircraft Corporation. In-line replacement tool. 3,707,757, 1-2-73, Cl. 29-213.000.

Roeber, Henry W.: *See—*
McKee, Leffler H.; and Roeber, Henry W., 3,772,555.

Roeber, Henry W., to GTE Sylvania Incorporated. Leakage inhibiting shielding means. 3,727,094, 4-10-73, Cl. 313-313.000.

Roeber, Henry W., to GTE Sylvania Incorporated. Leakage inhibiting shield. 3,728,573, 4-17-73, Cl. 313-313.000.

Roebke, Heide: *See—*
Singhal, Gopal H.; and Roebke, Heide, 3,753,986.

Roedel, Paul. Patty-former. 3,775,809, 12-4-73, Cl. 17-32.000.

Roeder & Spengler OHG: *See—*
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Roeder, Emil; and Collins, Richard, to Marotta Scientific Controls, Inc. Method and apparatus for ejection by compressed gas. 3,773,025, 11-20-73, Cl. 124-11.00r.

Roeder, Georg; and Schmidt, Claus, to Messer Griesheim G.m.b.H. Method for maintaining constant the distance of a cutting or welding torch from the work piece. 3,736,647, 6-5-73, Cl. 29-470.000.

Roeder, George, to Messer Griesheim G.m.b.H. Method and apparatus for preventing relative motions. 3,759,502, 9-18-73, Cl. 266-23.00e.

Roeder, Gerald M., to United States Steel Corporation. Package of screws. 3,718,252, 2-27-73, Cl. 206-56.0df.

Roeder, Richard C. Cutting means for rolled sheet material. 3,738,552, 6-12-73, Cl. 225-34.000.

Roegler, Manfred: *See—*
Dahm, Manfred; Kraft, Karl-Josef; and Roegler, Manfred, 3,714,080.
Moller, Friedrich; Roegler, Manfred; Simmler, Walter; and De Montigny, Armand, 3,723,492.
Oertel, Gunter; Dahm, Manfred; Holtschmidt, Hans; and Roegler, Manfred, 3,739,014.

Roehl, Ernest R.; and Carey, Gerald D., to United States of America, Air Force. Microwave sensitivity time control circuit. 3,725,913, 4-3-73, Cl. 343-5.0sm.

Roehler, Frederick G., II, to United States of America, Navy. Mooring apparatus. 3,728,748, 4-24-73, Cl. 9-8.00r.

Roelf de Muinck, Andre: *See—*
Hite, Edward Lee; Ramge, Dennis Lee; and Roelf de Muinck, Andre, 3,709,327.

Roeloes, Wendell: *See—*
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Roelofs, Henry M.; and Lafferty, William J., to Nalco Chemical Company. Shell molds. 3,713,475, 1-30-73, Cl. 164-26.000.

Roepke, Wallace W.; and Pung, Kenneth G., to United States of America, Interior. Electron suppressor grid for a mass spectrometer. 3,761,708, 9-25-73, Cl. 250-282.000.

Roerig, Arnold J., to Beloit Corporation. Controlled deflection roll drive. 3,766,620, 10-23-73, Cl. 29-115.000.

Roerty, Dennis F.; and MacIndoe, Robert C., to Westinghouse Electric Corporation. Linear scale measuring instrument having preassembled coil support frame. 3,778,712, 12-11-73, Cl. 324-151.000.

Roesch, Carol; and Heinimann, Rene. Inertia switch with oscillating controller restrained against return to normal position. 3,743,803, 7-3-73, Cl. 200-61.45r.

Roesch, Egon: *See—*
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Roesch Enamel & Mfg. Co.: *See—*
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Roeschlein, Eugene R.: *See—*
Kuhn, Gerald D.; Peterson, Kenneth A.; Roeschlein, Eugene R.; Weiss, Donald C.; Weiss, Kenneth F.; and Zeph, David L., 3,781,776.
Northcutt, Marvin J.; and Roeschlein, Eugene R., 3,776,641.

Roesel, Vernon H. Control apparatus and method for metal working tools. 3,741,555, 6-26-73, Cl. 266-23.00m.

Roeser, John O. Electrical switch. 3,764,762, 10-9-73, Cl. 200-68.000.

Roeser, John O. Dual acting push button toggle switch. 3,772,484, 11-13-73, Cl. 200-4.000.

Roeske, Eugene A., to Owatonna Tool Company, mesne. Hydraulic work support. 3,729,185, 4-24-73, Cl. 269-20.000.

Roeske, Eugene A., to Wire Sales Company. Synchronizing clutching arrangement for hydrostatic transmission. 3,739,578, 6-19-73, Cl. 60-444.000.

Roesner, Bruce B., to General Motors Corporation. Tachometer processing circuit using logic device to generate equal width pulses. 3,735,257, 5-22-73, Cl. 324-78.00e.

Roess, Dieter, to Siemens Aktiengesellschaft. System for controlling light patterns with a high contrast. 3,750,136, 7-31-73, Cl. 340-324.00r.

Roess, Dieter; and Kiemle, Horst, to Siemens Aktiengesellschaft. Optical memory for coherent optical systems. 3,761,159, 9-25-73, Cl. 350-160.00r.

Roess, Dieter, to Siemens Aktiengesellschaft. Device for phase-synchronization of several laser oscillators. 3,763,441, 10-2-73, Cl. 331-94.500.

Roess, Dieter, to Siemens Aktiengesellschaft. Harmonic readout of a volume hologram in an optically reversible medium. 3,770,336, 11-6-73, Cl. 350-3.500.

Roess, Theodore L.: *See—*
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Roessing, Keith W., to Allegheny Ludlum Industries, Inc. Control for basic oxygen steelmaking furnace. 3,719,469, 3-6-73, Cl. 75-60.000.

Roessl, Julius. Dwelling. 3,707,812, 1-2-73, Cl. 52-27.000.

Roessler, Walter E., to Gulf Oil Corporation. Duel dry chemical fire extinguisher. 3,721,299, 3-20-73, Cl. 169-31.00p.

Roethke, Ernst, to Zinser-Textilmaschinen Gesellschaft mit beschrankter Haftung. Forward and reverse yarn feeding device for withdrawing and piecing yarn in a spinning apparatus. 3,733,799, 5-22-73, Cl. 57-34.00r.

Roethke, Ernst; and Guttler, Hermann, to Zinser-Textilmaschinen Gesellschaft mit beschrankter Haftung. Thread packaging device with intermediate thread storage means. 3,749,327, 7-31-73, Cl. 242-47.12.

Roetter, Robert P.; Miller, Alfred H.; Quinn, John D.; and Crosman, John M., Jr., to Libbey-Owens-Ford Company. Apparatus for producing all-glass multiple sheet glazing units. 3,725,026, 4-3-73, Cl. 65-156.000.

Roettger, Richard F.: *See—*
Dawson, W. John, Jr.; Reyburn, Mary Lou; and Roettger, Richard F., 3,750,658.

Rofenachi, Kurt, to Ciba-Geigy Corporation. Certain diazalyl aliphatic esters of thiophosphoric and dithiophosphoric acids. 3,766,200, 10-16-73, Cl. 260-302.00e.

Roff, John G.: *See—*
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Roffey, Patrick; and Verge, John Pomfret, to Lilly Industries, Limited. Anti-bacterial furyl and thienyl thiazole derivatives. 3,753,982, 8-21-73, Cl. 260-240.00a.

Rogachev, Boris Vasilievich; Organovsky, Naum Abramovich; Sedelnikov, Ertel Sergeevich; and Charsky, Mikhail Mikhailovich. Apparatus for measuring electrical resistance of rocks by the amplitude method during geophysical mineral prospective. 3,746,978, 7-1-73, Cl. 324-6.000.

Rogakos, Deno J., to General Motors Corporation. System including bi-directional drive mechanism with reverse drive limit. 3,757,472, 9-11-73, Cl. 49-40.000.

Rogalla, Dietrich: *See—*
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Rogalski, Theodore, to Amalgamated Music Enterprises, Inc. Code controlled broadcasting system. 3,714,575, 1-30-73, Cl. 325-53.000.

Rogalski, Werner; Jonas, Rochus; Wahlig, Helmut; and Bergmann, Rolf, to Merck Patent Gesellschaft mit beschrankter Haftung. 6-Aminopenicillanic acid derivatives and proces for the preparation thereof. 3,725,390, 4-3-73, Cl. 260-239.100.

Roge, Ralph R., to Wescom, Inc. Loop extender. 3,781,480, 12-25-73, Cl. 179-16.00f.

Rogel, Albert P.; and Scalese, Joseph J. Eddy current flaw detection system. 3,718,855, 2-27-73, Cl. 324-37.000.

Rogell, Martin L., to United Nuclear Corporation. Nuclear fuel element with strengthening during shipment. 3,770,582, 11-6-73, Cl. 176-78.000.

Rogeness, Gaylord G., to Anaconda Wire and Cable Company. Frequency interference reduction in cable television systems. 3,742,131, 6-26-73, Cl. 178-5.600.

Roger, Albert J. Valve clamp for elastically deformable tubes. 3,724,818, 4-3-73, Cl. 251-9.000.

Roger, Georges: *See—*
Budin, Jean-Pierre; and Roger, Georges, 3,765,768.

Roger, Iamurri. High impact polyolefin compositions comprising E/P block copolymer and high density polyethylene. 3,751,521, 8-7-73, Cl. 260-876.00b.

Roger, Joseph, to Thomson-CSF. Radar system for detecting low-flying objects. 3,778,824, 12-11-73, Cl. 343-7.00a.

Roger, Robert. Device for discharging processed or worked lengths of material from a work table. 3,712,609, 1-23-73, Cl. 271-74.000.

Roger, Thevenot: *See—*
Claude, Gueremy; Robert, Labey; and Roger, Thevenot, 3,714,357.

Rogers, Alan Fletcher, to Union Carbide Corporation. Tubularizing and detubularizing belt system. 3,762,536, 10-2-73, Cl. 198-184.000.

Rogers, Alter C., Jr.; and Snitzer, Morton, to Cleveland Chair Company, Inc. Handle controlled recliner rocker lounger. 3,767,257, 10-23-73, Cl. 297-85.000.

Rogers, Arthur L., to Johnson Stamping and Fine-Blanking Company. Snowmobile wheel support combination. 3,777,829, 12-11-73, Cl. 180-5.00r.

Rogers, Bernhard J., to Rank Organisation, Limited, The. Cathode ray tube arrangement utilizing magnetic shunts for controlling color registration. 3,717,788, 2-20-73, Cl. 315-13.00c.

Rogers, Beverly W. Torque converter. 3,722,325, 3-27-73, Cl. 74-751.000.

Rogers Brothers Company: *See—*
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Miller, Paul G.; Hsinchu, Taiwan; and Griffith, Francis C., 3,725,087.

Rogers, Bryant C., to Diacon, Inc. Method for sealing an enclosure for an electronic component. 3,768,991, 10-30-73, Cl. 65-36.000.

Rogers, Cedric G., to Avco Corporation. Method of trimming crystalline photosensor arrays to close tolerances. 3,708,936, 1-9-73, Cl. 51-310.000.

Rogers, Cedric G., to Avco Corporation. Indium antimonide infrared ray detector. 3,723,831, 3-27-73, Cl. 317-234.00r.

Rogers, Chester A.; and Hetzel, George F. Self-contained drain valve. 3,771,177, 11-13-73, Cl. 4-287.000.

Rogers, Chester D., to Jacobsen Manufacturing Company. Implement tool arm control. 3,718,192, 2-27-73, Cl. 172-624.000.

Rogers, Chester D., to Jacobsen Manufacturing Company. Raking implement. 3,739,860, 6-19-73, Cl. 172-612.000.

Rogers Corporation: *See—*
Dewey, Daniel, Jr., 3,744,129.
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Rogers, Dale W.: *See—*
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Rogers, Dana B.: *See—*
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Rogers, Daniel M.: *See—*
Gauthier, William D.; and Rogers, Daniel M., 3,740,612.

Rogers, Don A., Jr.; and Smith, James D. B., to Westinghouse Electric Corporation. Solvent epoxy resin composition and an electrical member impregnated therewith. 3,759,866, 9-18-73, Cl. 260-37.0ep.

Rogers, Donald H., to Jerrold Electronics Corporation. Power supply with temperature compensated current foldback. 3,723,774, 3-27-73, Cl. 307-296.000.

Rogers, Edward A., to Wilkinson Sword Limited. Hand tools, particularly for gardening. 3,767,249, 10-23-73, Cl. 294-49.000.

Rogers, Edward F.: *See—*
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Peterson, Louis H.; and Rogers, Edward F., 3,776,943.

Rogers, Edward F.; and Clark, Robert L., to Merck & Co., Inc. 2-Loweralkylamino-4-amino benzoic acids ether salts and esters, and acid addition salt thereof. 3,758,561, 9-11-73, Cl. 260-418.00r.

Rogers, Edward J.: *See—*
Chabala, Leonard V.; and Rogers, Edward J., 3,769,477.

Rogers, Frank J.; and MacClose, Joe, to Rogers Sales & Service Inc. Plastic tee manufacturing apparatus. 3,758,255, 9-11-73, Cl. 425-392.000.

Rogers, George W., to Allis-Chalmers Corporation. Vehicle brake control system with safety parking feature. 3,721,474, 3-20-73, Cl. 303-9.000.

Rogers, George W., to Allis-Chalmers Corporation. Vehicle braking system with spring applied parking brake. 3,761,139, 9-25-73, Cl. 303-99.000.

Rogers, Glyn D.: *See—*
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Rogers, Howard G.: *See—*
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Locatell, Louis, Jr.; Meneghini, Frank A.; and Rogers, Howard G., 3,719,488.

Rogers, Howard G., to Polaroid Corporation. Film assemblage for color diffusion transfer film. 3,761,271, 9-25-73, Cl. 86-77.000.

Rogers, Howard G., to Polaroid Corporation. Film assemblage for color diffusion transfer. 3,765,887, 10-16-73, Cl. 96-3.000.

Rogers, Howard G., to Polaroid Corporation. Variable light-filtering device. 3,774,988, 11-27-73, Cl. 350-150.000.

Rogers, Howard H.; and Pilipovich, Donald, to North American Rockwell Corporation. Process of making $ClF_3O$. 3,718,557, 2-27-73, Cl. 204-157.100.

Rogers, J. O., Jr. Telescoping row marker. 3,736,990, 6-5-73, Cl. 172-131.000.

Rogers, Jack. Seam ripper attachment for automatic sewing machines. 3,756,175, 9-4-73, Cl. 112-128.000.

Rogers, Jae P. Transposing piano with laterally movable keyboard. 3,724,317, 4-3-73, Cl. 84-447.000.

Rogers, James B.: *See—*
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Rogers, John E. Vehicle wheel elevating and leveling device. 3,752,441, 8-14-73, Cl. 254-88.000.

Rogers, John R.: *See—*
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Rogers, John Samuel: *See—*
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Rogers, Joseph S., Jr.; and Forseth, Glenn J., to Phillips Petroleum Company. Carbon black reactor. 3,736,102, 5-29-73, Cl. 23-259.500.

Rogers, Kenneth J.: *See—*
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Rogers, Laurence B.; Neumann, Malcolm A.; and Dolan, Dwain K., to Cubic Corporation. Handheld automatic wire electrode transport unit supplied with power from a single rectifier unit. 3,736,403, 5-29-73, Cl. 219-131.00f.

Rogers, Leo C.: *See—*
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Rogers, Leslie; and Ayres, Ralph C., to Bendix Corporation, The. Cathode blade for a field emission X-ray tube. 3,735,187, 5-22-73, Cl. 313-355.000.

Rogers, Lloyd W., Jr.: *See—*
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Rogers, Lynn C.: *See—*
Hunt, Mack W.; and Rogers, Lynn C., 3,746,698.

Rogers, Lynn C.; and Hunt, Mack W., to Continental Oil Company. Preparation of neutral and highly basic alkylphenates and sulfurized alkylphenates. 3,718,589, 2-27-73, Cl. 252-33.400.

Rogers, Lynn C., to Continental Oil Company. Grease and rust inhibitor compositions. 3,746,643, 7-17-73, Cl. 252-33.000.

Rogers, Lynn C.; and Hunt, Mack W., to Continental Oil Company. Preparation of highly basic alkylphenates and sulfurized alkylphenates. 3,755,170, 8-28-73, Cl. 252-42.700.

Rogers Machinery Company, Inc.: *See—*
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Rogers, Mark C. Ram operated diamond core drill press. 3,722,602, 3-27-73, Cl. 173-32.000.

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Rogers, Meyric K.: *See—*





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Waters, Robert S.; Doyle, Edward J.; Rogers, Meyric K.; and Bartram, Nail C., 3,775,861.
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Rogers, Morris Gwynne; and Tsai, James Hwa-San, to Dow Chemical Company, The. Process for the preparation of high molecular weight polyepoxides from polyepoxides and polyhydroxyl-containing compounds. 3,725,341, 4-3-73, Cl. 260-47.0ep.
Rogers, Philip E.: *See—*
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Rogers, Robert G., to GTE Automatic Electric Laboratories Incorporated. Microwave impedance-matching network. 3,745,488, 7-10-73, Cl. 333-33.000.
Rogers, Robert Kenneth. Apparatus for dyeing and/or washing fabric. 3,776,005, 12-4-73, Cl. 68-5.00e.
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Rogers Sales & Service Inc.: *See—*
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Rogers, Stanley, to General Dynamics Corporation. Matrix switch having isolation resistors. 3,711,834, 1-16-73, Cl. 340-166.00r.
Rogers, Stanley, to General Dynamics Corporation. Wide-band, high-frequency matrix switch. 3,713,105, 1-23-73, Cl. 340-166.00r.
Rogers, Steven A. Security system. 3,761,683, 9-25-73, Cl. 235-61.70b.
Rogers, Waldo I., to Rusco Industries, Inc. Electromagnet sensor structure for magnetic cards. 3,717,749, 2-20-73, Cl. 235-61.11d.
Rogers, Waldo I.; Fox, Robert J.; and Moulton, Eric W., to Rusco Industries, Inc. Static card reader and control system for access apparatus. 3,780,268, 12-18-73, Cl. 235-61.11d.
Rogers, Walter Clark, Jr.; and Hoffman, Frank D., Jr., to Royal Development Company, Inc. Rocker recliner chair. 3,730,585, 5-1-73, Cl. 297-85.000.
Rogers, Walter Clark, Jr.; and Snitzer, Morton, to Mohasco Industries, Inc. Chair. 3,768,859, 10-30-73, Cl. 297-85.000.
Rogers, William H.; and Peterson, Evald O. Profile sewing apparatus. 3,769,924, 11-6-73, Cl. 112-121.290.
Rogers, William I.: *See—*
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Rogers, William L. Motor driven pipe wrench. 3,709,072, 1-9-73, Cl. 81-57.130.
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Rogerson, Jerry B., to Ford Motor Company. Fuel vapor-loss control valve. 3,778,024, 12-11-73, Cl. 251-63.000.
Rogerson, John R. Snowmobile with vertically adjustable skis. 3,765,498, 10-16-73, Cl. 180-5.00r.
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Rogler, Walter; Lenz, Arnold; and Joch, Wilhelm, to Dynamit Nobel Aktiengesellschaft. Process for dosing alkali and alkaline earth metals. 3,743,711, 7-3-73, Cl. 423-646.000.
Rogoff, Martin H.: *See—*
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Rogoff, Mortimer, to International Telephone and Telegraph Corporation. Radio location system. 3,757,340, 9-4-73, Cl. 343-112.00r.
Rogols, Saul; High, Robert L.; and Staley, A. E., to Staley, A. E., Manufacturing Company. Phosphate modified proteinase-altered starch. 3,753,857, 8-21-73, Cl. 195-7.000.
Rogove, Harry; and Rogove, Roslyn, to Remember When Sweet Shoppe, Inc. Cart. 3,778,099, 12-11-73, Cl. 296-21.000.
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Rohde, Raymond, to Phillips Petroleum Company. Addition of oxidation inhibitor to lubricating oil. 3,749,247, 7-31-73, Cl. 210-20.00s.
Rohde, Raymond; and Johnson, Marvin M., to Phillips Petroleum Company. Pipe thread lubricant stabilized with organic sulfides. 3,751,363, 8-7-73, Cl. 252-19.000.
Rohde, Robert P.; and Weisgerber, Thomas W., to General Motors Corporation. Reactor air pump drive system. 3,771,921, 11-13-73, Cl. 417-12.000.
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Rollmann, Louis Deane, to Mobil Oil Corporation. Process of converting aliphatics to aromatics. 3,761,389, 9-25-73, Cl. 208-64.000.
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Rollo, William C.; and Melancon, John D. Solvent for cleaning well bores, flowlines, etc. 3,718,586, 2-27-73, Cl. 252-8.55b.
Rollor, Edward A., Jr.: *See—*
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Rollwitz, William L. Spectroscopic apparatus. 3,764,892, 10-9-73, Cl. 324-.50r.
Rolnick, Benjamin: *See—*
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Roloff, Ronald T. Clothes basket hanger. 3,760,742, 9-25-73, Cl. 105-151.000.
Rolph, Edwin J. Display device. 3,771,243, 11-13-73, Cl. 40-129.00c.
Rolstad, Erik; and Jamne, Einar, to Institutt for Atomenergi. Method for the control of a boiling water reactor and a boiling water reactor for performing said method. 3,766,007, 10-16-73, Cl. 176-56.000.
Rolston, Charles E.: *See—*
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Rolt, Anthony P. R.; and Gardner, Derek, to Ferguson, Harry, Limited, mesne. Rotary couplings. 3,760,922, 9-25-73, Cl. 192-111.00b.
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Roman, Michael A., Sr. Smoking pipe cartridge production apparatus. 3,766,929, 10-23-73, Cl. 131-119.000.
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Roman, William C.: *See—*
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Romanelli, Michael G., to Esso Research and Engineering Company. Preparation of unsaturated alcohols and ethers. 3,769,352, 10-30-73, Cl. 260-614.0aa.
Romanelli, Michael G., to Esso Research and Engineering Company. Preparation of alkadienoic acid esters. 3,780,074, 12-18-73, Cl. 260-410.90r.
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Romans, Gleason, to Aviation Inc. Platform stabilization system. 3,775,656, 11-27-73, Cl. 318-649.000.
Romans, John F. Exercising device with rotatable handbar and pivotal turntable. 3,713,653, 1-30-73, Cl. 272-57.00r.
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Romberg, Felix B. Torsion closer device. 3,748,687, 7-31-73, Cl. 16-75.000.
Romberger, Karl A.; and Braunstein, Jerry, to United States of America, Atomic Energy Commission. Electrochemical apparatus for determination of molten salt composition. 3,714,014, 1-30-73, Cl. 204-195.00r.
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Eichers, Ursula; Hahmann, Otto; Meyer, Heinz-Hermann; Rombusch, Konrad; and Rossbach, Manfred, 3,740,380.
Rombusch, Konrad; and Magosch, Karl-Heinz, to Chemische Werke Huls Aktiengesellschaft. Antistatic olefin polymer compositions. 3,708,464, 1-2-73, Cl. 260-93.700.
Rome, George K. Stamp dispenser. 3,764,439, 10-9-73, Cl. 156-442.000.
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Romell, Gunnar Vigg Riss; and Eklof, Ake Torsten. Hydraulic fluid actuated percussion tool. 3,741,072, 6-26-73, Cl. 91-290.000.
Romell, Gunnar Vigg Riss, to Atlas Copco Aktiebolag. Hydraulic fluid actuated percussion tool. 3,780,621, 12-25-73, Cl. 91-290.000.
Romer, Hugh Frank; and Beazley, Rodney Thomas, to Glacier Metal Company Limited, The. Method of making a ball and socket joint. 3,736,635, 6-5-73, Cl. 29-149.50b.
Romer, Kurt; Schmid, Josef; and Kraje, Adolf, to Junkers & Co., GmbH. Method of making an electromagnetic device. 3,739,465, 6-19-73, Cl. 29-596.000.
Romero, Antonio S., 33 1/3 to Witt, Boston E. Broken sprinkler standpipe removing tool. 3,731,364, 5-8-73, Cl. 29-240.000.
Romero, Bernardino S. Spring type spear projecting gun. 3,773,026, 11-20-73, Cl. 124-22.000.
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Romero, Roderic; and Thelemaque, Louis Emanuel, to Bell Telephone Laboratories, Incorporated. Path selection circuit for an end marked network. 3,745,259, 7-10-73, Cl. 179-18.0ge.
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Romito, Vincent A.; and Hanna, Arthur W., to Sterilizer Control Royalties. Center-of-can holder for a tell-tale indicator card. 3,754,465, 8-28-73, Cl. 99-342.000.
Romito, Vincent A.; and Hanna, Arthur W., to Sterilizer Control Royalties. Dummy can vehicle for an indicator device in canned goods sterilizing or cooking operations. 3,769,932, 11-6-73, Cl. 116-114.00v.
Rommel, Heinz: *See—*
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Rommelshausen, Gunter Worner, to Daimler-Benz Aktiengesellschaft. Blocking synchronizing arrangement for motor vehicle-change-speed transmissions. 3,749,215, 7-31-73, Cl. 192-53.00f.
Romney, Russell H. Apparatus for simulating, producing and transmitting code signals. 3,735,046, 5-22-73, Cl. 178-115.000.
Romney, Russell H. Fabric display and merchandising system. 3,759,398, 9-18-73, Cl. 211-46.000.
Romney, Russell H., to Bio-Logics, Inc. Apparatus for assembling particles. 3,762,018, 10-2-73, Cl. 209-211.00r.
Romoser, Paul E., to Lorain Electronics Corporation. Single sideband system utilizing two tone modulation. 3,716,790, 2-13-73, Cl. 325-49.000.
Rompa, Jozef Johannes Theresia. Lift door. 3,758,989, 9-18-73, Cl. 49-120.000.
Romrell, Glyn K., to E-Systems, Incorporated. Radio navigation pulse pair detector. 3,772,699, 11-13-73, Cl. 343-17.100.
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Ron, Benjamin. Dual fluid supply circuit for a power steering and a hydraulic power brake. 3,762,492, 10-2-73, Cl. 180-79.20r.
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Rondeau, John L. Barrel pool apparatus including spring projector. 3,712,626, 1-23-73, Cl. 273-101.000.
Rondeau, Roger E., to United States of America, Air Force. Spectral separation and analysis of isomeric azoxybenzenes. 3,730,687, 5-1-73, Cl. 23-230.00r.
Rondeau, Roger E.; and Fox, B. Lawrence, to United States of America, Air Force. Spectral analysis of ketoximes. 3,756,779, 9-4-73, Cl. 23-230.00r.
Ronden, Clifford P.; and Roylance, Donald C., to Cupples Container Co. Nucleation of thermoplastic polymeric foams. 3,725,317, 4-3-73, Cl. 260-2.50e.
Ronden, Clifford P., to Husky Briquetting, Inc. Synthetic fireplace log. 3,726,651, 4-10-73, Cl. 44-14.000.
Rondestvedt, Christian S., Jr., to Du Pont de Nemours, E. I., and Company. Aromatic acid chloride process. 3,775,476, 11-27-73, Cl. 260-544.00m.
Rondestvedt, Christian Scriver, Jr., to Du Pont de Nemours, E. I., and Company. Fluorinated acrylic monomers containing hetro atoms. 3,773,826, 11-20-73, Cl. 260-486.00h.
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Ronnkvist, Ake E., to Longyear, E. J., Company. Rod welding apparatus for making threaded drill rods. 3,726,462, 4-10-73, Cl. 228-6.000.
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Rood, Robert M. Clothes hanger attachment. 3,733,016, 5-15-73, Cl. 223-86.000.
Rood, Walter E., to Michigan Fruit Canners, Inc. Method of automatically orienting and trimming vegetables. 3,764,717, 10-9-73, Cl. 99-233.700.
Rood, William E., Jr.: *See—*
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Roodvoets, Roger J.; and Nielsen, Edward G., to Laser Alignment, Inc. Method for installing ceilings. 3,775,929, 12-4-73, Cl. 52-747.000.
Roof, John K., to Morrow, Woodrow T. Lock for press button telephone. 3,780,234, 12-18-73, Cl. 179-189.00r.
Roof, Lewis B.; Neer, Harold M.; and Burk, Marvin C., to Phillips Petroleum Company. Acoustical detecting apparatus. 3,762,197, 10-2-73, Cl. 73-24.000.
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Rooks, J. F. Wrist exerciser. 3,764,131, 10-9-73, Cl. 272-67.000.
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Rooney, Craig E. Typewriter with single spring to provide letter spacing and printing. 3,739,898, 6-19-73, Cl. 197-55.000.
Rooney, Michael J.: *See—*
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Roos, Erling, to Granges Essem Aktiebolag, mesne. Pipe couplings. 3,744,824, 7-10-73, Cl. 285-317.000.
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Root, John J. Serpentine antenna mounted on a rotatable capacitive coupler. 3,716,861, 2-13-73, Cl. 343-741.000.
Root, La Verne W., to Jackson Vibrators, Inc. Rail follower assembly. 3,745,929, 7-17-73, Cl. 104-8.000.
Root, Lawrence E.: *See—*
Derner, William J.; Stewart, Harold E.; Root, Lawrence E.; and Goodelle, Roger A., 3,713,712.
Root, Lawrence E.; Derner, William J.; and Stewart, Harold E., to Rollway Bearing Company, Inc. Miltiple stage thrust bearing. 3,712,693, 1-23-73, Cl. 308-231.000.
Root, Lloyd W., Jr., to United States of America, Army. Radar target discrimination method and apparatus. 3,772,689, 11-13-73, Cl. 343-5.0sa.
Root, Robert S.: *See—*
Bush, Carl D.; and Root, Robert S., 3,749,217.
Root, Roland L.; and Eilers, Louis H., to Dow Chemical Company, The. Well cementing and stimulation method. 3,734,188, 5-22-73, Cl. 166-292.000.
Root, Viotti E. Method and apparatus for simulating the act of walking. 3,774,597, 11-27-73, Cl. 128-25.00b.
Root, Wayne N.: *See—*
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Root, William L., to Bethlehem Steel Corporation. Heat exchanger and mixer. 3,765,481, 10-16-73, Cl. 165-92.000.
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Rooy, Henricus Johannes Van: *See—*
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Rope, Barry S.; and Stooksbury, David E. Protective package and method of manufacture. 3,744,627, 7-10-73, Cl. 206-80.00a.
Rope, Eugene L.: *See—*
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Roper Corporation: *See—*
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Webster, J. Vincent; and Dankel, Douglas D., 3,760,884.
Roper, Daniel W., to Eaton Corporation. Drive mechanism
Rosales, Joseph G., to Ackley, Donald M. Redundant bearing.



Roscoe, Henry George; Blickens, Donald Arthur; and Kupfer, David
Frost, Richard H.; Meguire, John; and Sharp, Jonathan F.

Webster, J. Vincent; and Dankel, Douglas D., 3,760,884.
Roper, Daniel W., to Eaton Corporation. Drive mechanism. 3,762,241, 10-2-73, Cl. 74-711.000.
Roper, Don Albert: *See—*
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Roper, Jarold D. Composite non-sweat water tank. 3,735,895, 5-29-73, Cl. 220-63.00r.
Roper, Ralph E., to Wallace Expanding Machines, Inc. Single sheet pallet. 3,709,162, 1-9-73, Cl. 108-51.000.
Roper, Ralph E., to Wallace Expanding Machines, Inc. Method and apparatus for forming a shadow mask frame. 3,715,906, 2-13-73, Cl. 72-354.000.
Roper, Ralph E., to Wallace Expanding Machines, Inc. Method for forming metal wheels. 3,729,795, 5-1-73, Cl. 29-159.010.
Roper, Ralph E., to Wallace Expanding Machines, Inc. Container with concave belt and lock seam. 3,780,899, 12-25-73, Cl. 220-5.00r.
Roper, Robert; and Rowe, Charles A., Jr., to Esso Research and Engineering Company. Coating composition. 3,770,702, 11-6-73, Cl. 260-73.00r.
Roper, William H.; and Ross, Robert N., to Plant Industries, Inc. Dispenser for flowable substances. 3,738,538, 6-12-73, Cl. 222-183.000.
Ropiequet, Richard L.; and Montag, Margaret J. Thermoplastic film articles. 3,764,453, 10-9-73, Cl. 161-147.000.
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Ropp, Richard C., to Westinghouse Electric Corporation. Rare-earth-niobate composition. 3,758,486, 9-11-73, Cl. 252-301.40r.
Roque, Ramon Masriera. Method and apparatus for knitting a net fabric. 3,726,112, 4-10-73, Cl. 66-95.000.
Roque V., Alfredo. Vehicle tire. 3,734,157, 5-22-73, Cl. 152-354.000.
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Roquier-Vicat, Camille, to Imhanda A/G. Non-metallic strap jointing apparatus, especially for heat sealing straps. 3,708,373, 1-2-73, Cl. 156-380.000.
Rorden, Louis H., to Develco, Inc. Magnetic detection for an anti-shoplifting system utilizing combined magnetometer and gradiometer signals. 3,781,664, 12-25-73, Cl. 324-43.00r.
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Rorer, William H., Inc.: *See—*
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Ros, Cornelia Erica: *See—*
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Ros, Erika Emma, nee Marti: *See—*
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Ros, Mirko Robin: *See—*
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Rosa, Faust. Centrifugal distillation system. 3,725,209, 4-3-73, Cl. 203-24.000.
Rosa, Hugh E., to General Electric Company. Gas turbine fuel flow metering control system. 3,738,104, 6-12-73, Cl. 60-39.280.
Rosaen, Borje O.: *See—*
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Rosaen, Nils O. Fluid device having flow control and indicating means. 3,724,269, 4-3-73, Cl. 73-207.000.
Rosaen, Nils O.; Rosaen, Borje O.; and Rosaen, Oscar E., to Parker-Hannifin Corporation. Reservoir filter and indicator. 3,738,310, 6-12-73, Cl. 116-70.000.
Rosaen, Nils O. Flow indicator device with sealing means. 3,776,037, 12-4-73, Cl. 73-228.000.
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Rosales, Louis A., to Western Filament Inc. Chevron bundle tie. 3,735,449, 5-29-73, Cl. 24-16.0pb.
Rosalik, Ronald R. Clip. 3,772,741, 11-20-73, Cl. 24-81.0ab.
Rosan Engineering Corporation: *See—*
Rosan, Jose, Sr.; and Rosan, Jose, Jr. (said Rosan, Jose, Jr., assor to), 3,720,969.
Rosan, Jose, Jr.: *See—*
Rosan, Jose, Sr.; and Rosan, Jose, Jr., 3,720,969.
Rosan, Jose, Sr.; and Rosan, Jose, Jr., said Rosan, Jose, Jr., assor to Rosan Engineering Corporation. Method of making a stud fastener assembly with integral lock ring. 3,720,969, 3-20-73, Cl. 10-27.000.
Rosan, Jose, Sr. Insert with chip entrapment means. 3,726,180, 4-10-73, Cl. 85-46.000.
Rosano, Henri L.; and Gerbacia, William E., to Allied Chemical Corporation. Fluorocarbon microemulsions. 3,778,381, 12-11-73, Cl. 252-311.000.
Rosano, Joseph G., Jr.; and Vaillancourt, Vincent L., to Bard, C. R., Inc. Instrument package with sterile field. 3,780,857, 12-25-73, Cl. 206-63.200.
Rosansky, Martin G.; and Jagid, Bruce E., to Power Conversion, Inc. Method for filling sealed batteries. 3,748,186, 7-24-73, Cl. 136-175.000.
Rosar, Edward C.; and Nielsen, Irvin P. Dual bit drilling tool. 3,765,493, 10-16-73, Cl. 175-319.000.
Rosas, Carlos B.: *See—*
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Rosback, Donald H., to Universal Oil Products Company. Adsorbing olefins with a copper-exchanged type X zeolite. 3,718,580, 2-27-73, Cl. 208-310.000.
Rosback, Donald H., to Universal Oil Products Company. Adsorbing olefins with a copper-exchanged type zeolite. 3,720,604, 3-13-73, Cl. 208-310.000.
Rosback, Donald H., to Universal Oil Products Company. Olefin separation process using copper-exchanged type X zeolite. 3,755,153, 8-28-73, Cl. 208-310.000.
Rosback, Donald H., to Universal Oil Products Company. Method for preparing copper-exchanged type X zeolite. 3,755,540, 8-28-73, Cl. 423-328.000.
Rosberg, Frantisek: *See—*
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Rosborne, Jeffrey A., 1/2 to Norris, Jerome J. Scouring article. 3,775,014, 11-27-73, Cl. 401-8.000.
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Roscher, Alfred M., to PPG Industries, Inc. Process and apparatus for dielectric heat drying elastomer coated glass fibers. 3,740,257, 6-19-73, Cl. 117-93.1dh.
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Roscoe, Henry George; Blickens, Donald Arthur; and Kupfer, David, to American Cyanamid Company. Method for inhibiting gastric acid secretion in mammals. 3,752,893, 8-14-73, Cl. 424-270.000.
Roscoe, William A. Method and apparatus for grading double reeds for musical instruments. 3,712,113, 1-23-73, Cl. 73-37.000.
Rose, Alan D., to Bitumen Industries Limited, mesne. Bonding. 3,755,066, 8-28-73, Cl. 161-217.000.
Rose, Billy L. Insulating container cover. 3,738,529, 6-12-73, Cl. 220-85.00h.
Rose, Boyd W.; and Thornton, George W., to FMC Corporation. Egg processing apparatus. 3,759,368, 9-18-73, Cl. 198-76.000.
Rose, Boyd W.; and Bercovitz, John H., Jr., to FMC Corporation. Egg marking apparatus. 3,779,159, 12-18-73, Cl. 101-35.000.
Rose, Charles R.; and Artiano, George E. Apparatus for playback of sound from microfiche. 3,770,909, 11-6-73, Cl. 179-100.30b.
Rose, Charles R.; and Artiano, George E. Apparatus for recording sound on microfiche. 3,770,910, 11-6-73, Cl. 179-100.30b.
Rose, Clark B.; Kelley, Richard B.; and Ravitts, Richard B., to Richards of Rockford, Inc. Apparatus and process for spraying liquids. 3,771,724, 11-13-73, Cl. 239-221.000.
Rose, Down & Thompson Limited: *See—*
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Rose, Frank L., to Bio-Medical Systems, Inc. Vacuum formed support structures and immobilizer devices. 3,745,998, 7-17-73, Cl. 128-89.00r.
Rose, Frederick A.: *See—*
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Rose, Frederick A., to Norland Corporation. Bone mineral analyzer. 3,715,588, 2-6-73, Cl. 250-71.50s.
Rose, Frederick A., to Norland Corporation. Electrode placement apparatus and pacer. 3,768,487, 10-30-73, Cl. 128-419.00p.
Rose, Harold Bern; and Sand, Bruce Jay, to Bio-Optronics, Inc. Electrical digital display tonometer. 3,724,263, 4-3-73, Cl. 73-80.000.
Rose, Harry J. Plant-holding receptacles. 3,739,524, 6-19-73, Cl. 47-38.100.
Rose, Harry J. Archery bow and quiver. 3,777,734, 12-11-73, Cl. 124-24.00a.
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Rose, Jack B., to Rowin, Incorporated. Steering wheel control device. 3,776,064, 12-4-73, Cl. 74-557.000.
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Rose, James E.; and Zimmer-Galler, Roswitha, to United States of America, Navy. Pyrotechnic delay composition containing heavy metal soap. 3,726,730, 4-10-73, Cl. 149-40.000.
Rose, James S.: *See—*
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Rose, Joel S. Educational apparatus. 3,763,574, 10-9-73, Cl. 35-9.00d.
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Leslie, Victor Jeffrey; Newton, Alan Branford; and Rose, John Brewster, 3,775,368.
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Nield, Eric; and Rose, John Brewster, 3,766,142.
Rose, Jonathan W., to International Business Machines Corporation. Compensation technique for variations in bit line impedance. 3,747,078, 7-17-73, Cl. 340-173.00r.
Rose, Joseph K. Viewing shield for display device. 3,733,436, 5-15-73, Cl. 178-7.820.
Rose, Lewis D. Apparatus for melting and tempering chocolate. 3,756,141, 9-4-73, Cl. 99-348.000.
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Rose, Michael V., to St. Joseph Lead Company. Free-standing lead sound barriers. 3,738,447, 6-12-73, Cl. 181-33.100.
Rose, Phillip C. Holster with pistol retaining mechanism. 3,718,240, 2-27-73, Cl. 224-2.00b.
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Rose, Robert Frederick, to Dixon Automatic Tool, Inc. Standardized control sections for machine control systems. 3,758,835, 9-11-73, Cl. 318-162.000.
Rose, Roberts C., to Rosemount Inc. Two-wire current transmitter with isolated transducer. 3,764,880, 10-9-73, Cl. 321-2.000.
Rose, Samuel, to Bio-Response, Inc. Augmentation of the production of antibodies in animals and humans and the collection thereof. 3,719,182, 3-6-73, Cl. 128-1.00r.
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Rose, Stanley E., to Tally Corporation. High speed printer with leaflike impact means. 3,768,403, 10-30-73, Cl. 101-93.00c.
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Rose, William W., Jr.; and Hutto, Walter D., Jr., to General Electric Company. Gas turbine engine emergency speed control system. 3,771,314, 11-13-73, Cl. 60-223.000.
Roseby, Maurice, to Tamco Limited. Gear shift lever. 3,760,651, 9-25-73, Cl. 74-523.000.
Rosecrans, Charles E. Toilet facility. 3,729,749, 5-1-73, Cl. 4-113.000.
Rosecrants, William J.; and Pomeroy, Frederick A., to Eastman Kodak Company. Paper radiographic element containing silver halide grains rhodium salt sensitized, thioether ripened and polyvalent metal ion stabilized. 3,737,313, 6-5-73, Cl. 96-27.00r.
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Roselli, Frank A., to Xerox Corporation. Rotational drive mechanism. 3,737,221, 6-5-73, Cl. 355-3.000.
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Rosen, Arye; and Reynolds, James Francis, to RCA Corporation. Negative resistance semiconductor coupled transmission line apparatus. 3,721,918, 3-20-73, Cl. 331-96.000.
Rosen, Charles; and Arcaro, Martin J., to Microcom Corporation. High modulation index oscillator-modulator circuit. 3,728,645, 4-17-73, Cl. 332-26.000.
Rosen, David B.; and Torrey, William P. Teaching assist. 3,739,070, 6-12-73, Cl. 35-48.00a.
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Rosen, Karl Isac. Yarn control device. 3,720,384, 3-13-73, Cl. 242-47.010.
Rosen, Karl Isac Joel. Disc-type brake for thread. 3,709,332, 1-9-73, Cl. 188-71.100.
Rosen, Karl Isac Joel. Thread storage and delivery device. 3,717,312, 2-20-73, Cl. 242-47.120.
Rosen, Karl Isac Joel. Thread delivery device or textile machines. 3,747,864, 7-24-73, Cl. 242-47.010.
Rosen, Melvin Harris; and Blatter, Herbert Morton, to Ciba-Geigy Corporation. 2-Halo-3-aminothietane and- 2H-thiete-1,1-dioxides. 3,729,487, 4-24-73, Cl. 260-327.00r.
Rosen, Melvin Harris, to Ciba-Geigy Corporation. Methanobenzo (B) thiophenes. 3,781,293, 12-25-73, Cl. 260-293.570.
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Rosen, Perry, to Hoffmann-La Roche Inc. Dihalo steroids. 3,711,522, 1-16-73, Cl. 260-397.400.
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Rosen, Sidney. Apparatus and process for pumping gluey material. 3,771,908, 11-13-73, Cl. 417-446.000.
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Rosen, Ward F., to Black, Sivalls & Bryson, Inc. Method of controlling the hydrocarbon dew point of a gas stream. 3,754,405, 8-28-73, Cl. 62-21.000.
Rosen, William E.; and Berke, Philip A., to Stockton Chemicals, Inc., mesne. Salicylates. 3,759,980, 9-18-73, Cl. 260-480.000.
Rosenbaum, Arnold Stephen, to Bell Telephone Laboratories, Incorporated. Digital transmission system with frequency weighted noise reduction. 3,745,562, 7-10-73, Cl. 340-347.0ad.
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Rosenbaum, Erik; and Martin, John Waldo, to Bendix Corporation, The. Fast time constant circuit means using time discrimination techniques. 3,781,569, 12-25-73, Cl. 307-234.000.
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Rosenbaum, Glenn P., to CMI Corporation. Bottom-dumping trailer with shiftable closure assembly. 3,759,573, 9-18-73, Cl. 298-29.000.
Rosenbaum, Saul, to Leviton Manufacturing Co., Inc. Removable dimmer attachment for a portable lamp. 3,748,532, 7-24-73, Cl. 315-362.000.
Rosenberg, Allan Yngve Teodor: *See—*
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Rosenberg, David, to Pall Corporation. Timer. 3,709,636, 1-9-73, Cl. 417-12.000.
Rosenberg, David, to Pall Corporation. Valve for fluid lines and structures containing the same. 3,710,942, 1-16-73, Cl. 210-136.000.
Rosenberg, David J., to Pall Corporation. Blood filter cascade. 3,765,536, 10-16-73, Cl. 210-446.000.
Rosenberg, David J., to Pall Corporation. Dual blood filter. 3,765,537, 10-16-73, Cl. 210-446.000.
Rosenberg, David M.: *See—*
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Rosenberg, Edgar N., to United States of America, Navy. Module connectors. 3,765,353, 10-16-73, Cl. 114-.50t.
Rosenberg, Harold: *See—*
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Rosenberg, Harry, to New Jersey Machine Corporation. Packaging machine. 3,736,722, 6-5-73, Cl. 53-124.00e.
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Rosenberg, Max; and Marhefka, Andrew J., to United States of America, Army. One-out-of-two lock system. 3,731,505, 5-8-73, Cl. 70-63.000.
Rosenberg, Paul, to Research Frontiers Incorporated. Method, material and apparatus for increasing and decreasing the transmission of radiation. 3,743,382, 7-3-73, Cl. 350-160.000.
Rosenberg, Peretz. Coupling members for plastic pipes and fittings useful therewith. 3,751,075, 8-7-73, Cl. 285-61.000.
Rosenberg, Robert: *See—*
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Rosenberg, Robert; and Runge, Peter Klaus, to Bell Telephone Laboratories, Incorporated. Optical device, such as a dye laser, employing a free-flowing liquid stream. 3,766,489, 10-16-73, Cl. 331-94.500.
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Rosenberg, Werner. Electronic key musical instrument. 3,749,806, 7-31-73, Cl. 84-1.130.
Rosenberg, William E., to Hull, R. O., & Company, Inc. Composition of baths for electrodeposition of bright zinc from aqueous, acid, electroplating baths. 3,723,263, 3-27-73, Cl. 204-55.00r.
Rosenberg, William E., to Hull, R. O., & Company, Inc. Additive for electrodeposition of bright zinc from aqueous, acid, electroplating baths. 3,767,540, 10-23-73, Cl. 204-55.00r.
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Rosenberger, Chester A., Jr., to FMC Corporation. Telescopic tow chain. 3,742,863, 7-3-73, Cl. 104-172.0bt.
Rosenberger, Dieter; and Hermann, Alfred, to Siemens Aktiengesellschaft. Gas laser. 3,731,227, 5-1-73, Cl. 331-94.500.
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Rosenblum, William J. Wallboard repair device. 3,717,970, 2-27-73, Cl. 52-514.000.
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Rosenbluth, Murray, to United States of America, Army. Slot fed stub antenna. 3,735,414, 5-22-73, Cl. 343-769.000.
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Rosenburg, Charles W., Jr., to Burt, F. N., Company, Inc. Safety carton with cut out lock. 3,761,010, 9-25-73, Cl. 229-19.000.
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Rosencranz, Robert, to Sargent-Welch Scientific Company. Densitometer incorporating optical attenuator with direct readout of optical density. 3,771,877, 11-13-73, Cl. 356-186.000.
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Rosenfeld, Daniel D.; Lippincott, Samuel B.; and Kilsheimer, John R., to Esso Research and Engineering Company. Halo substituted oxime carbamates. 3,748,361, 7-24-73, Cl. 260-566.0ac.
Rosenfeld, Daniel D.; and Gorbaty, Martin L., to Esso Research and Engineering Company. Methyl-3-hydroxymethyl-24-dioxo-1,3-dihydroquinazolines. 3,780,042, 12-18-73, Cl. 260-260.000.
Rosenfeld, Daniel D.; and Gorbaty, Martin L., to Esso Research and Engineering Company. 1-Methyl-3-halomethyl-2,4-dioxo-1-3-dihydroquinazolines. 3,781,288, 12-25-73, Cl. 260-260.000.
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Rosenstingl, Emmanuel, to Intertechnique S.A. Method and apparatus for evaluating the degree of quenching in scintillation spectrometry. 3,715,584, 2-6-73, Cl. 250-71.50r.
Rosensweig, Ronald E., to Ferrofluidics Corporation. Magnetic fluid pneumatic bearings. 3,734,578, 5-22-73, Cl. 308-10.000.
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Rosenthal, Ben J.; and Matsouka, Earl, to Rosenthal Manufacturing Company, Inc. Sheet material feeding and cutting apparatus and control system therefor. 3,760,669, 9-25-73, Cl. 83-63.000.
Rosenthal, Charles William: *See—*
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Rosenthal, Christian, to Chemische Werke Munchen Otto Barlocher GmbH. Process of granulating polymeric materials. 3,764,572, 10-9-73, Cl. 260-23.0xa.
Rosenthal, Francis Joseph, Jr.; and Rohr, Lewis Hampton, to Black and Decker Manufacturing Company, The. Protected lock means for electrically-operated hand-manipulated tools. 3,781,579, 12-25-73, Cl. 310-68.00a.
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Rosenthal, Jerome A., to Xerox Corporation. Display system. 3,781,848, 12-25-73, Cl. 340-324.00a.
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Rosenthal, Louis A.; and Davis, Donald A., to Union Carbide Corporation. Film treating method. 3,736,492, 5-29-73, Cl. 321-45.00r.
Rosenthal, Louis A.; and Davis, Donald A., to Union Carbide Corporation. Film treating process. 3,736,493, 5-29-73, Cl. 321-45.00r.
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Rosenthal, Louis A., to Union Carbide Corporation. Electrode method for the surface treatment of thermoplastic materials. 3,779,882, 12-18-73, Cl. 204-165.000.
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Rosenthal, Sol Roy. Processes for making competitive inhibition agents and products thereof. 3,755,568, 8-28-73, Cl. 424-177.000.
Rosenthal, Walter. Combination of a chair and pedaling device. 3,751,033, 8-7-73, Cl. 272-58.000.
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Rosenthale, Marvin E., to American Home Products Corporation. Methods for relieving bronchial spasm with prostaglandin-$F_2\beta$ and derivatives. 3,764,699, 10-9-73, Cl. 424-305.000.
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Roser, Gerhard K., to Weber Marking Systems, Inc. Tire ring drive for label printers. 3,735,700, 5-29-73, Cl. 101-228.000.
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Rosinski, Edward J.; Plank, Charles J.; and Schwartz, Albert B., to Mobil Oil Company. Catalytic cracking of hydrocarbons with mixture of ZSM-5 and other zeolites. 3,758,403, 9-11-73, Cl. 208-120.000.
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Rosman, Irwin E. Rivet fastener system and method. 3,747,467, 7-24-73, Cl. 85-37.000.
Rosmanith, Carl William, to Beckman Instruments, Inc. Slide selector switch with multiple independently removable slide assembly modules. 3,737,594, 6-5-73, Cl. 200-16.00r.
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Ross, Daniel Louis, to RCA Corporation. Photochromic display and storage device and method of operation thereof. 3,715,212, 2-6-73, Cl. 96-48.000.
Ross, Dieter; and Kiemle, Horst, to Siemens Aktiengesellschaft. Production of semiconductor modules by a photo-resist technique with holographic projection of etching patterns. 3,712,813, 1-23-73, Cl. 96-27.00h.
Ross, Dieter. Laser oscillator with intracavity amplitude stabilization means. 3,774,120, 11-20-73, Cl. 331-94.500.
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Smith, Douglas G.; Gagyi, Oltan; and Ross, Donald, 3,738,592.
Ross, Donald K., to World Color Press, Inc. Automatic routing system. 3,726,994, 4-10-73, Cl. 178-6.60b.
Ross, Donald L.: *See—*
Coon, Clifford L.; Hill, Marion E.; and Ross, Donald L., 3,714,254.
Coon, Clifford L.; Hill, Marion E.; and Ross, Donald L., 3,714,260.
Coon, Clifford L.; Hill, Marion E.; and Ross, Donald L., 3,732,288.
Coon, Clifford L.; Hill, Marion E.; and Ross, Donald L., 3,759,998.
Hill, Marion E.; Ross, Donald L.; and Coon, Clifford L., 3,751,473.
Ross, Donald L.; Barrett, Hugh C.; and McDonald, Gerald J., to Stanford Research Institute. Preparation of pure glycolide. 3,763,190, 10-2-73, Cl. 260-340.200.
Ross, Donald Mackenzie: *See—*



Bertoya, Hastings Charles Maxim; Ross, Donald Mackenzie; Brook, Richard Anthony; Allnutt, Anthony John; and Semos, Robert Ernest, 3,779,649.
Ross, Donald R. Cardboard tray container. 3,744,707, 7-10-73, Cl. 229-35.000.
Ross, Donald R. Rigid panel container. 3,758,017, 9-11-73, Cl. 229-14.00c.
Ross, Donald R., Jr. Multiple trolley conductor unit. 3,772,482, 11-13-73, Cl. 191-23.000.
Ross, Donald S.; and Roberts, Lisle H., to International Imaging Systems. False color radiant energy detection method and apparatus. 3,748,471, 7-24-73, Cl. 250-333.000.
Ross, Earl W., to Tatch-A-Cleat Products. Rod conveyor cleats. 3,734,269, 5-22-73, Cl. 198-197.000.
Ross, Edmund L., to Owens-Illinois, Inc. Apparatus for finishing surfaces. 3,762,105, 10-2-73, Cl. 51-127.000.
Ross, Edward A.: *See—*
Banyas, John D.; and Ross, Edward A., 3,726,659.
Banyas, John D.; and Ross, Edward A., 3,762,504.
Ross, Edward A.; and Baule, Gerhard M., to Ross Controls Corporation. Plural motor tape drive speed control. 3,733,529, 5-15-73, Cl. 318-7.000.
Ross, Edward Charles, to RCA Corporation. Operation of memory array employing variable threshold transistors. 3,713,111, 1-23-73, Cl. 340-173.00r.
Ross, Edward Charles, to RCA Corporation. Memory system using variable threshold transistors. 3,720,925, 3-13-73, Cl. 340-173.00r.
Ross, Edward Charles, to RCA Corporation. Storage circuit using multiple condition storage elements. 3,781,570, 12-25-73, Cl. 307-238.000.
Ross, Ellis H.; and Cairl, John F., to Ross Sand Company, Inc. Pipe gasket collar. 3,756,631, 9-4-73, Cl. 285-230.000.
Ross, Eric D.: *See—*
Mitton, Robert E., 3,707,845.
Ross, Francis J.: *See—*
Atkinson, Cliff C.; Butler, Rolland O.; and Ross, Francis J., 3,717,929.
Ross, Francis Joseph, to Du Pont de Nemours, E. I., and Company. Production of sodium. 3,712,858, 1-23-73, Cl. 204-68.000.
Ross, Frank, to Velsicol Chemical Corporation. Process for preparing 2,5-dichloro-4-bromophenol. 3,728,403, 4-17-73, Cl. 260-623.00h.
Ross, Frank E., to Maytag Company, The. Spin control for centrifugal extractor. 3,747,841, 7-24-73, Cl. 233-24.000.
Ross, Frederick W. Oscillatory motion coupler. 3,741,559, 6-26-73, Cl. 267-124.000.
Ross, Gerald; and Lamensdorf, David, to Sperry Rand Corporation. Transmission line presence sensor. 3,750,125, 7-31-73, Cl. 340-258.00c.
Ross, Gerald F.; and Susman, Leon, to Sperry Rand Corporation. Array antenna signal processing system. 3,714,655, 1-30-73, Cl. 343-100.00r.
Ross, Gerald F., to Sperry Rand Corporation. Short time electromagnetic wave signal sampling system. 3,721,912, 3-20-73, Cl. 328-151.000.
Ross, Gerald F., to Sperry Rand Corporation. Transmission and reception system for generating and receiving base-band duration pulse signals without distortion for short base-band pulse communication system. 3,728,632, 4-17-73, Cl. 325-38.00r.
Ross, Gerald F., to Sperry Rand Corporation. Actuation of base band short range pre-collision sensor for vehicle safety apparatus. 3,735,398, 5-22-73, Cl. 343-7.0ed.
Ross, Gerald F.; and Robbins, Kenneth W., to Sperry Rand Corporation. Base-band radiation and reception system. 3,739,392, 6-12-73, Cl. 343-840.000.
Ross, Gerald F., to Sperry Rand Corporation. Energy amplifying selector gate for base-band signals. 3,750,025, 7-31-73, Cl. 325-321.000.
Ross, Gerald F.; Morrone, John J.; and Bell, William W., III, to Sperry Rand Corporation. Automatic vehicle monitoring system. 3,757,290, 9-4-73, Cl. 340-23.000.
Ross, Gerald F.; Susman, Leon; and Eves, Ellis E., II, to Sperry Rand Corporation. Time division multiplexer-demultiplexer for digital transmission at gigahertz rates. 3,763,318, 10-2-73, Cl. 179-15.00a.
Ross, Gerald F., to Sperry Rand Corporation. Base-band pulse object sensor system. 3,772,697, 11-13-73, Cl. 343-13.00r.
Ross, Henry M. Meat-forming press. 3,756,231, 9-4-73, Cl. 100-232.000.
Ross, Henry M., to Ross Industries, Inc. Force-limited injection system for meat processing. 3,779,151, 12-18-73, Cl. 99-533.000.
Ross, Hugh C. Solid-state high impedance meter system. 3,775,682, 11-27-73, Cl. 324-122.000.
Ross Industries, Inc.: *See—*
Ross, Henry M., 3,779,151.
Ross, Irving D., Jr.; and Madland, Thorvald, to Youngstown Steel Door Company, The. Over-travel and return mechanism for door. 3,747,270, 7-24-73, Cl. 49-220.000.
Ross, Irving D., Jr., to Youngstown Steel Door Company, The. Sealing cam interlock. 3,776,581, 12-4-73, Cl. 292-39.000.
Ross, Ivan L., to American Chain & Cable Company, Inc. Suspended conveyor system. 3,741,126, 6-26-73, Cl. 104-96.000.
Ross, J. Richard: *See—*
George, Darcy R.; and Ross, J. Richard, 3,773,889.
Ross, James A., to Rohr Industries, Inc. Feedback control circuit for magnetic suspension and propulsion system. 3,736,880, 6-5-73, Cl. 104-148.0ms.
Ross, John P.: *See—*
Johnson, Frank J.; Walker, Nelson L.; and Ross, John P., 3,723,283.
Ross, John R.: *See—*
George, D'Arcy R.; and Ross, John R., 3,743,695.
Ross, John R. Powder measurement and dispensing apparatus. 3,752,033, 8-14-73, Cl. 86-31.000.
Ross, John Sterry Hawley. Superconducting electrical machines. 3,729,640, 4-24-73, Cl. 310-52.000.
Ross, John William, to Union Carbide Canada Limited. Ground freezing method and apparatus. 3,726,095, 4-10-73, Cl. 61-36.00a.
Ross, Joseph H., to Lucky Stores, Inc. Apparatus for processing cheese. 3,727,308, 4-17-73, Cl. 99-115.000.
Ross, Joseph I.; and Sears, Kay G., said Sears assor. to said Entron, Inc. CATV multi-tap distribution box with a key actuated connector for each of a plurality of taps. 3,760,130, 9-18-73, Cl. 200-42.00r.
Ross, Joseph M.; Weinkamer, William A.; Pesek, Laddie J.; and Havel, John F., to Gould Inc., mesne. Tire bead sealing and seating device. 3,741,271, 6-26-73, Cl. 157-1.100.
Ross, Keith, to Davy and United Engineering Company, Limited. Casting mold. 3,708,147, 1-2-73, Cl. 249-99.000.
Ross, Lee F.; Wilkinson, James E.; Craig, Fred A.; and Hudson, Allan M., to Thiokol Chemical Corporation. Apparatus for molding a rigid product from synthetic resinous materials. 3,736,089, 5-29-73, Cl. 425-174.400.
Ross, Leonard O.; and Hill, Marion E., to United States of America, Atomic Energy Commission. Preparation of difluoronitroethylperfluoro acrylate and related compounds. 3,781.335, 12-25-73, Cl. 260-486.00h.
Ross, Melvin Andrew. Speed control apparatus for hot gas engine. 3,724,206, 4-3-73, Cl. 60-24.000.
Ross, Milton Dean: *See—*
Busler, Willard LeRoy; and Ross, Milton Dean, 3,711,922.
Ross, Norman C.; Schindler, Hans; and Waples, Joseph H., to Witco Chemical Corporation. Overbased calcium sulfonate- lubricating oil compositions. 3,769,213, 10-30-73, Cl. 252-33.400.
Ross Operating Valve Company: *See—*
Sweet, Roger L., 3,757,818.
Ross, Richard T., to Scott Paper Company. Method and apparatus for applying small amounts of liquid substance to a web. 3,776,763, 12-4-73, Cl. 117-105.300.
Ross, Robert Elmer, to International Business Machines Corporation. Storage control and address translation. 3,764,996, 10-9-73, Cl. 340-172.500.
Ross, Robert G.: *See—*
Baes, Charles F., Jr.; Bamberger, Carlos E.; and Ross, Robert G., 3,781,403.
Ross, Robert H.: *See—*
Rosso, John B.; and Ross, Robert H., 3,731,091.
Ross, Robert Martin: *See—*
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Ross, Robert S.: *See—*
Blate, Steven W.; Tschudy, Donald B.; Ross, Robert S.; Mellor, Fred W.; Kifor, Harry T.; and Davidson, William C., 3,726,375.
Ross, Samuel Scott. Exhaust cleaner. 3,744,221, 7-10-73, Cl. 55-263.000.
Ross, Samuel Scott. Exhaust cleaner. 3,778,981, 12-18-73, Cl. 55-263.000.
Ross Sand Company, Inc.: *See—*
Ross, Ellis H.; and Cairl, John F., 3,756,631.
Ross, Sheila W. Smoke flavoring barbecue additive and method of making. 3,709,700, 1-9-73, Cl. 44-6.000.
Ross, Sidney D.; and Finkelstein, Manuel, to Sprague Electric Company. Electrical capacitors with ester impregnants. 3,740,625, 6-19-73, Cl. 317-259.000.
Ross, Sidney D.; and Finkelstein, Manuel, to Sprague Electric Company. Di-N-substituted amide impregnants for electrical capacitors. 3,774,090, 11-20-73, Cl. 317-258.000.
Ross, Sigmund L.; and Shuffman, Oscar, said Ross, Sigmund L., assor. to said Shuffman, Oscar. Method and apparatus for purifying combustion gases. 3,748,830, 7-31-73, Cl. 55-89.000.
Ross, Sigmund L., to Shuffman, Oscar. Cryo-thermal process for fracturing rock formations. 3,759,329, 9-18-73, Cl. 166-308.000.
Ross, Sigmund Lance, to Shuffman, Oscar. Thermal energy generation. 3,727,588, 4-17-73, Cl. 122-487.000.
Ross, Stephen T.: *See—*
Kaiser, Carl; and Ross, Stephen T., 3,711,545.
Kaiser, Carl; and Ross, Stephen T., 3,718,744.
Kaiser, Carl; and Ross, Stephen T., 3,743,737.



Kaiser, Carl; and Ross, Stephen T., 3,763,232.
Ross, Stephen T.; and Zirkle, Charles, to Smithkline Corporation.
Rosser, Robert W., to United States of America, National Aeronautics and Space Administration.



Rossmy, Gerd; and Koerner, Gotz, to Goldschmidt, Th., A.G.

Kaiser, Carl; and Ross, Stephen T., 3,763,232.
Ross, Stephen T.; and Zirkle, Charles, to Smithkline Corporation. Anorectic compositions comprising N-pyridylalkyl -β-alkoxy-β-trifluoromethylphenalkylamines. 3,777,027, 12-4-73, Cl. 424-263.000.
Ross, Steven G.: *See—*
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Ross, Svante Bertil: *See—*
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Ross, Thorvald S., Jr.; and Consalvo, Dante V. (said Consalvo assor. to said), 3,762,627.
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Ross, Thorvald S., Jr.; and Consalvo, Dante V., said Consalvo assor. to said Ross, Thorvald S., Jr. Receptacle for waste material. 3,762,627, 10-2-73, Cl. 229-37.00r.
Ross, Thorvald S., Jr.; and Entin, Leonard P., said Entin assor. to said Ross, Thorvald S., Jr. Receptacle for waste material. 3,779,157, 12-18-73, Cl. 100-240.000.
Ross, Thurston H., Jr.: *See—*
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Ross, Victor H.: *See—*
Skoli, Sigmund P.; Mojonnier, Harry G.; Witt, Chester J.; Seyfarth, Walter A.; and Ross, Victor H., 3,771,289.
Ross, Walter Lee: *See—*
Helbig, Walter Allen, Sr.; and Ross, Walter Lee, 3,750,133.
Ross, Warren N. Irrigation line move. 3,720,374, 3-13-73, Cl. 239-177.000.
Ross, Warren N. Irrigation carriage. 3,752,495, 8-14-73, Cl. 280-80.00r.
Ross, Wesley J.: *See—*
Canale, Raymond P.; and Ross, Wesley J., 3,777,482.
Ross, Will, Inc.: *See—*
Wise, Lewis Abraham; and Grimm, John E., 3,721,238.
Ross, William A.: *See—*
Shepard, Richard W.; Ross, William A.; Audia, Samuel; and Holmes, Gary W., 3,753,412.
Ross, William Campbell, to Grace, W. R., & Co. Compressible vehicle tire. 3,730,244, 5-1-73, Cl. 152-323.000.
Ross, William Campbell, to Grace, W. R., & Co. Method of producing a novel compressible rool. 3,730,794, 5-1-73, Cl. 156-112.000.
Ross, William D.; and Roushdy, Hesham A., to Ford Motor Company. Power transmission mechanism having a torque sensitive pressure regulator valve. 3,752,012, 8-14-73, Cl. 74-731.000.
Ross-Holm Division, Holm Tractor & Equipment Company: *See—*
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Rossbach, Dennis R.: *See—*
Couch, Robert P.; Rossbach, Dennis R.; Vopalensky, Robert A.; and Fowler, Robert T., 3,775,763.
Rossbach, Dennis R.; and Kim, Dong G., to United States of America, Air Force. Signal conditioning circuit. 3,740,654, 6-19-73, Cl. 328-151.000.
Rossbach, Manfred: *See—*
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Eichers, Ursula; Hahmann, Otto; Meyer, Heinz-Hermann; Rombusch, Konrad; and Rossbach, Manfred, 3,740,380.
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Rosse, Thomas A.; Blackmer, David E.; Zindler, Jerrold; and Kelley, Thomas F., to Instrumentation Laboratory, Inc. Analytical apparatus. 3,718,439, 2-27-73, Cl. 23-259.000.
Rosse, Thomas A.; Blackmer, David E.; Zindler, Jerrold; and Kelley, Thomas F., to Instrumentation Laboratory, Inc. Apparatus for processing chemical materials held in container structures. 3,775,595, 11-27-73, Cl. 235-61.60h.
Rossell, Allen J., to Burroughs Corporation. Full cycle synchronous-switching control circuit. 3,743,860, 7-3-73, Cl. 307-252.0ua.
Rossell, Gary L.; Fleisher, Paul C., Jr.; and Seifer, Maurice I., to Rohm & Haas Company. Method for reinforcing textile garments with thermosetting films. 3,722,000, 3-27-73, Cl. 2-227.000.
Rosser, Daniel B.: *See—*
Frederick, Albert R.; Paine, Joseph L.; and Rosser, Daniel B., 3,718,841.
Rosser, Daniel B., to General Electric Company. Rectifier bridge assembly comprising stack of high-current PN semiconductor wafers in a sealed housing whose end caps comprise AC terminals of the bridge. 3,753,052, 8-14-73, Cl. 317-234.00r.
Rosser, Eugene P.: *See—*
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Rosser, Robert W., to United States of America, National Aeronautics and Space Administration. Polyimide foam for thermal insulation and fire protection. 3,772,216, 11-13-73, Cl. 260-2.5am.
Rossetti, Carlo. Apparatus for the production of cast polymer sheets. 3,718,182, 2-27-73, Cl. 165-166.000.
Rossetti, Oliver Gabriel. Trimming apparatus. 3,712,166, 1-23-73, Cl. 83-455.000.
Rosshaupter, Erich: *See—*
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Rossi, Albert: *See—*
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Rossi, Albert; Tornqvist, Erik; Jacobson, Norman; and Song, Won Ryol, to Esso Research and Engineering Company. Alpha-olefin polymers as dewaxing aids. 3,767,561, 10-23-73, Cl. 208-37.000.
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Rossi, Alessandro, to Rivarossi S.p.A. Bridge for miniature trains. 3,722,131, 3-27-73, Cl. 46-1.00k.
Rossi, Alessandro, to Rivarossi S.p.A. Device for retaining rails of miniature trains. 3,767,114, 10-23-73, Cl. 238-10.00e.
Rossi, Enzo; Giusti, Guido; and Imparato, Luigi, to Snam Progetti S.p.A. Antiwear and antiwelding additives for lubricants and compositions thereof. 3,773,815, 11-20-73, Cl. 260-435.000.
Rossi, Eugene F., to Allis-Chalmers Corporation. Fluid delivery system for rotary kiln. 3,751,220, 8-7-73, Cl. 432-115.000.
Rossi, Geremia: *See—*
Carignani, Milvio; Conti, Michele; Berte, Dufour; Rossi, Geremia; Pasero, Edoardo; and Zmolnig, Hermann, 3,770,415.
Rossi, Guido; and Keiser, Markus, to Micafil A.-G. Machine for winding high-voltage electrical bushings. 3,737,116, 6-5-73, Cl. 242-56.100.
Rossi, Harry J., to Federal Paper Board Company, Inc., mesne. Package. 3,773,170, 11-20-73, Cl. 206-46.00r.
Rossi, Irving. Supporting slabs during continuous casting. 3,765,472, 10-16-73, Cl. 164-282.000.
Rossi, Irving. Method of continuously casting a slab. 3,766,962, 10-23-73, Cl. 164-82.000.
Rossi, Irving, to Innocenti Santeusatacchio S.p.A. Continuous casting methods and apparatus. 3,766,963, 10-23-73, Cl. 164-89.000.
Rossi, Irving. Continuous casting of strands using thermal stress reinforcement. 3,773,099, 11-20-73, Cl. 164-89.000.
Rossi, Irving. Continuous casting apparatus with strand support means. 3,774,671, 11-27-73, Cl. 164-282.000.
Rossi, Louis J., to Eastman Kodak Company. Substituted bis(p-dialkylaminophenyl) methane photoconductors. 3,755,310, 8-28-73, Cl. 260-240.900.
Rossi, Luigi. Mechanical unit for brewing infusions, more particularly espresso-coffee. 3,760,712, 9-25-73, Cl. 99-289.000.
Rossi, Renato: *See—*
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Rossi, Silvano, to Roussel-UCLAF. 1,2,5-Benzotriazepin-4-ones and their preparation. 3,736,316, 5-29-73, Cl. 260-239.30b.
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Rossigno, Louis P., to Bendix Corporation, The. Cam operated control. 3,724,910, 4-3-73, Cl. 303-12.000.
Rossigno, Louis P.; and Gatt, Michael E., to Bendix Corporation, The. Synchronized braking system for a tow vehicle trailer. 3,771,838, 11-13-73, Cl. 303-7.000.
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Rossire, F. Henry, to Bendix Corporation, The. Image transmission and presentation device. 3,748,016, 7-24-73, Cl. 350-96.00b.
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Rossitto, Charles C., 1/2 to Sebastian, Liotta. Animal excreta pickup device. 3,740,086, 6-19-73, Cl. 294-19.00r.
Rossitto, Conrad; and Taylor, David B., to USM Corporation. Polyurethane polyureas. 3,752,786, 8-14-73, Cl. 260-33.4vr.
Rosskopf, Philip A.: *See—*
Peppler, Richard B.; and Rosskopf, Philip A., 3,725,097.
Peppler, Richard B.; and Rosskopf, Philip A., 3,767,436.
Rossler, Donald Francis: *See—*
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Rossman, Joseph; deceased (Provident National Bank; executor), to Packo, Joseph J. Process of sealing leaks. 3,709,712, 1-9-73, Cl. 117-2.00r.
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Rossmann, Rudolf, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Short trajectory missile. 3,747,533, 7-24-73, Cl. 102-92.700.
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Rossmy, Gerd; and Koerner, Gotz, to Goldschmidt, Th., A.G. Polysiloxane-polyalkyleneglycol block copolymers suitable as foam stabilizers in the manufacture of polyurethane foams. 3,723,491, 3-27-73, Cl. 260-448.20b.
Rossnan, Michael. Fishing hook. 3,751,844, 8-14-73, Cl. 43-36.000.
Rosso, John B.; and Ross, Robert H. Method and means for monitoring the quanity of dispersed oil in water with means for wiping the sample cell. 3,731,091, 5-1-73, Cl. 250-43.50r.
Rosso, Pietro, to Pietro, Rosso, & C. S. n.c. and Calzificio Fratelli Protasoni Societa di fatto di Mario e Trento Protasoni. Attaching binding strips to knitwear on linking machines. 3,732,832, 5-15-73, Cl. 112-25.000.
Rossomme, Paul L., to General Tire & Rubber Company, The. Method and apparatus for cleaning cured sponge rubber extrusion. 3,750,229, 8-7-73, Cl. 15-304.000.
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Rossow, Rolf, to Otto, C., Dr., & Comp. G.m.b.H. Gaseous mixing device for regenerator heaters. 3,779,690, 12-18-73, Cl. 431-173.000.
Rost, Kai Lennart, to Pollutrol Industries, Inc. Apparatus for treating waste water. 3,721,344, 3-20-73, Cl. 210-104.000.
Rost, Karl H., to Roslin Corporation. Nestable container. 3,730,385, 5-1-73, Cl. 220-97.00c.
Rosta, William N., to ULM Corporation, The. Anti-torque system for tip driven rotor blades. 3,752,418, 8-14-73, Cl. 244-23.00c.
Rostad, Nels C., to Lockheed Aircraft Corporation. Four-way solenoid selector valve. 3,736,958, 6-5-73, Cl. 137-625.600.
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Rostler, Fritz S.; and White, Richard M., to Phillips Petroleum Company, mesne. Emulsions for heating asphalts and asphalt structures and methods of employing the same in the treatment of asphalts and asphalt structures. 3,766,107, 10-16-73, Cl. 260-17.4bb
Rostler, Fritz S., to Phillips Petroleum Company, mesne. Methods for modifying asphalts and emulsions useful therefor. 3,769,246, 10-30-73, Cl. 260-5.000.
Rostock, Joachim: *See—*
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Rostrom, Eric G., to Turbo Power and Marines Systems, Inc., mesne. Multipressure steam system for unifired combined cycle powerplant. 3,769,795, 11-6-73, Cl. 60-106.000.
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Rosvold, Warren C., to Signetics Corporation. Semiconductor structure with yieldable bonding pads having flexible links and method. 3,740,619, 6-19-73, Cl. 317-4.00r.
Rosvold, Warren C., to Raytheon Company. Method of making semiconductor diodes. 3,746,587, 7-17-73, Cl. 148-175.000.
Roswell, Arthur Edward; and Elymer, Gerald Kenneth, to RCA Corporation. Thermal fatigue lead-soldered semiconductor device. 3,735,208, 5-22-73, Cl. 317-234.00r.
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Roszinski, Hilmar; and Schmadel, Hermann, to Knapsack Aktiengesellschaft. Process for the manufacture of salt mixtures of alkali metal salts of O,O-dialkyldithio-phosphoric acids. 3,717,692, 2-20-73, Cl. 260-987.000.
Roszтoczy, Ferenc E.; Casau, Celestin J.; and Kinoshita, Joshyo, to Varian Associates. Method of making gallium arsenide semiconductive devices. 3,770,518, 11-6-73, Cl. 148-171.000.
Rotablock Limited: *See—*
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Rotast, Nikita L., to Microsystems International Limited. Universal interconnection structure for microelectronic devices. 3,716,761, 2-13-73, Cl. 317-101.00b.
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Sharpe, Raymond; and Hunt, Peter, 3,774,060.
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Rotert, Kurt; and Duepper, Paul, to Kocks, Friedrich, Firma. Apparatus and methods for cutting rolled rod. 3,756,289, 9-4-73, Cl. 140-2.000.
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Roth, Albert L., to Becton, Dickinson and Company. Carton. 3,750,930, 8-7-73, Cl. 229-17.00b.
Roth, Alton A.; Dzioba, Don L.; and Yonker, John F., to General Motors Corporation. Flow switch assembly. 3,718,788, 2-27-73, Cl. 200-81.90r.
Roth, Arden J.: *See—*
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Roth, Carl, oHG: *See—*
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Roth, Carl W., to Vapor Corporation. Door system for high-low platforms. 3,724,396, 4-3-73, Cl. 105-378.000.
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Roth, Charles F., Jr., to Xerox Corporation. Method and apparatus for enclosing a lamp. 3,733,123, 5-15-73, Cl. 355-3.000.
Roth, Christian: *See—*
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Roth, Edward. Three wheeled motor vehicle. 3,776,353, 12-4-73, Cl. 180-27.000.
Roth, Eric Michael. Brush handling adjustment. 3,729,762, 5-1-73, Cl. 15-144.00b.
Roth, Gerald A., to Swift & Company. Flame retardants for flexible foamed plastic. 3,732,265, 5-8-73, Cl. 260-408.000.
Roth, Harold A.: *See—*
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Roth, Harold H., to Dow Chemical Company, The. Method of sizing paper with a sulfonium resin copolymer. 3,772,143, 11-13-73, Cl. 162-169.000.
Roth, Helmut: *See—*
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Roth, Herman. Cutter device with illuminated cutting blade. 3,710,445, 1-16-73, Cl. 30-341.000.
Roth, Hobert A.: *See—*
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Roth, Irving, to Slattery Associates, Inc. Adjustable slab form support for bridge decking or the like. 3,737,132, 6-5-73, Cl. 248-228.000.
Roth, James F.: *See—*
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Paulik, Frank E.; Hershman, Arnold; Knox, Walter R.; and Roth, James F., 3,769,329.
Paulik, Frank E.; Hershman, Arnold; Roth, James F.; and Knox, Walter R., 3,772,380.
Roth, James F.; Gambell, James W.; and Penquite, Charles R., to Monsanto Company. Process of treating auto exhaust with shrinkage resistant copper aluminate-rare earth catalysts. 3,781,406, 12-25-73, Cl. 423-213.000.
Roth, Johann: *See—*
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Roth, Johann, to Braun Aktiengesellschaft, mesne. Arrangement for automatic exposure correction under high contrast lighting conditions in photographic cameras. 3,762,287, 10-2-73, Cl. 95-10.00c.



Roth, Johann; and Grimm, Werner, to Niezoldi & Kramer GmbH. Motion picture camera.



Roth, Shirley H., to Cities Service Company. Process for protecting

Roth, Johann; and Grimm, Werner, to Niezoldi & Kramer GmbH. Motion picture camera. 3,762,806, 10-2-73, Cl. 352-121.000.
Roth, Marc. Determination ammonia and organic amino compounds. 3,718,432, 2-27-73, Cl. 23-230.00r.
Roth, Michael: *See—*
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Nitzsche, Siegfried; Pirson, Ewald; and Roth, Michael, 3,716,399.
Roth, Miles I., to Marlin Firearms Company, The. Apparatus for and method of registering firearm serial numbers. 3,778,781, 12-11-73, Cl. 340-172.500.
Roth, Milton. Nitration of toluene and nitrotoluenes to form TNT. 3,742,072, 6-26-73, Cl. 260-645.000.
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Roth, Robert Ingersoll, to International Business Machines Corporation. Selective shift register. 3,781,821, 12-25-73, Cl. 340-172.500.
Roth, Rogert Ingersoll: *See—*
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Roth, Shirley H.; Green, Joseph; and Seipel, John J., to Cities Service Company. Novel intumescent coating composition. 3,714,081, 1-30-73, Cl. 260-2.5fp.
Roth, Shirley H.; Green, Joseph; and Seipel, John J., to Cities Service Company. Intumescent coating composition. 3,714,082, 1-30-73, Cl. 260-2.5fp.
Roth, Shirley H., to Cities Service Company. Intumescent coated articles. 3,748,173, 7-24-73, Cl. 117-136.000.
Roth, Shirley H., to Cities Service Company. Novel intumescent coated articles. 3,759,741, 9-18-73, Cl. 117-136.000.
Roth, Shirley H., to Cities Service Company. Process for protecting a substrate with an arylsulfonamidopyrazine intumescent agent. 3,769,073, 10-30-73, Cl. 117-136.000.
Roth, Shirley H., to Cities Service Company. Intumescent composition coated article. 3,769,074, 10-30-73, Cl. 117-136.000.
Roth, Shirley H., to Cities Service Company. Process for protecting a substrate with an N'-aryl substituted arylsulfonamide intumescent agent. 3,769,075, 10-30-73, Cl. 117-136.000.
Roth, Shirley H., to Cities Service Company. Arylsulonamidopyrazole and imidazole intumescent coated articles. 3,769,076, 10-30-73, Cl. 117-136.000.
Roth, Shirley H., to Cities Service Company. Process for protecting a substrate with an aryl-sulfonamidopyrimidine intumescent agent. 3,769,077, 10-30-73, Cl. 117-136.000.
Roth, Shirley H.; and Green, Joseph, to Cities Service Company. Article coated with aromatic sulfonamide intumescent agent. 3,769,078, 10-30-73, Cl. 117-136.000.
Roth, Shirley H., to Cities Service Company. Process for protecting a substrate from heat and fire. 3,769,079, 10-30-73, Cl. 117-136.000.
Roth, Shirley H., to Cities Service Company. Process for coating a substrate with a nitroaryl-sulfonamide-substituted triazine intumescent agent. 3,769,080, 10-30-73, Cl. 117-136.000.
Roth, Shirley H., to Cities Service Company. Process for coating a substrate with an amino-arylsulfonamide-substituted triazine intumescent agent. 3,769,081, 10-30-73, Cl. 117-136.000.
Roth, Shirley H., to Cities Service Company. Process for coating a substrate with a sulfonamide-substituted triazine intumescent agent. 3,769,082, 10-30-73, Cl. 117-136.000.
Roth, Shirley H., to Cities Service Company. Process for protecting a substrate with an arylsulfonamidopyridazine intumescent agent. 3,769,083, 10-30-73, Cl. 117-136.000.
Roth, Shirley H., to Cities Service Company. p,p'-Oxybis (benzenesulfonamide) monohydrate. 3,769,343, 10-30-73, Cl. 260-556.0ar.
Roth, Shirley H., to Cities Service Company. Process for protecting a substrate with an arylsulfonamidothiadiazole or oxadiazole intumescent agent. 3,772,074, 11-13-73, Cl. 117-136.000.
Roth, Shirley H.; and Green, Joseph, to Cities Service Company. Process for protecting a substrate with a sulfoguanidine intumescent composition. 3,775,166, 11-27-73, Cl. 117-136.000.
Roth, Shirley H., to Cities Service Company. Process for protecting a substrate with an N⁴-pyridylaminoarylsulfonamide intumescent agent. 3,775,167, 11-27-73, Cl. 117-136.000.
Roth, Shirley H., to Cities Service Company. Process for protecting a substrate with an N⁴-pyrimidylamino-arylsulfonamide intumescent agent. 3,775,168, 11-27-73, Cl. 117-136.000.
Roth, Shirley H., to Cities Service Company. Process for protecting a substrate with an N⁴-pyrazylaminoarylsulfonamide intumescent agent. 3,775,169, 11-27-73, Cl. 117-136.000.
Roth, Shirley H., to Cities Service Company. Process for protecting a substrate with an N-4-substituted aminoarylsulfonamide intumescent agent. 3,776,765, 12-4-73, Cl. 117-136.000.
Roth, Shirley H., to Cities Service Company. Process for protecting a substrate with an arylsulfonamidopyridine intumescent agent. 3,778,303, 12-11-73, Cl. 117-136.000.
Roth, Sold S. Television receiver including a large screen projection system. 3,760,096, 9-18-73, Cl. 178-5.4es.
Roth, Stephen A., to Tektronix Inc. Color television matrixing circuit. 3,719,772, 3-6-73, Cl. 178-5.4ma.
Roth, Stephen A., to Tektronix, Inc. Method and apparatus for color subcarrier generation. 3,739,081, 6-12-73, Cl. 178-5.40r.
Roth, Verlon C.; and Roth, Arden J. Multi-purpose piston valve. 3,709,247, 1-9-73, Cl. 137-271.000.
Roth, Verlon C.; and Roth, Arden J. Fluid transfer valve. 3,768,518, 10-30-73, Cl. 137-625.660.
Roth, Willy: *See—*
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Varsanyi, Denis; and Roth, Willy, 3,734,909.
Varsanyi, Denis; and Roth, Willy, 3,752,811.
Roth, Wolfgang, to Deere & Company. Hydraulic drive. 3,736,753, 6-5-73, Cl. 60-53.00r.
Rothacker, Francis N.; and Bujese, David P., to Copy Research Corporation. Electrostatic copying machine. 3,778,690, 12-11-73, Cl. 317-262.00a.
Rothe, Dieter: *See—*
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Rothenbuhler Engineering Company: *See—*
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Rothenbuhler, Howard E.; Melder, Robert C.; and Cotter, John Lawrence, to Rothenbuhler Engineering Company. Means for oscillating one of a pair of relatively rotatable members. 3,776,047, 12-4-73, Cl. 74-70.000.
Rother, Francis J.: *See—*
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Rother, Helmut, to Henschke & Co., Hansel-Robhaar, KG. Yarn consisting of stiff hair and process for making the same. 3,773,582, 11-20-73, Cl. 156-158.000.
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Rothermel, Charles E., Jr., to Rothermel Associates, Inc. Method and apparatus for end point detection in potentiometric titration. 3,769,178, 10-30-73, Cl. 204-17.000.
Rothermel, Dieter, to Bosch, Robert, G.m.b.H. Circuit for generating pulses. 3,737,681, 6-5-73, Cl. 307-246.000.
Rothermel, Heinz. Adjustable back rest support for chairs. 3,708,205, 1-2-73, Cl. 297-355.000.
Rothermel, Heinz. Hinge iron for posture chair. 3,709,535, 1-9-73, Cl. 287-306.000.
Rothermel, Heinz. Chair height control. 3,712,574, 1-23-73, Cl. 248-409.000.
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Rothert, Horst; and Schumacher, Rolf, to Fischer, Karl, Apparate-u. Rohrleitungsbau and Societe Chimique des Charbonnages. Apparatus for synthesis of formaldehyde. 3,711,253, 1-16-73, Cl. 23-288.00k.
Rothert, Horst; and Karasiak, Wolf, to Firestone Tire & Rubber Company, The, mesne. Processing apparatus. 3,761,059, 9-25-73, Cl. 259-9.000.
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Rothfuss, Robert G., to Senco Products, Inc. Resilient piston stop construction. 3,760,695, 9-25-73, Cl. 92-85.000.
Rothfusz, Ralph W.; and Nagy, John R., to Bendix Corporation, The. Acceleration enrichment circuit for electronic fuel control systems. 3,749,065, 7-31-73, Cl. 123-32.0ea.
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Rothier, Joseph Philip. Building for parking motor vehicles. 3,713,549, 1-30-73, Cl. 214-16.10a.
Rothke, Ernst, to Zinser-Textilmaschinen Gesellschaft mit beschrankter Haftung. Inflatable gripper for handling spools of textile machines. 3,714,770, 2-6-73, Cl. 57-52.000.
Rothman, Allan J.; and Semple, J. Brooks, to S.R. Products, Inc. Electrically actuated sprinkler. 3,726,344, 4-10-73, Cl. 169-37.000.
Rothman, Edward S.: *See—*
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Rothman, Edward S.; and Serota, Samuel, to United States of America, Agriculture. Process for equilibrating allene and methylacetylene and for recovery of pure allene from the equilibrium mixture. 3,745,195, 7-10-73, Cl. 260-681.500.
Rothman, Julius; Tacconelli, Edmond Andrew; and Buzzetta, Frank Vincent. Flexible welding nozzle apparatus. 3,755,648, 8-28-73, Cl. 219-130.000.
Rothman, Lillian. Child's plush figure headboard. 3,736,603, 6-5-73, Cl. 5-317.00r.
Rothmans of Pall Mall Canada Limited: *See—*
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Rothrock, James S.: *See—*
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Roths, Herbert C. O. Transplanting machine. 3,719,158, 3-6-73, Cl. 111-2.000.
Rothschild, Barbara G. Safety belt system for motor vehicles. 3,712,401, 1-23-73, Cl. 180-82.000.
Rothschild, Barbara G. Vehicle restraint assembly. 3,717,216, 2-20-73, Cl. 180-82.000.
Rothschild, Barbara G. Passive restraint for vehicle passengers. 3,743,046, 7-3-73, Cl. 180-82.00c.
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Rothstein, Edwin C.; and Ravdin, Bruce, to Life Technology Corporation. Disposable thermometer. 3,745,831, 7-17-73, Cl. 73-371.000.
Rothstein, Mark B., to Du Pont de Nemours, E. I., and Company. Vent gas control system. 3,754,125, 8-21-73, Cl. 235-151.120.
Rothwarf, Frederick; and Flynn, Paul D., to United States of America, Army. Thermally activated spring with improved thermal properties. 3,748,108, 7-24-73, Cl. 29-195.500.
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Rotier, Donald J., to Honeywell Inc. Fail-safe monitoring apparatus. 3,751,679, 8-7-73, Cl. 307-204.000.
Rotilio, James V. Combination welding torch. 3,739,140, 6-12-73, Cl. 219-144.000.
Rotkowski, Karl; and Kunert, Klaus. Circuit arrangement for centrally controlled telephone exchange installations. 3,775,565, 11-27-73, Cl. 179-18.0es.
Rotman, Walter; and Karas, Nicholas V., to United States of America, Air Force. Microstrip plasma probe. 3,750,013, 7-31-73, Cl. 324-58.000.
Roto-Finish Company: *See—*
Balz, Gunther W., 3,745,722.
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Rotolo, Carmen J., to North American Rockwell Corporation. Paster anticipate circuit. 3,746,272, 7-17-73, Cl. 242-58.300.
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Rottger, Hans; and Schabert, Hans-Peter, to Siemens Aktiengesellschaft. Driving device for regulator rods of nuclear reactors. 3,746,615, 7-17-73, Cl. 176-36.00r.
Rottig, Walter; and Saenger, Hans-Heinrich, to Ruhrchemie Aktiengesellschaft. Production of catalyst tablets. 3,755,192, 8-28-73, Cl. 252-428.000.
Rottleuthner, Heinz H., to Amtel, Inc. Roller burnishing tool. 3,731,355, 5-8-73, Cl. 29-90.000.
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Roubin, Marc P.: *See—*
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Rouchy, Maurice Georges. Sodium tetracycline-methylene-sulfomethoxy pyridazine propane-sulfonate as an antibacterial agent. 3,778,503, 12-11-73, Cl. 424-227.000.
Roudil, Maurice Jean Clement, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Method and means for opposing the rotation of a windmilling turbojet rotor during flight. 3,759,467, 9-18-73, Cl. 244-53.00r.
Roueche, Armand, to Ciba-Geigy AG. Triazole azo pigments. 3,718,640, 2-27-73, Cl. 260-157.000.
Rouger, Henri Andre, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation. Variable compression ratio internal combustion engines. 3,741,175, 6-26-73, Cl. 123-48.00a.
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Roulet, Jean; and Cimadevilla, Armand. Concrete reservoir for underwater use. 3,708,987, 1-9-73, Cl. 61-46.000.
Roullier, Henry Albert, to Relion Radiation Limited. Steam bath unit. 3,772,713, 11-20-73, Cl. 4-164.000.
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Roundy, Carlos B.; Riddle, John B.; and Heintz, Ralph M., to Micro-Magnetic Industries, Inc. Induction motor speed control. 3,710,218, 1-9-73, Cl. 318-231.000.
Rounkles, Rodney G., to Ethyl Development Corporation. Bottle with external compartment. 3,732,999, 5-15-73, Cl. 215-6.000.
Roup, Rolland R.: *See—*
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Roup, Rolland R., to Solid State Dielectrics, Inc. Ceramic composition for high stability capacitors. 3,775,142, 11-27-73, Cl. 106-

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Roup, Rolland R., to Solid State Dielectrics, Inc. Ceramic composition for high stability capacitors. 3,775,142, 11-27-73, Cl. 106-73.310.
Rouquie, Georges: *See—*
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Rouse, David Michael, to Bell Telephone Laboratories, Incorporated. Memory coding technique. 3,719,815, 3-6-73, Cl. 235-153.0am.
Rouse, John E.: *See—*
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Rousseau, Genevieve; Allais, Andre; and Poittevin, Andre, to Roussel-UCLAF. Spiro benzocyclane acetic acid compounds in the treatment of pain and inflammation. 3,769,425, 10-30-73, Cl. 424-317.000.
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Rousseau, Hubert Cecyl Albert; and Prieur, Lucien Robert, to Societe Industrielle Honeywell Bull (Societe Anonyme). Positioning mechanism for magnetic head. 3,715,523, 2-6-73, Cl. 179-100.2ca.
Rousseau, Jean-Pierre. Flashlight. 3,717,759, 2-20-73, Cl. 240-10.660.
Rousseau, Marcel-Gustave; and Berthoumieux, Robert, to Societe Nationale d'Etude et de Construction de Moteurs d'Aviation and Commissariat a l'Energie Atomique. Vertical turbomolecular pumps. 3,771,909, 11-13-73, Cl. 417-424.000.
Rousseau, Roy S., to Kartridg Pak Co., The. Container filling apparatus. 3,748,818, 7-31-73, Cl. 53-88.000.
Roussel, Jean, to Societe Anonyme: dite THIMONNIER & Cie. Machine for packing fluid products in bags. 3,724,163, 4-3-73, Cl. 53-171.000.
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Gasc, Jean-Claude; and Bucourt, Robert, 3,770,725.
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Martel, Jacques; and Heymes, Rene, 3,708,477.
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Warnant, Julien; Farcilli, Andre; and Toromanoff, Edmond, 3,770,724.
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Rousselet, Andre; and Durand, Pierre, to Hoffmann-La Roche Inc. Device for taking samples of liquid specimens especially for the automatic analysis apparatus. 3,748,911, 7-31-73, Cl. 73-423.00a.
Rousselet, Joseph Antoine Noel. Continuous production centrifuge. 3,724,091, 4-3-73, Cl. 34-58.000.
Rousselie, Claude Joseph; and Lacharlotte, Pierre, to S.I.C.A. "-POMANJOU". Device for counting floating products. 3,771,652, 11-13-73, Cl. 209-122.000.
Rousselot, Felix, to Ciba-Geigy Corporation. Ejection device for multiple-product dispensers. 3,730,437, 5-1-73, Cl. 239-306.000.
Roussin, Alfred G., to General Electric Company. Cylindrical electrode system for focusing and deflecting an electron beam. 3,731,136, 5-1-73, Cl. 315-16.000.
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Katzer, Melvin F.; and Routson, Willis G., 3,730,203.
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Routson, Willis G., to Dow Chemical Company, The. Oil recovery employing peroxides and alkalis. 3,757,861, 9-11-73, Cl. 166-273.000.
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Rouvre, Philippe; and Peroy, Francois, to Regie Nationale des Usines Renault. Heat responsive switching devices. 3,739,314, 6-12-73, Cl. 337-395.000.
Rouvre, Philippe; and Peroy, Francois, to Regie Nationale des Usines Renault and Automobiles Peugeot. Windscreen washer and wiper timing control having a rotatably mounted control levers. 3,750,080, 7-31-73, Cl. 338-172.000.
Roux, Bernard: *See—*
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Roux, Roland, to Compagnie Industrielle des Lasers. Discharge tube with dismountable electrode. 3,766,487, 10-16-73, Cl. 331-94.5pe.
Roux-Guerraz, Claude: *See—*
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Rouyer, Georges, to Societe Nationale Industrielle Aerospatiale. Corrugation of thin sheet. 3,722,247, 3-27-73, Cl. 72-106.000.
Rouzier, Georges, to Compagnie Generale des Etablissements Michelin raison sociale Michelin & Cie. Apparatus for continuous chemical reactions. 3,773,470, 11-20-73, Cl. 23-252.00r.
Rouzier, Philippe; and Pelissier, Maurice, to Aluminium Suisse S.A. Valves for pressurized recipients. 3,733,009, 5-15-73, Cl. 222-148.000.
Rovati, Luigi: *See—*
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Roveti, Denes, to Woodland, Daniel, Inc. Static electric field detector. 3,774,110, 11-20-73, Cl. 324-133.000.
Rovinski, Walter M., to Century Laboratories Inc. Filter syringe. 3,757,779, 9-11-73, Cl. 128-218.00m.
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Rowan, Charles M., Jr., to PPG Industries, Inc. Process for the production of hydrazoic acid. 3,781,411, 12-25-73, Cl. 423-406.000.
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Rowan Controller Inc.: *See—*
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Rowan, Donald James; Rowan, Kenneth Lorne; and Rowan, Larry James. Truck hoist cradle. 3,708,197, 1-2-73, Cl. 294-67.00e.



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Rowanda, Thomas M.; Holzman, Lawrence B.; and Tracy, James E., to Celanese Corporation. Permanent press fabric resin and processes therefore. 3,753,648, 8-21-73, Cl. 8-115.700.
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Rowbury, Dayton J., to Rowburg, Dale A. Quick release lariat honda. 3,716,031, 2-13-73, Cl. 119-153.000.
Rowe, Alan Charles; and Bennett, John Richardson, to Normalair-Garrett (Holdings) Limited. Control means for fluid flow valves. 3,734,120, 5-22-73, Cl. 137-220.000.
Rowe, Alan Charles; and Bennett, John Richardson, to Normalair-Garrett (Holdings) Limited. Fluid flow valves. 3,734,121, 5-22-73, Cl. 137-220.000.
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Rowe, Charles A., Jr.; and Stogryn, Eugene L., to United States of America, Air Force. Method for the preparation of 2,3-dimethyl aziridine. 3,717,628, 2-20-73, Cl. 260-239.00e.
Rowe, E. Riley, to Sonoco Products Company. Automatic web tension control. 3,765,584, 10-16-73, Cl. 226-39.000.
Rowe, George E., to Emhart Corporation. Method and apparatus for treating newly formed ware. 3,764,284, 10-9-73, Cl. 65-60.000.
Rowe, George E., to Emhart Corporation. Apparatus for making glassware by a press and blow technique. 3,765,862, 10-16-73, Cl. 65-229.000.
Rowe, Harrison Edward; and Young, Dale Travis, to Bell Telephone Laboratories, Incorporated. Multimode waveguide with reduced dispersion. 3,723,921, 3-27-73, Cl. 333-95.00r.
Rowe International, Inc.: *See—*
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Rowe, James Howard, to Plessey Handel und Investments A.G. Voltage supply arrangements. 3,736,465, 5-29-73, Cl. 315-239.000.
Rowe, Jean Max, to Du Pont de Nemours, E. I., and Company. Electric motor braking apparatus. 3,708,734, 1-2-73, Cl. 318-212.000.
Rowe, John J., to Singer Company, The. Digitally controlled sine wave generator. 3,746,891, 7-17-73, Cl. 307-271.000.
Rowe, John J., to Singer Company, The. Pseudosynchronous counter. 3,753,127, 8-14-73, Cl. 328-42.000.
Rowe, Lacy A.; and Whitley, John A. Mail box with door opening means. 3,733,026, 5-15-73, Cl. 232-35.000.
Rowe, Loyal T. Trolling apparatus for boats. 3,763,812, 10-9-73, Cl. 114-145.00a.
Rowe, Murray Edwin, to Ainsley-Park Industries Ltd. Silver recovery system. 3,767,558, 10-23-73, Cl. 204-269.000.
Rowe, Robert Arnold. Combined filling device and vent cut-off valve for electric storage cells. 3,744,516, 7-10-73, Cl. 137-587.000.
Rowe, Robert L.; and Peccerill, Donald. Method of producing a tubular magnet. 3,732,617, 5-15-73, Cl. 29-608.000.
Rowe, Robert W. Muzzle loading firearm. 3,757,447, 9-11-73, Cl. 42-51.000.
Rowe, Russell L., to Carborundum Company, The. Abrasive throwing wheel distribution system. 3,742,651, 7-3-73, Cl. 51-9.000.
Rowe, Thomas H., to International Business Machines Corporation. Manually positionable automatic printer. 3,767,020, 10-23-73, Cl. 197-1.00r.
Rowe, William A.; and Schwartz, James W., to Zenith Radio Corporation. Multiple exposure color tube screening. 3,767,395, 10-23-73, Cl. 96-36.100.
Rowe, William D.: *See—*
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Rowe, Wilson S., to United States Steel Corporation. Method of processing stainless steel strips or sheets. 3,776,784, 12-4-73, Cl. 148-12.000.
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Rowell, Douglas W. Method for welding. 3,716,908, 2-20-73, Cl. 29-477.700.
Rowell, Douglas Whitman, to Anaconda American Brass Company. Method and apparatus for measuring and controlling the continuous annealing of a long length of metal tubing. 3,708,354, 1-2-73, Cl. 148-128.000.
Rowen, James H., to Nabisco, Inc. Package with self-contained handle for storing and heating food, and method of forming same. 3,741,778, 6-26-73, Cl. 99-171.00h.
Rowen, John Howard: *See—*
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Rowen, William I., to General Electric Company. Torque control system for a gas turbine. 3,729,928, 5-1-73, Cl. 60-39.28p.
Rowenta-Werke Gesellschaft mit beschrankter Haftung: *See—*
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Rowin, Incorporated: *See—*
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Rowland, Bobby A.; and Tate, Stanley L., to Southwire Company. Polyethylene stabilized with 2,6-di (1-methyl heptadecyl)-4-alkyl phenol. 3,773,556, 11-20-73, Cl. 117-232.000.
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Rowland, Dan R., to General Motors Corporation. Stop for screw and nut actuator. 3,732,744, 5-15-73, Cl. 74-242.80r.
Rowland, David L. Furniture for seating people. 3,709,559, 1-9-73, Cl. 297-445.000.
Rowland, David L. Seating and sub-assembly for seats and backs. 3,720,568, 3-13-73, Cl. 161-48.000.
Rowland, David L. Seating unit. 3,747,977, 7-24-73, Cl. 297-445.000.
Rowland, David L. Seating and sub-assembly for seats and backs and method for making same. 3,767,261, 10-23-73, Cl. 297-452.000.
Rowland, David L. Seating and sub-assembly for seats and backs. 3,774,967, 11-27-73, Cl. 297-445.000.
Rowland Development Corporation: *See—*
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Rowland, Frederick F., to Roll-O-Sheets, Incorporated. Apparatus for shrink packaging. 3,778,964, 12-18-73, Cl. 53-184.000.
Rowland, John David: *See—*
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Rowland, Richard C.; Mahood, James A.; Jessee, Norman P.; Geer, Robert W.; and Peterson, Dennis C., to Bio-Logics, Inc. Medical testing system. 3,737,863, 6-5-73, Cl. 340-172.500.
Rowland, Stanley P.: *See—*
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Roberts, Earl J.; Wade, Clinton P.; and Rowland, Stanley P., 3,756,777.
Rowland, Stanley P.; Roberts, Earl J.; and Wade, Clinton P., to United States of America, Agriculture. N,N-diethylaziridinium chloride as a coreactant catalyst for reactions of N-methylol reagents with cellulose. 3,732,073, 5-8-73, Cl. 8-183.000.
Rowland, Stanley P., to United States of America, Agriculture. Simultaneous introduction of quaternary ammonium salt residues and sulfone residues into fibrous cellulose. 3,749,552, 7-31-73, Cl. 8-188.000.
Rowland-Hill, Edward W.: *See—*
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Rowland-Hill, Edward William, to Sperry Rand Corporation. Axial flow combine harvester. 3,742,686, 7-3-73, Cl. 56-12.900.
Rowland-Hill, Edward William; and Margerum, Edwin O., to Sperry Rand Corporation. Crop elevator for a combine. 3,779,251, 12-18-73, Cl. 130-27.0jt.
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Rowlands, Tom; and Hillman, James George Edward, to Molins Machine Company Limited. Apparatus for handling rod-like articles. 3,759,408, 9-18-73, Cl. 214-302.000.
Rowlett, Virgil O. Flint injection apparatus. 3,728,070, 4-17-73, Cl. 431-124.000.
Rowlette, John J., to Hughes Aircraft Company. Battery cell structure and method of determining state of charge. 3,720,869, 3-13-73, Cl. 324-29.500.
Rowley, David S.; and Ward, Charles E., to Christensen Diamond Products Company. Diamond drill bits. 3,709,308, 1-9-73, Cl. 175-329.000.

Rowley, Harold A., to Detrick, M. H., Company. Scrubbing apparatus for polluted gases. 3,726,064, 4-10-73, Cl. 55-241.000.
Rowley, James Robert: *See—*
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Rowley, Kermit G., to Tenneco Oil Company. Device for forming a flow restriction in a flow conductor. 3,751,964, 8-14-73, Cl. 72-470.000.
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Rowlund, Poul B.: *See—*
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Rowton, Richard Lee; and Yeakey, Ernest Leon, to Jefferson Chemical Company, Inc. Polyurea coating based on cyanoalkylated polyoxyalkylene polyamines. 3,714,128, 1-30-73, Cl. 260-77.5ch.
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Roy, Ashim Chandra. Composition and method for the detection of uric acid. 3,711,252, 1-16-73, Cl. 23-253.0tp.
Roy, Bhairab Nath; and Sekhar, Ranganatha Chandra, to Imperial Chemical Industries, Limited. Slurry explosive compositions containing N,N'-dinitrosopentamethylemetetramine as density control agent. 3,748,200, 7-24-73, Cl. 149-30.000.
Roy, Donald W.: *See—*
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Roy, Gerald L., to Kerr Glass Manufacturing Corporation. Sliding plunger dispensing closure. 3,738,545, 6-12-73, Cl. 222-525.000.
Roy, Henry, to DBM Industries, Limited. Apparatus attachable to an EDM for rotating electrode. 3,764,771, 10-9-73, Cl. 219-69.00v.
Roy, John R. Smokestack with vibration damper. 3,727,566, 4-17-73, Cl. 110-184.000.
Roy, John R. Electromagnetic positioning system. 3,774,097, 11-20-73, Cl. 318-563.000.
Roy, Joseph Gerald, to Union Carbide Corporation. Method and apparatus for incineration of thermoplastic materials. 3,710,739, 1-16-73, Cl. 110-18.00r.
Roy, Lynn H. Submarine pipeline trencher. 3,722,224, 3-27-73, Cl. 61-72.400.
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Roy, Prodyot; and Young, Robert S., to United States of America, Atomic Energy Commission. Device for measuring oxygen activity in liquid sodium. 3,776,831, 12-4-73, Cl. 204-195.00s.
Roy, Robert, to Colt Industries, Operating Corporation, mesne. Combination action spring guide and buffer for automatic pistol. 3,756,121, 9-4-73, Cl. 89-196.000.
Roy, Robert E., to Colt Industries Operating Corporation. Firing pin stop for a firearm. 3,750,319, 8-7-73, Cl. 42-70.00f.
Roy, Robert E., to Colt Industries, Operating Corporation, mesne. Pistol having movable barrel. 3,756,120, 9-4-73, Cl. 89-163.000.
Roy, Robert L., to Colt's Inc. Combination slide latch and takedown mechanism for automatic pistol. 3,745,881, 7-17-73, Cl. 89-163.000.
Roy, Rustum; Henisch, Heinz K.; and White, William B. Methods of stimulating luminescence in phosphors. 3,716,741, 2-13-73, Cl. 313-108.00r.
Roy, Upendra; Otto, Guenther H.; and Reece, Orvil Y., to United States of America, National Aeronautics and Space Administration. Synthesis of superconducting compounds by explosive compaction of powders. 3,752,665, 8-14-73, Cl. 75-135.000.
Roy, Wilho R.; and Pasavage, Stanley P. Security alarm actuating device. 3,754,224, 8-21-73, Cl. 340-274.000.
Royadjieff, George I.; and Verge, Kenneth W., to Bendix Corporation, The. Actuator assembly. 3,729,276, 4-24-73, Cl. 418-59.000.
Royal Brass Manufacturing Company, The: *See—*
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Ruben, Murray A. Battery charging circuit with SCR'S triggered by unijunction circuit having means for preventing unijunction from being latched on. 3,766,463, 10-16-73, Cl. 320-23.000.
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Ruben, Zorro D. Portable electric saw, grinder, sander or the like. 3,716,917, 2-20-73, Cl. 30-391.000.
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Rubin, David; and Seybold, John B., to United States of America, Navy. One shot multivibrator for variable width video edge detector. 3,725,682, 4-3-73, Cl. 307-273.000.
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Blubaugh, Robert J.; Buckle, Robert A.; and Watts, Hubert L

Rubio, Manuel Jesus, to Barrera, Roberto Gonzalez and Hermosa, Victor. Tortilla and process using water soluble alkaline substance. 3,730,732, 5-1-73, Cl. 99-80.00r.
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Ruda, Raymond J., to Bagcraft Corporation of America. Bag with draw band separably integral with bag body. 3,738,568, 6-12-73, Cl. 229-62.000.
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Rudolf, Wolfgang Hubertus, to Sulzer Brothers Limited. Irradiation system. 3,711,709, 1-16-73, Cl. 250-44.000.
Rudolph, Dietbert: *See*—
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Rudolph, Gerald A.; and Howard, James S. Convertible capsule container. 3,738,723, 6-12-73, Cl. 312-111.000.
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Rudolph, Hans; and Ye, Richard C., to Rudolph, Hans, Inc. Jaw exercising device. 3,721,439, 3-20-73, Cl. 272-83.00r.
Rudolph, Hans; Trenczek, Gerhard; Bockmann, August; Prater, Klaus; and Gutsche, Walter, to Farbenfabriken Bayer Aktiengesellschaft. Readily dispersible inorganic pigments. 3,728,142, 4-17-73, Cl. 106-300.000.
Rudolph, Hans. Low actuating pressure type valve structure. 3,739,801, 6-19-73, Cl. 137-102.000.
Rudolph, Hans, Inc.: *See*—
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Rudolph, Hans-Heinrich; Brede, Uwe; and Bendler, Hellmut, to Dynamit Nobel Aktiengesellschaft. Electronic safety bridge primer. 3,744,416, 7-10-73, Cl. 102-28.00m.
Rudolph, Otfried: *See*—
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Rudolph, Paul; and Kapp, Ernst, to Metallgesellschaft Aktiengesellschaft. Open-cycle gas turbine plant. 3,731,485, 5-8-73, Cl. 60-39.050.
Rudolph, Paul; and Kapp, Ernst, to Metallgesellschaft Aktiengesellschaft. Power plant process. 3,738,103, 6-12-73, Cl. 60-37.000.
Rudolph, Paul; and Kapp, Ernst, to Metallgesellschaft Aktiengesellschaft. Power plant process. 3,765,167, 10-16-73, Cl. 60-39.020.
Rudolph, Ralph G., to United States Steel Corporation. Electrical discharge suppression circuit. 3,749,979, 7-31-73, Cl. 317-16.000.
Rudolph, Ralph G., to United States Steel Corporation. Beam current limiting circuit. 3,760,279, 9-18-73, Cl. 328-8.000.
Rudolph, Werner: *See*—
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Rudy, Erwin, to Teledyne Industries, Inc. Castable carbonitride alloys. 3,708,355, 1-2-73, Cl. 148-32.000.
Rudy, Erwin, to Aerojet-General Corporation. Refractory metal alloy bonded carbides for cutting tool applications. 3,723,104, 3-27-73, Cl. 75-134.00m.
Rudy, Erwin, to Aerojet-General Corporation. Carbide alloy. 3,737,289, 6-5-73, Cl. 29-182.700.
Rudy, Erwin, to Aerojet-General Corporation. Carbide alloys suitable for cutting tools and wear parts. 3,779,745, 12-18-73, Cl. 75-176.000.
Rudy, Erwin, to Aerojet-General Corporation. Carbide alloys suitable for cutting tools and wear parts. 3,779,746, 12-18-73, Cl. 75-176.000.
Rudy, George J.: *See*—
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Rue, Howard M., to Sun Oil Company of Pennsylvania. Rust preventive concrete form release oil. 3,775,340, 11-27-73, Cl. 252-389.00a.
Rue, Larry M.: *See*—
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Rueff, Herbert: *See*—
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Ruegg, Erwin A., to Stoffel Seals Corporation. Plastic tag-fastening element. 3,724,109, 4-3-73, Cl. 40-22.000.
Ruegg, Frank A.; Spracklen, Stanford B.; and Cheatham, Burton L., II, to International Biophysics Corporation. Sterile inserter apparatus. 3,757,771, 9-11-73, Cl. 128-2.10e.
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Ruegsegger, Walter. Furnace for the combustion of solids. 3,707,931, 1-2-73, Cl. 110-8.00c.
Ruehle, Robert A. Self adjusting bridge circuit with negative feedback. 3,708,755, 1-2-73, Cl. 330-28.000.
Ruehle, William H., to Mobil Oil Corporation. Apparatus for and method of treating seismic data to obtain a wide band representation. 3,715,715, 2-6-73, Cl. 340-15.5dp.
Ruehle, William H., to Mobil Oil Corporation. Apparatus for and method of treating seismic data having attenuated high frequencies. 3,716,829, 2-13-73, Cl. 340-15.5dp.
Ruehlen, Forrest N.; and Fox, Homer M., to Phillips Petroleum Company. Multiporosity electrode for electrochemical conversion. 3,708,416, 1-2-73, Cl. 204-284.000.
Ruehlen, Forrest N., to Phillips Petroleum Company. Electrolytic cell. 3,721,619, 3-20-73, Cl. 204-272.000.
Ruekberg, Herbert S., to Continental Can Company, Inc. Electrostatic molding apparatus for preparing thermoplastic articles. 3,733,158, 5-15-73, Cl. 425-174.000.
Ruekberg, Herbert S., to Continental Can Company, Inc. Method for making plastic closure. 3,773,888, 11-20-73, Cl. 264-296.000.
Ruel, Maurice; Janssens, Jean-Marie; and Brousseau, Real, to Universite de Sherbrooke. Semicontinuous dilatometer/calorimeter. 3,739,639, 6-19-73, Cl. 73-190.00r.
Ruemens, Wilhelm: *See*—
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Ruether, Peter Gade, to Bell Telephone Laboratories, Incorporated. Communication call holding and supervising circuit. 3,742,151, 6-26-73, Cl. 179-99.000.
Ruetman, Sven H., to Dow Chemical Company, The. Synthesis of perchlorinated cyano compounds. 3,711,480, 1-16-73, Cl. 260-250.00r.
Ruetman, Sven H., to Dow Chemical Company, The. Perchlorinated vinyl pyrazines. 3,723,431, 3-27-73, Cl. 260-250.00r.
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Ruf, Eberhard, to Zimmer Aktiengesellschaft Planung und Bau von Industrieanlagen. Apparatus for conveying, mixing and homogenizing high viscosity materials. 3,740,025, 6-19-73, Cl. 259-7.000.
Ruf, Erich, to Goldschmidt, Th., A.G. Process for producing thiophosphoric acid triesters. 3,770,853, 11-6-73, Cl. 260-981.000.
Ruf, Max, to Audi NSU Auto Union Aktiengesellschaft and Wankel GmbH. Rotor for rotary-piston mechanism. 3,771,904, 11-13-73, Cl. 418-61.000.



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Rufer, Clemens; Schroder, Eberhard; and Kessler, Hans-Joachim, to Schering AG. 3-(5-Nitro-2-imidazolyl-methylenamino)-2-oxazolidinones. 3,752,809, 8-14-73, Cl. 260-240.00a.
Ruff, Herbert L. Upset-preventing devices for tractors. 3,763,956, 10-9-73, Cl. 180-104.000.
Ruff, John Denis. Electrostatic discharge device. 3,745,412, 7-10-73, Cl. 317-2.00r.
Ruffer, Holm; Kempin, Willy; and Kraus, August, to Staub & Co. AG. Apparatus for treating hide and leather pieces in tanneries. 3,762,190, 10-2-73, Cl. 69-32.000.
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Ruffle, William H.; and Hemsley, Brian C., said Hemsley assor. to Dugard, C., Limited. Battery power control device. 3,712,399, 1-23-73, Cl. 180-19.00r.
Ruffo, Angelo P.; and Goyal, Prashant K., to Johnson & Johnson. Web forming process. 3,768,118, 10-30-73, Cl. 19-156.300.
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Ruge, Hans, to Klaus-Gerd Hoes, Firma. Apparatus for digging ditches. 3,726,099, 4-10-73, Cl. 61-72.600.
Ruge, Jurgen; and Eggers, Heiner, to Steigerwald Strahltechnik GmbH. Process for precision setting of the electron beam in electron beam welding. 3,752,952, 8-14-73, Cl. 219-121.0em.
Ruger, William B.; and Larson, Lawrence L., to Sturm, Ruger & Co., Inc. Safety device for revolvers. 3,738,042, 6-12-73, Cl. 42-66.000.
Ruger, William B.; and Larson, Lawrence L., to Sturm, Ruger & Co., Inc. Loading gate arrangement for single action revolver. 3,768,190, 10-30-73, Cl. 42-66.000.
Ruger, William B.; and Larson, Lawrence L., to Sturm, Ruger & Co., Inc. Mechanism for single action firearm. 3,777,384, 12-11-73, Cl. 42-66.000.
Ruget, Gabriel. Electromagnetic clutches. 3,713,519, 1-30-73, Cl. 192-53.00d.
Ruget, Gabriel, to Creusot-Loire. Electromagnetic powder couplings. 3,739,887, 6-19-73, Cl. 192-21.500.
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Ruggen, Werner; Krellmann, Herbert; and Bache, Helmut, to Maschinenfabrik Stromag G.m.b.H. Flexible coupling having friction-increasing means. 3,747,366, 7-24-73, Cl. 64-11.000.
Rugger, Warren E. Concrete form securing means. 3,741,516, 6-26-73, Cl. 249-216.000.
Ruggeri, Joseph P. Weapon handling apparatus. 3,712,567, 1-23-73, Cl. 244-137.00r.
Ruggeri, Joseph P., to United States of America, Navy. Bombload handling apparatus. 3,719,338, 3-6-73, Cl. 244-137.00r.
Ruggerio, Paul A., to GTE Laboratories Incorporated. Method of making photomasks of the type used in the fabricationn of microelectronic circuits. 3,716,363, 2-13-73, Cl. 96-66.00r.
Ruggerone, Artemio P., to Shapoff, Lloyd M. Method of preserving cooked potatoes. 3,773,527, 11-20-73, Cl. 426-106.000.
Ruggerone, Guiseffe, to Nasco, Inc. Storing. 3,743,372, 7-3-73, Cl. 312-108.000.
Ruggiero, Edward M.: *See—*
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Ruggles, Clyde M. Drill bit gauge. 3,779,663, 12-18-73, Cl. 408-113.000.
Ruhl, Charles A. L.; Meyer, Edward; and Chatterjea, Probin K., to International Harvester Company. Hydrostatic transmission control with hydraulic follow-up. 3,756,030, 9-4-73, Cl. 60-487.000.
Ruhl, Rudolf, to Leitz, Ernst, G.m.b.H. Wide-angle lens. 3,740,120, 6-19-73, Cl. 350-214.000.
Ruhland, John, to Xerox Corporation. Cleaning apparatus. 3,781,107, 12-25-73, Cl. 355-15.000.
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Ruhnke, Lothar H., to United States of America, National Aeronautics and Space Administration. Rocket borne instrument to measure electric fields inside electrified clouds. 3,760,268, 9-18-73, Cl. 324-72.000.
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Rule, A. E., (1965) Limited: *See—*
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Rumanowski, Edmund J., to Allied Chemical Corporation. Alkyl-N-alkyl-chlorophenoxythioacetimidates. 3,715,380, 2-6-73, Cl. 260-453.00r.
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Rumbaugh, Don K. Condition sensing assembly positioned as washer. 3,736,394, 5-29-73, Cl. 200-158.000.
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Runck, Alan H.; and Valeri, Cesare Robert, to United States of America, Navy. Method and means for determining oxyhemoglobin association and dissociation curves of whole or other liquids. 3,779,708, 12-18-73, Cl. 23-230.00b.
Runckel, John L., to Skyline Northwest Corporation. Dental floss dispensing case. 3,746,225, 7-17-73, Cl. 225-19.000.
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Runde, Robert J., to Le Blanc, G., Corporation. Woodwind tenon ring and method. 3,748,946, 7-31-73, Cl. 84-380.000.
Rundell, Clark A.; and McDaniel, Carl V., to Grace, W. R., & Co. Process for the preparation of zeolitic alumino-metallo silicates. 3,769,386, 10-30-73, Cl. 423-263.000.
Rundell, Clark A.; and McDaniel, Carl V., to Grace, W. R., & Co. Process for preparing zeolitic bodies having high strength characteristics. 3,777,006, 12-4-73, Cl. 423-118.000.
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Rundell, Herbert A.; and Pittman, Robert W., to Texaco Inc. Apparatus for controlling the rotary speed of a drill. 3,724,558, 4-3-73, Cl. 173-1.000.
Rundell, Herbert A.; and Davis, James B., to Texaco Inc. Method and apparatus for monitoring the wear on a rotary drill bit. 3,774,445, 11-27-73, Cl. 73-151.000.
Rundell, James R., to Cyprus Mines Corporation. Wire and cable printer. 3,709,143, 1-9-73, Cl. 101-37.000.
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Rundt, Ronald J., to Amoco Production Company. Sand screen sand saver. 3,766,981, 10-23-73, Cl. 166-202.000.
Runey, George P., Jr. Lantern holder. 3,745,329, 7-10-73, Cl. 240-52.100.
Runge, Detlev; and Gotz, Werner, to Bosch, Robert, G.m.b.H. Arrangement for preventing the locking of wheels of motor vehicles. 3,736,435, 5-29-73, Cl. 307-10.00r.
Runge, Heinz, to Kraftco Corporation. Method and apparatus for preparing cheese cuts. 3,776,073, 12-4-73, Cl. 83-47.000.
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Runge, Wallace F., to Commercial Solvents Corporation. Process for producing tributyl phosphate having low sodium ion content. 3,729,533, 4-24-73, Cl. 260-990.000.
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Runkle, Dean E., to Bendix Corporation, The. By-pass flow diffuser. 3,747,475, 7-24-73, Cl. 91-445.000.
Runnells, Robert R.; and Longson, Frank W., to MDT Instrument Company. Method for preventing air embolism in a syringe for angiographic power injector. 3,752,145, 8-14-73, Cl. 128-2.00r.
Runnels, Joe N.; and Strandbygaard, Svend, to Boeing Company, The. Jet augmented ram air scoop. 3,752,422, 8-14-73, Cl. 244-118.00r.
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Runstadler, Peter W., Jr.; Nord, Eric T.; Hastings, Donald R.; Rosen, Samuel R.; Scarsborough, Don R.; and Wilhelm, Frederick R., to Nordson Corporation. Method and apparatus for producing a flat fan paint spray pattern. 3,734,406, 5-22-73, Cl. 239-8.000.
Runstadler, Peter W., Jr.; Nord, Eric T.; Hastings, Donald R.; Scarbrough, Don R.; and Wilhelm, Frederick R., to Nordson Corporation. Method and apparatus for spraying. 3,764,069, 10-9-73, Cl. 238-8.000.
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Runtz, Jean W., to North American Philips Corporation. Multi-position switch with improved wafer switch contact arrangement. 3,731,017, 5-1-73, Cl. 200-11.00d.
Runtzel, Royal K.; and Goede, Walter F., to Northrop Corporation. Area electron flood gun. 3,746,909, 7-17-73, Cl. 315-13.00r.
Runyan, James E., to Q-Dot Corporation. Heat pipe and method and apparatus for fabricating same. 3,753,364, 8-21-73, Cl. 72-71.000.
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Ruof, Edgar J., to Goodyear Tire & Rubber Company, The. Skid detector circuit. 3,724,902, 4-3-73, Cl. 303-21.0cg.
Ruof, Edgar J., to Goodyear Tire & Rubber Company, The. Wheel speed transducer frequency doubling circuit. 3,770,327, 11-6-73, Cl. 303-21.00r.
Ruof, Edgar J., to Goodyear Tire & Rubber Company, The. Electrically controlled braking system. 3,776,605, 12-4-73, Cl. 303-21.00a.
Ruoff, Laurence J.; and Brewer, Lani W., to Data Handling Corporation. Digital magnetic tape transports. 3,731,890, 5-8-73, Cl. 242-188.000.
Ruohola, Tuomo; Nyberg, Pauli Unto Juhani; Joutsen, Ero Oskari; and Ennelin, Kullervo, to Oy Tampella AB. Method and device for the treatment of refuse. 3,747,542, 7-24-73, Cl. 110-8.00r.
Ruoss, Christian William, to Combustion Engineering Inc. Control arrangement for self-closing control rod latches. 3,765,585, 10-16-73, Cl. 226-59.000.
Ruoti, Vincenzo; and Farioli, Felice, to Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Preparation of moulding compositions containing glass fibers. 3,751,535, 8-7-73, Cl. 264-141.000.
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Rupp, Hans-Dieter; and Magerlein, Helmut, to Glanzstoff AG. Process for removing thiourea as an impurity from alkali- and alkaline earth- metal rhodanides. 3,723,604, 3-27-73, Cl. 423-366.000.
Rupp, Hans-Dieter; Meyer, Gerhard; and Magerlein, Helmut, to Akzo N.V. Process for the production of thiphosgene. 3,776,954, 12-4-73, Cl. 260-543.000.
Rupp, Herbert E., II, to Rupp Industries, Inc. Adjustable eccentric bearing mountings. 3,733,919, 5-22-73, Cl. 74-242.160.
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Rupp, Walter; and Beermann, Claus, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of poly-β-amides. 3,708,460, 1-2-73, Cl. 260-78.001.
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Ruppenthal, Wayne W. Paper storage and baling container. 3,780,854, 12-25-73, Cl. 206-46.00r.
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Rupprecht, Hans S.; and Woodall, Jerry M., to International Business Machines Corporation. Preparation of semiconductor ternary compounds of controlled composition by predetermined cooling rates. 3,773,571, 11-20-73, Cl. 148-172.000.
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Rus, Pieter Jan; Le Poole, Jan Bart; and Kramer, Johannes, to U.S. Philips Corporation. Electron beam apparatus with beam-stabilisation system. 3,767,927, 10-23-73, Cl. 250-311.000.
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Rusbach, Maurice, to Sarmac S.A. Transporting and firing chest for self-propelled projectiles. 3,754,497, 8-28-73, Cl. 89-1.814.
Rusbach, Maurice, to Sarmac S.A. Assembly comprising a self-propelled finned projectile and its case. 3,754,726, 8-28-73, Cl. 244-3.280.
Rusbach, Maurice, to Sarmac S.A. Tripod mounting with levelling device for projectile launcher. 3,762,269, 10-2-73, Cl. 89-40.00e.
Rusbach, Maurice, to Sarmac S.A. Set comprising an infantry weapon and its ammunition. 3,780,616, 12-25-73, Cl. 89-1.800.
Rusch, Allan C.; and Bubak, John, to Massey-Ferguson Inc. Hydrostatic transmission. 3,757,525, 9-11-73, Cl. 60-492.000.
Rusch, David T.; and Lynch, Matthew J., to ICI America, Inc. Ready-to-eat cereal and coating composition. 3,769,438, 10-30-73, Cl. 426-99.000.
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Ruschke, Lawrence J., Jr., to Bell & Howell Company. Multiple-torque slip clutch. 3,746,137, 7-17-73, Cl. 192-48.500.
Ruscitti, Tomaso, to Coster Tecnologie Speciali S.p.A. Valve for delivering metered amounts of aerosol material from containers therefor. 3,738,542, 6-12-73, Cl. 222-402.160.
Rusco, Harvey H. Power driven auger attachment for snowmobiles. 3,731,751, 5-8-73, Cl. 173-25.000.
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Rush, Clifford W.; and Schurman, Peter T., to Beaton & Corbin Manufacturing Company, The. Arcuate tubular articles of rigid plastic. 3,719,209, 3-6-73, Cl. 138-177.000.
Rush, Hugh M.; and Gerard, Milan E., to Rohr Corporation. Holographic testing apparatus. 3,711,202, 1-16-73, Cl. 356-109.000.
Rush, Jerome. Portable strip cutter. 3,709,081, 1-9-73, Cl. 83-411.000.
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Rushing, Frank C.; and Aulthouse, Robert R., to Westinghouse Electric Corporation. Self-starting synchronous integrated motor-wheel drive. 3,732,357, 5-8-73, Cl. 178-5.4cf.
Rushing, Frank C.; and Gilbert, Lynford W., to Westinghouse Electric Corporation. Reflector. 3,781,095, 12-25-73, Cl. 350-310.000.
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Rushmere, John Derek, to Du Pont de Nemours, E. I., and Company. Acid zinc electroplating. 3,723,262, 3-27-73, Cl. 204-55.00r.
Rushmere, John Derek, to Du Pont de Nemours, E. I., and Company. Acid zinc electroplating. 3,769,184, 10-30-73, Cl. 204-55.00r.
Rushton, Brian M.; Rosenfeld, Jerold C.; and Hindersinn, Raymond R., to Hooker Chemical Corporation. Preparation of polyhalogenated polyesters from polyhalocyclopentadienes carboxylic compounds and polyols or polyol forming materials. 3,772,406, 11-13-73, I. 260-869.000.
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Rusin, Dominic J. Deburring tool. 3,720,477, 3-13-73, Cl. 408-226.000.
Rusk, Gerald R.; and Koch, Robert E., to Freeman Supply Company, The. Quick change indicia for patterns and the like. 3,734,448, 5-22-73, Cl. 249-103.000.
Rusk, Gerald R.; and Koch, Robert E., to Freeman Supply Company, The. Wrench. 3,742,789, 7-3-73, Cl. 81-90.00c.
Rusk, Gerald R.; and Kock, Robert E., to Freeman Supply Company, The. Guide bushing assembly for flask, patterns, and the like. 3,776,299, 12-4-73, Cl. 164-385.000.
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Russ, Paul E., Sr., to Gates Rubber Company, The. Drive system for a flexible track. 3,711,165, 1-16-73, Cl. 305-35.0eb.
Russ, Paul E., Sr., to Gates Rubber Company, The. Edge rib for endless track. 3,747,994, 7-24-73, Cl. 305-35.0eb.
Russ, Paul E., Sr., to Gates Rubber Company, The. Reinforcement for endless track. 3,747,995, 7-24-73, Cl. 305-35.0eb.
Russ, Paul E., Sr., to Gates Rubber Company, The. Endless track. 3,756,668, 9-4-73, Cl. 305-35.0eb.
Russ, Paul E., Sr., to Gates Rubber Company, The. Endless track suspension system. 3,761,143, 9-25-73, Cl. 305-24.000.
Russ, Paul E., Sr., to Gates Rubber Company, The. Tread element for flexible track. 3,762,779, 10-2-73, Cl. 305-35.0eb.
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Russell, Alexander, to National Research Development Corporation. Machine position detection and control devices. 3,755,682, 8-28-73, Cl. 250-231.00r.
Russell, Allen S.; Knapp, Lester L.; and Haupin, Warren E., to Aluminum Company of America. Production of aluminum. 3,725,222, 4-3-73, Cl. 204-67.000.
Russell, Allen S.; and Knapp, Lester L., to Aluminum Company of America. Furnace structure. 3,773,643, 11-20-73, Cl. 204-243.00r.
Russell, Allen S.; and Knapp, Lester L., to Aluminum Company of America. Furnace structure. 3,779,699, 12-18-73, Cl. 432-248.000.
Russell, Arvin E. Dump body vehicle. 3,719,392, 3-6-73, Cl. 298-5.000.
Russell, Barney G. Safety lighter. 3,723,048, 3-27-73, Cl. 431-151.000.
Russell, Carl D. End of page signalling device. 3,710,916, 1-16-73, Cl. 197-189.000.
Russell, Carl D., 1% to Overholt, Harvey C., Overholt, Anne E., 1% to Kygar, W. L., 5% to Parker, R. A. and Parker, Evelyn B. Combination time delay and self-actuating voltage level protective circuit for vehicular electrical systems. 3,723,752, 3-27-73, C. 307-10.0bp.
Russell, Carl D., to Aquarius, Inc. Method and apparatus accommodating panel construction. 3,770,310, 11-6-73, Cl. 294-64.00r.
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Russell, George E. Water ski with venturi channel and means for securing foot retainers. 3,731,328, 5-8-73, Cl. 9-310.0aa.
Russell, George F. High efficiency heat transit system. 3,779,310, 12-18-73, Cl. 165-105.000.
Russell, George K.; Criley, Ronald L.; and Frost, Richard H., to Frost Engineering Development Corporation. Speed sensitive self-energizing brake. 3,738,456, 6-12-73, Cl. 188-184.000.
Russell, Gordon D., to Johnson & Johnson. Nonwoven sponge fabric. 3,743,536, 7-3-73, Cl. 117-138.500.
Russell, Herman F. Trimming guide for meat. 3,731,579, 5-8-73, Cl. 83-802.000.
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Russell, Kenneth F.; Baildon, Shipley; and Collinson, John D., to Rank Organisation Limited, The. Loudspeakers. 3,720,285, 3-13-73, Cl. 181-31.00b.
Russell, Kenneth L., to Cities Service Oil Company. Method for detecting geopressures. 3,770,378, 11-6-73, Cl. 23-230.0ep.
Russell, Kenneth M. Modification means for changing wheeled vehicles to all-terrain vehicles. 3,712,688, 1-23-73, Cl. 305-34.000.
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Russell, Michael Frederick. Internal combustion engine. 3,726,365, 4-10-73, Cl. 188-1.00b.
Russell, Michael Frederick, to C.A.V. Limited. Pulleys. 3,741,025, 6-26-73, Cl. 74-230.400.
Russell, Michael King. Drilling devices. 3,713,500, 1-30-73, Cl. 175-73.000.
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Russell, Robert G., to Owens-Corning Fiberglas Corporation. Method and apparatus for manufacturing continuous filaments. 3,736,116, 5-29-73, Cl. 65-2.000.
Russell, Robert G., to Owens-Corning Fiberglas Corporation. Method and apparatus for processing glass and forming fibers therefrom. 3,775,074, 11-27-73, Cl. 65-2.000.
Russell, Robert J.; and Pierce, Edwin F., said Russell assor. to Kenco Corporation. Envelope opening method and apparatus. 3,764,049, 10-9-73, Cl. 225-3.000.
Russell, Robert Louis. Drum beater. 3,747,464, 7-24-73, Cl. 84-422.000.
Russell, Robert O.: *See*—
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Russell, Roger Howard, to McIntosh Laboratory, Inc. Loudspeaker system. 3,715,501, 2-6-73, Cl. 179-1.00d.
Russell, Ronald W.: *See*—
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Witte, Robert S.; Dailey, C. Lee; Eck, Milford J.; and Ruther-
Shen, Tsung Yin; Ruzic, William; and Ruzic, Nicholas P.

Russell, Ronald W.; and Solomon, James E., to Motorola, Inc. High voltage operational amplifier. 3,737,800, 6-5-73, Cl. 330-207.00p.
Russell, Sidney Major. Suspension units for files. 3,741,402, 6-26-73, Cl. 211-104.000.
Russell, Stanley K., to Ferro Corporation. Cooling means for forming glass fibers. 3,759,681, 9-18-73, Cl. 65-12.000.
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Russell, Stanley L.; and Pommerening, Uwe A., to Stromberg-Carlson Corporation. Circuit for detecting the presence of other than one-bit-out-of-N bits. 3,744,024, 7-3-73, Cl. 340-146.1ab.
Russell, Stanley L.; Gueldenpfennig, Klaus; and Pommerening, Uwe A., to Stromberg-Carlson Corporation. Private automatic branch exchange service circuit complex. 3,769,462, 10-30-73, Cl. 179-18.0ad.
Russell, Taft Birch; and Gracie, John, to Taft Electrosystems, Inc. Power transmission fault indicator with automatic reset means. 3,720,872, 3-3-73, Cl. 324-133.000.
Russell, Theodore B. Stimulator. 3,734,085, 5-22-73, Cl. 128-36.000.
Russell, Theodore B. Mobile log-noter. 3,780,461, 12-25-73, Cl. 40-86.000.
Russell, Thomas R., to Flintkote Company, The. Method of making pressure-sensitive hot-melt adhesives. 3,736,281, 5-29-73, Cl. 260-27.00r.
Russell, Wayne B., Jr. Self-loading drill rig hopper. 3,747,697, 7-24-73, Cl. 175-88.000.
Russell, Wayne B., Jr. Operator safety oriented earth auger. 3,756,330, 9-4-73, Cl. 175-203.000.
Russell, Wayne B., Jr. Rotary and linear driven double-acting cylinder. 3,768,578, 10-30-73, Cl. 173-150.000.
Russell, William J., to Robertshaw Controls Company. Fluid pressure transmitter and system therefor. 3,718,280, 2-27-73, Cl. 236-44.00r.
Russell, William J., to Robertshaw Controls Company. Proportional controller and parts therefor or the like. 3,757,265, 9-4-73, Cl. 338-150.000.
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Russell, Winfield P. Combination pack and cot. 3,730,407, 5-1-73, Cl. 224-9.000.
Russell-French, Harry M., to Budd Company, The. Resiliently mounted railway vehicle truck. 3,720,175, 3-13-73, Cl. 105-224.100.
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Shilov, Alexandr E.; Dyachkovsky, Fridrikh S.; Chirkov, Nikolai Mikhailovich; Matkovsky, Petr E.; Aronovich, Khaim-Mordkhe; Beikhold, Alina A.; and Russian, Ljudmila, 3,781,220.
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Russo, Robert Victor, to Celanese Corporation. Moldable polybutylene terephthalate compositions containing acicular calcium metasilicate. 3,764,576, 10-9-73, Cl. 260-40.00r.
Russo, Ronald D.: *See—*
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Russo, Ronald D., to Koehler-Dayton, Inc. Indirector chlorinator. 3,762,553, 10-2-73, Cl. 210-152.000.
Russo, Thomas C.: *See—*
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Rustad, Norman E., to Quaker Oats Company, The. Method of curing polyurethane prepolymers with liquid extender comprising 4,4'-methylenebis (2-chloroaniline) and low molecular weight. 3,718,624, 2-27-73, Cl. 260-77.5am.
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Ruston, Gary Richard. Toy ornithopter wing-driving mechanism. 3,728,814, 4-24-73, Cl. 46-74.00r.
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Ruth, Frank Van. Bore hole plug. 3,756,316, 9-4-73, Cl. 166-132.000.
Ruth, John E. Storage system for single guide means. 3,737,047, 6-5-73, Cl. 211-162.000.
Ruth, Kenneth. Recoil absorber. 3,707,797, 1-2-73, Cl. 42-74.000.
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Rutherford, Frank; Arenson, Ivor Gerald; Cracknell, Alan George; Foulds, William Henry; and Derrick, Albert, to Arenson, A., Limited. Desks. 3,709,577, 1-9-73, Cl. 312-263.000.
Rutherford, Henry Ames: *See—*
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Ruthman Machinery Company, The: *See—*
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Ruthrof, Klaus, to Siemens Aktiengesellschaft. Device for reclaiming sweet water from sea water or brackish water. 3,717,554, 2-20-73, Cl. 202-238.000.
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Rutkiewic, Andrew F., to Du Pont de Nemours, E. I., and Company. Process for preparing stable aqueous solutions of N-halo compounds. 3,767,586, 10-23-73, Cl. 252-187.00h.
Rutkowski, Edward J.; and Schneller, Joseph W., to National Gypsum Company. Wallboard attachment. 3,733,231, 5-15-73, Cl. 156-71.000.
Rutkowski, Marian; and Wieckowska, Jadwiga, to Politechnika Wroclawska. Method of forming of the wet fines and coal silts and an equipment suitable for applying the method. 3,752,656, 8-14-73, Cl. 44-2.000.
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Rutledge, James L., to Motorola, Inc. Integrated circuit fabrication method. 3,747,200, 7-24-73, Cl. 29-571.000.
Rutley, Russell. Traction apparatus for vehicle tires. 3,756,613, 9-4-73, Cl. 280-8.000.
Rutman, Robert J., to University of Pennsylvania, The Trustees of the. N,N'-(Ethylene)-4,4'-bipiperidyl dechloride growth promoting compound and method of using same. 3,723,621, 3-27-73, Cl. 424-267.000.
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Rutt, Truman C., to N L Industries, Inc. Method for forming electrodes and conductors. 3,772,748, 11-20-73, Cl. 29-25.420.
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Rutz, Hans; and Gubler, Kurt, to Ciba-Geigy Corporation. Acaracidal compositions and methods comprising aliphatically substituted thioulfinyl and sulfonyl-alkyl-2,4,5-trihalogeno imidazoles. 3,773,960, 11-20-73, Cl. 424-273.000.
Rutzen, Horst; and Rittmeister, Wilhelm, to Henkel & Cie G.m.b.H. Process for the preparation of unsaturated fatty alcohols. 3,729,520, 4-24-73, Cl. 260-638.00a.
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Ruyle, William V., to Merck & Co., Inc. Sulfanilyl phenyl urea complexes useful against Marek's disease. 3,717,623, 2-20-73, Cl. 260-96.50c.
Ruzicka, Josef. Ultradisintegration and agglomeration of minerals such as mica, products therefrom and apparatus therefor. 3,719,329, 3-6-73, Cl. 241-4.000.
Ruzmus, Walter J., to Kelsey-Hayes Company. Adjustable gate for butt welding machine. 3,720,239, 3-13-73, Cl. 140-2.000.
Ruzzo, Joseph G., Jr., to United States of America, Air Force. Method for preparing pasted nickel hydroxide electrode. 3,725,129, 4-3-73, Cl. 136-29.000.
Rvkoczy, Bohdan, to Du Pont de Nemours, E. I., and Company. Process for preparing hydrolyzed modified gelatin followed by reaction with dibasic acid anhydride. 3,763,138, 10-2-73, Cl. 260-117.000.
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Ryan, Frederick M.; and Miller, Robert C., to Westinghouse Electric Corporation. Phosphor combination and method, particularly adapted for use with explosives, for providing a distinctive information label. 3,772,099, 11-13-73, Cl. 149-18.000.
Ryan, Herbert Alan; and Friedmann, Charles Aubrey, to Westminister Laboratories, Limited. Pharmaceutical compositions containing lithium rheinanthrone and lithium rheinanthrone complex salt. 3,755,602, 8-28-73, Cl. 424-317.000.
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Ryan, John Justin. Frying pan with a welded hollow-care expansion joint. 3,767,896, 10-23-73, Cl. 219-438.000.
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Ryan, Merle E.; and Stremel, William D., to Bendix Corporation, The. Crush dressing control mechanism. 3,721,047, 3-20-73, Cl. 51-165.780.

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Ryan, Michael W. Artificial foot having ankle flexible mount. 3,754,286, 8-28-73, Cl. 3-32.000.

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Ryan, William D. Method of laminating continuous material. 3,734,800, 5-22-73, Cl. 156-309.000.

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Ryba, Anton. Fan, particularly for cooling systems in motor vehicles. 3,749,519, 7-31-73, Cl. 416-241.000.

Rybak, Richard A., to Hansen Manufacturing Company, The. Plant support device. 3,739,525, 6-19-73, Cl. 47-44.000.

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Rybicki, Robert C., to United Aircraft Corporation. Compound bearing for connecting a helicopter blade to a helicopter rotor. 3,759,631, 9-18-73, Cl. 416-134.000.

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Rychkov, Vladimir Leonidovich: *See*—
Smirnov, Boris Andreevich; Axenova, Emilia Ivanovna; Rychkov, Vladimir Leonidovich; and Lukichev, Nikolai Dmitrievich, 3,707,970.

Rychlewski, Thaddeus; and Wanner, Louis R., to GTE Sylvania Incorporated. Multiplex image accommodation system. 3,751,593, 8-7-73, Cl. 178-7.200.

Rychlewski, Thaddeus V.; and Serang, Abdulgafoor M., to GTE Sylvania Incorporated. Electret phonograph pickup. 3,760,126, 9-18-73, Cl. 179-100.4lb.

Rychlik, Frank J., to Illinois Tool Works Inc. Plastic needle holder. 3,766,915, 10-23-73, Cl. 128-214.400.

Ryckman, William D., Jr., to General Electric Company. Apparatus for heating dispensed flowable material. 3,733,460, 5-15-73, Cl. 219-308.000.

Ryckman, William D., Jr., to General Electric Company. Food warming dish. 3,739,148, 6-12-73, Cl. 219-441.000.

Ryco Graphic Mfg., Inc.: *See*—
Sills, Donald K.; and Queen, Hardis, 3,763,778.

Ryczek, William G., to Allis-Chalmers Corporation. Tilting grain bin unloader. 3,771,676, 11-13-73, Cl. 214-83.260.

Rydax, Incorporated: *See*—
Rypinski, Chandos A., Jr., 3,764,926.

Rydberg, Rudolph C. Drag scoop and line for retrieval of golf balls from water hazards. 3,756,644, 9-4-73, Cl. 294-66.00r.

Rydberg, Sigge. Heat engines. 3,751,904, 8-14-73, Cl. 60-24.000.

Rydberg, Sverker, to System Research Inc. Non-return valves. 3,730,218, 5-1-73, Cl. 137-535.000.

Ryden, James W., to Advanced Management Engineering & Research Co. Hitch bar stabilizer. 3,709,523, 1-9-73, Cl. 280-502.000.

Ryder, Francis E., to Value Engineered Components, Inc. Molding apparatus. 3,737,268, 6-5-73, Cl. 425-192.000.

Ryder, Francis E., to Value Engineered Components, Inc. Nut type fastener. 3,747,657, 7-24-73, Cl. 151-41.700.

Ryder, Geoffrey Alan; trading as Design Link: *See*—
Milik, Rudolf F. L., 3,751,011.

Ryder, Steven P.: *See*—
Williams, Robert G.; Howard Lawrence W.; Thompson, Richard J.; Prater, Johnny L.; and Ryder, Steven P., 3,750,459.

Rydeski, Julian A., to Westinghouse Electric Corporation. One piece aluminum electrical contact member for semiconductor devices. 3,717,797, 2-20-73, Cl. 317-234.00r.

Rydeski, Roman R.; and Conway, Richard F. Method of preparing puffable food pellets from pork skins. 3,725,084, 4-3-73, Cl. 99-107.000.

Rydh, Thore Oskar Verner, to Astra Lakemedel Aktiebolag. Salts of 1-ephedrine and A D (-)-α-azidofluoro-phenylacetic acid. 3,755,373, 8-28-73, Cl. 260-349.000.

Rydlewicz, Alexander H.: *See*—
Kulig, Constantine W.; and Rydlewicz, Alexander H., 3,776,342.

Rye, Grover W.: *See*—
Funsch, Owen B.; and Rye, Grover W., 3,762,364.

Rye Limited: *See*—
Kipling, Barry John, 3,734,092.

Ryen, Ronald G. Rotary radial piston engine. 3,746,480, 7-17-73, Cl. 418-37.000.

Ryer, Chester M.: *See*—
Hagie, Laird T.; and Ryer, Chester M., 3,720,739.

Ryer, Jack: *See*—
Jacobson, Norman; and Ryer, Jack, 3,728,091.

Ryerson, James N.; and Wall, Theodore R., to Oxy Metal Finishing Corporation. Vee notch weir level control system. 3,763,028, 10-2-73, Cl. 204-237.000.

Ryerson, Joseph L., to Broomfield Ryerson Research Corporation. Lithium storage cells with a fused electrolyte. 3,775,181, 11-27-73, Cl. 136-6.0lf.

Ryffel, Henry H.: *See*—
DeBruyne, Neil A.; and Ryffel, Henry H., 3,776,067.

Ryffel, Kaspar: *See*—
Lys, Hans-Peter; and Ryffel, Kaspar, 3,743,690.

Rygg, Gregers G., to Avco Corporation. Integral multichannel separator. 3,778,983, 12-18-73, Cl. 55-306.000.

Rygiol, Henry V. Multi-arc pipe welding. 3,780,254, 12-18-73, Cl. 219-61.000.

Rygiol, Henry V. Method of welding employing square wave current pulses and causing the molten metal to resonate. 3,781,511, 12-25-73, Cl. 219-137.000.

Rylander, Paul N.; Karpenko, Irene M.; and Pond, George R., to Engelhard Minerals & Chemicals Corporation. Process for preparing para-aminophenol. 3,715,397, 2-6-73, Cl. 260-575.000.

Rylands, Patrick, to Rosedale Industries Limited. Plaything. 3,710,503, 1-16-73, Cl. 46-1.00r.

Rylands, Patrick, to Rosedale Industries Limited. Plaything. 3,710,504, 1-16-73, Cl. 46-1.00r.

Ryley, Derek Vernon; and Claydon, Gyongyver, to Marconi Company Limited, The. Television camera automatic beam alignment. 3,710,018, 1-9-73, Cl. 178-7.200.

Ryman Engineering Company: *See*—
Fatula, James J., 3,733,929.

Rymes, John Edis, to Mannix Co., Ltd. Upper turntable apparatus for positioning railroad ties. 3,728,968, 4-24-73, Cl. 104-5.000.

Rymes, William H., to United States of America, Navy. Electronic counter-countermeasures system. 3,780,371, 12-18-73, Cl. 343-18.00e.

Rymsza, Mark T., to MacLean-Fogg Lock Nut Co. Load binder. 3,726,507, 4-10-73, Cl. 254-78.000.

Ryn, Edwin Van; and Driesenga, Edwin J., to Keeler Brass Company. Method of assembling a drawer pull. 3,775,830, 12-4-73, Cl. 29-434.000.

Rynbrandt, Ronald H., to Upjohn Company, The. Exo-bicycloalkane carboxamides. 3,725,423, 4-3-73, Cl. 260-295.00k.





Rynbrandt, Ronald H., to Upjohn Company, The. Alkylthio and phenylthio cyclopropylamines from the reaction of chloromethyl sulfides with enamines. 3,770,747, 11-6-73, Cl. 260-293.730.

Rynne, George Bernard: *See*—
Poor, John Gove; and Rynne, George Bernard, 3,730,855.

Ryon, David M., to General Electric Company. Textured membranes for blood dialyzers, oxygenators and the like. 3,724,673, 4-3-73, Cl. 210-500.000.

Rypinski, Chandos A., Jr., to Rydax, Incorporated. Method and apparatus for demodulating a phase reversal modulated alternating current wave. 3,764,926, 10-9-73, Cl. 329-104.000.

Rys, Tadeusz J., to Square D Company. Raintight enclosure having particular cover mounting means. 3,768,690, 10-30-73, Cl. 220-38.000.

Rys, Tadeusz J., to Square D Company. Safety switch with sealable cover and interlock means for preventing operation of sealing means when cover is fully open. 3,777,084, 12-4-73, Cl. 200-50.00a.

Rysdam, John E., II. Extensible bunk stake for log trucks. 3,712,639, 1-23-73, Cl. 280-146.000.

Ryser, Raymond, to Manufacture de boites de Montres S. Graber S.A. Hermetic watch-case. 3,722,208, 3-27-73, Cl. 58-90.00r.

Ryss, Jury Samuilovich; Ovchinnikova, Tamara Mikhailovna; Gavrilov, Jury Georgievich; Voronin, Dmitry Vyacheslavovich; and Panteleimonov, Vladimir Mikhailovich. Method of geophysical prospecting of ore deposits. 3,758,846, 9-11-73, Cl. 324-1.000.

Rysti, Alpo. Timber conveyor. 3,720,300, 3-13-73, Cl. 198-20.00r.

Rythm Watch Company, Limited: *See*—
Kudoh, Tetsuo; and Koide, Hideo, 3,737,598.

Rytvin, Evgeny Isaevich: *See*—
Shule, Edmund Khristianovich; Kutokov, Sergei Sergeevich; Rytvin, Evgeny Isaevich; Myagchenkov, Alexei Andreevich; Khodakovsky, Mikhail Davydovich; Bakanov, Nikolai Gavrilovich; Schevchenko, Nikolai Ivanovich; and Shiman, Oleg Petrovich, 3,765,852.

Ryu, Dewey Y.; Lee, Bong Kuk; and Thoma, Richard W., to Squibb, E. R., & Sons, Inc. Continuous process for preparing delta-dehydrogenase. 3,734,830, 5-22-73, Cl. 195-65.000.

Rzyankin, Alexandr Ivanovich: *See*—
Sheka, Vladimir Pavlovich; Kolesnikov, Valery Afanasievich; Kuzmin, Valery Vyacheslavovich; Muzhzhavlev, Konstantin Dmitrievich; Donskikh, Petr Alexandrovich; Chistyakov, Evgeny Georgievich; and Rzyankin, Alexandr Ivanovich, 3,776,833.

S & C Electric Company: *See*—
Baker, Charles H.; and Scherer, Henry W., 3,711,809.
Chabala, Leonard V.; and Rogers, Edward J., 3,769,477.
Foulkes, John F., 3,713,063.
Gloviak, John A.; and Sakats, Gerald, 3,755,637.
Sakais, Gerald, 3,748,621.
Zulaski, John A., 3,771,043.

S & S Corrugated Paper Machinery Co., Inc.: *See*—
Shields, Albert F., 3,719,357.
Shields, Albert F., 3,767,186.

S. & S. Industries, Inc.: *See*—
Schwartz, Herbert L., 3,777,763.

S & S Machinery Company, Inc.: *See*—
Simmons, Jack L., 3,756,163.

S & V Plastics Incorporated: *See*—
Vestal, George W., 3,744,528.

S. A. Brush Company, Limited: *See*—
Smyth, Donald Nation, 3,744,077.

S and R Associates, Inc.: *See*—
Field, Gregory A., 3,750,611.
Field, Gregory A., 3,758,922.

S. T. Supont Societe Anonyme: *See*—
Bouvier, Daniel, 3,723,051.

S&S Corrugated Paper Machinery Co., Inc.: *See*—
Volkers, Hank, 3,707,909.

S.A. Automobiles Citroen: *See*—
Cadiou, Jean, 3,749,466.
Grosseau, Albert, 3,707,810.
Grosseau, Albert, 3,738,110.

S.A. Bekaert-Cockerill: *See*—
Nieberding, Henri; and Van Den Bergen, Edgard, 3,763,528.

S.A. Brush Company Limited: *See*—
Smyth, Donald N.; and Heard, Bruce A., 3,774,257.

S.A. Centre Europeen De Recherches Mauvernay C.E.R.M.: *See*—
Mauvernay, Roland Yves; Busch, Norbert; Simond, Jacques; and Moleyre, Jacques, 3,712,893.

S.A. des Anciens Etablissements Paul Wurth: *See*—
Legille, Edouard; and Mailliet, Pierre, 3,765,663.
Mahr, Rene N., 3,766,868.

S.A. des Etablissements Roure-Bertrand Fils & Justin Dupont: *See*—
Teisseire, Paul Jose; and Gaefre, Andre Marc, 3,743,671.

S.A. Distrigaz N.V.: *See*—
Ribesse, Jacques Max, 3,774,673.

S.A. Francois Salomon & Fils: *See*—
Salomon, Georges Pierre Joseph, 3,731,944.
Salomon, Georges Pierre Joseph, 3,741,576.
Salomon, Georges Pierre Joseph, 3,778,072.

S.A. Gordini Automobiles: *See*—
Gordini, Amedee, 3,722,484.

S.A. Leroli: *See*—
From, Joseph, 3,762,072.

S.A. Molinario: *See*—
Molinario, Rene, 3,722,517.

S.A. Novi-P.B.: *See*—
Benezech, Jacques H., 3,757,150.

S.A. PRB Societe Anonyme: *See*—
Franiau, Rene P., 3,753,924.

S.A. Prest'Hygia: *See*—
Chimer, Francois Jean; and Richer, Georges, 3,739,949.

S.A. Texaco Belgium N.V.: *See*—
de Vleesschauwer, Walter Ferdinand, 3,752,652.
Dewaele, Sylvain Achiel Raoul, 3,780,114.
Dulog, Lothar G.; and Dewaele, Sylvain A. R., 3,767,733.
Webb, Allen N.; and Lippens, Bernardus Cornelis, 3,759,990.

Saab-Scania Aktiebolag: *See*—
Abelin, Rudolf; Johansson, Nils Soren Lennart; and Hakansson, Andres Borje, 3,710,678.
Angelstrand, Borje; and Mostrom, Ragnar, 3,715,086.
Arrdal, Carl Borje, 3,768,180.
Edmansson, Kurt Axel Henry; and Karlsson, Ake Gustav-Adolf, 3,717,386.
Gadefelt, Bengt Georg, 3,775,971.
Granlund, Gosta Holger, 3,723,965.
Granlund, Gosta Holger, 3,750,101.
Gustavsson, Bengt Henrik, 3,774,710.
Holmgren, Per Harald, 3,735,104.
Jonason, Arne Holger; and Granlund, Gosta Holger, 3,709,565.
Jonason, Arne Holger; and Granlund, Gosta Holger, 3,744,849.
Jonsson, Rune, 3,745,244.
Karlsson, Ake Gustav-Adolph; and Svenning, Bengt Furchtegott Staffan, 3,744,335.
Nilsson, Dan Leo, 3,728,846.
Olsson, Sven Willy, 3,767,162.
Samuelsson, Mokjas Erik Samuel; Samuelsson, Mokjas Jonas; and Degerman, Karl Johan Olov, 3,777,537.
Stalnert, Jan-Christer, 3,728,685.

Saad, Theodore S.; and Miller, Matthew S., to Sage Laboratories, Inc. Microwave oven. 3,764,770, 10-9-73, Cl. 219-10.550.

Saadeh, Mouin I.: *See*—
Ormsbee, Mary K.; Saadeh, Mouin I.; and Skulby, Leonard, 3,749,670.

Saal, Frederick Alan: *See*—
Lamarche, Robert Ernest; May, Carl Jerome, Jr.; Rosenthal, Charles William; and Saal, Frederick Alan, 3,721,767.

Saarem, Myrl J.; and Merriner, Delbert L., to Richdel, Inc. Solenoid valve operator. 3,757,263, 9-4-73, Cl. 335-260.000.

Saarenketo, Tapio Keikki: *See*—
Bergius, Mikko Hannu Tapani; Saarenketo, Tapio Keikki; and Keskilohko, Altti Kalervo, 3,749,034.

Saari, Veikko Reynold, to Bell Telephone Laboratories, Incorporated. Monolithic integrated circuit operational amplifier. 3,739,293, 6-12-73, Cl. 330-30.00d.

Saari, Walfred S.; and Miller, Charles G.; deceased (by Miller, Ruth A.; executrix), to Merck & Co., Inc. Esters of 3-hydroxy-α-(1-aminoethyl)-benzyl alcohol. 3,714,229, 1-30-73, Cl. 260-477.000.

Saarima, William A.: *See*—
Vokes, Robert C.; and Saarima, William A., 3,772,756.

Saarup, Gary C. Ingot mold separator. 3,759,316, 9-18-73, Cl. 164-405.000.

SAB Brake Regulator Company, Limited: *See*—
Dahlkvist, Nils Goran; and Sander, Nils Borje Lennart, 3,765,522.

Saba, Philip B., to Stromberg-Carlson Corporation. Key telephone system line circuit. 3,748,405, 7-24-73, Cl. 179-99.000.

Sabad, Joseph J.: *See*—
Denk, Hans H.; and Sabad, Joseph J., 3,725,285.

Sabadash, Julia Sergeevna,: *See*—
Aigenson, Alexandr Sergeevich; Fryazinov, Vladimir Vasilievich; Malikov, Fatkulla Khairullovich; Sabadash, Julia Sergeevna,; Akimov, Vladimir Stefanovich; Dobrozrakova, Natalia Ivanovna; Berg, Genrikh Arturovich; Ezhov, Boris Mikhailovich; Vorms, Georgy Alonsovich; Kubicka, Rudolf; Yaroslav, Veprek; and Cir, Yaroslav, 3,714,025.

Sabate, Giovanni: *See*—
Piola, Aldo; and Sabate, Giovanni, 3,753,481.

Sabater, Eudaldo; and Schlemmer, Lothar, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Stretching film of partially crystalline polymers. 3,718,727, 2-27-73, Cl. 264-289.000.

Sabatini, Bruno; and Tarokh, Mahmoud, to British Iron and Steel Research Association, The. Rolling of strip or plate material. 3,731,508, 5-8-73, Cl. 72-9.000.

Sabatino, Anthony, to Gould, Inc. Making electrical connections through a storage battery wall. 3,770,510, 11-6-73, Cl. 136-134.00r.

Sabatino, Daniel D.: *See*—
Wilkens, Henry W.; and Sabatino, Daniel D., 3,714,823.

Sabel, Herbert J. Shipping carton closure machine. 3,748,813, 7-31-73, Cl. 53-374.000.





Sabel, Johann: *See*—





Sacher, William S. Cushion for preventing and alleviating bedsores.

Sabel, Johann: *See*—
Balwe, Thomas; and Sabel, Johann, 3,781,255.
Sabel, Nathan W.: *See*—
Gauchat, Richard H.; and Sabel, Nathan W., 3,723,944.
Sabella, Andrew: *See*—
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Sabelman, Eric E.: *See*—
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United States of America, National Aeronautics and Space Administration, 3,750,067.
Saber Management Systems, Inc.: *See*—
Guthrie, David E.; and Swain, Arthur D., 3,772,501.
Sabet, Huschang. Rotary-piston internal-combustion engine. 3,736,080, 5-29-73, Cl. 418-34.000.
Sabet, Huschang. Exhaust arrangement in a rotary-piston internal combustion engine. 3,776,201, 12-4-73, Cl. 123-13.000.
Sabet, Huschang. Intake and exhaust arrangement for a rotary-piston internal combustion engine. 3,779,215, 12-18-73, Cl. 123-8.470.
Sabia, Raffaele A.: *See*—
Biskeborn, Merle C.; McCann, Joseph P.; and Sabia, Raffaele A., 3,717,716.
Sabia, Raffaele Antonio: *See*—
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Sabin, Raymond H.: *See*—
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Sabina, William E., to Heyl & Patterson, Inc. Magnetic device for connecting hauling lines to a barge. 3,781,734, 12-25-73, Cl. 335-289.000.
Sabine Manufacturing, Inc.: *See*—
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Sabisky, Edward Stephen: *See*—
Anderson, Charles Hammond; Feingold, Bernard Robert; and Sabisky, Edward Stephen, 3,736,518.
Sable, Arthur J., to International Business Machines Corporation. Method of preparing documents. 3,744,899, 7-10-73, Cl. 355-14.000.
Sablom, Louis F., Jr., to S.K.A.S.S. Associates Ltd. Bumper guard for aluminum siding. 3,744,203, 7-10-73, Cl. 52-624.000.
Sabo, Joseph M.: *See*—
Piccirilli, Francis J.; and Sabo, Joseph M., 3,779,298.
Sabo, William T. Elastic amusement or exercise device. 3,718,329, 2-27-73, Cl. 273-1.00r.
Sabol, Alexander B.; and Stewart, Roger B., to United States of America, National Aeronautics and Space Administration. Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds. 3,744,305, 7-10-73, Cl. 73-147.000.
Sabol, Edward Joseph: *See*—
Hufnagel, Robert Hughes; Pierce, Lowell Jackson; and Sabol, Edward Joseph, 3,765,178.
Sabourin, Edward T.: *See*—
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Sabranski, Udo; Weber, Theodor; and Werner, Wolfram, to Rheinmetall G.m.b.H. Device for cutting steel ropes, hawsers, chains, cables and the like under the water surface. 3,776,165, 12-4-73, Cl. 114-221.00a.
Sabre Saw Chain, Ltd.: *See*—
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Sacco, Bruno: *See*—
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Saccoccio, Louis. Semi-automatic dynamically balanced gravity casting machine. 3,765,640, 10-16-73, Cl. 249-68.000.
Saccomano, Joseph M.; and Ellis, John D., Jr., to Joslyn Mfg. and Supply Co. Molten metal reactor vessel. 3,724,830, 4-3-73, Cl. 266-36.00p.
Saccomano, Joseph Michael; Ellis, John Douglas, Jr.; Choulet, Richard Jay; and Death, Frank Stuart, to Joslyn Mfg., and Supply Co. and Union Carbide Corporation. Nitrogen control in argon-oxygen refining of molten metal. 3,754,894, 8-28-73, Cl. 75-60.000.
S.A.C.E. S.p.A. Construzioni Elettromeccaniche: *See*—
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Sacerdoti, Giancarlo: *See*—
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Sach, Gary M., to United States of America, Navy. Low-reflection filter for cathode ray tube face plate. 3,760,215, 9-18-73, Cl. 313-92.00r.
Sach, George Sidney: *See*—
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Hills, Derek William; and Sach, George Sidney, 3,714,224.
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Sacher, Christian: *See*—
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Sacher, William S. Cushion for preventing and alleviating bedsores. 3,757,366, 9-11-73, Cl. 5-347.000.
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Sachnik, Norman H., to Range Engineering Development Corporation. Material treating method. 3,751,267, 8-7-73, Cl. 99-81.000.
Sachot, Claude: *See*—
Boel, Charles; Pot, Francois; and Sachot, Claude, 3,721,052.
Sachs, Carrol C. Pneumatic means for production of molded structures. 3,768,769, 10-30-73, Cl. 249-65.000.
Sachs, Carrol C. Production of polymer-inorganic foam. 3,775,351, 11-27-73, Cl. 260-2.501.
Sachs, George; Dunn, Anthony Kenneth; and Skuce, William Frederick, to Imperial Chemical Industries, Limited. Dyestuff manufacture. 3,748,745, 7-31-73, Cl. 34-10.000.
Sachs, Harald, to Siemens Aktiengesellschaft. Arrangement for the detection of faults in electronic circuits. 3,725,880, 4-3-73, Cl. 340-173.0rc.
Sachs, Maurice J.: *See*—
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Sachs, Maxwell. Footwear. 3,762,074, 10-2-73, Cl. 36-2.50w.
Sachs, Peter L., to United States of America, Navy. In situ device for measuring light scatterings. 3,728,549, 4-17-73, Cl. 250-218.000.
Sachs, Reynold M.; Boutin, Henri P.; and Cicchiello, Frank, to Phonics Corporation. Telephone communication system for the hearing impaired. 3,746,793, 7-17-73, Cl. 179-2.0dp.
Sachs, Thomas D. Ultrasonic inspection and diagnosis system. 3,771,355, 11-13-73, Cl. 73-67.50r.
Sachsenwerk Licht- und Kraft-Aktiengesellschaft: *See*—
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Sachtleben, Carl; and Steiner, Erich Hans, to RCA Corporation. Web transport. 3,724,734, 4-3-73, Cl. 226-57.000.
Sack, John J.; and Acs, Steven, to Allied Chemical Corporation. Irreversible energy absorbing air bag system. 3,730,551, 5-1-73, Cl. 280-150.0ab.
Sack, William: *See*—
Foster, George N.; and Sack, William, 3,751,531.
Sackett, A. J., & Sons Company, The: *See*—
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Sackett, Walter J., Sr., to Sackett, A. J., & Sons Company, The. Fog impingement scrubbing system. 3,713,277, 1-30-73, Cl. 55-223.000.
Sackman, David J.: *See*—
Kiffmeyer, William W.; and Sackman, David J., 3,753,246.
Sackman, George L., to United States of America, Navy. Ultrasonic camera tube. 3,742,284, 6-26-73, Cl. 315-11.000.
Sacks, Francis G. Shelf. 3,718,101, 2-27-73, Cl. 108-152.000.
Sacks, Jack, to United Recording Electronic Industries. Equalizer utilizing a comb of spectral frequences as the test signal. 3,732,370, 5-8-73, Cl. 179-1.00d.
Sacks, Lawrence E.; and Menefee, Emory, to United States of America, Agriculture. Method and apparatus for detecting spoilage. 3,771,351, 11-13-73, Cl. 73-52.000.
Sacks, William: *See*—
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Sacrini, Egeo; and Cavallotti, Claudio, to Goodrich, B. F., Company, The. Organic tetraperoxides. 3,775,465, 11-27-73, Cl. 260-475.0sc.
Sada, Charles A.: *See*—
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Sada, Charles A.; and Katz, Yoram. Offshore loading buoy with hose reeling. 3,742,536, 7-3-73, Cl. 9-8.00p.
Sada, Tetuo: *See*—
Matsuzaki, Akio; Tsuruoka, Kanzi; Sada, Tetuo; and Onishi, Hiroshi, 3,749,241.
Sada, Tomohiko; Tsuchiya, Noriyuki; Amamiya, Tameo; Kaneda, Yoko; and Ohta, Kazuyuki, to Sony Corporation. Printed circuit board having a thermally insulated resistor. 3,710,195, 1-9-73, Cl. 317-101.00c.
Sadacca, Albert V.; and Paulfus, Bernard, to Noma-World Wide, Inc. Artificial Christmas tree illuminated by optic fiber sprays. 3,766,376, 10-16-73, Cl. 240-101.001.
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Sadahiro, Susumu. Internal combustion engine. 3,753,630, 8-21-73, Cl. 418-36.000.
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Sadel, Hans. Radio frequency measurements. 3,731,186, 5-1-73, Cl. 324-57.00n.
Saderson, Hendrik Johannes: *See*—
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Sadjian, Harry, to United States of America, Air Force. Pyrometer using a passive line shape spectral filter. 3,771,874, 11-13-73, Cl. 356-43.000.
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Sadler, Arthur M.: *See*—
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Sadler, Fred S.; and Heinrichs, Frank W., to McGraw-Edison Company. Cellulose material treated with a cellulose derivative, diglycolamine and an alkylketene dimer. 3,736,178, 5-29-73, Cl. 117-157.000.
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Sadler, Leslie James: *See*—
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Sadler, Loren G., to Sperry Rand Corporation. Knife bracket for forage harvester cutterhead. 3,713,471, 1-30-73, Cl. 83-523.000.
Sadler, Porter, to Texas Instruments, Incorporated. Image pick-up tube support structure for semiconductive target. 3,725,711, 4-3-73, Cl. 313-66.000.
Sadler, Thomas Harry, to Johns-Manville Corporation. Dual treatment of asbestos fibers. 3,715,230, 2-6-73, Cl. 117-70.00s.
Sado, Ryoichi, to Shinetsu Chemical Company. Silicone stopper for a sterile container. 3,715,047, 2-6-73, Cl. 215-47.000.
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Sagan, Carl Edward; and Khare, Bishun N., to Cornell University. Production of amino acids from gaseous mixtures using ultraviolet light. 3,756,934, 9-4-73, Cl. 204-162.00r.

Sagane, Norio; Nakata, Shinsaku; Ueda, Hiroshi; and Matsumura, Teiji, to Sekisui Kagaku Kogyo Kabushiki Kaisha. Process for foaming a sheet of ethylenic resin during downward movement of the sheet. 3,711,584, 1-16-73, Cl. 204-54.000.

Sagane, Norio; Nakata, Shinsaku; Ueda, Hiroshi; and Matumura, Teiji, to Sekisui Kagaku Kogyo Kabushiki Kaisha. Apparatus for production of foamed sheet of ethylenic resin. 3,762,845, 10-2-73, Cl. 425-4.00c.

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Sage, Alexander. Valve with controlled flow characteristics. 3,752,188, 8-14-73, Cl. 137-625.120.

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Sagishima, Takayuki; Sasaki, Reiichi; and Nagaoka, Yoshitomi, to Matsushita Electric Industrial Co., Ltd. Suppression filter for carrier chrominance signals utilizing a topped delay line. 3,749,824, 7-31-73, Cl. 178-5.40r.

Sagishima, Takayuki; Furuhashi, Michio; and Sasaki, Reiichi, to Matsushita Electric Industrial Co., Ltd. Reference signal indicating apparatus for tint-adjusting in color television receivers. 3,763,310, 10-2-73, Cl. 178-5.4te.

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Sagner, Gerhard; and Dehner, Otto, to Farbenfabriken Bayer Aktiengesellschaft. Anaesthetic compositions for and use in animals. 3,737,536, 6-5-73, Cl. 424-246.000.

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Sahagian, Edward H. Safety apparatus for automobiles. 3,737,175, 6-5-73, Cl. 280-150.00b.

Sahagun, Armen N. Method for producing improved PN junction. 3,767,485, 10-23-73, Cl. 148-188.000.

Sahagun, Armen N. Method to produce high concentrations of dopant in silicon. 3,775,197, 11-27-73, Cl. 148-188.000.

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Sahgal, Prakash Nath, to Zaverchand & Company. Method for nitration of aromatic hydrocarbon compounds. 3,780,116, 12-18-73, Cl. 260-645.000.

Sahlin Engineering Company, Inc.: *See—*
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Sahlin, John Carl Erik. Projection screen. 3,720,455, 3-13-73, Cl. 350-117.000.

Sahm, Otto; and Fischer, Dierk. Identification marking means for blanks for rope pressure clamps. 3,768,401, 10-30-73, Cl. 101-4.000.

Sahmel, Otto H., to Bausch & Lomb Incorporated. Fluid sampling device. 3,748,907, 7-31-73, Cl. 73-423.00a.

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Sahrbacker, Edward V., to Lucerne Products, Inc. Bell-crank lever trigger switch with trigger depression adjustment means. 3,711,666, 1-16-73, Cl. 200-157.000.

Sahrbacker, Edward V., to Lucerne Products, Inc. Rotary actuator for a switch. 3,713,070, 1-23-73, Cl. 338-198.000.

Sahrbacker, Edward V.; and Wied, Julius P., to Lucerne Products, Inc. Switch assembly. 3,739,126, 6-12-73, Cl. 200-157.000.

Sahrbacker, Edward V., to Lucerne Products, Inc. Trigger operated tool handle switch. 3,745,286, 7-10-73, Cl. 200-157.000.

Sahs, Leonard J., to Amana Refrigeration, Inc. Control circuit for trash compactor. 3,720,844, 3-13-73, Cl. 307-112.000.

Sahyun, Melville R. V., to Minnesota Mining and Manufacturing Company. Photographic color processing monobaths. 3,756,822, 9-4-73, Cl. 96-55.000.

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Saidla, Glen W., to Dana Corporation. Mold capable of being opened and closed. 3,752,437, 8-14-73, Cl. 249-172.000.

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Sailas, Vaino. Roll for dewatering presses of paper making machines. 3,718,959, 3-6-73, Cl. 29-121.00h.

Sailer, Henry, to United States of America, Navy. Digital two-speed motor control. 3,753,066, 8-14-73, Cl. 318-305.000.

Sailers, Young T. Apparatus for smoke control. 3,712,041, 1-23-73, Cl. 55-228.000.

Saillard, Pierre, to Charbonnages de France. Installation for successively transmitting a call signal from a plurality of transmitters in turn. 3,743,937, 7-3-73, Cl. 325-55.000.

Sailor Pen Co., Ltd., The: *See—*
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Saito, Shinroku; Okada, Yukihiko; and Negishi, Naoki, to Kogyo Kaihatsu Kenyusha. Nozzle and torch for plasma jet. 3,756,511, 9-4-73, Cl. 239-132.300.

Saito, Shiro, to Nikka Kabushiki Kaisha. Apparatus for depositing powdered substance on the inner surface of inflation tube. 3,750,948, 8-7-73, Cl. 239-15.000.

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Saito, Tadashi. Structure of fluid pulse cylinder for numeric control and a method of making the same. 3,726,184, 4-10-73, Cl. 91-35.000.

Saito, Tadashi; and Sakai, Kiyoshi, to Kabushiki Kaisha Ricoh. Light-sensitive diazotype copying material. 3,769,021, 10-30-73, Cl. 96-91.00r.

Saito, Tadashi; and Gejyo, Tetsuo, to Hitachi, Ltd. Method for forming carbon coating and composite article with a carbonaceous coating thereon. 3,769,084, 10-30-73, Cl. 117-216.000.

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Saito, Takashi; and Tsukada, Shusei, to Canon Kabushiki Kaisha. Electrophotographic developing device using liquid. 3,727,578, 4-17-73, Cl. 118-637.000.

Saito, Takashi; and Iida, Toshihide, to Canon Kabushiki Kaisha. Cleaning device in electrophotography. 3,759,220, 9-18-73, Cl. 118-261.000.

Saito, Takashi; and Ando, Yujiro, to Canon Kabushiki Kaisha. Corona discharge device for removing dielectric liquid. 3,760,152, 9-18-73, Cl. 219-384.000.

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Sakabe, Masaya; Kobinata, Eiichi; and Takaoka, Masaru, to Mitsubishi Petrochemical Company, Limited. Molding apparatus for producing resinous thermoplastic articles. 3,732,051, 5-8-73, Cl. 425-407.000.

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Sakai, Akira; and Teranishi, Tsugutomo, to Hitachi, Ltd. Method and apparatus for restarting boiler feed-water pump system. 3,774,579, 11-27-73, Cl. 122-1.00c.

Sakai, Hideo, to Tomy Kabushiki Kaisha. Pulley block with brake. 3,756,565, 9-4-73, Cl. 254-192.000.

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Sakai, Hiroshi; Hamada, Satoshi; Yamanaka, Yoshio; Ito, Isao; Izumi, Zenji; Kitagawa, Hideji; Mukoyama, Eiji; Suzuki, Zennosuke; Kato, Tadashi; and Hosaka, Shuntaro, to Toray Industries, Inc. Method of producing acrylic copolymer. 3,781,248, 12-25-73, Cl. 60-79.00m.

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Sakai, Ichio, to Toyota Jidosha Kogyo Kabushiki Kaisha. Hydraulic control system for an automatic transmission. 3,719,108, 3-6-73, Cl. 74-869.000.

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Sakai, Yoshinori; and Hori, Takashi, to Maruzen Oil Company, Limited. Process for preparation of over-based sulfurized phenates. 3,725,381, 4-3-73, Cl. 260-137.000.

Sakai, Yoshio; Nakamura, Zenkichi; and Takahashi, Katsumasa, to Sony Corporation. Magnetic head with tape contacting guard surface and pole tips of similar ferrite materials. 3,710,038, 1-9-73, Cl. 179-100.20c.

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Sakakibara, Shupei; and Yamanaka, Tsutomu, to Yoshitomi Pharmaceutical Industries, Ltd. 1,6-Aminosuberic acid analogue of 7-glycine-oxytocin. 3,749,705, 7-31-73, Cl. 260-112.500.

Sakakibara, Yasuhito: *See—*
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Sakakura, Seiko: *See—*
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Sakamoto, Kenro; Endo, Takaya; Iwama, Masakuni; Inoue, Isaburo; and Takei, Yutaka, to Konishiroku Photo Industry Co., Ltd. Light-sensitive silver halide color photographic emulsion. 3,711,286, 1-16-73, Cl. 96-100.000.
Sakamoto, Kenro; Fushiki, Isamu; Shimizu, Fumio; and Sugita, Sadao, to Konishiroku Photo Industry Co., Ltd. Light-sensitive silver halide color photographic material having improved graininess upon color development. 3,717,465, 2-20-73, Cl. 96-100.000.
Sakamoto, Kenro; Fushiki, Isamu; and Sakamoto, Eiichi, to Konishiroku Photo Industry Co., Ltd. Light-sensitive color photographic material. 3,753,719, 8-21-73, Cl. 96-100.000.
Sakamoto, Kenro; Fushiki, Isamu; Arai, Shinji; Shimizu, Fumio; Kuwabara, Yoshimi; Nakajima, Tomio; Sugita, Sadao; Inokuma, Hiroyuki; and Tejima, Setsuzo, to Konishiroku Photo Industry Co., Ltd. Photosensitive silver halide element containing a thiosugar anifoggant. 3,769,017, 10-30-73, Cl. 96-76.00r.
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Sakamoto, Teruya; Nishimura, Takemi; and Takarada, Osamu. Extensible boom with buckling-prevention. 3,722,154, 3-27-73, Cl. 52-121.000.
Sakamoto, Toemon, to Enshu Limited. Weft feeler mechanism. 3,732,900, 5-15-73, Cl. 139-370.000.
Sakamoto, Yoichi, to Matsushita Electric Industrial Co. Ltd. Varactor tuning system having means to maintain terminal voltage of varactor busing capacitor within desired range. 3,753,172, 8-14-73, Cl. 334-15.000.
Sakamoto, Yoichi, to Matsushita Electric Industrial Co., Ltd. Voltage memory apparatus. 3,760,193, 9-18-73, Cl. 307-233.000.
Sakamoto, Yoichi, to Matsushita Electric Industrial Co., Ltd. Channel selection system. 3,778,736, 12-11-73, Cl. 334-15.000.
Sakamoto, Yoshichika. Filing frame of film mounts. 3,727,334, 4-17-73, Cl. 40-104.180.
Sakamoto, Yoshio, to Hitachi, Ltd. Differential amplifier circuit. 3,781,699, 12-25-73, Cl. 330-30.00d.
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Sakano, Nozomu; Yamanaka, Tsuneo; Shibagaki, Kumekichi; and Kawabe, Katsumi, to Tokyo Shibaura Electric Co., Ltd. and Ishibawajima-Harima Heavy Industries Co., Ltd. Alarm apparatus for preventing collision of moving bodies. 3,735,401, 5-22-73, Cl. 343-11.0r.
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Sakata, Masanobu; Nagata, Kenichi; Nagamori, Shigeru; and Suzuki, Hideo, to Mitsui Shipbuilding and Engineering Co., Ltd. Apparatus for converting solidified powders of ores loaded in ore transport ships into slurries. 3,729,232, 4-24-73, Cl. 302-15.000.
Sakata, Masanobu; Kitaoka, Yoji; Itami, Nobuo; Tomoyasu, Yoshitada; Shibayama, Kazuhiko; Furutachi, Kunio; and Mineshima, Hideo, to Mitsui Shipbuilding and Engineering Co., Ltd. and Petrochemical Industries, Limited. Apparatus for burning high viscosity liuid fuels. 3,779,691, 12-18-73, Cl. 431-190.000.
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Sakato, Yajiro; Ina, Kazuo; Yamamoto, Yukitsune; and Morishita, Harumi. 1-Oxa-8-oxo-2,6,10,10-tetramethyl-spiro-[4,5]-deca-6-ene. 3,734,932, 5-22-73, Cl. 260-347.800.
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Sakazume, Kaiichiro; and Sato, Shui, to Konishiroku Photo Industry Co., Ltd. Light-sensitive supersensitized silver halide emulsions. 3,717,468, 2-20-73, Cl. 96-124.000.
Sakazume, Kaiichiro; Sakamoto, Eiichi; and Saito, Shizuo, to Konishiroku Photo Industry Co., Ltd. Light-sensitive silver halide photographic material with sensitizing dye combination. 3,769,024, 10-30-73, Cl. 96-124.000.
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Sakihara, Richard S., to Lee, Raymond, Organization, Inc., The. Multi tape dispenser. 3,760,998, 9-25-73, Cl. 225-38.000.
Sakita, Tadao, to Olympic Surgical Company, Inc. Positioning aid. 3,762,404, 10-2-73, Cl. 128-78.000.
Sakita, Takashi; Ebisawa, Masaaki; and Mimoto, Hiroshi, to Nisshin Oil Mills, Ltd., The. Process for producing edible protein fiber. 3,749,581, 7-31-73, Cl. 99-14.000.
Sakitani, Yoshio, to Hitachi, Ltd. Specimen positioning device for electron microscope and the like. 3,745,341, 7-10-73, Cl. 250-49.50b.
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Sakomura, Toshio; Kisaki, Hisashi; Tada, Takashi; and Mabuchi, Shunsuke, to Toyo Soda Manufacturing Co., Ltd. Process for preparing 1,4-diacetoxy-2-butene from dichlorobutenes. 3,720,704, 3413-73, Cl. 260-491.000.
Sakreis, Robert; and Nolte, Helmuth, to Wasagchemie G.m.b.H. Halogenated polyethylene coated crystalline explosive mixed with second explosive. 3,740,278, 6-19-73, Cl. 149-11.000.
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Sakura, Shoichi, to Nippon Kokan Kabushiki Kaisha. Method of building boats with twin hulls. 3,738,303, 6-12-73, Cl. 114-77.00r.
Sakuraba, Hirosi, to International Mechanical Vibration Laboratory, Inc. Method and apparatus for detecting angular position and amount of dynamic unbalance of rotating body. 3,720,110, 3-13-73, Cl. 73-460.000.
Sakurada, Ichiro; Okada, Toshio; and Shimano, Yasunao, to Japan Atomic Energy Research Institute. Radiation grafting of poly(ethylene glycol) dimethacrylate and other monomers onto polyester fibers. 3,779,881, 12-18-73, Cl. 204-159.150.
Sakurada, Teruji, to Toyo Kohan Co., Ltd. and Toa Seiki Co., Ltd. Steel strap welding apparatus for use in an automatic strapping machine. 3,769,485, 10-30-73, Cl. 219-56.000.
Sakuragi, Johji; and Kameda, Kazuhiko, to Tokyo Shibaura Electric Co., Ltd. Object identification system. 3,737,911, 6-5-73, Cl. 343-6.5ss.
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Sakurai, Isao; and Okumura, Minoru, to Konishiroku Photo Industry Co., Ltd. Isodensity recording system. 3,711,207, 1-16-73, Cl. 356-202.000.
Sakurai, Masao; and Muto, Kikuo, to Gunze Kobunshi Kogyo Kabushiki Kaisha. Manufacture of multi-ply board of thermoplastic material. 3,758,354, 9-11-73, Cl. 156-79.000.
Sakurai, Masao; Muto, Kikuo; and Sugimoto, Noritsugu, to Gunze Kobunshi Kogyo Kabushiki Kaisha. Method for manufacturing a multi-ply board of thermoplastic material and product resulting therefrom. 3,758,370, 9-11-73, Cl. 161-69.000.
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Sakural, Shigekata: *See—*
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Sakuta, Masaaki; and Ishida, Toshimasa, to Oki Electric Industry Co., Ltd. Method of manufacturing semiconductor elements by liquid phase growing method. 3,752,713, 8-14-73, Cl. 148-171.000.
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Saladin, Lawrence J., to Accurate Manufacturing Co. Punch device. 3,741,056, 6-26-73, Cl. 83-140.000.
Salamon, Manfred; Hagebaum, Hans-Jurgen; Wandel, Martin; Muhlhausen, Cornelius; Bau, Werner; and Reinecke, Gerd-Konrad, to Bayer Aktiengesellschaft. Textile floor covering. 3,759,742, 9-18-73, Cl. 117-161.0kp.
Salamon, Theodore M.: *See—*
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Salata, Dominic R. Massaging device. 3,759,250, 9-18-73, Cl. 128-57.000.
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Salbego, Emil John. Process for treating fragmented soybeans and product made therefrom. 3,775,542, 11-27-73, Cl. 99-8.000.
Salberg, Mervyn, to Merco International Ltd. Sharpening of ice skates. 3,735,533, 5-29-73, Cl. 51-34.00e.
Salcedo, Guido, to Echo Science Corporation. Spring biased tape guide with means for distributing tape edge forces along the tape length. 3,768,717, 10-30-73, Cl. 226-198.000.
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Salem Corporation: *See—*
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Salem, Hassan Raddy Ardel, to Universal Telewriters (Pty) Limited. Information display device. 3,775,881, 12-4-73, Cl. 40-28.00c.
Salem, Kenneth G. Methods and apparatus for visually illustrating sound waves. 3,726,025, 4-10-73, Cl. 35-19.00r.
Salem, Kenneth G. Air pollution light for naked eye detection of individual sub-micron sized particles. 3,726,593, 4-10-73, Cl. 356-103.000.
Salem, Nasr. Ball and rod linkage for joining polyhedral members. 3,747,261, 7-24-73, Cl. 46-26.000.
Salem Tool Company, The: *See—*
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Salemme, Robert M., to General Electric Company. Sulfonated polyxylylene oxide as a permselective membrane for water vapor transport. 3,735,559, 5-29-73, Cl. 55-16.000.
Salensky, George A., to Union Carbide Corporation. Epoxide molding compositions containing meta-tolylene diamine and a silicious filler. 3,741,928, 6-26-73, Cl. 260-37.0ep.
Sales, Gregory, Co.: *See—*
Cirino, John C., 3,725,890.
Salesin, Eugene D., to Eastman Kodak Company. Photographic elements and processes lithographic silver halide element containing a 1-(amidophenyl)-5-mercaptotetrazole sensitizing agent and development process of using same. 3,708,303, 1-2-73, Cl. 96-107.00.

Saletta, Gary F.: *See—*
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Salgo, Rheinhold C., to General Electrodynamics Corporation. Storage tube with photoconductor on mesh side facing conductive coating. 3,740,602, 6-19-73, Cl. 313-65.00a.
Salice, Luciano; and Sebin, Silvio, to S.P.A. Arturo Salice. Device for concealed linked hinges, apt to automatically hide a door, cabinet door or flap door shut. 3,744,086, 7-10-73, Cl. 16-164.000.
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Salinari, Richard V., to Norcross, Inc. Explandable novelty device. 3,730,818, 5-1-73, Cl. 161-17.000.
Salisbury, Charles W.; Schepman, Jon D.; and Nofziger, Neil B., to Owens-Illinois, Inc. Electronic device preparation. 3,762,901, 10-2-73, Cl. 65-59.000.
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Salisky, Sallyann Zanca, to International Playtex Corporation. Girdle with multi-region abdominal control. 3,752,164, 8-14-73, Cl. 128-547.000.
Salka, Arnold I., to Chevron Research Company. Hydrocarbon stripping process. 3,719,027, 3-6-73, Cl. 55-51.000.
Salka, Carl: *See—*
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Salkeld, Robert J. Self monitoring strike system. 3,741,501, 6-26-73, Cl. 244-3.140.
Salkoff, Goodwin; and Nusbaum, Elmer R., to Atlas Metal Industries, Inc. Corner clamps for shelving and the like. 3,747,540, 7-24-73, Cl. 108-156.000.
Sallberg, David W.; and Meyer, Walter E., to Kehring Company. Electrohydraulic ram velocity control circuit. 3,726,334, 4-10-73, Cl. 164-155.000.
Sallberg, David W.; Clark, Peter I.; Parker, Wesley R.; and Nicholson, Robert D., to Koehring Company. High frequency response servo valve. 3,749,128, 7-31-73, Cl. 137-625.610.
Salle, Yves; and Pincemin, Marcel, to Compagnie Industrielle des Telecommunications Cit-Alcatel. Phase meter for comparing rectangular waves. 3,728,624, 4-17-73, Cl. 324-83.00a.
Saller, Erik: *See—*
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Saller, Erik; and Trechock, Jack, to FMC Corporation. Fluidizing devices for fluid beds, with in-process cleaning. 3,721,608, 3-20-73, Cl. 202-241.000.
Sallman, Alfred; and Pfister, Rudolf. Chemical intermediates for the production of substituted-anilinophenylacetic acids and esters. 3,778,470, 12-11-73, Cl. 260-518.00r.
Sallmann, Alfred; and Pfister, Rudolf, to Ciba-Geigy Corporation. Substituted anthranilic acid derivatives as anti-inflammatory agents. 3,754,091, 8-21-73, Cl. 424-319.000.
Sallot, Georges, to Societe des Procedes Modernes d'Injection Sopromi. Fuel injection device for internal combustion engines. 3,730,159, 5-1-73, Cl. 123-136.000.
Sallot, Georges R.: *See—*
Monpetit, Louis A.; Schneider, Jurg V.; Gueret, Herve; Adveniер, Pierre; Sallot, Georges R.; Jourde, Jean-Pierre Paul; and Ufnaleski, Jacek W., 3,728,989.
Salm, Arthur, Inc.: *See—*
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Salm, Gerlof Berthy. Apparatus for maintaining the potability of cistern water. 3,750,886, 8-7-73, Cl. 210-111.000.
Salmanova, Ljudmila Sergeevna: *See—*
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Salmi, Melvin I. Apparatus for aligning the coupling on separate vehicles. 3,734,539, 5-22-73, Cl. 280-477.000.
Salmin, Valery Vasilievich: *See—*
Medovar, Boris Izrailevich; Alferov, Jury Fedorovich; Schupak, Grigory Bentsionovich; Lanevsky, Valery Evgenievich; Dykan, Vitaly Grigorievich; Berezovsky, Mikhail Elevich; Baglai, Vitaly Mikhailovich; Shuruev, Lev Andreevich; Emelyanenko, July Georgievich Khasin, Kim Moiseevich; Lugovsky, Vladimir Ivanovich; Salmin, Valery Vasilievich; Marjuschenko, Vilen Fedorovich; Shaburov, Fedor Fedorovich; Tamozhnikov, Georgy Vasilievich; Popov, Viktor Andreevich; and Semin-Vadov, Gennady Mikhailovich, 3,766,304.
Salminen, Ilmari F.: *See—*
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Salminen, Ilmari Fritiof; and Loria, Anthony, to Eastman Kodak Company. Two-equivalent sulfonamido couplers. 3,737,316, 6-5-73, Cl. 96-56.600.
Salmon, Garland R.; and Newton, George W., to Newton Instrument Company. Universal mounting frame and system for telephone distribution equipment. 3,780,351, 12-18-73, Cl. 317-99.000.
Salmond, Kent A.: *See—*
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Salmonson, Vernon C. Gas control beer dispenser. 3,744,680, 7-10-73, Cl. 222-399.000.
Salners, Edward A., to Motorola, Inc. Yoke mounting ring with deformable finger members. 3,781,730, 12-25-73, Cl. 335-210.000.
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Salo, Esko. Blade wheel for rotary snow plough. 3,747,240, 7-24-73, Cl. 37-43.00b.
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Salomon, George Pierre Joseph. Ski attachment. 3,781,029, 12-25-73, Cl. 280-11.350.
Salomon, Georges P. J. Rear holding device for ski boots. 3,735,995, 5-29-73, Cl. 280-11.50t.
Salomon, Georges P. J. Safety boot binding for skis. 3,773,340, 11-20-73, Cl. 280-11.35t.
Salomon, Georges Pierre Joseph, to S.A. Francois Salomon & Fils. Fixing ski boots to skis. 3,731,944, 5-8-73, Cl. 280-11.35c.
Salomon, Georges Pierre Joseph. Apparatus and method for compensating for the longitudinal movement of a safety ski binding. 3,734,522, 5-22-73, Cl. 280-11.35t.
Salomon, Georges Pierre Joseph, to S.A. Francois Salomon & Fils. Ski bindings. 3,741,576, 6-26-73, Cl. 280-11.35h.
Salomon, Georges Pierre Joseph. Safety strap system for skis and a method of arranging same. 3,770,288, 11-6-73, Cl. 280-11.35n.
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Salomon, Jacob. Packaging apparatus. 3,762,129, 10-2-73, Cl. 53-186.000.
Salomon, Udo W.: *See—*
Plummer, William T.; Salomon, Udo W.; and Ting, Lawrence K., 3,761,179.
Salomone, Georges Henri. Method and composition for emulsifying petroleum with a view to preparing a culture medium for micro-organisms. 3,714,063, 1-30-73, Cl. 252-312.000.
Salomone, Georges Henri. Method and composition for the emulsification and the degradation of petroleum products and fertilizers thus obtained. 3,728,279, 4-17-73, Cl. 252-312.000.
Salomonsson, Hans Manne Alvar, to Aktiebolaget Bofors. Device for achieving aim-off for a firearm. 3,766,826, 10-23-73, Cl. 89-41.00b.
Salomonsson, Sven-Olof: *See—*
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Salonimer, David J., to United States of America, Army. Homing missile system using laser illuminator. 3,743,216, 7-3-73, Cl. 244-3.160.
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Welch, Dean E.; Nakaue, Harry S.; and Vatne, Robert D., 3,773,943.
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Salter, Albert H. Diamond-impregnated masonry bit with radially-stepped cutting faces. 3,736,995, 6-5-73, Cl. 175-330.000.
Salter, David Stanley; and Smith, David Henry, to Constructors John Brown Limited. Electrochemical processes. 3,716,459, 2-13-73, Cl. 204-1.00r.
Salter, Steven J.: *See—*
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Saltini, Fabrizio, to Olivetti, Ing., C., & C., S.p.A. Stored program electronic computer using macroinstructions. 3,781,807, 12-25-73, Cl. 340-172.500.



Saltman, William M.; and Throckmorton, Morford C., to Goodyear Tire & Rubber Company, The. Method of polymerizing butadiene with the aid of a three component catalyst comprising a mixture of (1) a group II or III metal hydride or derivatives thereof, (2) a organickel or cobalt compound and (3) a fluorine containing material. 3,769,270, 10-30-73, Cl. 260-94.300.
Salto, Shoichi: *See—*
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Morris, Robert Charles; Napolitano, Orlando; Pasternack, Gerald Philip; and Saltzberg, Burton R., 3,766,484.
Saltzstein, Julian I., to Sure Lock Systems, Inc. Vehicle security system. 3,725,939, 4-3-73, Cl. 343-225.000.
Saltzstein, Julian I., to American Uniform Company. Collapsible mop head. 3,737,935, 6-12-73, Cl. 15-147.00a.
Saltzstein, Julian I., to American Uniform Company. Combination dust cloth and dust mop. 3,737,938, 6-12-73, Cl. 15-231.000.
Salutati, Giovanni. Time centering apparatus for railroad installations and other uses. 3,710,132, 1-9-73, Cl. 307-43.000.
Saluti, Gerald M.; and Petropoulos, John Christos, to American Cyanamid Company. Preparation of dianhydrides from maletic anhydride and a vinyl benzene. 3,769,304, 10-30-73, Cl. 260-346.600.
Saluti, Gerald Michael; and Dileone, Roland Ralph, to American Cyanamid Company. Preparation of a thermosettable polyimide. 3,763,114, 10-2-73, Cl. 260-78.40r.
Salvade, Gennaro, to Bobst, J., & Fils, S.A. Device for aligning sheets of material in stacks. 3,711,088, 1-16-73, Cl. 271-89.000.
Salvade, Gennaro, to Bobst, J., & Fils, S.A. Leveling device for sheet material feeding mechanism. 3,715,116, 2-6-73, Cl. 271-44.00a.
Salvador, Henry J.: *See—*
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Salvador, Henry J.; and Conner, James M., to Polaroid Corporation. Photographic system employing an improved film handling cassette and cassette-receiving apparatus. 3,751,145, 8-7-73, Cl. 352-72.000.
Salvadori, Mario G.: *See—*
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Salvarezza, Robert N.: *See—*
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Salvati, John G.; Ricci, Louis N.; and Merola, Carl R., to Westinghouse Electric Corporation. Metal enclosed switchgear with J-shaped vertically disposed conductors. 3,780,355, 12-18-73, Cl. 317-120.000.
Salvati, Mary. Face lifting technique. 3,731,677, 5-8-73, Cl. 128-76.00b.
Salvato, Frank J. Transom transducer mounting bracket. 3,729,162, 4-24-73, Cl. 248-291.000.
Salvatore, Joseph E. Bone gage. 3,738,355, 6-12-73, Cl. 128-2.00s.
Salvatori, Derald M. Button assembly. 3,715,781, 2-13-73, Cl. 24-90.0ha.
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Salvi, Antoine: *See—*
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Salvi, Antoine; and Chiron, Guy, to Commissariat a l'Energie Atomique. Magnetometer for detection and identification of immersed bodies. 3,757,203, 9-4-73, Cl. 324-4.000.
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Salway-Waller, Malcolm, to USM Corporation. Temperature controls. 3,708,652, 1-2-73, Cl. 219-505.000.
Salyer, Ival O.; and Jefferson, Robert T., to Monsanto Research Corporation. Cigarette filter. 3,746,014, 7-17-73, Cl. 131-269.000.
Salyer, Ival O.; and Blardinelli, Albert J., to United States of America, Health, Education and Welfare, mesne. Thromboresistant articles made from polyurethane containing a polypropylene glycol-ethylene oxide block copolymer. 3,746,683, 7-17-73, Cl. 260-3.20r.
Salz, Richard; and Karp, Johann, to Dynamit Nobel Aktiengesellschaft. Apparatus for the production of flaring portions of hollow bodies. 3,773,456, 11-20-73, Cl. 425-384.000.
Salzano, Francis J.: *See—*
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Salzano, Francis J.; Hobdell, Michael R.; Minushkin, Bertram; Kalinowski, Walter; and Newman, Leonard, to United States of America, Atomic Energy Commission. Electrochemical carbon activity meter. 3,715,296, 2-6-73, Cl. 204-195.00r.
Salzano, Francis J.; Davis, Andrew M.; and Isaacs, Hugh S., to United States of America, Atomic Energy Commission. Sulfur oxide activity measurement. 3,718,546, 2-27-73, Cl. 204-1.00t.
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Salzgitter Aktiengesellschaft: *See—*
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Sama, Laurence; and Pepino, George T. Processes for producing ductile, high temperature oxidation-resistant composites. 3,761,301, 9-25-73, Cl. 117-71.00m.
Samalon, Eugene J.; Lamb, Gilbert C., Jr.; and Lentz, Ervin C., to Tenneco Inc. Automatic oil level regulator. 3,777,852, 12-11-73, Cl. 184-103.00r.
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Samarin, Alexandr Mikhailovich: *See—*
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Sambhu, Mahesh K., to Beckman Instruments, Inc. Power factor measuring cell arrangement. 3,754,186, 8-21-73, Cl. 324-65.00r.
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Sambucetti, Carlos J., to International Business Machines Corporation. Multicolor permanent and erasable printing. 3,769,629, 10-30-73, Cl. 346-74.0ch.
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Samczyk, Casimir S.; and Bielik, Paul G., to Bell & Howell Company. Sealing means for copying machine developer trough. 3,756,136, 9-4-73, Cl. 95-89.00r.
Samejima, Hirotoshi; Furuya, Akira; Shimaoka, Keiji; and Aoki, Yoshiatsu, to Kyowa Hakko Kogyo Kabushiki Kaisha. Production of mixed crystals of sodium glutamate and sodium inosinate. 3,709,701, 1-9-73, Cl. 99-140.00n.
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Sammann, Albert L. Apparatus for pulling tassels out of corn stalks. 3,710,564, 1-16-73, Cl. 56-51.000.
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Samour, Carlos M.; and Richards, Mildred C., to Kendall Company, The. Monomeric emulsion stabilizers containing an N-diallylacetamido or N-dimethallylacetamido radical. 3,718,693, 2-27-73, Cl. 260-561.00a.
Samour, Carlos M.; and Richards, Mildred C., to Kendall Company, The, mesne. Monomeric emulsion stabilizers derived from alkyl/alkenyl succinic anhydride. 3,751,451, 8-7-73, Cl. 260-485.0hn.
Samour, Carlos M., to Kendall Company, The. Anionic complexes of monomeric emulsion stabilizers. 3,759,982, 9-18-73, Cl. 260-485.00j.
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Sampei, Nobyoshi; Tomita, Kazuo; and Tsuji, Hideakira, to Sankyo Company Limited. Insecticidal isoxazole derivatives. 3,759,941, 9-18-73, Cl. 260-307.00h.
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Samuel, Bernard U. Presnel lens mounting. 3,753,610, 8-21-73, Cl. 350-248.000.
Samuel, John Raymond: *See—*
Robb, Derek John Mac Donald; and Samuel, John Raymond, 3,759,846.
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Samuelian, Maurice P.: *See—*
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Samuels, Abe, to Speed-O-Print Business Machines Corporation. Rollers. 3,722,050, 3-27-73, Cl. 29-129.500.
Samuels, Abe; and Wiggerman, Roger A., to Speed-O-Print Business Machines Corporation. Squeegie assembly for photocopy machines. 3,769,896, 11-6-73, Cl. 95-89.00a.
Samuels, Joseph P.; Hummel, Paul A.; and Roff, John G., to DuKane Corporation. Microimage viewer. 3,765,755, 10-16-73, Cl. 353-27.000.
Samuels, Peter B.: *See—*
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Samuels, Philip Rufus, to General Electric Company Limited, The. Electrical discharge lamp. 3,781,595, 12-25-73, Cl. 315-101.000.
Samuels, W. Edward. Self-powered feedback-controlled volatile liquid dispensing apparatus. 3,741,230, 6-26-73, Cl. 137-804.000.
Samuelson, Hans Olof; and Croon, Ingemar Liss-Albin, to Mo och Domsjo Aktiebolag. Process for bleaching cellulose pulp with alkali and oxygen gas utilizing waste bleaching liquor from an alkaline oxygen gas bleaching stage. 3,759,783, 9-18-73, Cl. 162-40.00.
Samuelson, Hans Olof, to Mo Och Domsjo Aktiebolag. Process for preparing cellulose pulp by alkaline oxygen digestion of wood in the presence of alkali metal carbonate or bicarbonate. 3,764,464, 10-9-73, Cl. 162-65.000.
Samuelson, Hans Olof; and Noreus, Goteborg Sture Erik Olof, to Mo Och Domsjo Aktiebolag. Digestion of wood with oxygen in the presence of alkali. 3,769,152, 10-30-73, Cl. 162-65.000.
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Samuelsson, Bengt. Esters of 19-hydroxy prostaglandin Al. 3,767,696, 10-23-73, Cl. 260-468.00d.
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Samuelsson, Bengt. 19-Hydroxy prostaglandin B1. 3,767,701, 10-23-73, Cl. 260-514.00d.
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Samuelsson, Bengt. 19-Hydroxy prostaglandin A1. 3,767,703, 10-23-73, Cl. 260-514.00d.
Samuelsson, Bengt. Use of prostanoic acid derivatives to control platelet aggregation. 3,767,813, 10-23-73, Cl. 424-318.000.



Samuelsson, Karl-Erik, to Aktiebolaget Svenska Flaktfabriken. Arrangement at ventilation installations in rooms provided with exhaust air windows and lighted by a number of fittings. 3,742,837, 7-3-73, Cl. 98-40.0dl.
Samuelsson, Mokjas Erik Samuel; Samuelsson, Mokjas Jonas; and Degerman, Karl Johan Olov, to Saab-Scania Aktiebolag. Vehicle frame and body straightening devices. 3,777,537, 12-11-73, Cl. 72-404.000.
Samuelsson, Mokjas Jonas: *See—*
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Samura, Hiroyoshi; Nagashima, Mitsuyoshi; and Washimine, Osamu, to Citizen Watch Co., Ltd. Transfer machine. 3,747,185, 7-24-73, Cl. 29-200.00a.
Samurt, Norman A.; Geary, Carl H.; and Damratowski, Leonard P., to Carrier Corporation. Motor structure for turbo machines. 3,749,516, 7-31-73, Cl. 416-199.000.
Samvaz S.A.: *See—*
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San Fernando Electric Manufacturing Co., Inc.: *See—*
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San Ritsu Company Limited: *See—*
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Sanada, Noriaki, to Canon Kabushiki Kaisha. Diaphragm-actuating device for a camera. 3,710,706, 1-16-73, Cl. 95-64.00r.
Sanatari, Takeo, to Bendix Corporation, The. Heterodyne imaging device for providing high resolution images. 3,780,217, 12-18-73, Cl. 178-6.000.
Sanberger, Ludwig; and Burgstaller, Gottfried, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Plate heat exchanger from polytetrafluoroethylene. 3,733,244, 5-15-73, Cl. 165-166.000.
Sanchez, Anastacio V. Apparatus for repairing deformed yieldable structures. 3,745,809, 7-17-73, Cl. 72-479.000.
Sanchez, Anastacio V. Cable tensioning apparatus. 3,749,364, 7-31-73, Cl. 254-67.000.
Sanchez, Elias. Fertility calculators. 3,771,716, 11-13-73, Cl. 235-85.0fc.
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Sanctuary, Clifford; and Woods, Donald C., to Del Mar Engineering Laboratories. Rotatable mirror angular position electronic measuring system for activating a digital display. 3,754,815, 8-28-73, Cl. 350-285.000.
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Sandberg, Gary K., to Omark Industries, Inc. Energy absorbing structures. 3,715,137, 2-6-73, Cl. 293-1.000.
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Sandberg, Sven Alfred. Device for facilitating of the operation of automatically operable platform walls or gates at dump vehicles. 3,773,385, 11-20-73, Cl. 298-23.0md.
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Sande, Andrew. Candle snuffer. 3,775,037, 11-27-73, Cl. 431-144.000.
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Sander, Bruno, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Manufacture of oxylmethylene polymers. 3,775,370, 11-27-73, Cl. 260-67.0fp.
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Sanders, Fred E. Portable toothbrush. 3,763,869, 10-9-73, Cl. 132-84.00b.

Sanders, Frederick W., to Mead Corporation, The. Non-cockling conductive ink. 3,776,742, 12-4-73, Cl. 106-22.000.

Sanders, Grady H., to Deering Milliken Research Corporation. Scraper member for drafting system. 3,733,644, 5-22-73, Cl. 15-256.530.

Sanders, Grady H., to Deering Milliken Research Corporation. Drafting system. 3,757,381, 9-11-73, Cl. 15-256.510.

Sanders, Grady H. Drafting system. 3,771,198, 11-13-73, Cl. 19-265.000.

Sanders, Grady H., to Deering Milliken Research Corporation. Drafting system. 3,772,738, 11-20-73, Cl. 19-265.000.

Sanders, Grady H., to Deering Milliken Research Corporation. Drafting method. 3,778,995, 12-18-73, Cl. 57-156.000.

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Sanders, Robert K.; Marlow, Jerry R.; Dornfeld, Kenneth A.; and Nelson, Robert E., to General Motors Corporation. Method and apparatus for controlling torque capacity in torque transmitting devices. 3,754,482, 8-28-73, Cl. 74-752.00a.

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Sanders, Vernard W.; and Potter, Dennis G., to Norris Industries, Inc. Incremental dead bolt latch. 3,751,085, 8-7-73, Cl. 292-140.000.

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Sanders, Victor M.; deceased (by Sanders, Nellie M.; executrix); and Scotchie, Andrew A., to Northrop Carolina, Inc. Smoke flare signalling and marking device. 3,759,216, 9-18-73, Cl. 116-124.00b.

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Sanderson, Paul E. Aquatic device. 3,724,012, 4-3-73, Cl. 9-311.000.

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Sandiford, Burton B.; and Knight, Robert K., to Union Oil Company of California. Oil recovery method. 3,741,307, 6-26-73, Cl. 166-273.000.

Sandin, Nels T. Reverse image pantographic apparatus. 3,775,852, 12-4-73, Cl. 33-23.00e.

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Sandler, Yehuda L.; and Durigon, Docile D., to Westinghouse Electric Corporation. Gas diffusion electrode. 3,733,221, 5-15-73, Cl. 136-120.0fc.

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Sandlin, Delbert Elden. Mounting device for tire chains. 3,757,842, 9-11-73, Cl. 152-216.000.

Sandman, Keith Hamilton, to British Iron and Steel Research Association, The. Apparatus for guiding sheet. 3,760,999, 9-25-73, Cl. 226-15.000.

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Santa Barbara Research Center: *See—*
Kunimoto, Wallace Y.; and Buller, Joseph S., 3,732,421.
Santa Cruz, Leon M. Anti-smog and exhaust device. 3,712,031, 1-23-73, Cl. 55-223.000.
Santa Fe International Corporation: *See—*
Chow, Philip Y., 3,778,854.
Christopher, John, 3,770,927.
Foy, Fred P., Jr.; and Chang, Nuke Ming, 3,752,966.
Goren, Yoram; and Lloyd, Samuel H., III, 3,771,481.
Santa-Maria, Enrique, to Compagnie Generale d'Electricite. Controlled change-over super conductive switch. 3,713,058, 1-23-73, Cl. 335-216.000.
Santacecilia, Remo; and Sherburne, Edwin C., to ICI America Inc. Nonwoven fabrics. 3,751,290, 8-7-73, Cl. 117-140.00a.
Santacroce, James D.; and Hanson, Neil L. Means for the moving display of advertising or like material. 3,754,342, 8-28-73, Cl. 40-37.000.
Santamaria, James V., Jr. Valve. 3,771,561, 11-13-73, Cl. 137-610.000.
Santangelo, Joseph G.; Dubs, Marne A.; and Schatz, Clifford E., to Kennecott Copper Corporation. Process and apparatus for trans-

porting mined deposits from the sea floor. 3,765,727, 10-16-73, Cl. 302d14.000.
Santangelo, Joseph Germano, to Celanese Corporation. Process for treating elastomeric fibers. 3,720,744, 3-13-73, Cl. 264-205.000.
Santaniello, Anthony F.: *See—*
Mazzeo, Michael P.; and Santaniello, Anthony F., 3,714,092.
Mazzeo, Michael P.; Gobran, Riad H.; Santaniello, Anthony F.; and Gillis, Marina N., 3,721,647.
Santano, Kazunori: *See—*
Shibaya, Motoo; Santano, Kazunori; Higashide, Eiji; Yamana, Hideo; and Kishi, Toyokazu, 3,767,793.
Sant'Anselmo, Robert. Reinforcing patch. 3,777,378, 12-11-73, Cl. 40-27.000.
Santarelli, Salvatore P.; and Colombini, John; deceased (by Sergolia, Peter; executor). Trash bag cart with adjustable bag holder. 3,756,548, 9-4-73, Cl. 248-98.000.
Santarossa, Mario C.: *See—*
Hilyard, Byron L.; and Santarossa, Mario C., 3,709,216.
Santeler, Donald J., to Aero Vac Corporated, mesne. Delta T bar spectrometer. 3,724,169, 4-3-73, Cl. 55-20.000.
Santen Pharmaceutical Co., Ltd.: *See—*
Toshioka, Nobuo; Okumura, Shigeo; and Mita, Itaru, 3,741,975.
Santen, Salomon, to Stork Amsterdam N.V. Gutter-shaped carrying trough. 3,710,926, 1-16-73, Cl. 198-131.000.
Santero, Giovanni, to Societa Farmaceutici Italia. Apparatus for the large scale growth of living cells. 3,732,149, 5-8-73, Cl. 195-139.000.
Santerre, Gerard H. Tool holder for automatic screw machine. 3,709,074, 1-9-73, Cl. 82-36.00r.
Santilli, Arthur A.: *See—*
Kim, Dong H.; and Santilli, Arthur A., 3,732,227.
Kim, Dong H.; and Santilli, Arthur A., 3,759,922.
Kim, Dong H.; and Santilli, Arthur A., 3,775,412.
Santilli, Arthur A.; and Kim, Dong H., to American Home Products Corporation. 2,4,7-Trisubstituted-[pyrido 2,3-d] pyrimidine-6-carboxamides. 3,725,405, 4-3-73, Cl. 260-247.20a.
Santilli, Arthur A.; and Kim, Dong H., to American Home Products Corporation. 5,6,7,8-Tetrahydro-8-(2-morpholinoethyl)-5-oxo- 2-phenylpyrido [2,3-d] pyrimidine-6-carbonitrile. 3,726,869, 4-10-73, Cl. 260-247.50b.
Santilli, Arthur A.; and Kim, Dong H., to American Home Products Corporation. 4-[(2-Cyanoethyl)amino]-2-phenyl-5-pyrimidine carboxylic acid esters. 3,732,226, 5-8-73, Cl. 260-256.40n.
Santilli, Arthur A.; and Kim, Dong H., to American Home Products Corporation. Dialkyl 2-[1-(3-thiosemicarbazono)ethyl] alkylenedioates. 3,748,352, 7-24-73, Cl. 260-481.00r.
Santilli, Raymond R. Alternator power source. 3,761,727, 9-25-73, Cl. 290-40.000.
Santimauro, John F.; and Gerson, Herman, to Allied Chemical Corporation. Conditioning of phthalocyanine compounds. 3,758,321, 9-11-73, Cl. 106-288.00q.
Santis, Dean C.; Wavre, Andre; and Szabo, Andras I., to Westinghouse Electric Corporation. Magnetic position indicator. 3,742,409, 6-26-73, Cl. 336-45.000.
Santistevan, Joe A., to Clete Brewer Tool Company. Device for removing armor from cables or the like. 3,744,230, 7-10-73, Cl. 57-2.300.
Santleben, Hans-Wolfgang: *See—*
Stahle, Helmut; Koppe, Herbert; Kummer, Werner; and Santleben, Hans-Wolfgang, 3,752,810.
Santley, William L.: *See—*
Jurd, Leonard; King, Alfred Douglas, Jr.; and Santley, William L., 3,775,540.
Santo, Don. Portable massaging device. 3,724,451, 4-3-73, Cl. 128-52.000.
Santoleri, Joseph J., to Thermal Research & Engineering Corporation. Vaporizing apparatus. 3,738,353, 6-12-73, Cl. 126-360.00a.
Santoli, Pasquale A., to Allegheny Ludlum Industries, Inc. High pressure tooling assembly. 3,728,884, 4-24-73, Cl. 72-273.000.
Santomieri, Louis S. Fluid infusion. 3,734,095, 5-22-73, Cl. 128-214.400.
Santoni, Cesar, to Greif Bros. Corporation. Container assembly and improved clamping ring therefor. 3,768,848, 10-30-73, Cl. 292-256.690.
Santore, Nicholas T.: *See—*
Depuy, Francis A.; and Santore, Nicholas T., 3,774,271.
Santorelli, Salvatore L. Therapeutic compositions. 3,751,565, 8-7-73, Cl. 242-80.000.
Santorelli, Salvatore L. Golf club with means within the shaft to rigidity the same upon impact. 3,762,707, 10-2-73, Cl. 273-80.00b.
Santorelli, Salvatore L. Method of making microbiocidal complexes. 3,764,669, 10-9-73, Cl. 424-80.000.
Santoro, Gerald C.; and Sibert, Glenn R. Golf putter guide. 3,718,333, 2-27-73, Cl. 273-192.000.
Santoro, Joseph F.: *See—*
Becker, Gunter E.; and Santoro, Joseph F., 3,766,593.
Santos, Adrian Y.; and Feder, Charles, to Phelps Dodge Industries, Inc. Paper-insulated electrical conductor and method of making same. 3,781,462, 12-25-73, Cl. 174-121.00b.
Santos, Manuel V. Decorative garment accessory. 3,708,804, 1-9-73, Cl. 2-244.000.
Santos, Manuel V. Surgical needle holder. 3,709,226, 1-9-73, Cl. 128-340.000.
Santos, Manuel Valente. Multiply adjustable surgical retractor. 3,747,592, 7-24-73, Cl. 28-20.000.
Santos, Richard A. Drink dispenser and measuring device. 3,727,800, 4-17-73, Cl. 222-129.000.
Santosuosso, Robert C. Fishing lure. 3,716,937, 2-20-73, Cl. 43-42.470.
Santullo, Vincent F.; Manos, George; Gazzo, John J., Jr.; and Roumanos, William P., to Porta Systems Corporation. Line verification tester. 3,752,940, 8-14-73, Cl. 179-175.20r.
Sanwa Tetsuki Kougiyou Kabushiki Kaisha: *See—*
Noda, Hiroshi, 3,769,685.
Sasaki, Shoji, 3,756,351.
Sanyo Chemical Industries, Ltd.: *See—*
Nurina, Shogo; Hayashi, Yoshihiro; and Yamada, Kyohei, 3,759,985.
Sanyo Electric Co., Ltd.: *See—*
Deguchi, Yutaka; Kashihara, Hideo; Koozuki, Rikuzo; Takahashi, Kazuyoshi; and Ikeda, Mitsuyuki, 3,708,962.
Ikeda, Hironosuke; and Kondo, Tetsuya, 3,710,201.
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Inoue, Syuzi, 3,779,483.
Kitamura, Hitoshi, 3,742,771.
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Sanyo Pulp Kabushiki Kaisha: *See—*
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Prost, Jean-Louis; and Sanz, Manuel C., 3,778,790.
Sanz, Manuel C.; and Revillet, Georges, to Micromedic Systems, Inc. Percussion apparatus for blood sampling. 3,741,197, 6-26-73, Cl. 128-2.00f.
Sanz, Manuel C.; and Revillet, Georges, to Micromedic Systems, Inc. Flowthrough cuvette. 3,751,173, 8-7-73, Cl. 356-246.000.
Sanz, Manuel C.; Sturgis, Byron E.; Lawson, Charles V.; and Bain, Joe K. Automatic test tube transporter and sample dispenser. 3,768,526, 10-30-73, Cl. 141-130.000.
Sanz, Manuel Claude, to Micromedic Systems, Inc. Metering and dispensing apparatus. 3,780,912, 12-25-73, Cl. 222-282.000.
Sanza, Frank J.: *See—*
Cassano, James R.; and Sanza, Frank J., 3,724,939.
Hughes, Robert E.; Sanza, Frank J.; and Smith, Charles E., 3,743,402.
Sanza, Frank J., to Xerox Corporation. Transport assembly. 3,743,403, 7-3-73, Cl. 355-3.000.
Sanzari, Neil P.; and Emele, Jane F., to Warner-Lambert Company. Anti-tussive compositions containing piperidine derivatives. 3,755,586, 8-28-73, Cl. 424-267.000.
Saotome, Kunihiko: *See—*
Shimizu, Dengo; Tasaka, Masao; and Saotome, Kunihiko, 3,755,883.
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Sapal Societe Anonyme des Plieuses Automatiques: *See—*
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Sapir, Said, to International Telephone and Telegraph Corporation. System for heating or air conditioning. 3,724,535, 4-3-73, Cl. 165-26.000.
Sapir, Said, to International Telephone and Telegraph Corporation. System for heating or air conditioning. 3,726,473, 4-10-73, Cl. 236-11.100.
Sapir, Said, to International Telephone and Telegraph Corporation. System for heating or air conditioning. 3,735,148, 5-22-73, Cl. 307-133.000.
Sapir, Said, to International Telephone and Telegraph Corporation. Pulse generator. 3,750,128, 7-31-73, Cl. 340-263.000.
Sapir, Said, to International Telephone and Telegraph Corporation. Noise discrimination apparatus. 3,755,745, 8-28-73, Cl. 328-133.000.
Sapir, Said, to International Telephone and Telegraph Corporation. Voltage to current converter. 3,766,746, 10-23-73, Cl. 62-223.000.
Sapkus, Jurgis: *See—*
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Lewis, J. Stephen; Sapkus, Jurgis; and Villasana, Armando P., 3,731,427.
Sapkus, Jurgis; Lewis, J. Stephen; Leidtke, Ronald R.; and Villasana, Armando P., to Mattel, Inc. Doll having means for changing facial expression upon turning of head. 3,745,696, 7-17-73, Cl. 46-135.00r.
Sapolin Points, Inc.: *See—*
Eckart, Edmund Albert, Jr., 3,743,150.



Saponara, Domenick, to International Telephone and Telegraph Corporation. Control apparatus. 3,754,703, 8-28-73, Cl. 236-15.00a.
Saponaro, Joseph P. Conveyorized electrical contact systems. 3,772,481, 11-13-73, Cl. 191-6.000.
Sapp, William C., Sr. Dolly block. 3,756,616, 9-4-73, Cl. 280-79.100.
Sapper, Richard F., to Italora S.p.A. Alarm clock case made of two sections of which one is the means for stopping the alarm bell. 3,756,009, 9-4-73, Cl. 58-21.150.
Sapsowitz, Max: *See—*
Kulesza, Stanley; and Sapsowitz, Max, 3,780,659.
Sarati, Luigi; and Intini, Vincenzo, to Societa Italiana Telecomunicazioni Siemens S.p.A. Radiotelephone system with central office having individual processors assignable to respective mobile units aboard communicating vehicles. 3,729,595, 4-24-73, Cl. 17-41.00a.
Saratoga Systems, Inc.: *See—*
Brown, Alvin E., 3,780,577.
Saravis, Calvin A., to Marine Colloids, Inc. Electrophoresis chamber. 3,764,513, 10-9-73, Cl. 204-299.000.
Saray, George B., to Ivanhoe Research Corporation. Thread monitoring device. 3,714,916, 2-6-73, Cl. 112-218.00r.
Sarbach, Jacques: *See—*
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Sarbacher, Robert I.: *See—*
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Sarbacher, Robert I., to Bogue, John C. Primary electrochemical energy cell. 3,749,608, 7-31-73, Cl. 136-83.00r.
Sarbacher, Robert I., to Boque, John C. Emergency starting power for engines. 3,778,632, 12-11-73, Cl. 290-50.000.
Sardi, Anna: *See—*
Cavalleri, Bruno; and Sardi, Anna, 3,732,253.
Sardinas, Joseph L., to Pfizer Inc. Fermentation process for the production of citrus acid. 3,708,398, 1-2-73, Cl. 195-37.000.
Sardinas, Joseph L., to Pfizer Inc. Fermentation process for the production of citric acid. 3,708,399, 1-2-73, Cl. 195-47.000.
Sardisco, John B.: *See—*
Drechsel, Erhart K.; and Sardisco, John B., 3,726,660.
Sardo, Vincent, Jr. Seat belt system for automotive vehicles. 3,748,640, 7-24-73, Cl. 340-52.00e.
Sarem, Amir M., to Union Oil Company of California. Apparatus for preparing and extruding a gelatinous material. 3,709,641, 1-9-73, Cl. 425-7.000.
Sarem, Amir M., to Union Oil Company of California. Method for extruding gelatinous material. 3,737,500, 6-5-73, Cl. 264-142.000.
Sarett, Lewis H.: *See—*
Christensen, Burton G.; Leanza, William J.; and Sarett, Lewis H., 3,754,085.
Ruyle, William V.; Sarett, Lewis H.; and Matzuk, Alexander R., 3,714,226.
Sarett, Lewis H.; and Hannah, John, to Merck & Co., Inc. 5-Arylphenyl sulfonic acids. 3,714,232, 1-30-73, Cl. 260-479.00r.
Sarett, Lewis H.; and Ruyle, William V., to Merck & Co., Inc. Heterocyclic salicylic acid derivatives. 3,717,659, 2-20-73, Cl. 260-326.300.
Sarett, Lewis H.; Hoff, Dale R.; and Henry, David W., to Merck & Co., Inc. Antiprotozoal compositions containing nitroimidazoles. 3,719,759, 3-6-73, Cl. 424-273.000.
Sarett, Lewis H.; and Hannah, John, to Merck & Co., Inc. 5-Arylphenylphosphonic and phosphonous acids. 3,754,019, 8-21-73, Cl. 260-479.00r.
Sarett, Lewis H.; and Hannah, John, to Merck & Co., Inc. 5-Aryl and heterroarylphenyl sulfonic acids to treat inflammation. 3,772,444, 11-13-73, Cl. 424-311.000.
Sargeant, Eugene F. Arrangement for aligning tubular sections for fabrication. 3,772,753, 11-20-73, Cl. 29-200.00p.
Sargeant, John E.: *See—*
Nuitall, Fleet E.; Laing, Ralph R.; Marshall, James E.; Rhodes, Tony; Sargeant, John E.; and Workman, Larry D., 3,740,056.
Sargeant, Ralph G. Apparatus for preparing and dispensing drinks. 3,727,640, 4-17-73, Cl. 137-604.000.
Sargeant, Ralph G. Method for preparing and dispensing aerated drinks. 3,728,129, 4-17-73, Cl. 99-78.000.
Sargent & Greenleaf, Inc.: *See—*
Miller, Harry C., 3,710,603.
Miller, Harry C., 3,713,309.
Taylor, James L., 3,754,419.
Sargent and Company: *See—*
Allen, Irving, 3,733,626.
Bauer, Charles A.; and Floyd, Alfred E., 3,722,938.
Filia, George J., 3,710,611.
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Sargent, Cassius E., to PPC Industries, Inc. Bag structure and method of producing. 3,708,106, 1-2-73, Cl. 229-62.000.
Sargent, Cassius E., to PPC Industries, Inc. Coupon-confining bag, method and apparatus. 3,762,628, 10-2-73, Cl. 229-56.000.
Sargent, Charles L.; and Hoffman, John A., to Thermasan Corporation. Dual waste disposal system and method. 3,731,490, 5-8-73, Cl. 60-317.000.
Sargent, Charles L., to Thermasan Corporation. Method and apparatus for disposing of human waste in a vehicle. 3,740,773, 6-26-73, Cl. 4-114.000.
Sargent, Charles L.; Miller, Marshall W.; and Adiska, Gary R., to Thetford Corporation. Recirculating toilet with filter screen assembly. 3,751,735, 8-14-73, Cl. 4-10.000.
Sargent, Christian: *See—*
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Sargent, Donald E.: *See—*
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Sargent, Frank T., to Thetford Corporation. Closure for bottle. 3,727,784, 4-17-73, Cl. 215-40.000.
Sargent, Frank T.; and Andersen, James M., to Thetford Corporation. Self contained flush toilet having slide valve. 3,747,130, 7-24-73, Cl. 4-17.000.
Sargent, Freeman E. Endless track vehicles. 3,724,397, 4-3-73, Cl. 180-9.540.
Sargent Industries, Inc.: *See—*
Balthazar, Real J.; and Halberg, Richard A., 3,780,555.
Chaeko, Joseph; and Satterfield, Robert S., 3,712,417.
Sargent Industries, Inc., mesne: *See—*
Chacko, Joseph, 3,709,044.
Sargent Industries of Michigan, Inc.: *See—*
Beisch, Hans R., 3,757,400.
Beisch, Hans R.; and Trute, William C., 3,757,401.
Sargent, John A.; and Straub, Francis W., to Dow Chemical Company, The. Article for fabricating permeable hollow fiber separatory element tube sheets and separatory elements prepared therefor. 3,722,695, 3-27-73, Cl. 210-321.000.
Sargent, Walter W. Convertible horseshoe pit. 3,778,061, 12-11-73, Cl. 273-104.000.
Sargent-Welch Scientific Company: *See—*
Rosencranz, Robert, 3,771,877.
Sarges, Reinhard, to Pfizer, Inc. 1-Substituted benzoyl-2-trifluoromethylbenzimidazoles. 3,751,428, 8-7-73, Cl. 260-309.200.
Sargis, John R., to Addressograph-Multigraph Corporation. Toner cleaning apparatus for a photocopy machine. 3,713,736, 1-30-73, Cl. 355-15.000.
Saridis, Harry. Semi automated retail store. 3,741,345, 6-26-73, Cl. 186-1.00r.
Sarier, Ingrid: *See—*
Sarier, Kaya; and Sarier, Ingrid, 3,747,246.
Sarier, Kaya; and Sarier, Ingrid. Information display apparatus. 3,747,246, 7-24-73, Cl. 40-86.000.
Sarkees, Henry R., to General Motors Corporation. Sunshade support assembly. 3,767,256, 10-23-73, Cl. 296-97.00k.
Sarkes Tarzian, Inc.: *See—*
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Valdettaro, Alarico A., 3,774,459.
Weigel, Morton L., 3,757,227.
Sarkisov, Rafael; Stepanian, Ernst Arakelovich; Ovanesov, Jury Vagarshevich; and Maltsev, Vladimir Vasilievich. Automatic transfer press with vertical stamping surfaces for stamping concentric parts of sheet material. 3,741,055, 6-26-73, Cl. 83-132.000.
Sarkisov, Rafael Tevosovich: *See—*
Gilev, Vitaly Konstantinovich; Ovanesov, Jury Vagarshevich; Sarkisov, Rafael Tevosovich; and Stepanyan, Ernst Arakelovich, 3,708,054.
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Sarkozy, Francis A.: *See—*
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Sarlo, Lorenz M., to United States of America, Army. Electronic memory having a page swapping capability. 3,772,658, 11-13-73, Cl. 340-173.00r.
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Sarmiento, Louis, to International Stretch Products, Inc. Warp knit combination elastic fabric having integrally knit two-way stretch and one-way stretch portions, and method of making such fabric. 3,710,599, 1-16-73, Cl. 66-193.000.
Sarmiento, Louis, to International Stretch Products, Inc. Panty-type garment and process of making such garment. 3,739,398, 6-19-73, Cl. 2-224.00r.
Sarnes, Myron C.: *See—*
Dunn, William M.; and Sarnes, Myron C., 3,727,999.
Dunn, William M.; and Sarnes, Myron C., 3,752,003.
Dunn, William M.; and Sarnes, Myron C., 3,762,236.



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Ashida, Takashi; Sasagawa, Teiji; Fukahori, Masaru; Kojima, Kazuo; and Sarnecki, Jerzy, 3,778,424.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,029, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,030, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,031, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,032, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,033, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,034, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,035, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,036, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,037, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,038, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,039, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,040, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,041, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,042, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,043, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,044, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,045, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,046, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,047, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,048, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,049, 11-13-73, Cl. 96-36.100.
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Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,054, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,055, 11-13-73, Cl. 96-36.100.
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Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,071, 11-13-73, Cl. 96-36.100.
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Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,112, 11-13-73, Cl. 96-36.100.
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Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,138, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,139, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,140, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,141, 11-13-73, Cl. 96-36.100.
Sarnoff, David, to Radio Corporation of America. Method of making a color kinescope. 3,772,142, 11-13-73

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Sarno, Dante H., to Shell Oil Company. Isoprene recovery process by plural extractive distillations. 3,775,259, 11-27-73, Cl. 203-54.000.
Sarno, Richard L., to A-T-O Inc. Ladder. 3,762,500, 10-2-73, Cl. 182-93.000.
Sarnoff, Stanley, to Survival Technology Inc. Gun type hypodermic injector with rapid cartridge displacement within holder. 3,712,301, 1-23-73, Cl. 128-218.00a.
Sarnoff, Stanley J., to Survival Technology, Inc. Self-applied pneumatically actuated pressure. 3,713,446, 1-30-73, Cl. 128-327.000.
Sarns, Inc.: *See—*
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De Vries, James H., 3,737,257.
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Saroia, Sadayoshi, to Denki Onkyo Co., Ltd. Color television picture tube apparatus. 3,761,763, 9-25-73, Cl. 315-13.00c.
Sarra, Salvatore S., to Kiekhaefer Aeromarine Motors, Inc. Flash removal. 3,772,946, 11-20-73, Cl. 83-13.000.
Sarracino, Marcello; Ferrentino, Antonio; and Borroni, Andrea, to Industrie Pirelli S.p.A. Equipment for laying or recovering submarine cables. 3,722,775, 3-27-73, Cl. 226-100.000.
Sarrade-Loucheur, Jacques, to Blancs Mineraux de Paris. Treatment of granulated fertilisers. 3,740,346, 6-19-73, Cl. 252-384.000.
Sarring, Ernest J.: *See—*
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Sartori, Rolland, to Ateliers de Constructions Bourgeas-Fougeirol. Yarn guide reciprocating apparatus. 3,777,581, 12-11-73, Cl. 74-110.000.
Sartorio, Franco, to D.E.A. Digital Electronic Automation S.p.A. Device for positioning a working member relatively to a holder and workpiece. 3,771,230, 11-13-73, Cl. 33-185.00p.
Sartorius-Werke GmbH: *See—*
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Sasaki, Jiro, to Toshin Science Co., Ltd. Filtering method and a filtering machine therefor. 3,766,059, 10-16-73, Cl. 210-19.000.
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Sasaki, Koju; Kobayashi, Akihiro; Takahashi, Naoki; and Weeks, William, to Nittan Company, Limited. Ionization smoke detector. 3,718,919, 2-27-73, Cl. 340-237.00s.
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Sasakura, Tadao; and Sakuma, Katuo, to Nitto Boseki Co., Ltd. Process for producing highly crimped viscose rayon. 3,729,371, 4-24-73, Cl. 161-173.000.
Sasakura, Tetsugoro; and Moriya, Seishi, to Sasakura Engineering Co., Ltd. Method of condensing turbine exhaust at the power plant. 3,731,488, 5-8-73, Cl. 60-95.000.
Sasatani, Harumi: *See—*
Yamada, Tunehiko; Egami, Seiji; Sasatani, Harumi; Matsuoka, Hideaki; Emoto, Saburo; and Okamura, Kunio, 3,716,176.
Sasaya, Minoru: *See—*
Okubo, Kazuo; Ueho, Hiroshi; Sasaya, Minoru; Toyama, Takashi; and Tsurumaru, Michiko, 3,763,895.
Sasayama, Takao, to Hitachi, Ltd. Ignition system for internal combustion engine. 3,754,541, 8-28-73, Cl. 123-148.00e.
Sasguri, Kyoji: *See—*
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Sashkin, Nikolai Nikitovich: *See—*
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Mitchell, James; Bassett, Douglas Austin; Glass, David George; Hoffman, Larry Allan Rodney; Postle, William Arnold; and Johnson, Dennis William, 3,771,356.
Saslawsky, Sheldon, to Textron, Inc. Blow molding apparatus. 3,776,678, 12-4-73, Cl. 425-310.000.
Saslow, Seymour, to Espey Mfg. & Electronics Corporation. Battery charging device. 3,733,534, 5-15-73, Cl. 320-23.000.
Saslow, Seymour; and Roberts, Jerome A., to Espey Mfg. & Electronics Corporation. Speculum instrument with disposable forward section. 3,779,233, 12-18-73, Cl. 128-6.000.
Sasmor, Ernest J.: *See—*
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Sasnett, Bolling H., Jr.: *See—*
Sasnett, Bolling H., Jr.; and Ellis, Rutherford L., Jr. (said Ellis assor. to said), 3,771,697.
Sasnett, Bolling H., Jr.; and Ellis, Rutherford L., Jr., said Ellis assor. to said Sasnett, Bolling H., Jr. Remote control fluid dispenser. 3,771,697, 11-13-73, Cl. 222-16.000.
Sasnett, Michael W., to United States of America, Air Force. Injection-locked laser stabilizer. 3,747,004, 7-17-73, Cl. 330-4.300.
Sasnett, Russell M.; and Stiner, James E., to General Electric Company. Modular furniture system and means for manipulating and connecting components thereof. 3,746,416, 7-17-73, Cl. 312-198.000.
Sasnett, Russell M., to General Electric Company. Furniture system having means for connecting sub-assemblies thereof. 3,746,417, 7-17-73, Cl. 312-198.000.
Sass, Allan; Finney, Clem; McCarthy, Harry; and Kaufman, Paul, to Occidental Petroleum Corporation. Process of pyrolyzing and desulfurizing sulfur bearing agglomerative bituminous coal. 3,736,233, 5-29-73, Cl. 201-17.000.
Sasse, Frederick H.: *See—*
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Sasse, Joachim, to Chemiebau, Dr. A. Zieren, GmbH & Co., KG. Gas drying and $SO_3$-absorption for sulfuric acid production. 3,752,884, 8-14-73, Cl. 423-522.000.
Sasse, Klaus: *See—*
Mayer, Dietmar; Sasse, Klaus; and Hermann, Gunther, 3,712,943.
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Tarnow, Horst; Sasse, Klaus; and Homeyer, Bernhard, 3,772,344.
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Sasse, Klaus, to Bayer Aktiengesellschaft. 4-Substituted 2-amino-1,3,4-thiadiazolones-(5) and process for their preparation. 3,746,719, 7-17-73, Cl. 260-306.80d.
Sasse, Klaus; and Eue, Ludwig, to Bayer Aktiengesellschaft. 2-Acylamino-1,3,4-thiadiazole-(thi)-one (5) compounds and herbicidal compositions. 3,776,919, 12-4-73, Cl. 260-306.80d.
Sassin, Wolfgang, to Kernforschungsanlage Julich, Gesellschaft mit beschrankter Haftung. Duct system for low-temperature fluids and thermally isolated electrical conductors. 3,743,760, 7-3-73, Cl. 174-15.00c.
Sassman, James E. Method and apparatus for pressing fabrics. 3,715,818, 2-13-73, Cl. 38-15.000.
Sasso, Giovanni: *See—*
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Sastri, Aiyaswami S.: *See—*
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Fischbein, Irwin W.; Alexander, Ben H.; and Sastri, Aiyaswami S., 3,725,238.
Sastri, Aiyaswami S., to Gillette Company, The. Method for producing an improved cutting tool. 3,761,372, 9-25-73, Cl. 204-192.000.
Sastri, Aiyaswami S., to Gillette Company, The. Process for producing an improved cutting tool. 3,761,373, 9-25-73, Cl. 204-192.000.
Sastri, Aiyaswami Suryanarayan, to Gillette Company, The. Novel razor blades and process for making same. 3,756,865, 9-4-73, Cl. 148-12.000.
Satake, Toshihiko. Rotary and flow type rice grain sorter. 3,750,884, 8-7-73, Cl. 209-284.000.
Satama, Kauko K. Lure releasing device. 3,729,854, 5-1-73, Cl. 43-17.300.
Satani, Eiji: *See—*
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Satas, Wallace J.; and Konkel, Joseph, to Data Printer Corporation. Ribbon rewinding apparatus especially for high speed printers. 3,730,449, 5-1-73, Cl. 242-57.100.
Satchell, Fred E., to Sherwood Medical Industries, Inc. Injection apparatus with filter. 3,736,932, 6-5-73, Cl. 128-218.00r.
Saternus, Joseph P., to Borg-Warner Corporation. Adjustable hospital bed instantly movable to a Trendelenburg position. 3,722,010, 3-27-73, Cl. 5-67.000.
Sather, Dalaine C., to Collins Radio Company. Digital servo motor control with an error rate derivative circuit. 3,723,842, 3-27-73, Cl. 318-602.000.
Sather, Delaine C., to Collins Radio Company. Pulse stretching apparatus. 3,723,886, 3-27-73, Cl. 328-58.000.
Sather, Delaine C., to Collins Radio Company. Digital word magnitude selection circuit apparatus. 3,755,660, 8-28-73, Cl. 235-177.000.
Sather, Delaine C., to Collins Radio Company. Integration and filtration circuit apparatus. 3,757,261, 9-4-73, Cl. 235-152.000.

Sather, Delaine C., to Collins Radio Company. Multiplication by successive addition with two's complement notation. 3,761,699, 9-25-73, Cl. 235-165.000.
Sather, Kenneth E. Straw in bottle. 3,746,197, 7-17-73, Cl. 215-1.00a.
Sathicq, Robert: *See—*
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Satkin, David M.; Helvie, Gene B.; and Tillotson, Charles J., to Architectural Partitions. Apparatus for constructing removable partition walls. 3,722,163, 3-27-73, Cl. 52-122.000.
Sato, Aisuhiko. Finger-training apparatus. 3,779,548, 12-18-73, Cl. 272-67.000.
Sato, Akihiko: *See—*
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Sato, Akihiko, to Nippon Kogaku K.K. Apparatus for releasing the shutter driving mechanism of a photographic camera to obtain long exposure time. 3,713,373, 1-30-73, Cl. 95-53.00r.
Sato, Akihiko, to Nippon Kogaku K.K. Mirror shock absorber device for a camera having a quick return mirror. 3,738,246, 6-12-73, Cl. 95-42.000.
Sato, Akira: *See—*
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Shiba, Ketsuki; Takei, Haruo; Sato, Akira; and Ikeda, Tadashi, 3,764,340.
Sato, Akira, to Nippon Kogaku K.K. Focusing device in a center focusing type binocular. 3,712,704, 1-23-73, Cl. 350-76.000.
Sato, Akira; Ikeda, Tadashi; Nakazawa, Yoshiyuki; and Takei, Haruo, to Fuji Photo Film Co., Ltd. Novel asymmetric carbocyanine dyes. 3,749,714, 7-31-73, Cl. 260-240.600.
Sato, Akira; Shiba, Keisuke; and Hinata, Masanao, to Fuji Photo Film Co., Ltd. Spectrally sensitized photographic silver halide emulsion. 3,770,440, 11-6-73, Cl. 96-139.000.
Sato, Akira; Ikeda, Tadashi; Nakazawa, Yoshiyuki; Nakamura, Yashuharu; and Takei, Haruo, to Fuji Photo Film Co., Ltd. Spectrally sensitized silver halide photographic emulsion. 3,776,739, 12-4-73, Cl. 96-137.000.
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Sato, Hiroshi; and Toshima, Hisashi, to Hitachi, Ltd. Cooling liquid admitting and exhausting device for use with liquid-cooled electrical rotary machines. 3,729,641, 4-24-73, Cl. 310-54.000.
Sato, Hiroya: *See—*
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Sato, Jiro, to Canon Kabushiki Kaisha. Photocopying apparatus. 3,740,137, 6-19-73, Cl. 355-66.000.
Sato, Junzi; and Tanabe, Takako, to Fujitsu Limited. Method of etching insulating films. 3,709,749, 1-9-73, Cl. 156-11.000.
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Sato, Kazuo; Hisatsune, Tomio; and Watanabe, Hisashi, to Toyota Jidosha Kogyo Kabushiki Kaisha. Safety device for vehicle passengers. 3,742,497, 6-26-73, Cl. 343-7.0ed.
Sato, Kazuo; and Hisatsune, Tomio, to Toyota Jidosha Kogyo Kabushiki Kaisha. Method of protecting passengers in a moving vehicle upon collision thereof. 3,745,572, 7-10-73, Cl. 343-7.0ed.
Sato, Kazuo; and Aoyama, Takami, to Toyota Jidosha Kogyo Kabushiki Kaisha. Safety system for vehicle driver and passengers. 3,757,292, 9-4-73, Cl. 340-52.00h.
Sato, Kazuo; and Izawa, Minoru, to Toyota Jidosha Kogyo Kabushiki Kaisha. Safety device for vehicle passengers. 3,757,325, 9-4-73, Cl. 343-7.0ed.
Sato, Kazuo; and Watanabe, Hisahi, to Toyota Jidosha Kogyo Kabushiki Kaisha. Systems for measuring velocities of moving bodies. 3,757,329, 9-4-73, Cl. 343-8.000.
Sato, Kazuo; and Hisatsune, Tomio, to Toyota Jidosha Kogyo Kabushiki Kaisha. Method of protecting passengers in a moving vehicle upon collision thereof. 3,772,694, 11-13-73, Cl. 343-7.0ed.
Sato, Kazuo; Hisatsune, Tomio; and Izawa, Minoru, to Toyota Jidosha Kogyo Kabushiki Kaisha. Vehicle safety device. 3,778,823, 12-11-73, Cl. 343-7.0ed.
Sato, Keiichi: *See—*
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Sato, Kenji, to Kitano, Yoshizo, mesne. Lathe. 3,742,791, 7-3-73, Cl. 82-2.00d.
Sato, Kenji; Yamazaki, Kanji; and Tanaka, Isami, to Tsudakoma Industrial Co., Ltd. Loading balancer. 3,752,325, 8-14-73, Cl. 212-35.00r.
Sato, Kenzo, to Kabushiki Kaisha Morita Seisakusho. Metal chuck for use in a dental handpiece. 3,716,247, 2-13-73, Cl. 279-1.0sg.
Sato, Kohei; and Shimazu, Shunsaku, to Matsushita Electric Industrial Co., Ltd. Flyback transformer device. 3,766,505, 10-16-73, Cl. 336-94.000.
Sato, Koichi; Nikl, Akira; Kitamura, Hiroshi; and Morimoto, Masanobu, to Asahi Kasei Kogyo Kabushiki Kaisha. Adhesive compositions from epoxide and ethylene vinyl acetate copolymer having unsaturated carboxylic acid grafted thereto. 3,760,031, 9-18-73, Cl.260-836.000.
Sato, Kozi: *See—*
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Sato, Kozo. Roller bearing. 3,773,398, 11-20-73, Cl. 308-215.000.
Sato, Kunio: *See—*
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Sato, Manabu, to Victor Company of Japan, Limited. Automatic tape running reversing apparatus for use in a tape recorder. 3,759,464, 9-18-73, Cl. 242-188.000.
Sato, Masaaki, to Olympus Optical Co., Ltd. Electrical attachment device. 3,743,784, 7-3-73, Cl. 179-1.0pc.
Sato, Masaaki; Salto, Shoichi; and Kosaka, Shinya, to Olympus Optical Co., Ltd. Device for determining the distance of an object from an endoscope and device therefor. 3,744,906, 7-10-73, Cl. 356-4.000.
Sato, Masaaki, to Olympus Optical Co., Ltd. Apparatus for automatically operating a selected one of a plurality of pipe cassettes. 3,756,609, 9-4-73, Cl. 274-4.00f.
Sato, Masaaki, to Olympus Optical Co., Ltd. Automatic cassette tape recorder. 3,765,684, 10-16-73, Cl. 274-4.00f.
Sato, Masaaki, to Olympus Optical Co., Ltd. Cassette tape recorder. 3,768,814, 10-30-73, Cl. 274-4.00e.
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Sato, Masaki; Makita, Hiromitsu; and Toyota, Noriyuki, to Kureha Kagaku Kogyo Kabushiki Kaisha. Method for production of panel heater. 3,774,299, 11-27-73, Cl. 29-611.000.
Sato, Masamichi: *See—*
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Sato, Masamichi; and Fukushima, Osamu, to Fuji Photo Film Co., Ltd. Apparatus for developing an electrostatic latent image by liquid development. 3,713,422, 1-30-73, Cl. 118-637.000.
Sato, Masamichi, to Fuji Photo Film Co., Ltd. Corona charging process and apparatus in electrophotography. 3,715,640, 2-6-73, Cl. 317-262.00a.
Sato, Masamichi, to Fuji Photo Film Co., Ltd. Apparatus for developing electrostatic latent image. 3,749,059, 7-31-73, Cl. 118-637.000.
Sato, Masamichi; Matsumoto, Seiji; Fukushima, Osamu; and Honjo, Satoru, to Fuji Photo Film Co., Ltd. Electrostatic charging process for electrophotographic photosensitive material. 3,749,927, 7-31-73, Cl. 250-325.000.
Sato, Masamichi; Fukushima, Osamu; and Matsumoto, Seiji, to Fuji Photo Film Co., Ltd. Apparatus for developing electrophotographic continuous web material. 3,750,624, 8-7-73, Cl. 118-637.000.
Sato, Masamichi; and Fukushima, Osamu, to Fuji Photo Film Co., Ltd. Developing device for electrostatic latent image. 3,766,887, 10-23-73, Cl. 118-637.000.
Sato, Masamichi; Fukushima, Osamu; and Honjo, Satoru, to Fuji Photo Film Co., Ltd. Electrophotographic research development process employing a pre-toner. 3,773,507, 11-20-73, Cl. 96-1.00r.
Sato, Masamichi; and Takahashi, Isoji, to Fuji Photo Film Co., Ltd. Development device for electrophotography. 3,774,574, 11-27-73, Cl. 118-637.000.
Sato, Masamichi; Takimoto, Masaaki; Takahashi, Isoji; and Komaki, Takao, to Fuji Photo Film Co., Ltd. Charging method of electrophotographic materials. 3,778,623, 12-11-73, Cl. 250-325.000.
Sato, Masamichi; and Takahashi, Isoji, to Fuji Photo Film Co., Ltd. Apparatus for scraping liquid off of sheet material. 3,779,206, 12-18-73, Cl. 118-63.000.
Sato, Masamichi, to Fuji Photo Film Co., Ltd. Method of charging in electrophotography. 3,779,749, 12-18-73, Cl. 96-1.00c.
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Sato, Masanobu, to Olympus Optical Co., Ltd. Photographic camera having automatic exposure control. 3,727,528, 4-17-73, Cl. 95-10.00c.
Sato, Masanobu, to Olympus Optical Co., Ltd. Photographic camera having a flash synchronizing device. 3,752,046, 8-14-73, Cl. 95-11.50r.
Sato, Masanori: *See—*
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Sato, Masao; and Iwaida, Hideaki, to Nippon Kogaku K.K. Optical scale reading device in measuring instrument. 3,752,562, 8-14-73, Cl. 350-113.000.
Sato, Masao; Aizawa, Tsuneo; Ohnishi, Kenji; Kuizumi, Shigeo; Fukada, Akio; Kikuchi, Shinki; and Kusanagi, Schichiro, to Amada Company Limited. Horizontal band saw machine. 3,754,490, 8-28-73, Cl. 83-168.000.
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Sato, Mitsuhiro; Yano, Takeshi; Hara, Katsunosuke; Nawa, Yuzo; and Maruyama, Katsuhiro, to NGK Insulators, Ltd. Process for recovering vanadium oxide. 3,754,072, 8-21-73, Cl. 423-66.000.
Sato, Munefumi, to Nisson Motor Company, Limited. Sealing device for a rotary internal combustion engine. 3,781,147, 12-25-73, Cl. 418-88.000.
Sato, Munetaka: *See—*
Suzuki, Hideo; Yoshida, Harumi; Ozawa, Yoshiko; Kamibayashi, Akira; Sato, Munetaka; Mori, Atsushi; and Endo, Makoto, 3,767,526.
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Sato, Osamu. Process for the manufacture of foamed porcelain-like shaped articles. 3,744,984, 7-10-73, Cl. 65-22.000.
Sato, Ryoda. Transformers. 3,732,514, 5-8-73, Cl. 336-172.000.
Sato, Ryoda. Resistance-type spot welding machine. 3,743,816, 7-3-73, Cl. 219-86.000.
Sato, Ryosuke: *See—*
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Sato, Ryozi; and Chino, Yasuyoshi, to Japanese Geon Company, Ltd., The. Process for separating unsaturated fatty acids. 3,712,917, 1-23-73, Cl. 260-486.00r.
Sato, Ryozi; and Chino, Yasuyoshi, to Nippon Zeon Co., Ltd. Process for the extraction of methacrylic acid from aqueous solutions. 3,781,332, 12-25-73, Cl. 260-486.00r.
Sato, Ryuichi. Pumping system with circulating mechanism of bubble gas. 3,762,838, 10-2-73, Cl. 417-395.000.
Sato, Shigehiko: *See—*
Kimura, Hiroshi; Sato, Shigehiko; Nakagawa, Tstuo; Nakatani, Hiromi; Matsukura, Akihiko; Suzuki, Takashi; Asai, Mitsuko; Kanamaru, Tsuneo; Shibata, Motoo; and Yamatodani, Saburo, 3,754,925.
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Sakazume, Kaiichiro; and Sato, Shui, 3,717,468.
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Sato, Stephens N., to Ivac Corporation. Temperature sensing probe and disposable probe cover. 3,738,172, 6-12-73, Cl. 73-343.00r.
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Sato, Stephens N. Disposable rigid thermometer probe cover. 3,738,479, 6-12-73, Cl. 206-16.500.
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Sato, Takashi. Input circuit for an automatic telephone answering device. 3,766,321, 10-16-73, Cl. 179-6.00r.
Sato, Takefumi: *See—*
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Sato, Taketoshi, to San Ritsu Company Limited. Installation for bean sprout production. 3,717,085, 2-20-73, Cl. 99-516.000.
Sato, Teruo: *See—*
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Sato, Toshio: *See—*
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Sato, Yo, to Kabushiki Kaisha Sato Kenkyujo. Hand labeler. 3,741,847, 6-26-73, Cl. 156-384.000.

Sato, Yohta; Matsuda, Masakata; Ohi, Yukio; and Matsumori, Toyomi, to Nippon Yakin Kogyo Company Limited. Method of producing ferro-nickel or metallic nickel. 3,765,873, 10-16-73, Cl. 75-82.000.

Sato, Yoshiaki; Kagami, Kamoto; Motaki, Shigeroku; and Mitsukawa, Masakazu, to Japanese National Railways and Kabushiki Kaisha Mitsukawa Tekkosho. Method of manufacturing forged crossing. 3,766,770, 10-23-73, Cl. 72-340.000.

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Sato, Yoshihito, to Nippon Piston Ring Kabushiki Kaisha. Nickel alloy for automotive valve seats. 3,738,829, 6-12-73, Cl. 75-170.000.

Sato, Yoshikazu; and Sato, Makoto. Tool changer for machine tool. 3,715,801, 2-13-73, Cl. 29-568.000.

Sato, Yoshikazu, to Nippon Seiko Kabushiki Kaisha. Numerically controlled lathe. 3,726,162, 4-10-73, Cl. 82-3.000.

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Sato, Yoshimasa, to Ikegai Tekko Kabushiki Kaisha. Sealing equipment for a flim with means for holding-up end flaps thereof. 3,713,269, 1-30-73, Cl. 53-373.000.

Sato, Yoshimasa; and Togashi, Syozo, to Ikegai Tekko Kabushiki Kaisha. Method of welding thermoplastic band for use in packing machine as well as apparatus relevant thereto. 3,749,622, 7-31-73, Cl. 156-157.000.

Sato, Yoshimasa, to Ikegai Tekko Kabushiki Kaisha. Method of and means for facilitating a sealing of end flaps of a film. 3,753,331, 8-21-73, Cl. 53-124.00c.

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Sato, Yoshio. Method for producing the base of a semiconductor device. 3,722,080, 3-27-73, Cl. 29-581.000.

Satoh, Daisuke, to Shionogi & Co., Ltd. Novel process for partial hydrolysis of glycosides and some products thereof. 3,745,156, 7-10-73, Cl. 260-210.500.

Satoh, Haruki: *See—*
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Satomi, Takeo: *See—*
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Satomi, Toyokazu, to Ricoh Co. Ltd. Optical path length compensation in a copier. 3,709,602, 1-9-73, Cl. 355-49.000.

Satomo, Kouji: *See—*
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Satriana, Daniel R., to United States of America, Army. Process for the manufacture of lead beta-re-sorcylates. 3,748,349, 7-24-73, Cl. 260-435.000.

Satta, Orazio, to Alfa Romeo S.p.A. Fuel supply device for a rotary (wankel) internal combustion-engine. 3,713,425, 1-30-73, Cl. 123-8.130.

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Satzinger, Gerhard; Herrmann, Manfred; and Vollmer, Karl-Otto. 3-Phenyl-(3H)-benzo-1,2,3-triazinones-(4). 3,763,158, 10-2-73, Cl. 260-248.0as.

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Saubestre, Edward B.; and Durney, Lawrence J., to Enthone, Incorporated. Chemical reduction metal plated diallylphthalate polymer and preparation process. 3,725,108, 4-3-73, Cl. 117-47.00a.

Saubestre, Edward B.; and Durney, Lawrence J., to Enthone Incorporated. Preparation of through hole printed circuit boards, and compositions useful therefor. 3,741,905, 6-26-73, Cl. 252-142.000.

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Sauder, Kenneth D. Rotary internal combustion engine. 3,724,427, 4-3-73, Cl. 123-8.070.

Sauer, Gale E.; and Mapes, Carl R., to National Gypsum Company. Fire retardant shaft wall. 3,740,912, 6-26-73, Cl. 52-479.000.

Sauer, Gale E., to Flangeklamp Corporation. Locking connection for supporting grid systems. 3,746,379, 7-17-73, Cl. 287-189.36a.

Sauer, Gale E., to Flangeklamp Corporation. Fire-rated grid member with controlled expansion means. 3,778,947, 12-18-73, Cl. 52-232.000.

Sauer, Gerd; and Kunert, Heinz, to Saint-Gobain Industries. Method and means of improving reception of vehicular window-mounted antenna. 3,766,563, 10-16-73, Cl. 343-713.000.

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Sauer, Harold S.; Hagopian, Nubar D.; and Colman, John M., to Medical Innovations, Inc. External pressure circulatory assist. 3,734,087, 5-22-73, Cl. 128-64.000.

Sauer, Helmut, to Siemens Aktiengesellschaft. Circuit for converting D.C. voltage into three-phase voltage. 3,781,635, 12-25-73, Cl. 321-9.00r.

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Sauer, Richard W.: *See—*
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Sauer, Roland; Katzer, Johannes; and Stephany, Christian, to Messrs. Jupex AG. Pipeline systems. 3,714,962, 2-6-73, Cl. 137-371.000.

Sauer, Rudolf G., to Bendix Corporation, The. Acceleration enrichment signalling means for electronic fuel systems. 3,726,261, 4-10-73, Cl. 123-32.0ea.

Sauer, Theo; and Riedel, Anton. Apparatus for conveying and degassing a viscous liquid. 3,713,274, 1-30-73, Cl. 55-164.000.

Sauer, Theo; and Schulz, Gunter, Dr., to Agfa-Gevaert Aktiengesellschaft. Process and a device for the continuous preparation of emulsions. 3,728,280, 4-17-73, Cl. 252-314.000.

Sauer, Warren A.: *See—*
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Sauerbrey, Charles A., to Diehl, G., Mateer Co. Filler apparatus with hopper and rotary feed mechanism for dispensing controlled volumes of materials. 3,743,140, 7-3-73, Cl. 222-63.000.

Saueressig, Johann Heinrich, to Gebr. Saueressig KG. Multicolor intaglio printing machine with pivotable gate support for inking units. 3,738,265, 6-12-73, Cl. 101-152.000.

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Sauerwein, William D.; Meloni, Robert A.; and Walter, Harvey J., to Black and Decker Manufacturing Company, The. Handle and trigger construction. 3,734,459, 5-22-73, Cl. 251-285.000.

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Saul, Samuel, Jr.; and Colbridge, Thomas D., to Rack Engineering Company. Rack storage apparatus. 3,743,115, 7-3-73, Cl. 214-16.40a.

Sauli, Michel, to Rhone-Poulenc S.A. Substituted 3-phenyl hydantoins useful as fungicides. 3,755,350, 8-28-73, Cl. 260-309.500.

Sauli, Michel, to Rhone-Poulenc S.A. 1-0,0-diethylthiophosphonyl-indazoles. 3,763,180, 10-2-73, Cl. 260-310.00c.

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Saunders, Alex Michael, to United States of America, Health, Education, and Welfare. Specific ion electrode for sulfate. 3,709,811, 1-9-73, Cl. 204-195.00m.

Saunders, Alexander M.: *See—*
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Saunders, Charles A., to Saunders Archery Co. Slingshot with connection for projectile propelling elastic member. 3,749,075, 7-31-73, Cl. 124-20.00r.

Saunders, David Frederic. Door security device. 3,762,752, 10-2-73, Cl. 292-264.000.

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Saunders, Eldon John. Vehicle trailer sway control system. 3,730,554, 5-1-73, Cl. 280-406.00a.

Saunders, Frank L; and Pelletier, Ronald R., to Dow Chemical Company, The. Preparation of film-forming latexes of polyvinylaromatic-polydiene block copolymers. 3,726,824, 4-10-73, Cl. 260-29.7em.

Saunders, Frederick C.; Bryon, Kelvin J.; and Griffiths, Brian J. Foam control process. 3,712,868, 1-23-73, Cl. 252-321.000.

Saunders, Harvey F., Jr. Open container adaptor. 3,744,671, 7-10-73, Cl. 220-90.000.

Saunders, Irving B.: *See—*
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Saunders, John; and Casper, Clarence, Jr., to United Aircraft Corporation. Active double tuned band pass filter. 3,731,218, 5-1-73, Cl. 330-178.000.

Saunders, Kenneth Worden, to American Cyanamid Company. Drying of acrylamide polymer gels. 3,755,280, 8-28-73, Cl. 260-89.70s.

Saunders, Marvelle, to Union National Bank of Springfield. Traction device for automobile wheels. 3,753,456, 8-21-73, Cl. 152-225.000.

Saunders, Paul D., to Westinghouse Electric Corporation. Device for attaching turbine blades to a rotor. 3,746,468, 7-17-73, Cl. 416-204.000.

Saunders, Peter Reginald: *See—*
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Saunders, Raymond A., to United States of America, Navy. Method for determining immiscible water content of fluids by spectrophotometer. 3,727,049, 4-10-73, Cl. 250-43.50r.

Saunders, Richard J., to Coherent Radiation. Method for scanning mask forming holer with a laser beam. 3,742,182, 6-26-73, Cl. 219-121.01m.

Saunders Roller Box Tool Company Limited, The: *See—*
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Saunders, William K. Pulse radar and altimeter system with improved close-in response. 3,739,381, 6-12-73, Cl. 343-13.00r.

Saunders, William T., to National Steel Corporation. Container easy-open structure. 3,768,692, 10-30-73, Cl. 220-54.000.

Saunders, William T., to National Steel Corporation. Apparatus for linear measurement of sheets. 3,772,796, 11-20-73, Cl. 33-147.00e.

Saunders, William Thomas, to American Can Company. Full easy open and reclosable metal container. 3,721,365, 3-20-73, Cl. 220-47.000.

Saunders, William Thomas, to American Can Company. Method of forming a bead on a container body. 3,738,300, 6-12-73, Cl. 113-120.0aa.

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Sauriol, John T., to Intercontinental Plastics Manufacturing. Meter housing. 3,717,963, 2-27-73, Cl. 52-19.000.

Saurs, Richard J., to Reynolds Metals Company. Method of covering books with heat sealable thermoplastic material. 3,713,941, 1-30-73, Cl. 156-251.000.

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Sauter, Charles Frank. Scoring device and counter therefor. 3,770,193, 11-6-73, Cl. 235-117.00r.
Sauter, Fritz, to Centre d'Etudes pour l'Industrie Pharmaceutique. as-Triazines. 3,772,276, 11-13-73, Cl. 260-248.0as.
Sauter Packaging Company: *See—*
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Martin, David R.; and Sauter, Walter A., 3,740,627.
Sauter, William D., to Schlumberger Technology Corporation. Well logging methods and apparatus for converting spatial derivatives measurements to time derivative measurements. 3,715,653, 2-6-73, Cl. 324-1.000.
Sauterel, Gerard, to Matisa Materiel Industriel S.A. Method and apparatus for measuring the inclination of a railway track. 3,775,859, 12-4-73, Cl. 33-338.000.
Sauthier, Pierre, to Omega Louis Brandt & Frere S.A. Variable capacitor. 3,749,986, 7-31-73, Cl. 317-249.00r.
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Sautter, Werner; and Gilak, Ahmad, to Vereinigte Aluminium-Werke Aktiengesellschaft. Process for coloring the surface of aluminum work-pieces by anodization. 3,770,600, 11-6-73, Cl. 204-58.000.
Sautter, Wilfried: *See—*
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Sauty, Pierre: *See—*
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Sauvageau, Marc. Apparatus for drafting an exact axonometric projection directly from a multiview orthographic projection. 3,719,995, 3-13-73, Cl. 33-77.000.
Sauvan, Jacques Louis: *See—*
Berthelemy, Jacques; Boul, Pierre Germain R.; and Sauvan, Jacques Louis, 3,735,109.
Sauvey, Donald R.; and Sharp, Paul H., to Columbia Broadcasting System, Inc. Quadraphonic augmentation system. 3,766,317, 10-16-73, Cl. 179-1.0gq.
Savage, Albert B.: *See—*
Glomski, Ronald L.; and Savage, Albert B., 3,741,922.
Savage, Albert B., to Dow Chemical Company, The. Process for reducing the viscosity of a cellulose ether with hydrogen peroxide. 3,728,331, 4-17-73, Cl. 260-231.00r.
Savage, Billy J.: *See—*
Harris, Garrett H.; Dutt, Edward A.; and Savage, Billy J., 3,724,790.
Savage, Czerney L. Fast idle adaptor for a diesel engine. 3,747,580, 7-24-73, Cl. 123-140.00j.
Savage, Dana C., Jr. Parliamentary procedure guide. 3,708,894, 1-9-73, Cl. 35-21.000.
Savage, David W.: *See—*
Jahnig, Charles E.; Savage, David W.; and Horowitz, Hugh H., 3,755,487.
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Savage, Elton S.; and Heaney, Donald F., to Dravo Corporation. Gas diffuser. 3,722,836, 3-27-73, Cl. 261-1.000.
Savage, Elton Stuart, to Dravo Corporation. Method and apparatus for denitrification of treated sewage. 3,709,364, 1-9-73, Cl. 210-195.000.
Savage, Joseph W.: *See—*
Corsmeier, Robert J.; Savage, Joseph W.; and Andersen, Richard H., 3,768,924.
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Savage, Milton B. Lens edge-grinding, finishing and beveling machine. 3,745,720, 7-17-73, Cl. 51-101.01g.
Savage, Phillip D., to Hall Ski-Lift Company, Inc. Snow flotation apron for skimobiles. 3,719,369, 3-6-73, Cl. 280-28.000.
Savage, Phillip D., to Hall Ski-Lift Company, Inc. Windshield for ski-lift chair. 3,729,225, 4-24-73, Cl. 297-184.000.
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Savarese, Antonio, Jr., to United States of America, Army. Anti-disturbance delay fuze. 3,768,407, 10-30-73, Cl. 102-8.000.
Savarese, Giuseppe; Campellone, Giuseppe; De Luccia, Bruno; and Russo, Giovanni, to General Instrument Corporation. Oscillator loop including two double valved MOSFET delay networks. 3,708,757, 1-2-73, Cl. 331-57.000.
Savarieau, Henri; and Bourrie, Georges, to Alkan, R., & Cie. Door lock with automatic and emergency control system. 3,753,316, 8-21-73, Cl. 49-31.000.
Savarin, Alex; and Rader, Guy, to Philco-Ford Corporation. Voltage controlled variable power divider. 3,769,610, 10-30-73, Cl. 333-10.000.
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Saveliev, Gennady Vasilievich. Wheel rim for pneumatic tyre. 3,768,538, 10-30-73, Cl. 152-410.000.
Saveliev, Vyacheslav Ivanovich: *See—*
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Savenije, Franciscus Gerhardus, to Auping N.V. Hinge construction. 3,717,902, 2-27-73, Cl. 16-171.000.
Savery, Ralph, to Dowty Rotol Limited. Fluid spring shock absorbers. 3,747,913, 7-24-73, Cl. 267-64.00r.
Savides, Christos; and Susi, Peter Vincent, to American Cyanamid Company. Flame-retarded olefin polymer compositions. 3,738,959, 6-12-73, Cl. 260-41.00b.
Savignano, Joseph Richard. Apparatus for securing artificial tooth to a jaw. 3,726,011, 4-10-73, Cl. 32-10.00a.
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Savino, Henry C., to Westinghouse Electric Corporation. Elevator systems. 3,732,950, 5-15-73, Cl. 187-29.000.
Savino, Henry C., to Westinghouse Electric Corporation. Multi-bank elevator system having motion and position indicator. 3,740,709, 6-19-73, Cl. 340-21.000.
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Savonuzzi, Giovanni F., to Fiat Societa per Azioni. Turbine rotors. 3,765,793, 10-16-73, Cl. 416-96.000.
Savornin, Jacques, to Commissariat a l'Energie Atomique. Protective clothing unit for conducting work in a deleterious atmosphere. 3,777,750, 12-11-73, Cl. 128-147.500.
Sawa, Kunihiko; Kinoshita, Shigenori; and Kaimoto, Masahiro, to Fuji Denki Seizo Kabushiki Kaisha. Device including thyristor chopper for controlling inductive load. 3,748,560, 7-24-73, Cl. 318-430.000.
Sawa, Yoshiro; Maeda, Ryozo; and Tada, Haruhiko, to Shionogi & Co., Ltd. L-3-hydroxy-6-oxo-N-cyclopropylmethylmorphinans. 3,738,989, 6-12-73, Cl. 260-285.000.
Sawabe, Shigeji; Genda, Yoshikazu; Yamamoto, Takeo; Masuyama, Kazuyoshi; and Takebayashi, Michinori, to Nippon Soda Co., Ltd. Stable solvent composition. 3,767,585, 10-23-73, Cl. 252-171.000.
Sawada, Akihisa; and Fujimori, Katsuzo, to Alps Electric Co., Ltd. Support device for a tuner actuator. 3,745,837, 7-17-73, Cl. 74-10.390.
Sawada, Akikazu: *See—*
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Sawada, Hideo; Ohata, Keiichi; and Tsukane, Nagayoshi, to Daicel Ltd. Polyisobutylene oxide compositions. 3,766,122, 10-16-73, Cl. 260-30.40r.
Sawada, Hiraki, to Nissan Motor Company, Limited. Rotary internal combustion engine of the trochoidal type. 3,777,721, 12-11-73, Cl. 123-8.450.
Sawada, Hiroomi; and Shimazawa, Shigekazu, to Nippon Denshi Insatsuki Kabushiki Kaisha. Electrostatic printing apparatus for printing on curved surfaces. 3,732,809, 5-15-73, Cl. 101-35.000.
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Sawada, Takehiko; and Fujisawa, Takesi, to Ikegai Tekko Kabushiki Kaisha. Flat-die for extruding laminated synthetic resin sheets. 3,754,847, 8-28-73, Cl. 425-131.000.
Sawada, Takehiko, to Ikegai Tekko Kabushiki Kaisha and Dai Nippon Ink Kagaku Kogyo Kabushiki Kaisha. Apparatus for manufacturing standard-length articles covered with plastic material. 3,765,811, 10-16-73, Cl. 415-113.000.
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Sawagata, Shinichi, to Tokyo Shibaura Electric Co., Ltd. Triple electron gun assembly having units attached by glass beads to protrusion from convergence electrode. 3,725,712, 4-3-73, Cl. 313-70.00c.
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Sawai, Akira, to Nippon Electric Company, Limited. Code conversion circuit for a two-level to multi-level code converter. 3,716,852, 2-13-73, Cl. 340-347.0dd.
Sawai, Akira, to Nippon Electric Company Limited. Pulse regenerative repeater for a multilevel pulse communication system. 3,760,111, 9-18-73, Cl. 179-16.00e.
Sawai, Satoshi; Maekawa, Jusaburo; and Tanaka, Yoshimi, to Daikin Kogyo Co., Ltd. Reversible rotary compressor for refrigerators. 3,723,024, 3-27-73, Cl. 418-159.000.
Sawaki, Koji, to Yamaha Hatsudoki Kabushiki Kaisha. Seat for high-speed water craft. 3,758,064, 9-11-73, Cl. 248-403.000.
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Sawamura, Mitsuyoshi; and Hihara, Takeshi. Apparatus for electrically bonding cemented carbide elements to the teeth of a saw blade. 3,718,799, 2-27-73, Cl. 219-77.000.
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Sawatzky, Erich; and Street, George Bryan, to International Business Machines Corporation. Ferromagnetic material. 3,770,395, 11-6-73, Cl. 29-194.000.
Sawaya, Shohachi: *See—*
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Sawdey, Norman J.: *See—*
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Sawdon, Edwin G., to BTM Corporation. Fluid operated apparatus. 3,730,044, 5-1-73, Cl. 83-513.000.
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Sawin, Frederick C.; and Whitfill, William A., Jr., to Schlumberger Technology Corporation. Marine streamer cable. 3,781,778, 12-25-73, Cl. 340-7.00r.
Sawle, William S. Reversible window assembly for a permanently closed window opening. 3,771,264, 11-13-73, Cl. 49-390.000.
Sawmiller, Niles E.; Clymer, Gary C.; and Clymer, Larry R. Stair cart. 3,734,518, 5-22-73, Cl. 280-5.300.
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Sawyer, Alan B., to Andco Incorporated. Gas scrubber. 3,746,322, 7-17-73, Cl. 261-53.000.
Sawyer, Arthur W.; and Csejka, David A., to Olin Corporation. Low water-sensitive hydraulic fluids containing borate esters. 3,711,410, 1-16-73, Cl. 252-78.000.
Sawyer, Arthur W.; and Csejka, David A., to Olin Corporation. Low water-sensitive hydraulic fluids containing borate esters and monoethanolamine. 3,711,411, 1-16-73, Cl. 252-78.000.
Sawyer, Arthur W.; and Csejka, David A., to Olin Corporation. Low-water sensitive hydraulic fluids containing borate esters and formals. 3,711,412, 1-16-73, Cl. 252-78.000.
Sawyer, Arthur W.; and Csejka, David A. Borate esters prepared by successive reactions of boric acid with glycol monoethers and polyols. 3,729,497, 4-24-73, Cl. 260-462.00r.
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Scalzo, Augustine J.; and McLaurin, Leroy D., to Westinghouse

Sawyer, Bruce A. Drive or indicating system employing fluid controls. 3,720,056, 3-13-73, Cl. 60-1.000.
Sawyer, Bruce A. Linear magnetic drive system. 3,735,231, 5-22-73, Cl. 318-687.000.
Sawyer, Carleton E., to Display Components, Inc. Fiberous shield means for a magnetic focus coil. 3,745,494, 7-10-73, Cl. 335-210.000.
Sawyer, Dwight L.; and Wilson, Martin, to United States Borax & Chemical Corporation. Flotation of arsenic minerals from borate ores. 3,768,738, 10-30-73, Cl. 241-24.000.
Sawyer, Edgar W., Jr., to Engelhard Minerals & Chemicals Corporation. Method for processing kaolin clay. 3,736,165, 5-29-73, Cl. 106-288.00b.
Sawyer, Edgar W., Jr., to Engelhard Minerals & Chemicals Corporation. Method for processing kaolin clay. 3,737,333, 6-5-73, Cl. 106-288.00b.
Sawyer, Elbert M.; and Kelly, Fred H., to General Motors Corporation. Starting mechanism. 3,714,450, 1-30-73, Cl. 290-37.000.
Sawyer, Ernest Robert, to Calgon Corporation. Welded connectors for tubular separator module. 3,710,946, 1-16-73, Cl. 210-321.000.
Sawyer, Ernest Robert, to Calgon Corporation. Connector for use in permeability separation devices. 3,734,855, 5-22-73, Cl. 210-321.000.
Sawyer, Harold T., 25% to Bechler, Vernon D. Industrial carpet and floor conditioner. 3,739,417, 6-19-73, Cl. 15-92.000.
Sawyer, John M., to Goodyear Tire & Rubber Company, The. Polyesterurethane coated metal. 3,769,069, 10-30-73, Cl. 117-75.000.
Sawyer, Philip Nicholas. Method of screening substances for use in the treatment of circulatory system diseases. 3,722,504, 3-27-73, Cl. 128-2.10r.
Sawyer, Robert H., to Cartridge Actuated Devices, Inc. Explosive type circuit breaker with frangible printed circuit board. 3,748,413, 7-24-73, Cl. 200-61.080.
Sawyer, Roderick V., to CTS Corporation. Stranded conductor and method of making same. 3,710,008, 1-9-73, Cl. 174-131.00a.
Sawyer, Samuel P.; and Sobel, Alan, to Zenith Radio Corporation. Flat panel image display. 3,765,011, 10-9-73, Cl. 340-324.00m.
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Sax, Sylvan M.; Moore, John J.; and Bridgwater, Anna B. Method for determination of amylase activity. 3,759,794, 9-18-73, Cl. 195-103.50r.
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Saxl, Erwin J. Apparatus for measuring tension in web-type materials. 3,739,633, 6-19-73, Cl. 73-144.000.
Saxon, Denver D. Apparatus for cutting elbow sections from pipe. 3,750,506, 8-7-73, Cl. 82-101.00r.
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Saxton, Richard F. Hardness testing apparatus. 3,754,436, 8-28-73, Cl. 73-81.000.
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Say, Donald L., to GTE Sylvania Incorporated. Electron gun support and shielding means. 3,716,739, 2-13-73, Cl. 313-82.00r.
Say, Donald L., to GTE Sylvania Incorporated. Two color, shadow mask-type cathode ray tube. 3,720,854, 3-13-73, Cl. 313-92.00b.
Say, Donald L., to GTE Sylvania Incorporated. Color cathode ray tube. 3,735,190, 5-22-73, Cl. 315-13.0cg.
Say, Donald L., to GTE Sylvania Incorporated. High resolution cathode ray tube shadow-mask. 3,777,202, 12-4-73, Cl. 313-85.00s.
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Sayce, Leonard Alfred; and Jespersen, Knut Indergaard, to National Research Development Corporation. Optical measuring apparatus comprising oscillator and phase comparator. 3,710,124, 1-9-73, Cl. 250-206.000.
Saye, Roland S. Marine craft steering means. 3,765,361, 10-16-73, Cl. 114-144.00c.
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Scace, Robert I.; and Slack, Glen A., to General Electric Company. Electronic device with thermally conductive dielectric barrier. 3,716,759, 2-13-73, Cl. 317-100.000.
Scaddan, Ernest Victor; and Heard, Alan Clifford, to International Standard Electric Corporation. Wiring dressing tool. 3,716,080, 2-13-73, Cl. 140-124.000.
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Scan Coin AB: *See—*
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Scanlon, Joseph C.; Brauer, Alfred; Carvalho, Robert; and Ellis, Cecil B., to Singer Company, The, mesne. Voice communication system. 3,740,559, 6-19-73, Cl. 250-199.000.
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Scapes, John N., to Imperial-Eastman Corporation. Self-lapping seal structure. 3,771,765, 11-13-73, Cl. 251-310.000.
Scappator, Vincent S.; and Yetter, Allan S., to Eastman Kodak Company. Method and apparatus for stripping film from a film cartridge. 3,768,133, 10-30-73, Cl. 29-200.00d.
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Scaramucci, Domer. Apparatus for retaining in assembled condition a valve for use between flanges. 3,743,242, 7-3-73, Cl. 251-152.000.
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Schack, Carl J.; and Pilipovich, Donald, to Rockwell International Corporation. Synthesis of trifluoramine oxide and chlorodifluoramine. 3,773,901, 11-20-73, Cl. 423-386.000.
Schack, Carl J.; and Wilson, Richard D., to North American Rockwell Corporation. Synthesis of chlorine fluorosulfate and bromine I fluorosulfate. 3,780,165, 12-18-73, Cl. 423-466.000.
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Schade, Frank Stanley, to National Blank Book Company, Inc. Arched ring-wire post binder. 3,718,402, 2-27-73, Cl. 402-31.000.
Schade, Gustav, Maschinenfabrik: *See—*
Strocker, Gunter, 3,708,056.
Schade, John Alan; and Levy, Hans, to A.C. Manufacturing Company. Humidifier for environmental control system. 3,778,042, 12-11-73, Cl. 261-105.000.
Schade, Kurt. Apparatus for setting down and stacking products, more particularly pantiles. 3,762,579, 10-2-73, Cl. 214-6.00h.
Schade, Peter A. Variable modulo N SCS type counter. 3,733,496, 5-15-73, Cl. 307-223.00b.
Schadler, Walter, to Balzers Patent- und Beteiligungs-Aktiengesellschaft. Method for operating a halogen detection diode and arrangement for carrying out the method. 3,739,260, 6-12-73, Cl. 324-33.000.
Schadlich, Fritz, to Bosch, Robert, G.m.b.H. Chuck construction. 3,712,633, 1-23-73, Cl. 279-58.000.
Schadow, Rudolf. Push button switch units. 3,722,313, 3-27-73, Cl. 74-483.0pb.
Schadow, Rudolf H. Push button switch position indicator. 3,715,548, 2-6-73, Cl. 200-167.00r.
Schaefer, Carl A., to Square D Company. Pressure switch. 3,742,166, 6-26-73, Cl. 200-83.0sa.
Schaefer Corporation: *See—*
Kenyon, Andre J., 3,759,059.
Schaefer, Daniel F., to Rockwell International Corporation. Zero degree phase comparator. 3,778,723, 12-11-73, Cl. 328-133.000.
Schaefer, David V.: *See—*
Hamkins, Clark J.; and Schaefer, David V., 3,756,058.
Schaefer, Donald D.; and North, James R., Sr., to Dunham-Bush, Inc. Composite variable oil pressure relief and compressor unload valve assembly. 3,759,636, 9-18-73, Cl. 417-281.000.
Schaefer, Edward J., to Franklin Electric Co., Inc. Apparatus ind method for a liquid level sensor. 3,717,421, 2-20-73, Cl. 417-38.000.
Schaefer, Edward J.; and Refice, Alfred F., to Franklin Electric Co., Inc. Submersible motor with protective end bells. 3,777,194, 12-4-73, Cl. 310-87.000.
Schaefer Equipment Company: *See—*
Cale, Roland E., 3,735,626.
Schaefer, Ernest D., to General Motors Corporation. Parking brake control mechanism. 3,780,599, 12-25-73, Cl. 74-516.000.
Schaefer, F. & M., Brewing Co., The: *See—*
Hanft, Charles, 3,718,049.
Strandskov, Frede B., 3,751,264.
Strandskov, Frede B.; and Ziliotto, Henry L., 3,764,342.
Schaefer, Frederic Charles; and Wright, Alan Carl, to American Cyanamid Company. N,N-diallylguanidine salts. 3,734,939, 5-22-73, Cl. 260-404.500.
Schaefer, Gerd: *See—*
Von Gottberg, Horst; Schaefer, Gerd; and Joerns, Guenter, 3,709,190.
Schaefer, Hans: *See—*
Hensel, Jorg; Lussling, Theodor; Noll, Ewald; Schaefer, Hans; and Weigert, Wolfgang, 3,773,692.
Schaefer, Hans F., Jr.; and Williams, Reade, to USM Corporation. Automatic work guidance mechanism. 3,742,879, 7-3-73, Cl. 112-121.120.
Schaefer, Harold W.: *See—*
Brooks, Joseph F.; and Schaefer, Harold W., 3,757,382.
Brooks, Joseph F.; and Schaefer, Harold W., 3,766,347.
Schaefer, Helmut: *See—*
Bayer, Bernd; Hubert, Alexander; Riess, Werner; Schaefer, Helmut; and Wetteroth, Hans, 3,769,058.
Schaefer, Horst; and Neises, Helmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Coating colors containing satin white with good viscosity stability. 3,714,086, 1-30-73, Cl. 260-17.00r.
Schaefer, Howard A., to Anchor Hocking Corporation. Aspheric lens and method of manufacture. 3,708,221, 1-2-73, Cl. 350-189.000.
Schaefer, Howard A., to Anchor Hocking Corporation. Fresnel aspheric lens. 3,743,385, 7-3-73, Cl. 350-189.000.
Schaefer, Jacob W., to United States of America, Army. Interferometer type homing head for guided missiles. 3,740,002, 6-19-73, Cl. 244-3.190.
Schaefer, John H.; and Rehart, M. Andrew, to Ram Products Company. Apparatus for cutting and separating ribbon wire. 3,771,398, 11-13-73, Cl. 83-302.000.
Schaefer, John O.: *See—*
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Schaefer, Josef: *See—*
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Schaefer, Langdon C.; and Thomas, Roland C., to Emerson Electric Co. Air breather fitting for reservoirs. 3,777,848, 12-11-73, Cl. 184-1.00c.
Schaefer, Louis F., to Stanford Research Institute. Cross talk reducing circuitry for encoded color television cameras. 3,769,450, 10-30-73, Cl. 178-5.40r.
Schaefer, Otto W. Wire measuring and cutting apparatus. 3,771,400, 11-13-73, Cl. 83-356.000.
Schaefer, Paul: *See—*
Jaeger, Horst; and Schaefer, Paul, 3,780,093.
Schaefer, Robert H.; and Williams, Richard H., to General Motors Corporation. Multi-ratio transmission and control with downshift inhibitors. 3,709,064, 1-9-73, Cl. 74-752.00a.
Schaefer, Robert H., to General Motors Corporation. Power train control system. 3,726,094, 4-10-73, Cl. 60-488.000.
Schaefer, Robert H.; and Marlow, Jerry R., to General Motors Corporation. Power train and control system. 3,748,931, 7-31-73, Cl. 74-867.000.
Schaefer, Robert H., to General Motors Corporation. Transmission and controls. 3,757,612, 9-11-73, Cl. 74-865.000.
Schaefer, Roger W., to Safariland Leather Products. Carrying case. 3,756,481, 9-4-73, Cl. 224-42.42a.
Schaefer, Theodore S. Adjustable dolly construction. 3,717,357, 2-20-73, Cl. 280-35.000.
Schaefer, Werner, to Hartmann & Braun Aktiengesellschaft. Infrared gas analyser. 3,725,702, 4-3-73, Cl. 250-43.50r.
Schaefer, Werner, to Hartmann & Braun Aktiengesellschaft. Twin beam infrared absorption analyzer. 3,740,555, 6-19-73, Cl. 250-43.50r.
Schaeff, Friedrich, to Sauer, Otto, Achsenfabrik. Arrangement for stabilizing trailing vehicle axles. 3,716,249, 2-13-73, Cl. 280-81.00a.
Schaeff, Hans. Mechanical shovel attachment. 3,712,490, 1-23-73, Cl. 214-138.00c.
Schaeff, Hans, to Schaeff, Karl, KG., Maschinenfabrik. Mobile shovel excavator. 3,717,269, 2-20-73, Cl. 214-138.00r.
Schaeff, Hans. Vehicle with two earthworking attachments. 3,765,553, 10-16-73, Cl. 214-138.00r.
Schaeff, Karl, KG., Maschinenfabrik: *See—*
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Schaeffer, Dennis R.; and Wright, Larry R., to Motorola, Inc. Impulse noise blanker including broadband level sensing. 3,725,674, 4-3-73, Cl. 307-237.000.
Schaeffer, Gerard: *See—*
Kneller, Klaus; and Schaeffer, Gerard, 3,780,994.
Schaeffer, Gerard; Trub, Jean; Bouvet, Jean; and Kohler, Andre, to Battelle Memorial Institute. Injection press. 3,737,151, 6-5-73, Cl. 259-191.000.
Schaeffer, John I. Swimming pool cleaning system. 3,769,993, 11-6-73, Cl. 134-167.00r.
Schaeffer, Klaus-Peter: *See—*
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Schaeffer, Robert A.; White, William T.; and Corialo, Samuel D., to Xerox Corporation. Optical scanning apparatus. 3,775,008, 11-27-73, Cl. 355-18.000.
Schaeffer, William. Lifting and/or rotating body constituting a kite. 3,752,423, 8-14-73, Cl. 244-153.00r.
Schaeffer, William Ross: *See—*

Kloczewski, Harold A.; Moyer, Joseph D.; Kramm, David E.; and Schaeffer, William Ross, 3,753,720.
Schaeflern, Henry: *See—*
Graham, Richard P.; and Schaeflern, Henry, 3,753,411.
Schaepman, Ellert, to ITT Industries, Inc. Method and apparatus for determining certain accelerations in an antiskid system. 3,746,925, 7-17-73, Cl. 317-5.000.
Schaer, Glenn R., to United States of America, Army. Method of electrodepositing a lusterless, electrically conductive coating. 3,741,882, 6-26-73, Cl. 204-42.000.
Schaer, Glenn R., to United States of America, National Aeronautics and Space Administration. Method of making porous conductive supports for electrodes. 3,759,747, 9-18-73, Cl. 136-36.000.
Schaer, Glenn R.; and Safranek, William H., to Battelle Development Corporation, The. Coated article. 3,771,972, 11-13-73, Cl. 29-196.600.
Schaetti, Norbert, to Maschinenfabrik Oerlikon. Method of manufacturing composite superconductor. 3,737,989, 6-12-73, Cl. 29-599.000.
Schaeufele, Herman J., to United McGill Corporation. Modular building panel having interlocking edge structure. 3,742,672, 7-3-73, Cl. 52-594.000.
Schaevitz, Abraham R., to Super Tire Engineering Company. Tire undertread probe. 3,739,828, 6-19-73, Cl. 152-209.00r.
Schafer, Arthur W., Sr. Apparatus for measuring piston position. 3,765,098, 10-16-73, Cl. 33-181.0at.
Schafer, Arthur W., Sr. Apparatus for measuring piston position. 3,768,170, 10-30-73, Cl. 33-181.0at.
Schafer, Conrad B.: *See—*
Dunipace, Donald W.; McCown, William E.; and Schafer, Conrad B., 3,736,117.
Schafer, Fritz: *See—*
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Schafer, Fritz, G.m.b.H.: *See—*
Hassel, Ernst; and Schmenn, Adolf, 3,754,517.
Schafer, Fritz Peter: *See—*
Basting, Dirk; Schafer, Fritz Peter; and Steyer, Bernhard, 3,757,246.
Schafer, Fritz Peter; and Schmidt, Werner, to Zeiss-Stiftung, Carl, d/b/a Zeiss, Carl. Device for wavelength selection in lasers with broad-band emission. 3,735,278, 5-22-73, Cl. 331-94.500.
Schafer, George; and Morse, Hugh B., to Fibreboard Corporation. Apparatus for heat sealing cartons. 3,713,952, 1-30-73, Cl. 156-497.000.
Schafer, Gerd, to Siemens Aktiengesellschaft. Apparatus for protection of a gas jet generator. 3,735,592, 5-29-73, Cl. 60-203.000.
Schafer, Hans, to Siemens Aktiengesellschaft. Induction coil for induction heating of moving articles. 3,748,422, 7-24-73, Cl. 219-10.530.
Schafer, Horst: *See—*
Flohrs, Peter; Schafer, Horst; and Tovar, Theo, 3,755,882.
Schafer, Jack R.; and Linton, Denton C., to Desert West, Inc. Process and apparatus for recovering precious metals. 3,729,182, 4-24-73, Cl. 266-9.000.
Schafer, Karl: *See—*
Voelskow, Peter; Schafer, Karl; and Pestre, Jacques, 3,731,883.
Schafer, Karl; and Hohne, Arthur, to Ferma Entwicklungswerk fur rationelle Fertigbaumethoden und Maschinenanlagen GmbH & Company, K.G. Apparatus for continuous forming of gypsum bodies, in particular plates. 3,737,265, 6-5-73, Cl. 425-140.000.
Schafer, Karl; and Voelskow, Peter, to Siempelkamp, G., & Co. Method and apparatus for the comminution of wood. 3,773,267, 11-20-73, Cl. 241-28.000.
Schafer, Leonhard. Pastry making machine. 3,724,361, 4-3-73, Cl. 99-450.600.
Schafer, Lutz: *See—*
Burckhardt, Manfred H.; and Schafer, Lutz, 3,707,852.
Schafer, Manfred, to Daimler-Benz Aktiengesellschaft. Spark plug especially for rotary piston internal combustion engines. 3,719,850, 3-6-73, Cl. 313-118.000.
Schafer, Richard: *See—*
Hanagarth, Wolfgang; and Schafer, Richard, 3,738,769.
Schafer, Richard A., to Pak-Well Corporation. Continuous web and affixed envelopes with selective spacing. 3,758,025, 9-11-73, Cl. 229-69.000.
Schafer, Richard Arthur, to Deere & Company. Attachments permitting a vehicle tongue to be lifted by actuation of tractor draft links. 3,715,133, 2-6-73, Cl. 280-479.00a.
Schafer, Thomas W., to Rohr Corporation. Chuck. 3,721,092, 3-20-73, Cl. 60-54.50h.
Schafer, Werner; Sasse, Klaus; Eue, Ludwig; and Hack, Helmuth, to Bayer Aktiengesellschaft. Cyclopropane-carboxylic acid benzothiazylamides. 3,761,490, 9-25-73, Cl. 260-305.000.
Schafer, Wilhelm: *See—*
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Schafer, William: *See—*
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Schaff, Alfred: *See—*
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Schaff, Ulrich: *See—*
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Schaffart, Raymond H.; and Otis, Charles V. Fifth wheel unit. 3,751,070, 8-7-73, Cl. 280-432.000.
Schaffel, Martin: *See—*
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Schaffer, Albert M., to National Cash Register Company, The. Non-volatile random access memory cell using an alterable threshold field effect write transistor. 3,774,177, 11-20-73, Cl. 340-173.00r.
Schaffer, Detlef: *See—*
Knechtel, Wilhelm Josef; and Schaffer, Detlef, 3,715,944.
Knechtel, Wilhelm Josef; and Schaffer, Detlef, 3,716,294.
Schaffer, Helmut: *See—*
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Schaffer, Philip O.; Hoverter, Bryce E.; and Haas, Kenneth C., to Teledyne, Inc. Automatic needle positioning and presser foot lifting mechanism. 3,721,204, 3-20-73, Cl. 112-218.00r.
Schaffer, Robert H.; and Crum, James N., to Harris-Intertype Corporation. Web infeed mechanism. 3,724,733, 4-3-73, Cl. 226-25.000.
Schaffer, Robert S.; and Fitzgerald, John W., Jr., to Owens-Corning Fiberglas Corporation. Apparatus for packaging linear material. 3,765,988, 10-16-73, Cl. 156-441.000.
Schaffer, Rupert E.; Moseley, John C.; and Sharrod, Derrick, to Shell Oil Company. Process for sulfolane bonding of textile fibers. 3,734,799, 5-22-73, Cl. 156-308.000.
Schaffer, Walter S.: *See—*
Barna, Theodore B.; Dimmick, Roger F.; Ricklefs, Merlin J.; Schaffer, Walter S.; and Westphal, Gordon W., 3,737,097.
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Schaffner, Carl P.: *See—*
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Gordon, Harry W.; and Schaffner, Carl P., 3,777,018.
Schaffner, Ernst: *See—*
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Schaffner, Gerald, to Teledyne Ryan Aeronautical. Voltage variable non-induction phase shifter with monolithic implementation. 3,748,499, 7-24-73, Cl. 307-295.000.
Schaffner, Kurt: *See—*
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Jeger, Oskar; and Schaffner, Kurt, 3,758,588.
Schaffron, Helmut T. Apparatus and method for forming rectangular bottom plastic bag machine. 3,772,116, 11-13-73, Cl. 156-221.000.
Schafft, Hugo W., to Motorola, Inc. Resistive electrode for an electrostrictive transducer. 3,749,855, 7-31-73, Cl. 179-110.00f.
Schafstall, Heinrich Gunter; and Furste, Wolfgang Otto August, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Feed-through connection for a pressure vessel, especially a nuclear-reactor shell. 3,779,865, 12-18-73, Cl. 176-38.000.
Schaftlein, Richard W.: *See—*
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Schag, Ronald H.; and Landis, David M., to Thomas & Betts Corporation. Apparatus for identifying individual wires of a multi-wire cable. 3,740,644, 6-19-73, Cl. 324-66.000.
Schaible, Aaron M.; deceased (by Bremer, James F.; special administrator); Braun, Bernard G.; Bennett, Wilbur G.; and Brown, Richard L., to Case, J. I., Company. Concrete placement apparatus. 3,707,990, 1-2-73, Cl. 137-615.000.
Schaible, Aaron M.; deceased (by Bremer, James F.; special administrator); and Davidson, Harry W., to Case, J. I., Company. Hydraulic control system for concrete placer. 3,711,223, 1-16-73, Cl. 417-342.000.
Schaible, Clifford Warren: *See—*
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Schaidl, Hubert: *See—*
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Schainbaum, Julius, to Smith Kline & French Laboratories. Peak detector. 3,753,109, 8-14-73, Cl. 324-103.00p.
Schalamon, Wesley A.; and Bacon, Roger, to Union Carbide Corporation. Process for producing carbon fibers having a high Young's modulus of elasticity. 3,716,331, 2-13-73, Cl. 423-447.000.



Schalin, Edmund; Dietrich, Joseph J.; Sturm, Clarence L.; Berkey, Reynold A.; and Semancik, John R., to Diamond Shamrock Corporation. Polymerizable unsaturated polyester composition containing thermoplastic additive. 3,721,642, 3-20-73, Cl. 260-40.00r.
Schall, Robert A., to Dorr-Oliver Incorporated. Air pressure actuated single-acting diaphragm pump. 3,781,141, 12-25-73, Cl. 417-395.000.
Schallehn, Hans-Georg, to Rheinstahl Aktiengesellschaft. Armored vehicle turret. 3,721,156, 3-20-73, Cl. 89-36.00k.
Schallehn, Hans-Georg, to Rheinstahl Aktiengesellschaft. Armored vehicle. 3,722,357, 3-27-73, Cl. 89-36.00h.
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Schaller, David R.: *See—*
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Schaller, David R., to General Electric Company. Method and apparatus for dispensing pellets into lamps. 3,729,247, 4-24-73, Cl. 316-16.000.
Schaller, Joseph P.; Jorgensen, E. Chris; and Critelli, Louis J., Jr., to Skill Sports, Inc. Resilient resin foam polyhedron and bat. 3,776,551, 12-4-73, Cl. 273-95.00a.
Schaller, Robert L., to Sundstrand-Engelberg, Inc. Bar feeder apparatus. 3,724,648, 4-3-73, Cl. 198-211.000.
Schaller, Robert L., to Sundstrand-Engelberg, Inc. Contour grinder. 3,727,350, 4-17-73, Cl. 51-141.000.
Schaller, Robert L., to Sundstrand-Engelberg, Inc. Regulating wheel. 3,732,648, 5-15-73, Cl. 51-103.00r.
Schaller, Robert L.; and Lamb, Michael W., to Sundstrand-Engelberg, Inc. Automatic work rest blade changer for centerless grinder. 3,751,858, 8-14-73, Cl. 51-238.0gg.
Schaller, Rudolf, to Siemens Aktiengesellschaft. Model rail structure with reduced electrical interference radiation for electrically driven toys. 3,746,252, 7-17-73, Cl. 238-10.00e.
Schalles, Erhard, to Werkzeugmaschinenfabrik Gildemeister & Comp. Aktiengesellschaft. Lathe chuck with exchangeable jaws and jaw changing means therefor. 3,744,125, 7-10-73, Cl. 29-568.000.
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Schaltegger, Herbert. Apparatus for picking up labels from a supply stack and directly applying the labels to containers. 3,723,228, 3-27-73, Cl. 156-568.000.
Schaltenbrand, Eugene D., to American Air Filter Company, Inc. Fabric tube type dust collector method. 3,766,712, 10-23-73, Cl. 55-96.000.
Schaltenbrand, Robert W.: *See—*
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Schamberg, Eckehard; and Hoigne, Juerg, to Inrescor A.G. Graft polymerization products and processes. 3,709,718, 1-9-73, Cl. 117-93.310.
Schamberger, Heinz, to Patent-Treuhand-Gesellschaft fur elektrische Gluhlampen m.b.H. Laser apparatus and mirror adjustment mechanism therefor. 3,764,934, 10-9-73, Cl. 331-94.500.
Schanck, Donald E.: *See—*
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Schane, Alvin Mansfield, to American Can Company. Full or partial opening easy-open container end closure. 3,773,209, 11-20-73, Cl. 220-54.000.
Schanne, Joseph Francis, to RCA Corporation. Article identification apparatus. 3,708,655, 1-2-73, Cl. 235-61.11e.
Schanne, Joseph Francis; and Nickl, Franklyn George, to RCA Corporation. Article identification apparatus. 3,770,944, 11-6-73, Cl. 235-61.11e.
Schantz, John S., 1/3 to Schantz, Raymond G. and 1/3 to Schantz, Socrates J. Portable three-in-one deep fat fryer, griddle and barbeque combination. 3,763,846, 10-9-73, Cl. 126-41.00s.
Schantz, Raymond G.: *See—*
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Schantz, Ronald K., to Westinghouse Air Brake Company. Fluid control system. 3,733,964, 5-22-73, Cl. 91-412.000.
Schantz, Socrates J.: *See—*
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Schantz, Spencer C., to U.S. Controls Corporation. Electrical switch with contact wiping. 3,731,032, 5-1-73, Cl. 200-164.00r.
Schantz, Spencer C., to U.S. Controls Corporation. Push-to-start switch. 3,740,682, 6-19-73, Cl. 335-186.000.
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Schapf, Walter G. Static-charge resistant synthetic yarns. 3,778,331, 12-11-73, Cl. 161-67.000.
Schappell, Frederick G., to Hercules Incorporated. 1,3,3-Trimethylbis(alpha-t-butylperoxyisopropyl-1-phenylindane. 3,773,724, 11-20-73, Cl. 260-46.50g.
Schaps, Joseph E.: *See—*
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Schar, Albert. Light beam method for testing a clockwork mechanism. 3,765,223, 10-16-73, Cl. 73-6.000.
Schar, Albert, to Greiner Electronic AG. Apparatus for analyzing the movement of a timepiece regulating mechanism. 3,771,347, 11-13-73, Cl. 73-6.000.
Scharbrough, James A.; Wilt, Charles R., Jr.; and Solano, William E., to Salem Corporation. Central shaft feeding for rotary hearth furnace. 3,743,475, 7-3-73, Cl. 432-16.000.
Scharch, Dieter: *See—*
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Scharfe, Gerhard; Swodenk, Wolfgang; Grolig, Johann; and Martin, Manfred, to Farbenfabriken Bayer Aktiengesellschaft. Production of 3-acetoxy-2-methylene propionic acid alkyl esters. 3,734,950, 5-22-73, Cl. 260-484.00a.
Scharfen, Hans, to Forkardt, Paul, Kommanditgesellschaft. Headstock for turning machines equipped with indexable chucks. 3,735,652, 5-29-73, Cl. 82-30.000.
Scharfenberger, James A., to Ransburg Electro-Coating Corporation. Improvements in and relating to the coating of articles. 3,730,433, 5-1-73, Cl. 239-15.000.
Scharfenberger, James A., to Ransburg Electro-Coating Corporation. Fiber cutter. 3,763,561, 10-9-73, Cl. 30-128.000.
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Scharlack, Meyer J. Method and apparatus for forming spatial light patterns. 3,737,722, 6-5-73, Cl. 315-209.000.
Scharle, Carl R., to Biddle, James G., Company. Resistance standard. 3,719,914, 3-6-73, Cl. 338-61.000.
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Scharnhorst, Peter, to United States of America, Navy. Electro-optical detector. 3,740,690, 6-19-73, Cl. 338-18.000.
Scharp, Gerson, to Computer Sciences Corporation. Bearing detection system. 3,778,835, 12-11-73, Cl. 343-113.000.
Scharres, Harry J. Fire smoke and blast damper. 3,756,137, 9-4-73, Cl. 98-1.000.
Schartmann, Knut Roger, to Northern Electric Company Limited. Repetitive pulse generating circuit. 3,723,829, 3-27-73, Cl. 317-141.00s.
Schartmann, Knut Roger; and Warner, Wesley John, to Northern Electric Company Limited, mesne. Line circuit for a key telephone system. 3,748,403, 7-24-73, Cl. 179-99.000.
Scharwat, Anna Maria, nee Strassel. Plier-like champagne cork remover. 3,722,327, 3-27-73, Cl. 81-3.10r.
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Schaufele, Robert F., to Owens-Illinois, Inc. Gas discharge panel with photoconductive material. 3,723,977, 3-27-73, Cl. 340-173.0pl.

Schauffele, Carl N.: *See—*
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Schauffele, Carl N.; and Valenta, Harry L., to Eastman Kodak Company. Gain control circuit. 3,769,598, 10-30-73, Cl. 323-185.000.

Schauffler, Peter P. World transport game apparatus. 3,726,527, 4-10-73, Cl. 273-134.0ac.

Schauls, James J., to Trane Company, The. Gas separation system. 3,739,593, 6-19-73, Cl. 62-14.000.

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Schaumburg, Georges. Method of and apparatus for applying an anticorrosion coating to a hot-formed metal body. 3,713,866, 1-30-73, Cl. 117-50.000.

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Schawinsky, Terry K.: *See—*
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Schbenk, Walter J., to Dow Chemical Company, The. Apparatus for the production of net-like structures. 3,746,485, 7-17-73, Cl. 425-131.000.

Schebalin, Sergei, to Honeywell Inc. Unitary resistor and shunt. 3,743,997, 7-3-73, Cl. 338-49.000.

Scheber, George D. Recreational device. 3,769,929, 11-6-73, Cl. 115-1.00r.

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Schedewie, Franz Joseph, to International Business Machines Corporation. Light beam edge detection. 3,764,218, 10-9-73, Cl. 356-118.000.

Scheel, Hans P., to Western Minerals, Inc. Process of treating organic waste. 3,758,287, 9-11-73, Cl. 71-12.000.

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Scheer, David W., to Honeywell Inc. Processing analog trace display. 3,772,679, 11-13-73, Cl. 340-347.0ad.

Scheer, Donald E.; and Noble, Robert G., to Hexcel Corporation. Method of filling honeycomb cores with fibers. 3,733,229, 5-15-73, Cl. 156-197.000.

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Schefer, Manfred: *See—*
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Scheffel, John W.; and Fischer, Paul W., to Union Oil Company of California. Method and composition for treating high-temperature subterranean formations. 3,717,204, 2-20-73, Cl. 166-283.000.

Scheffel, Walter: *See—*
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Scheffer, Harry, to Kruger, Harry, GmbH. Thrust piston motor operating with a gaseous fluid medium. 3,745,886, 7-17-73, Cl. 91-306.000.

Scheffer, Harry, to Kruger, Harry, GmbH. Thrust piston motors. 3,771,421, 11-13-73, Cl. 91-277.000.

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Scheffler, Holger; Bannehr, Konrad; and Ziprian, Ingo, to VEB Wirkmaschinenbau. Control apparatus for the pattern drum of a knitting machine. 3,759,069, 9-18-73, Cl. 66-50.00b.

Scheffler, Knut; Muller, Henricus M.; and Cappel, Aldo, to Alkem Alpha-Chemie und-Metallurgie G.m.b.H. Process for the wet chemical combustion of organic material. 3,776,856, 12-4-73, Cl. 252-301.10w.

Schefke, John T.; and Boktys, Algimantas K. Mobile and flexible intensive care unit. 3,762,398, 10-2-73, Cl. 128-2.00r.

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Scheidweiler, Andreas; and Muller, Peter R., to Cerberus AG. Ionization fire alarm with wind screen. 3,731,093, 5-1-73, Cl. 250-44.000.

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Scheitein, George Edward; and Hanson, Gene Richard, to Arvin Industries, Inc. Tube-plate interconnection. 3,761,116, 9-25-73, Cl. 285-192.000.

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Scheitlin, George E.; and Hanson, Gene Richard, to Arvin Industries, Inc. Method of interconnecting a tube to a plate. 3,766,631, 10-23-73, Cl. 29-424.000.

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Scherenberg, Hans, to Daimler-Benz Aktiengesellschaft. Installation for the prevention of slipping of the drive wheel of motor vehicles. 3,776,355, 12-4-73, Cl. 180-77.00r.
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Scherer, Otto; Korinth, Jurgen; and Frisch, Peter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Fluorination of aliphatic compounds. 3,752,850, 8-14-73, Cl. 260-544.00f.
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Scherg, Gustav; Auer, Norbert; Obereder, Horst; and Stollmayer, Nikolaus, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Arrangement for forcing two abutments apart. 3,776,063, 12-4-73, Cl. 74-520.000.





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Schernenberg, Hans O., to Daimler-Benz Aktiengesellschaft. Inflatable gas cushion for the protection of vehicle passengers, especially motor vehicles. 3,744,815, 7-10-73, Cl. 280-150.0ab.
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Schertz, Arthur R. Combination sand bailer and fluid pump with automatic grit separator and lubricator. 3,773,441, 11-20-73, Cl. 417-554.000.
Schertz, Burtron D.; and Wilkinson, Lester, to General Motors Corporation. Pulse length multiplier circuit. 3,712,992, 1-23-73, Cl. 307-267.000.
Schertz, Eugene P.; and Troisi, George A., to Dunkin' Donuts Incorporated. Doughnut and shell making. 3,708,255, 1-2-73, Cl. 425-287.000.
Scherz, Karl. Unloader for removing stock for a body of stock container in a storage space. 3,750,903, 8-7-73, Cl. 214-17.0db.
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Scheyer, Marcel. Thermal fluid boiler. 3,734,066, 5-22-73, Cl. 122-367.00r.
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Schiavone, Donald James, to Gould Inc. Cable spacers for electrical overhead transmission lines. 3,711,623, 1-16-73, Cl. 174-40.00r.
Schibler, Luzius; and Harris, Melvin, to Ciba-Geigy AG. Process for the encapsulation of substances which are finely distributed in a liquid, and capsule compositions produced thereby. 3,778,383, 12-11-73, Cl. 252-316.000.
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Schierz, Winfried; and Vladik, Liboslav, to Semikron Gesellschaft fur Gleichrichterbau und Elektronik m.b.H. Contact structure for multiple wafer semiconductor rectifier arrangement. 3,708,730, 1-2-73, Cl. 317-234.00r.
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Schieser, Warren J.; and Vickers, Stanley E., to Corco, Inc. Machine for removal of bottles from shipper bags and placement thereof on a conveyor. 3,777,913, 12-11-73, Cl. 214-8.50d.
Schiess Aktiengesellschaft: *See—*
Wagner, Hans O., 3,737,008.
Wagner, Hans Oskar, 3,761,194.
Weyand, Manfred; and Picker, Manfred, 3,752,596.
Schiess, George, to RCA Corporation. Transistor deflection circuits utilizing a class B, push-pull output stage. 3,715,621, 2-6-73, Cl. 315-27.0td.
Schiesser, Gabriel, to Maschinenfabrik und Giesserei Netstal AG. Method for closing plastic containers. 3,765,144, 10-16-73, Cl. 53-39.000.
Schiesser, Henry: *See—*
Colas, Jean D.; Leblan, Robert; and Schiesser, Henry, 3,767,857.
Schiesterl, Gerhard, to Daimler-Benz Aktiengesellschaft. Steering lock for motor vehicles. 3,722,243, 3-27-73, Cl. 70-369.000.
Schiesterl, Gerhard, to Daimler-Benz Aktiengesellschaft. Steering wheel lock for automotive vehicles. 3,753,361, 8-21-73, Cl. 70-185.000.
Schiesterl, Gerhard, to Daimler-Benz Aktiengesellschaft. Safety steering. 3,774,932, 11-27-73, Cl. 280-87.00r.
Schiesterl, Gerhard; and Kuhn, Hans-Ulrich, to Daimler-Benz Aktiengesellschaft. Vehicle liquid level monitor for passenger protection installations. 3,781,788, 12-25-73, Cl. 340-59.000.
Schiethart, Lodewijk, to N.V. Electromotorenfabriek Dordt. Synchronous electric motor. 3,732,448, 5-8-73, Cl. 310-162.000.
Schietknecht, Adolf, to Rieter Machine Works, Ltd. Rotor of an open end spinning device. 3,769,785, 11-8-73, Cl. 57-58.890.
Schieven, Stanley R.: *See—*
Frost, David A.; and Schieven, Stanley R., 3,776,732.
Schieving, Dick: *See—*
Hagendoorn, Johan Gerard; and Schieving, Dick, 3,778,770.
Schieving, Jean: *See—*
Iteboul, James Remy Albert; Baude, Andre Rene; and Schieving, Jean, 3,746,452.
Schiewek, Peter: *See—*
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Schifalacqua, Italo H., to Burroughs Corporation. Control system for stepping motors. 3,755,727, 8-28-73, Cl. 318-696.000.
Schiff, Leonard Norman; and Staras, Harold, to RCA Corporation. Disabled vehicle signalling system. 3,721,955, 3-20-73, Cl. 340-33.000.
Schiff, Norman: *See—*
Mesek, Frederick K.; Shepherd, Robert C.; Strickel, William R.; Liloia, Gerald J.; May, Louis F., Jr.; and Schiff, Norman, 3,777,158.
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Taft, William G.; Schiff, Rein; and Iredale, A. John, 3,726,759.



Schiff, Sidney; and Kahle, Gerald R., to Phillips Petroleum Company. Additives for lubricants. 3,766,150, 10-16-73, Cl. 260-79.30r.
Schiff, Sidney, to Phillips Petroleum Company. Gasoline additive. 3,767,574, 10-23-73, Cl. 252-51.000.
Schiffelbein, Richard A. Concrete delivery chute attachment. 3,746,140, 7-17-73, Cl. 193-5.000.
Schiffer, Gunter; and Lopata, Karl Peter, to Kleinewefers, John., Sohne. Textile treating device. 3,763,671, 10-9-73, Cl. 68-85.000.
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Kaufman, Harold B., Jr.; Stein, Ernest W.; and Schiffmann, Robert F., 3,754,464.
Schiffner, Gerhard: *See—*
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Schifman, Henry, to Refrigiwear, Inc. Garment. 3,711,865, 1-23-73, Cl. 2-79.000.
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Daugny, Bertrand; and Schifrine, Jean, 3,745,574.
Schild, A., S.A.: *See—*
Fluck, Josef; and Zaugg, Roland, 3,735,581.
Glanzmann, Werner; and Zaugg, Roland, 3,731,482.
Zaugg, Roland; Glanzmann, Werner; and Fluck, Josef, 3,714,774.
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Schild, Charles W. Simulated fishing game. 3,764,138, 10-9-73, Cl. 273-85.00r.
Schild, Edwin F., to Airway Products Corporation. Shelving construction. 3,770,135, 11-6-73, Cl. 211-148.000.
Schildgen, Robert M.: *See—*
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Schildkraut, Elliot R., to Block Engineering, Inc. Attenuated total reflection spectroscopic device. 3,752,584, 8-14-73, Cl. 356-74.000.
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Schildmeier, John Henry. Tire loading and trueing apparatus. 3,708,008, 1-2-73, Cl. 157-13.000.
Schilke, August W. Auto hood remover and installer. 3,752,463, 8-14-73, Cl. 269-17.000.
Schill, Hermann, to Prontor-Werk Alfred Gauthier G.m.b.H. Photographic shutter with reciprocating shutter blade driving member and electronic timing device. 3,713,372, 1-30-73, Cl. 95-53.0eb.
Schill, Hermann; deceased (by Schill, Hermann, Jr.; administrator). Bacon derinding machine. 3,747,512, 7-24-73, Cl. 99-589.000.
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Shane, Hugh J. S.; Schill, John E.; and Lilley, John W., 3,723,342.
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Schill, Jurgen Henrich, to Sulzer Brothers Limited. Circulating system for a nuclear pressure vessel. 3,748,229, 7-24-73, Cl. 176-65.000.
Schiller, Hans-Peter, to Licentia Patent-Verwaltungs-G.m.b.H. Method of removing inversion layers from semiconductor bodies of p-type conductivity. 3,733,222, 5-15-73, Cl. 148-1.500.
Schiller, Jacob D.; Cheslik, Scott L.; and Gonzales, J. Tim, to Mallory, P. R., & Co., Inc. Material working machine. 3,778,582, 12-11-73, Cl. 219-87.000.
Schiller, Peter: *See—*
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Schiller, Teddy M., to Purex Corporation, Ltd. Impeller running clearance adjustment device. 3,771,927, 11-13-73, Cl. 415-131.000.
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Schilling, Helmut W.: *See—*
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Schilling, Robert G., Jr., to Chemical Instruments Corporation. Material analyzing apparatus. 3,751,977, 8-14-73, Cl. 173-101.000.
Schilling, Robert W.: *See—*
Christensen, Eric A.; and Schilling, Robert W., 3,749,336.
Schilling, Walter W., to MacMillan Bloedel Limited. Sheet feeding apparatus. 3,758,365, 9-11-73, Cl. 156-538.000.
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Schillinger, Joseph F., to U.S. Plywood-Champion Papers, Inc. Shadow box for tube. 3,712,461, 1-23-73, Cl. 206-45.190.
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Schilt, Stephen J. Method of glazing greenware with an ambient epoxy resin during composition. 3,769,070, 10-30-73, Cl. 117-94.000.
Schilter, Max, to Contraves AG. Pneumatic display. 3,748,764, 7-31-73, Cl. 40-37.000.
Schilter, Thomas, to Maschinenfabrik Schilter & Co. Automotive vehicle with front power take-off for power-driven implements. 3,759,340, 9-18-73, Cl. 180-53.0fe.
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Schimitschek, Erhard J.; and Trias, John A., to United States of America, Navy. Liquid laser solution formed with a neodymium salt in phosphorus oxychloride. 3,779,939, 12-18-73, Cl. 252-301.40p.
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Schimkat, Harald; and Lincke, Wolfgang, to Volkswagenwerk Aktiengesellschaft. Steering arrangement for vehicles, especially for motor vehicles, having a compensation for sidewise force affects. 3,744,587, 7-10-73, Cl. 180-79.20r.
Schimmel, Bernd: *See—*
Bauer, Karl; Mayer, Manfred; Illg, Peter; and Schimmel, Bernd, 3,746,233.
Schimmel, Vernon R.; and Shoemaker, James C., to Symons Corporation. Three-piece clamp assembly for the braces of scaffolding. 3,751,081, 8-7-73, Cl. 287-53.500.
Schimmelpfenig, Frederick J., to General Motors Corporation. Fuel line shut off valve for pressurized fuel systems. 3,763,840, 10-9-73, Cl. 123-136.000.
Schimmelschmidt, Kurt; and Kleiner, Hans-Jerg, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of dialkyl phosphites from alcohols and phosphorous acid. 3,725,515, 4-3-73, Cl. 260-978.000.
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Johswich, Friedrich; and Schindelbeck, Werner, 3,708,981.
Schindele, Alfred, to Terrot, C., Sohne, Maschinenfabrik. Apparatus for controlling the jacks and needles of circular knitting machines. 3,751,943, 8-14-73, Cl. 66-42.000.
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Schindler, Edgar C.; and McEachron, John C., to Nelco Corporation. Molded electrical junction box. 3,740,451, 6-19-73, Cl. 174-58.000.
Schindler, Hans: *See—*
Ross, Norman C.; Schindler, Hans; and Waples, Joseph H., 3,769,213.
Schindler, Hans, to Braun Aktiengesellschaft. Electromagnetic lighter with an apertured metal casing. 3,760,231, 9-18-73, Cl. 317-92.000.
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Sze, Morgan C.; Schindler, Harvey D.; and Riegel, Herbert, 3,763,263.
Schindler, Harvey P.: *See—*
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Schindler, Hector; and Schmid, Erich, to Ciba-Geigy Corporation. Imidazolidinone derivatives in controlling psycho-somatic disturbances. 3,767,796, 10-23-73, Cl. 424-250.000.
Schindler, Herbert: *See—*
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Schindler, Herbert; and Loffler, Tilo. Toe-lasting machine. 3,774,260, 11-27-73, Cl. 12-12.000.
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Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,259, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,260, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,261, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,262, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,263, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,264, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,265, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,266, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,267, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,268, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,269, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,270, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,271, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,272, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,273, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,274, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,275, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,276, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,277, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,278, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,279, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,280, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,281, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,282, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Ebauches S.A. Electronic timepiece. 3,765,283, 10-16-73, Cl. 58-23.000.
Schindler, Jean-Pierre, to Eb

Schindler, Herbert; and Loffler, Tilo. Toe-lasting machine. 3,729,758, 5-1-73, Cl. 12-10.500.

Schindler, Herbert; and Winter, Gerhard. Machine for pre-shaping shoe parts. 3,775,796, 12-4-73, Cl. 12-54.300.

Schindler, John K.; and Holt, F. Sheppard, to United States of America, Air Force. Spectrum analysis radar. 3,745,568, 7-10-73, Cl. 343-5.0sa.

Schindler, Walter: *See—*
Blattner, Hans; and Schindler, Walter, 3,749,790.
Blattner, Hans; and Schindler, Walter, 3,772,348.
Blattner, Hans; and Schindler, Walter, 3,777,032.

Schindler, Walter, to Ciba-Geigy Corporation. 10-Oxo-10,11-dihydro-5H-dibenz 6,f azepine-5-carboxamide in the treating of epilepsy. 3,716,640, 2-13-73, Cl. 424-244.000.

Schindler, Walter; and Zuest, Armin, to Ciba-Geigy Corporation. [4-(10, 11-dihydro-5H-dibenzo[a,d] cyclohepten-10-yl-1-piperazinyl)-alkyl]-3-alkyl-2-imidazolidinones as CNS depressants. 3,720,676, 3-13-73, Cl. 260-268.0tr.

Schindler, Walter; Schmid, Erich; and Zuest, Armin, to Ciba-Geigy Corporation. 4-(Thieno [2,3-b] [1,5] benzothiazep in-4-yl)-piperazinyl-alkyl-3-alkyl-2-imidazolidinones as CNS-depressants. 3,720,677, 3-13-73, Cl. 260-268.0tr.

Schindler, Walter; and Zust, Armin, to Ciba-Geigy Corporation. Imidazolidinone derivatives in a composition and method for producing C.N.S. depressant. 3,721,739, 3-20-73, Cl. 424-250.000.

Schindler, Walter; Schmid, Erich; and Zuest, Armin, to Ciba-Geigy Corporation. [4-(10,11-Dihydrodibenz[b,f] oxepin-10-yl)-1-piperazinyl]-alkyl]-3-alkyl-2-imidazolidinones as CNS-depressants. 3,725,411, 4-3-73, Cl. 260-268.0tr.

Schindler, Walter; deceased (by Gosteli, Jacques; and Gysin, Leonhard; legal representatives), to Ciba-Geigy Corporation. 1,2,3,8-tetrahydrodibenzo (3,4 6,7) cyclohepta (1,2-c) pyrroles as CNS-depressants. 3,726,897, 4-10-73, Cl. 260-313.100.

Schindler, Walter; deceased (by Blattner, Hans; and Gysin, Leonard; legal representatives), to Ciba-Geigy Corporation. 2,3-Dihydro-5-trifluoromethyl-1H-dibenzo (2,3:6,7) thiepino (4,5-C)pyrolles as CNS-depressants. 3,755,357, 8-28-73, Cl. 260-326.900.

Schindler, Walter; deceased (by Gosteli, Jacques; and Gysin, Leonhard; executors), to Ciba-Geigy Corporation. 1,2,3,8-Tetra hydrodibenzo(3,4:6,7)cyclohepta (1,2-c)pyrroles as CNS-depressants. 3,773,940, 11-20-73, Cl. 424-274.000.

Schindler, Willard R. Device for loading shells. 3,757,449, 9-11-73, Cl. 42-87.000.

Schindler, William A. Apparatus for determining the gauge of wire screen or mesh. 3,732,899, 5-15-73, Cl. 140-112.000.

Schinella, Richard D.; and Herndon, William H., to Fairchild Camera and Instrument Corporation. Methods for forming metal/metal silicide semiconductor device interconnect system. 3,777,364, 12-11-73, Cl. 29-578.000.

Schink, Norbert, to Siemens Aktiengesellschaft. Semiconductor element. 3,751,306, 8-7-73, Cl. 148-33.300.

Schinke, David Paul; and Van Uitert, Le Grand Gerard, to Bell Telephone Laboratories, Incorporated. Ferroelastic $Tb_2(MoO_4)_3$ and devices incorporating. 3,717,562, 2-20-73, Cl. 204-180.00r.

Schinke, Georg: *See—*
Langenhoff, Ferdinand; Termin, Erich; Lenz, Arnold; and Schinke, Georg, 3,754,073.
Langenhoff, Ferdinand; Termin, Erich; Lentz, Arnold; and Schinke, Georg, 3,755,547.

Schinke, Heinz Joachim; and Lehmann, Werner, to Bauerle, Mathias, GmbH. Automatically presettable copy counter for automatic printing machines, copiers, and the like. 3,740,531, 6-19-73, Cl. 235-61.70r.

Schinkelsh, Jacob: *See—*
Versluis, Rueland; Schinkelsh, Jacob; and Schuurman, Peter J., 3,747,308.

Schinner, Edward N.: *See—*
Engalitcheff, John, Jr.; Bradley, Wilson E., Jr.; and Schinner, Edward N., 3,767,176.
Engalitcheff, John, Jr.; Bradley, Wilson E., Jr.; and Schinner, Edward N., 3,767,177.

Schinner, Thomas J.: *See—*
Gieringer, Carl K.; Kleimeyer, Vernon T.; Schinner, Thomas J.; Singer, Paul A.; and Zimmer, Ernest B., 3,760,160.
Gieringer, Carl K.; Kleimeyer, Vernon T.; Schinner, Thomas J.; and Singer, Paul A., 3,775,593.
Kleimeyer, Vernon T.; and Schinner, Thomas J., 3,727,548.

Schinnerer, Roy L.; Silver, Alexander; Sladek, Leonard T.; and Barnett, Morris A., to Garrett Corporation, The. Fluid bearing inertial filter. 3,740,163, 6-19-73, Cl. 415-111.000.

Schinzel, Fidelius; and Schwannecke, Helmut, to Industrie-Werke Karlsruhe Augsburg Aktiengesellschaft. Sewing machine with multi-needle supporting arm. 3,722,438, 3-27-73, Cl. 112-199.000.

Schipitsh, Stephen J.: *See—*
Huppert, Karl H.; and Schipitsh, Stephen J., 3,735,800.

Schipper, Dennis J.: *See—*
Coyle, Edward L.; and Schipper, Dennis J., 3,731,053.

Schipper, Dennis J.; Ried, Harold T.; and Rollins, Dallas W., to ACF Industries, Incorporated. Railway hopper car outlet. 3,779,172, 12-18-73, Cl. 105-282.00p.

Schipper, Dirk A. Method and apparatus for pipeline connection. 3,724,061, 4-3-73, Cl. 29-464.000.

Schipper, Philipp: *See—*
Knedel, Maximilian; Krech, Hans; Ockert, Dietrich; Schipper, Philipp; Haas, Werner; and Isensee, Klaus-Steffen, 3,751,985.

Schipper, Richard A.: *See—*
Brewer, Donald R.; and Schipper, Richard A., 3,710,085.

Schippers, Heinz; and Hensen, Friedhelm, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Vented screw extruder with pressure and flow regulating means. 3,712,594, 1-23-73, Cl. 259-191.000.

Schippers, Heinz; Hensen, Friedhelm; and Lenk, Erich, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Simultaneous production of plurality of filament winding packages. 3,719,442, 3-6-73, Cl. 425-66.000.

Schippers, Heinz; Lenk, Erich; and Streppel, Herbert, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Winding machines with pivotable rail-guided toggle traversing rod guides. 3,730,448, 5-1-73, Cl. 242-43.100.

Schippers, Heinz, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Screw extruder with internal static mixing assembly. 3,746,318, 7-17-73, Cl. 259-191.000.

Schippers, Heinz, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Gear pump for viscous thermoplastic melts. 3,746,481, 7-17-73, Cl. 418-83.000.

Schippers, Heinz, to Barmag Barmer Maschinenfabrik Aktiengesellschaft. Screw extruder for thermoplastic melts with temperature equalizing head. 3,762,692, 10-2-73, Cl. 259-191.000.

Schippers, James Henry; and Chisholm, James Edwards, to Formica Corporation. Modular extrusion for cabinets and similar structures. 3,729,241, 4-24-73, Cl. 312-107.000.

Schiptsova, Antonina Vasilievna: *See—*
Tsirkel, Elena Ernestovna; Stepanova, Ljudmila Nikolaevna; Schiptsova, Antonina Vasilievna; Tsareva, Nina Alexandrovna; Nessler, Andrei Maximilianovich; and Vishnyak, Idal Aizikovich, 3,722,204.

Schirmann, Jean-Pierre; and Weiss, Francis, to Ugine Kuhlmann. Process for the preparation of 1,2,6-hexanetriol. 3,773,842, 11-20-73, Cl. 260-635.00a.

Schirmer, Ernest J.: *See—*
Boltrek, Henry; Hill, Menno E.; Kraft, Joseph K.; and Schirmer, Ernest J., 3,712,447.

Schirmer, Gunter; and Fauser, Edwin, to Bosch, Robert, G.m.b.H. Function generator. 3,708,659, 1-2-73, Cl. 235-197.000.

Schirmer, Gunter; Fauser, Edwin; and Steinke, Leo, to Bosch, Robert, G.m.b.H. Arrangements for electronically determining and adjusting the ignition time of an internal combustion engine. 3,756,212, 9-4-73, Cl. 123-148.00e.

Schirmer, Gunter, to Bosch, Robert, G.m.b.H. Device for measuring camber and caster of vehicle wheels. 3,756,724, 9-4-73, Cl. 356-155.000.

Schirmer, Henry G., to Grace, W. R., & Co. Non-woven fabric-like member. 3,717,541, 2-20-73, Cl. 161-169.000.

Schirmer, Henry G., to Grace, W. R., & Co. Method for lasting an inflated tubular polyethylene film with mixed polymer of polyproxylene-polybutene-1. 3,754,063, 8-21-73, Cl. 264-22.000.

Schirmer, Henry G., to Grace, W. R., & Co. Fabric formed by heat sealing, shrinking and foaming backing. 3,755,062, 8-28-73, Cl. 161-146.000.

Schirmer, Olaf W.: *See—*
Carmel, Edwin L.; and Schirmer, Olaf W., 3,776,569.

Schirmer, Wolf: *See—*
Reinsch, Herbert; Kuhne, Gottfried; and Schirmer, Wolf, 3,753,613.

Schirrich, Klaus: *See—*
Erk, Amir; Tessmann, Ottomar; and Schirrich, Klaus, 3,734,395.

Schirtzinger, Joseph F., to Air Logistics Corporation. Single point mooring system. 3,750,723, 8-7-73, Cl. 141-388.000.

Schirtzinger, Joseph F., to Air Logistics Corporation. Sweep ice cutter. 3,768,428, 10-30-73, Cl. 114-42.000.

Schittenhelm, Jean Albert. Chassis frame. 3,746,362, 7-17-73, Cl. 280-106.00t.

Schjeldahl, G. T., Company: *See—*
Adams, Richard C., 3,748,205.
Monahan, Thomas J.; and Adams, Richard C., 3,776,804.
Rooks, John C., 3,710,180.

Schlachter, Alfred S.: *See—*
Rork, Gerald D.; Schlachter, Alfred S.; Simon, Frank N.; and Stryk, Robert A., 3,735,138.

Schlack, Allen F.: *See—*
Perkins, William E.; Schlack, Allen F.; and Ciccone, Thomas Q., 3,714,728.

Schladenhauffen, Paul C. Boat loading apparatus. 3,708,081, 1-2-73, Cl. 214-450.000.

Schladetsch, Hans Jakob: *See—*
Happe, Wilhelm; and Schladetsch, Hans Jakob, 3,708,596.

Schladitz, Herman J., to Schladitz Whiskers A.G. Porous, electrically conductive member. 3,769,086, 10-30-73, Cl. 117-228.000.

Schladitz, Hermann J. Method of manufacture of materials from polycrystalline filaments. 3,770,492, 11-6-73, Cl. 117-107.200.

Schladitz Whiskers A.G.: *See—*





Schladitz, Herman J., 3,769,086.

Schlaepfer, Hans: *See—*
Zweidler, Reinhard; Kabas, Guglielmo; Schlaepfer, Hans; and Fletcher, Ian John, 3,776,905.

Schlaf, Stanley O. Vending machine with screw conveyor type cellular magazine. 3,731,841, 5-8-73, Cl. 221-75.000.

Schlaf, Stanley O. Dispensing machine for bagged products. 3,773,217, 11-20-73, Cl. 221-75.000.

Schlaffer, Edward J.; and Wilder, Stevens E., to Caterpillar Tractor Company. Engine cooling system. 3,759,233, 9-18-73, Cl. 123-41.100.

Schlaffer, James C.: *See—*
Morton, John Fraser; Schlaffer, James C.; Eitzel, Robert J.; and Fowler, Joseph A., 3,745,040.

Schlafhorst, W., & Co.: *See—*
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Derichs, Josef, 3,774,415.
Koslowski, Gerhard, 3,753,274.
Kupper, Willi, 3,770,220.
Peschl, Ervin; and Skrepek, Jan, 3,718,011.
Raasch, Hans, 3,747,862.

Schlagbauer, Johann; Maulhardt, Otto; and Schmitt, Werner, to Vereinigte Papierwerke Schickedanz & Co. Process and apparatus for the removal of soft objects, especially cellulose tissues. 3,773,322, 11-20-73, Cl. 271-80.000.

Schlage, Ernest L., to Schlage Lock Company. Electromagnetic lock. 3,751,088, 8-7-73, Cl. 292-201.000.

Schlage, Ernest L., to Schlage Lock Company. Removable cylinder for a lockset. 3,776,008, 12-4-73, Cl. 70-368.000.

Schlage, Ernest L., to Schlage Lock Company. Binary multi-plane cylinder. 3,780,549, 12-25-73, Cl. 70-358.000.

Schlage Lock Company: *See—*
Hegedus, Denes, 3,708,191.
Lasier, Thomas R., 3,729,770.
Neary, Ralph E., 3,713,683.
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Schlagel, Samuel: *See—*
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Schlagheck, Norbert: *See—*
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Schlagheck, Norbert; Schultes, Herbert; Schneider, Horst; and Huber, Hans-Peter, to Agfa-Gevaert Aktiengesellschaft. Apparatus for manipulating receptacles of exposed customer films. 3,766,525, 10-16-73, Cl. 340-172.500.

Schlaikjer, Carl R.: *See—*
Liang, Charles C.; and Schlaikjer, Carl R., 3,709,734.

Schlamp, Hermann, to Ronson Corporation. Lighter. 3,771,943, 11-13-73, Cl. 431-255.000.

Schlang, Arthur, to Isotec Incorporated. Electro-optical character reader. 3,772,648, 11-13-73, Cl. 340-146.30j.

Schlanger, Gabriel Gary: *See—*
Pilc, Randolph John; and Schlanger, Gabriel Gary, 3,761,894.

Schlanzky, Manfred P., to General Motors Corporation. Hydraulic pump. 3,754,842, 8-28-73, Cl. 417-269.000.

Schlanzky, Manfred P. H., to General Motors Corporation. Tank vent control unit. 3,765,435, 10-16-73, Cl. 137-39.000.

Schlapfer, Hans, to Ciba-Geigy Corporation. Arylvinyl-v-triazoles, their use for the optical brightening of organic materials and process for their production. 3,714,152, 1-30-73, Cl. 260-240.00d.

Schlapfer, Hans, to Ciba-Geigy Corporation. Optical brightener of the coumarinylstyryltriazole series. 3,743,639, 7-3-73, Cl. 260-240.00d.

Schlapfer, Hans; and Kabas, Guglielmo, to Ciba-Geigy Corporation. 2-Benzimidazol (2)-benzofurans as optical brighteners. 3,772,323, 11-13-73, Cl. 260-309.200.

Schlapp, Werner; and Boss, Otto, to Leitz, Ernst, G.m.b.H. Extension tube for photographic lenses. 3,722,390, 3-27-73, Cl. 95-45.000.

Schlarb, Charles S. Swivel unit for small rotary drilling rig. 3,743,325, 7-3-73, Cl. 285-94.000.

Schlatmann, Joseph Lucas Maria Antonius: *See—*
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Schlatter, Benjamin G.; and Spate, Sydney, to Art Iron, Inc. Portable jail cell. 3,722,152, 3-27-73, Cl. 52-79.000.

Schlatter, Gerald Lance: *See—*
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Schlatter, Gerald Lance, to International Telephone and Telegraph Corporation. Densitometer. 3,715,912, 2-13-73, Cl. 73-32.000.

Schlatter, Gerald Lance, to International Telephone and Telegraph Corporation. Analog multiplier and square root extractor having a plurality of strain gages connected in a bridge circuit. 3,732,406, 5-8-73, Cl. 235-151.340.

Schlatter, Gerald Lance, to International Telephone and Telegraph Corporation. Function generator and components thereof. 3,735,633, 5-29-73, Cl. 73-32.000.

Schlatter, Gerald Lance, to International Telephone and Telegraph Corporation. Function generator and components thereof. 3,769,500, 10-30-73, Cl. 235-197.000.

Schlatter, Gerald Lance, to International Telephone and Telegraph Corporation. Densitometer components. 3,776,024, 12-4-73, Cl. 73-32.000.

Schlatter, Hugo, to Hercules Incorporated. Saddle lock-up for flexible printing plates. 3,766,857, 10-23-73, Cl. 101-415.100.

Schlatter, James M., to Searle, G. D. & Co. Optionally substituted aspartyl cyclohexylalanine lower alkyl esters, compositions and method. 3,714,139, 1-30-73, Cl. 260-112.500.

Schlatter, Rene, to Latrobe Steel Company. Apparatus for electroslag melting. 3,715,201, 2-6-73, Cl. 75-10.000.

Schlatter, Rene, to Latrobe Steel Company. Electroflux slags and methods of electroflux remelting. 3,723,094, 3-27-73, Cl. 75-12.000.

Schlatter, Rudolph: *See—*
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Schlatter, Rudolph; and Adams, Charles De Witt, to Du Pont de Nemours, E. I., and Company. Salts of cyanocarbamates. 3,723,505, 3-27-73, Cl. 260-482.00c.

Schlau, Floyd E.: *See—*
Bosley, Denis V.; Crain, Philip W.; Douglas, Raymond J.; Loomis, Bernard; Schlau, Floyd E.; and Staats, William A., 3,716,940.
Merino, Dennis H.; and Schlau, Floyd E., 3,712,541.
Merino, Dennis H.; Bosley, Denis V.; Lucas, Daniel R., Jr.; and Schlau, Floyd E., 3,717,346.
Merino, Dennis H.; Bales, Joseph H.; Bosley, Denis V.; Prodger, Brian S.; Ruppel, Kurt; and Schlau, Floyd E., 3,762,095.

Schlaudroff, Leo M., to Kerr-McGee Chemical Corporation. Apparatus and method for precisely forming and placing insulation in the slots of magnetic cores. 3,778,890, 12-18-73, Cl. 29-596.000.

Schlaudt, Charles M.; Clendenen, Ronald L.; and Olson, Eugene E., to Shell Oil Company. Process for preparing a ductile metal ferrite. 3,766,642, 10-23-73, Cl. 29-608.000.

Schlegel, Earl S.: *See—*
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Schlegel, Franz, to Optische Werke G. Rodenstock. Lens for night vision apparatus. 3,738,735, 6-12-73, Cl. 350-214.000.

Schlegel, Fred. Trailer hitch guide assembly. 3,720,000, 3-13-73, Cl. 33-264.000.

Schlegel, Horst, to Patent-Treuhand-Gesellschaft fur Elektrische Gluhlampen m.b.H. High pressure compact arc discharge lamp for multiphase operation. 3,766,430, 10-16-73, Cl. 315-147.000.

Schlegel, James E., to International Harvester Company. Seed selector for planter. 3,731,842, 5-8-73, Cl. 221-278.000.

Schlegel Manufacturing Company, The: *See—*
Blose, Werner, 3,736,759.
Lansing, Frederick J., 3,755,873.
Lenzi, Anthony J., 3,748,215.
Smoot, Edward H., 3,737,972.
Weaver, John L.; and Smoot, Edward H., 3,775,907.
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Schlegel, Norman H., to Cory Corporation. Decanter handle structure. 3,717,288, 2-20-73, Cl. 222-465.000.

Schlegel, Richard: *See—*
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Schlegel, William, to Pen-Cell Plastics, Inc. Purple martin birdhouse. 3,757,742, 9-11-73, Cl. 119-23.000.

Schlegel, William R., to All American Industries, Inc. Pendant supporting and retaining device for arresting aircraft. 3,726,498, 4-10-73, Cl. 244-110.00c.

Schlegel, William R., to All American Industries, Inc. Variable energy absorber for aircraft arresting system. 3,737,124, 6-5-73, Cl. 244-110.00a.

Schlehr, Walter R., to Ford Motor Company. Float glass chamber having thin laminated carbon bottom. 3,712,801, 1-23-73, Cl. 65-182.00r.

Schlei, Alvin O. Ladder bracket. 3,708,080, 1-2-73, Cl. 182-214.000.

Schleich, Hans, to Baxter Laboratories, Inc. Stabilized microbial rennet. 3,763,010, 10-2-73, Cl. 195-63.000.

Schleicher GmbH & Co. Relaisbau KG: *See—*
Friedrich, Karl-Dieter, 3,735,205.
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Schleicher, Helmut; and Haufe, Werner, 3,740,696.

Schleicher, Harold E., to Arrow-Hart, Inc. Grounding means for mounting bridges of attachment plug receptacles and the like. 3,723,939, 3-27-73, Cl. 339-14.00r.

Schleicher, Harold E., to Arrow-Hart, Inc. Electrical connectors with internal and external strain-relief for conductor wires. 3,781,765, 12-25-73, Cl. 339-103.00r.

Schleicher, Helmut; and Haufe, Werner, to Schleicher GmbH & Co. Relaisbau KG. Locking mechanism. 3,740,696, 6-19-73, Cl. 339-75.00m.

Schleicher, Joseph Bernard; and Roderick, William R., to Abbott Laboratories. Method for combating certain virus infection. 3,767,795, 10-23-73, Cl. 424-212.000.





Schleif, George H. Retractable fish hook apparatus. 3,739,517, 6-19-

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Schleif, George H. Retractable fish hook apparatus. 3,739,517, 6-19-73, Cl. 43-35.000.
Schlein, Herbert N.: *See—*
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Schlein, Herbert N.; and Young, Richard W., to Polaroid Corporation. Photographic color-diffusion transfer units which utilize neutralizing layer comprising a watersoluble polymeric acid and a water soluble binder. 3,756,815, 9-4-73, Cl. 96-3.000.
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Schleppnik, Alfred A., to Monsanto Company. 2-Alkyl-3-(2-norbornyl)-propanals. 3,780,109, 12-18-73, Cl. 260-598.000.
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Schlesman, Carleton H., to United States of America, Navy. Radioactive timing mechanism. 3,727,017, 4-10-73, Cl. 200-81.600.
Schlessel, Joseph. Printed-board and similar transmission-line structure for reducing interference. 3,757,028, 9-4-73, Cl. 174-33.000.
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Schleupen, Richard; and Ferdinand, Grob, to Bosch, Robert, G.m.b.H. Arrangement for automatically controlling the movement of motor vehicles. 3,718,201, 2-27-73, Cl. 180-98.000.
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Schlichte, Max, to Siemens Aktiengesellschaft. Time multiplex coupling arrangement for the connection of multiple buses of a time multiplex telephone exchange. 3,761,633, 9-25-73, Cl. 179-15.0aa.
Schlichtig, Ralph C. Pneumatic powered diaphragm pump system for heat transfer. 3,763,663, 10-9-73, Cl. 62-498.000.
Schlichting, John, to Babcock & Wilcox Company, The. Industrial technique. 3,771,596, 11-13-73, Cl. 165-158.000.
Schlickeiser, Klaus. Incremental tape drive with optically derived control pulses. 3,772,664, 11-13-73, Cl. 340-174.10a.
Schlicker, Herman L. Pallet valve construction. 3,722,347, 3-27-73, Cl. 84-342.000.
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Schliebs, Reinhard; and Jonas, Gerhard, to Bayer Aktiengesellschaft. Process for preparing isomeric cyclic 5-membered unsaturated phosphine dihalides. 3,751,460, 8-7-73, Cl. 260-543.00p.
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Schlies, Edward L.; Weaver, Harrison; Haun, John W.; and Hensel, Dwight L., to Beatrice Foods Co. Apparatus for heating a pressurized gas. 3,760,791, 9-25-73, Cl. 126-110.000.
Schliesman, Leonard J., to Consolidated Papers, Inc. Electrostatic recording paper and method of making. 3,759,744, 9-18-73, Cl. 117-218.000.
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Schlossberg, Howard, to United States of America, Air Force. Apparatus for locking the frequency of a laser to an atomic absorption line. 3,725,814, 4-3-73, Cl. 331-94.500.
Schlossberg, Howard, to United States of America, Air Force. Isolator for high power laser system. 3,781,714, 12-25-73, Cl. 331-94.500.
Schlosser, Karl, to Siemens Aktiengesellschaft. Circuit for determining the frequency assigned to a markable instant of a frequency-modulated transmitter. 3,753,118, 8-14-73, Cl. 325-134.000.
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Schluckebier, Floyd A., to General Motors Corporation. Adjustable steering column. 3,747,426, 7-24-73, Cl. 74-492.000.
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Schlumbom, Peter; and Gordon, David A., to Ciba-Geigy Corporation. Process for preparing copolymers of maleic anhydride and 2-alkoxy-propene. 3,721,654, 3-20-73, Cl. 260-78.50r.
Schlumbom, Peter; and Gordon, David A., to Ciba-Geigy Corporation. Copolymers of halfesters of maleic anhydride and-alkoxypropene. 3,721,655, 3-20-73, Cl. 260-78.50t.
Schlums, Karl-Dieter, to Braunschweigische Maschinenbauanstalt. Universal joint coupling. 3,731,500, 5-8-73, Cl. 64-14.000.
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Schmale, Johannes, to Brown, Boveri & Cie A.G. Switch mechanism including quick detachable electrical connector means. 3,729,612, 4-24-73, Cl. 200-166.0ct.
Schmalfeld, Paul; Mosberger, Erich; and Gauch, Georg, to Metallgesellschaft Aktiengesellschaft. Hydrocarbon cracking apparatus. 3,717,438, 2-20-73, Cl. 23-262.000.
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Schmalfeld, Paul; Hahn, Helmut; Lehmann, Joachim; and Kleisa, Kurt, to Metallgesellschaft Aktiengesellschaft Bergwerksverband GmbH. Process and apparatus for cooling hot briquettes. 3,774,315, 11-27-73, Cl. 34-13.000.
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Schmechtig, Paul R., to Aktiebolaget Tudor. Device for liquid filling of vessels. 3,772,087, 11-13-73, Cl. 136-162.000.
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Schmerling, Louis, to Universal Oil Products Company. Halogen substituted polycyclic hydrocarbons. 3,758,617, 9-11-73, Cl. 260-648.00c.
Schmerling, Louis, to Universal Oil Products Company. Alkylation of aromatic hydrocarbons. 3,760,022, 9-18-73, Cl. 260-671.00r.
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Schmersal, Larry J.; and Wojcik, Gerald E., to Owens-Illinois, Inc. Gas discharge panel containing flexible electrical connections. 3,749,959, 7-31-73, Cl. 313-188.000.
Schmersal, Larry J., to Owens-Illinois, Inc. Method of operating gas discharge panel. 3,749,970, 7-31-73, Cl. 315-169.000.
Schmersal, Larry J., to Owens-Illinois, Inc. High voltage interface address circuit and method for gas discharge panel. 3,761,768, 9-25-73, Cl. 315-169.0tv.
Schmeykal, Rudolf: *See—*
Cramer, Bernhard; Domig, Herbert; Von Keller, Theodor; and Schmeykal, Rudolf, 3,781,800.
Schmick, Russell M.; and Jocyno, Henry, to Badger Meter, Inc. Electromagnetic register apparatus. 3,725,648, 4-3-73, Cl. 235-92.00c.
Schmid, Alan H.: *See—*
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Schmid, Albrecht: *See—*
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Schmid, Alois: *See—*
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Schmid, Anthony P., to Owens-Illinois, Inc. Coaxially conducting element and process for manufacture. 3,758,705, 9-11-73, Cl. 174-113.00r.
Schmid, Eckart: *See—*
Keim, Siegfried; and Schmid, Eckart, 3,764,942.
Schmid, Eckhardt, to SWF-Spezialfabrik fur Autozubehor Gustav Rau GmbH. Hinge coupling for a windshield wiper assembly. 3,733,642, 5-22-73, Cl. 15-250.320.
Schmid, Eckhardt; and Kohler, Alfred, to SWF-Spezialfabrik fur Autozubehor Gustav Rau GmbH. Universal joint construction. 3,749,431, 7-31-73, Cl. 287-90.00r.
Schmid, Eduard; Bruttel, Beat; Nascher, Reinold; and Egli, Rene, to Lonza Ltd. Separation process for solid particles of differing shape. 3,764,007, 10-9-73, Cl. 209-211.000.
Schmid, Emmerich, to Sulzer Brothers Limited. Apparatus for adsorbing carbon dioxide from air in a storage system. 3,740,928, 6-26-73, Cl. 55-179.000.
Schmid, Erich: *See—*
Schindler, Hector; and Schmid, Erich, 3,767,796.
Schindler, Walter; Schmid, Erich; and Zuest, Armin, 3,720,677.
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Schmid, Franz: *See—*
Luther, Klaus; and Schmid, Franz, 3,719,175.
Schmid, Hans; and Zsindely, Janos, to Hoffmann-La Roche Inc. Tricyclic ketones. 3,711,553, 1-16-73, Cl. 260-586.00r.
Schmid, Hans; Feldhoff, Heinrich; Martin, Wolfgang; Bauer, Wolfgang; and Herion, Dieter, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process and apparatus for texturing filaments. 3,714,686, 2-6-73, Cl. 28-1.400.
Schmid, Hans-Rudolf: *See—*
Balzer, Hans; Fleck, Fritz; and Schmid, Hans-Rudolf, 3,757,010.
Schmid, Henry S. Split tube cord and bead puzzle. 3,744,798, 7-10-73, Cl. 723-159.000.
Schmid, Hermann: *See—*
Glockler, Otto; Schmid, Hermann; and Eichler, Dieter, 3,734,067.
Schmid, Hermann, to Bosch, Robert, GmbH. Temperature-dependent time-delay switch. 3,716,034, 2-13-73, Cl. 123-32.0ea.
Schmid, Horst: *See—*
Fleck, Fritz; and Schmid, Horst, 3,743,637.
Fleck, Fritz; and Schmid, Horst, 3,757,011.
Schmid, Jakob. Door closing mechanism with fluid brake. 3,714,677, 2-6-73, Cl. 16-62.000.
Schmid, John J., to United States of America, Army. Diglycidyl ether of 4-methylol resorcinol. 3,773,799, 11-20-73, Cl. 260-348.00r.
Schmid, Josef: *See—*
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Gordon, Harry W.; and Wasserstein, Paul B., 3,737,552.
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Schmid, Karl: *See—*
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Schmid, Leopold F. Ball joint, especially for steering devices and wheel suspensions of motor vehicles. 3,740,986, 6-26-73, Cl. 72-84.000.



Schmid, Lothar: *See—*
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Schmid, Peter, to Societe Suisse pour l'Industrie Horlogere Management Services SA. Correction device for day-and-date calendar watches. 3,779,000, 12-18-73, Cl. 58-58.000.
Schmid, Rolf: *See—*
Batzer, Hans; Lohse, Friedrich; and Schmid, Rolf, 3,767,617.
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Schmid, Rolf; and Fisch, Willy, to Ciba-Geigy AG. Curable composition of matter of carboxyl terminated polyesters and diepoxy compounds. 3,739,041, 6-12-73, Cl. 260-835.000.
Schmid, Rudi: *See—*
Fritzsche, Rudolf; Hofer, Friedrich Wilhelm; and Schmid, Rudi, 3,760,830.
Schmid, Wolfgang: *See—*
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Schmidgall, Hartzell H. Spring wire spacer, especially for spacing reenforcing mesh from the form in the manufacture of concrete structures and the like. 3,722,164, 3-27-73, Cl. 52-684.000.
Schmidgall, Philip L., to Mallory, P. R., & Co. Inc. Timer for an appliance. 3,767,937, 10-23-73, Cl. 307-133.000.
Schmidgall, Phillip L., to Mallory, P. R., & Co., Inc. Control means for an inductance means. 3,707,776, 1-2-73, Cl. 34-45.000.
Schmidgall, William M., to Technological Products, Inc. Surface heating device. 3,709,208, 1-9-73, Cl. 126-271.20a.
Schmidkonz, Christian: *See—*
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Schmidlin, Albertus E., to United States of America, Army. Apparatus for converting pressure energy to thermal energy. 3,721,521, 3-20-73, Cl. 432-227.000.
Schmidlin, Raymond J.; and Germuska, Richard W., to Addressograph-Multigraph Corporation. Suspension of optical system. 3,728,017, 4-17-73, Cl. 355-18.000.
Schmidt, Adolf: *See—*
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Kolb, Gunter; Schmidt, Adolf; Schmitz-Josten, Robert; and Wolff, Erich, 3,718,474.
Schmidt, Adolf, to Schmalbach-Lubeca-Werke Aktiengesellschaft. Projection welding means and fitting for use therein. 3,745,299, 7-10-73, Cl. 219-93.000.
Schmidt, Albert S., Sr.: *See—*
Irving, Frank M., Jr.; Schmidt, Albert S., Sr.; Andrus, Ronald G.; and Beckius, Herbert J. P., 3,730,326.
Schmidt, Albert S., Sr.; Irving, Frank M., Jr.; Andrus, Ronald G.; and Amy, Sherwood F., to Alto Corporation. Product handling equipment. 3,760,553, 9-25-73, Cl. 53-26.000.
Schmidt, Alfred: *See—*
Plockinger, Erwin; Ornig, Hermann; and Schmidt, Alfred, 3,719,790.
Schmidt, Alfred, Jr.; and Pastari, Guenter. Attachment for a utility vehicle or for a trailer of such vehicle. 3,778,865, 12-18-73, Cl. 15-340.000.
Schmidt, Alfred T. Gas discharge lamp and method for making same. 3,764,844, 10-9-73, Cl. 313-220.000.
Schmidt, Alvin J., to Lonergan, J. E., Company. Pilot valve. 3,726,301, 4-10-73, Cl. 137-102.000.
Schmidt, Andreas, to Ehrenreich, A., & Cie. Vehicle ball joint with crimped housing and method and apparatus for forming same. 3,711,136, 1-16-73, Cl. 287-87.000.
Schmidt, Arnold W., to Norwood Mills, Inc. Knit pile fabric. 3,710,597, 1-16-73, Cl. 66-191.000.
Schmidt, Arthur W.: *See—*
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Schmidt, Arthur W., to Schlumberger Technology Corporation. Methods for investigating earth formations. 3,720,912, 3-13-73, Cl. 340-15.5bh.
Schmidt, Bernard H., Jr., to Motorola, Inc. Solid-state relay. 3,720,848, 3-13-73, Cl. 307-251.000.
Schmidt, Carl W. Building panels. 3,755,982, 9-4-73, Cl. 52-295.000.
Schmidt, Charles E., to GTE Automatic Electric Laboratories Incorporated. Inductorless lowpass filter utilizing frequency dependent negative resistors. 3,750,037, 7-31-73, Cl. 328-167.000.
Schmidt, Charles J., to Abar Corporation. Fixture for heat treating furnaces. 3,739,921, 6-19-73, Cl. 211-177.000.
Schmidt, Claus: *See—*
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Schmidt, Clinton R. Water level maintenance device for swimming pools. 3,739,405, 6-19-73, Cl. 4-172.150.
Schmidt, Dale M.: *See—*
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Schmidt, Dana M., to United States Gypsum Company. Freight restraining bar. 3,721,200, 3-20-73, Cl. 105-369.00b.
Schmidt, Donald L.: *See—*
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Hatch, Melvin J.; Schmidt, Donald L.; and Smith, Hugh B., 3,749,738.
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Tomalia, Donald A.; and Schmidt, Donald L., 3,773,550.
Schmidt, Donald L., to United States of America, Air Force. Ablative nose tips and method for their manufacture. 3,724,386, 4-3-73, Cl. 102-105.000.
Schmidt, Donald L., to Scientific Anglers, Inc. Pre-tied nail knot. 3,738,692, 6-12-73, Cl. 289-1.200.
Schmidt, Donald L.; and Smith, Hugh B., to Dow Chemical Company, The. Fishing line with cyclic sulfonium zwitterion-fluoro-carbon coating. 3,748,168, 7-24-73, Cl. 117-72.000.
Schmidt, Eckart W.: *See—*
Good, Carl D.; Poole, Donald R.; and Schmidt, Eckart W., 3,744,427.
Schmidt, Eckart W., to Rocket Research Corporation. Crash restraining activating system. 3,768,832, 10-30-73, Cl. 280-150.0ab.
Schmidt, Edward W.: *See—*
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Schmidt, Emerson E.: *See—*
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Schmidt, Erich: *See—*
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Schmidt, Erich, to Maschinenfabrik Zuckermann Komm. Ges. Contour-copying apparatus. 3,720,243, 3-13-73, Cl. 142-7.000.
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Schmidt, Volker; and Schmidt, Erich A., 3,735,657.
Schmidt, Erich A.; and Schmidt, Volker E., to Textron, Inc. Snap attaching apparatus. 3,750,925, 8-7-73, Cl. 227-18.000.
Schmidt, Erik: *See—*
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Schmidt, Erwin; and Beermann, Claus, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Unsaturated carboxylic acid derivatives containing phosphorus. 3,766,252, 10-16-73, Cl. 260-486.00r.
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Schmidt, Ewald: *See—*
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Schmidt, Felix Helmut: *See—*
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Heerdt, Ruth; Hubner, Manfred; Schmidt, Felix Helmut; and Weyer, Rudi, 3,716,537.
Hubner, Manfred; Heerdt, Ruth; Schmidt, Felix Helmut; Stach, Kurt; and Aumuller, Walter, 3,711,564.
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Winter, Werner; Fauland, Erich; Stach, Kurt; Schmidt, Felix Helmut; and Aumuller, Walter, 3,752,851.
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Schmidt, Fernand; and Vanoverberghe, Cyrille, to N.V. Bekaert S.A. Fence post with fence wire tensioning mechanism. 3,717,327, 2-20-73, Cl. 256-41.000.
Schmidt, Franz: *See—*
Bronstert, Klaus; Schmidt, Franz; and Schuette, Wilhelm, 3,749,755.
Schmidt, Frederick L., to Giddings & Lewis, Inc. Power operated drawbolt. 3,753,383, 8-21-73, Cl. 90-11.00d.
Schmidt, Frederick W.: *See—*
Bartoszevicz, Joseph G.; Murphy, George H., Jr.; and Schmidt, Frederick W., 3,780,409.
Schmidt, Frederick W.; and Hamilton, William P., to Horizons Incorporated. Photographic developing device. 3,731,612, 5-8-73, Cl. 95-89.00r.



Schmidt, Frederick W., to Horizons Incorporated; a division of



Kluge, Johannes; Rabe, Peter; Schmidt, G...
Metzger, Willy; Ott, Rudi; Pappe, Gunter; and Schmidt, Helmut,

Schmidt, Frederick W., to Horizons Incorporated; a division of Horizons Research Incorporated. Red light development of free radical system within 50 nanometers. 3,732,098, 5-8-73, Cl. 96-48.00r.
Schmidt, Fritz: *See—*
Bogner, Gunther; and Schmidt, Fritz, 3,749,811.
Kohler, Hubert; and Schmidt, Fritz, 3,764,726.
Kullmann, Dieter; and Schmidt, Fritz, 3,728,463.
Schmidt, Fritz, to Siemens Aktiengesellschaft. Expansion member for superconducting cable. 3,725,565, 4-3-73, Cl. 174-13.000.
Schmidt, Fritz, to Siemens Aktiengesellschaft. Spacer means for a superconductive electrical cable. 3,758,701, 9-11-73, Cl. 174-28.000.
Schmidt, Gerald: *See—*
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Smith, Jay, III; Schmidt, Gerald W.; and Jones, Lawrence T., 3,729,859.
Smith, Jay, III; Schmidt, Gerald W.; and Jones, Lawrence Temple, 3,750,330.
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Schmidt, Gerald W.; Jones, Lawrence Temple; and Smith, Jay, III, to California R & D Center. Musical toy. 3,747,459, 7-24-73, Cl. 84-94.000.
Schmidt, Gerhard: *See—*
Bauer, Hans; Holzer, Helmut; and Schmidt, Gerhard, 3,716,395.
Schmidt, Gerhard; Ritter, Klaus; and Gott, Hans, said Schmidt and said Ritter assors. to EVG Entwicklungs- u. Verwertungs-Gesellschaft m.b.H., Firma. Device for forming a zig zag wire. 3,760,851, 9-25-73, Cl. 140-105.000.
Schmidt, Gerhard; and Jansch, Werner, to Morat, Franz, G.m.b.H., Firma. Bobbin crafting and thread feeding device for circular knitting machines. 3,762,185, 10-2-73, Cl. 66-125.00r.
Schmidt, Gerhard Alfred. Fe-Cr-Nb-Co-Mn-Mo welding material and blank wire and bare band electrode forms thereof. 3,764,303, 10-9-73, Cl. 75-128.00a.
Schmidt, Gerhard M. J.: *See—*
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Schmidt, Gordon F.: *See—*
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Schmidt, Gunter, to Productron, Inc. Chip film processor. 3,712,206, 1-23-73, Cl. 95-94.00r.
Schmidt, Gunter, to Production, Inc. Film chip stripper. 3,714,697, 2-6-73, Cl. 29-239.000.
Schmidt, Gunter, to Productron, Inc. Sheet film storage magazine. 3,715,087, 2-6-73, Cl. 242-67.30r.
Schmidt, Gunter, to Production, Inc. Dental film stripper. 3,737,363, 6-5-73, Cl. 156-584.000.
Schmidt, Gunter, to Du Pont de Nemours, E. I., and Company. X-ray film package. 3,741,386, 6-26-73, Cl. 206-62.00r.
Schmidt, Gunther; Theiss, Armin; Dederra, Carl-Helmut; and Kaiser, Leonnard, to Bolkow Gesellschaft mit beschrankter Haftung. Method of constructing a fluid cooled combustion chamber. 3,729,793, 5-1-73, Cl. 29-157.00c.
Schmidt, Gunther; Engelhorn, Robert; and Leitold, Matyas, to Boehringer Ingelheim G.m.b.H. Pharmaceutical compositions comprising an 11-aminoacetyl-5, 11-dihydro-6h-pyrido [2,3-b] [1,4] benzodiazepin-6-one. 3,743,734, 7-3-73, Cl. 424-250.000.
Schmidt, Gunther; Engelhorn, Robert; and Leitold, Matyas, to Boehringer Ingelheim G.m.b.H. Pharmaceutical compositions containing a tricyclic heterocyclic amide of a diallylamino-alkanoic acid. 3,749,785, 7-31-73, Cl. 424-256.000.
Schmidt, Hans-Joachim: *See—*
Fernholz, Hans; Schmidt, Hans-Joachim; and Wunder, Friedrich, 3,759,839.
Schmidt, Harold A.; and Howell, John C. Fuzing system for stabilized anti-tank ammunition. 3,742,857, 7-3-73, Cl. 102-702.0sa.
Schmidt, Harry. Coolant system for heat removal apparatus. 3,728,869, 4-24-73, Cl. 62-266.000.
Schmidt, Heiner, to U.S. Philips Corporation. Integrated monolithic semiconductor circuit with controlled crystal temperature. 3,714,527, 1-30-73, Cl. 317-235.00r.
Schmidt, Heinrich K., to Roller Bearing Company of America. Roller having retaining end plate and seal. 3,752,543, 8-14-73, Cl. 308-187.200.
Schmidt, Heinz: *See—*
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Krumbiegel, Peter; and Schmidt, Heinz, 3,711,421.
Schmidt, Helmut: *See—*
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Schmidt, Helmut, to Bergwerksverband G.m.b.H. Automatic control for mining pit props. 3,754,129, 8-21-73, Cl. 235-201.000.
Schmidt, Helmut J.: *See—*
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Schmidt, Henry. Tile setting template. 3,775,856, 12-4-73, Cl. 33-180.00r.
Schmidt, Henry, Jr., to Industrial Filter & Pump Mfg., Co. Method and apparatus for controlling filter cake thickness and for compressing a filter cake. 3,708,072, 1-2-73, Cl. 210-332.000.
Schmidt, Henry, Jr., to Industrial Filter & Pump Mfg., Co. Fluid feed conduit for processing apparatus. 3,722,539, 3-27-73, Cl. 137-590.000.
Schmidt, Henry, Jr.; and Zievers, James F., to Industrial Filter & Pump Mfg. Co. Filter apparatus and method of filtration. 3,744,633, 7-10-73, Cl. 210-82.000.
Schmidt, Henry, Jr., to Industrial Filter & Pump Mfg. Co. Air vented filter leaf. 3,744,641, 7-10-73, Cl. 210-486.000.
Schmidt, Herbert, to ITT Industries, Inc. Brake system for the trailer of a tractor-trailer combination. 3,774,975, 11-27-73, Cl. 303-7.000.
Schmidt, Herman W., Jr.: *See—*
Reed, Jerry A.; Van Delden, Ronald; Maruko, Shuji U.; Garner, George E.; Ryan, Stanley; Waring, Winfred F.; Klein, Jacob; Schmidt, Herman W., Jr.; and Friedrich, Simon, 3,750,529.
Schmidt, Horst, to Leitz, Ernst, G.m.b.H. Telescopic sight for daylight and night observation. 3,712,702, 1-23-73, Cl. 350-10.000.
Schmidt, Jacob E., to McGraw-Edison Company. Battery case construction. 3,769,095, 10-30-73, Cl. 136-166.000.
Schmidt, James H.: *See—*
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Armstrong, Phillip E.; Kaiser, Webster L., Jr.; Nichols, Newlin S.; Schmidt, John E.; and Stephenson, Orlando W., III, 3,752,756.
Stephenson, Orlando W., III; and Schmidt, John E., 3,752,757.
Schmidt, John E., to Square D Company. Tap-off section for a feeder bus duct run. 3,742,121, 6-26-73, Cl. 174-72.00b.
Schmidt, John E.; and Metcalfe, Robert P., to BASF Wyandotte Corporation. Distribution of electric current in an electrolytic cell anode. 3,748,250, 7-24-73, Cl. 204-266.000.
Schmidt, John G., to Monsanto Company. Fabrication of semiconductor devices. 3,728,784, 4-24-73, Cl. 29-578.000.
Schmidt, John G., to Monsanto Company. Fabrication of semiconductor devices. 3,728,785, 4-24-73, Cl. 29-588.000.
Schmidt, John, Jr., to Littelfuse, Inc. In-line fuse holder assembly. 3,778,741, 12-11-73, Cl. 337-201.000.
Schmidt, Josef, to Bell & Howell Company. Film retention means for film cartridges. 3,737,086, 6-5-73, Cl. 226-11.000.
Schmidt, Joseph; and Heppes, Aladar, to Magna Battery Reflector Corporation. Illuminating device for display frame. 3,723,720, 3-27-73, Cl. 240-2.00r.
Schmidt, Joseph J., to Builders Brass Works Corporation. Key actuated bolt lock. 3,744,283, 7-10-73, Cl. 70-90.000.
Schmidt, Jude P.: *See—*
Caraba, Jerome R.; and Schmidt, Jude P., 3,708,617.
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Schmidt, Karl, GmbH: *See—*
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Diez, Adolf; and Heim, Josef, 3,757,850.
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Schmidt, Karl-Julius; and Hammann, Ingeborg, to Bayer Aktiengesellschaft. Phosphorus-containing esters of 2-hydroxyquinoxalines. 3,763,160, 10-20-73, Cl. 260-250.00r.
Schmidt, Karl-Julius; Hammann, Ingeborg; and Unterstenhofer, Gunter, to Bayer Aktiengesellschaft. Cinnolinyl(thiono)phosphor-ic(phosphonic) acid esters and ester amides. 3,773,766, 11-20-73, Cl. 260-250.00a.
Schmidt, Karl-Walter: *See—*
Hartmann, Hans Otto; and Schmidt, Karl-Walter, 3,722,493.
Schmidt, Kenneth C., Granted to the United States National Aeronautics and Space Administration under the provision of 42 USC. 2457. Radiation and particle detector and amplifier. 3,758,781, 9-11-73, Cl. 250-207.000.
Schmidt, Kenneth J., to General Trailer Company, Inc. Vehicle with self-contained load transfer system. 3,743,120, 7-3-73, Cl. 214-38.0ba.
Schmidt, Lawrence D.: *See—*
Auvil, Harvey S.; and Schmidt, Lawrence D., 3,761,360.
Schmidt, Leo. Camper with expandable top. 3,744,841, 7-10-73, Cl. 296-27.000.
Schmidt, Ludwig. Screen changer. 3,743,101, 7-3-73, Cl. 210-447.000.
Schmidt, Manfred; and Stieler, Fred, to Metallgesellschaft Aktiengesellschaft. Process of making a Waelz oxide containing sinter for use in zinc smelting furnaces. 3,748,117, 7-24-73, Cl. 75-5.000.
Schmidt, Otto: *See—*



Kluge, Johannes; Rabe, Peter; Schmidt, Otto; and Schleyer, Meinlof, 3,746,812.
Schmidt, Otto, to Siemens Aktiengesellschaft. Crucible-free zone melting device having an angled heating coil. 3,716,341, 2-13-73, Cl. 23-273.0sp.
Schmidt, Otto W.; and Schmidt, Richard O., to Carswell, Firman L., Manufacturing Company, The. Floating dry dock. 3,734,046, 5-22-73, Cl. 114-.500.
Schmidt, Paul Felix: *See—*
Erdman, William Charles; and Schmidt, Paul Felix, 3,738,881.
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Schneider, Adolf, to Olympia Werke AG. Simplified spring installation. 3,710,642, 1-16-73, Cl. 74-470.000.
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Moser, James R.; and Schneider, Alan A., 3,725,132.
Schneider, Alfred: *See*—
Gray, John H.; Schneider, Alfred; Cormak, Anthony F.; and Ayers, Arnold L., 3,770,612.
Schneider, Arthur, to Rollei-Werke Franke & Heidecke. Electronic flash device. 3,725,734, 4-3-73, Cl. 315-241.00p.
Schneider, August: *See*—
Stonner, Alfred; Schneider, August; and Konig, Wolfgang, 3,771,472.
Schneider, Clayton J., Jr., to United States of America, Army, mesne. Expendable launcher munition. 3,718,070, 2-27-73, Cl. 89-1.800.
Schneider, Clayton J., Jr., to United States of America, Army, mesne. Tilt responsive inertia switch with printed circuit and movable ball contact. 3,733,447, 5-15-73, Cl. 200-61.520.
Schneider, Donald Louis: *See*—
Hagerman, Larry Melvin; and Schneider, Donald Louis, 3,769,399.
Schneider, Eckart: *See*—
Leitz, Ludwig; Heitmann, Knut; and Schneider, Eckart, 3,781,110.
Schneider, Edmund: *See*—
Holly, James A.; and Schneider, Edmund, 3,747,160.
Schneider, Emery J.; and Burman, Bruce G., to Teledyne, Inc. Solid state vacuum tube replacement. 3,742,261, 6-26-73, Cl. 307-304.000.
Schneider, Erich, to Organisation Ralfs KG. Conveyor address system. 3,741,369, 6-26-73, Cl. 198-38.000.
Schneider, Erich. Conveyor system. 3,768,625, 10-30-73, Cl. 198-20.000.
Schneider, Felix; Oerter, Manfred; and Walser, Rudolf, to Rheinstahl Aktiengesellschaft. Driving transmission for opening and closing sliding roof parts. 3,741,027, 6-26-73, Cl. 74-337.000.
Schneider, Felix, to Rheinstahl Aktiengesellschaft. Railway car suspension. 3,777,672, 12-11-73, Cl. 105-453.000.
Schneider, Ferdinand; Reinefeld, Erich; and Dietzel, Walter, to Braunschweigische Maschinenbauanstalt. Method of defoaming of sugar liquor in counter-current chip-mixers. 3,746,576, 7-17-73, Cl. 127-45.000.
Schneider, Frank. Baking battery. 3,752,640, 8-14-73, Cl. 432-56.000.
Schneider, Frank P.; and Munz, Roger L. Fire arms cleaning tool. 3,765,045, 10-16-73, Cl. 15-104.180.
Schneider, Fritz, to Impex-Essen GmbH. Driving device for driving bolts or other drivepins into fixed structural or building elements or the like. 3,718,271, 2-27-73, Cl. 227-10.000.
Schneider, Fritz, to Impex-Essen GmbH. Cartridge-actuated fastener-driving tools. 3,743,159, 7-3-73, Cl. 227-10.000.
Schneider, George: *See*—
Hamilton, Andrew Joseph; and Schneider, George, 3,741,747.
Schneider, George W., to Singer Company, The. Adjustable diameter roller bearing. 3,721,483, 3-20-73, Cl. 308-196.000.
Schneider, Gerard: *See*—
Berthoux, Jean; Schneider, Gerard; and Surville, Renaud de, 3,708,523.
Gaige, Rene; and Schneider, Gerard, 3,728,393.
Schneider, Gerd; and Mammann, Joachim-Friedrich, to Siemens Aktiengesellschaft. Device for forming workpieces by means of underwater spark discharges. 3,750,441, 8-7-73, Cl. 72-56.000.
Schneider, Gerhart: *See*—
Mohr, Gunther; Erdmann, Dietrich; Niethammer, Konrad; Lust, Siegmund; and Schneider, Gerhart, 3,746,740.
Schneider, Gerold: *See*—
Papst, Georg; Wrobel, Gunter; and Schneider, Gerold, 3,777,191.
Schneider, Haim: *See*—
Sidis, Abraham; and Schneider, Haim, 3,766,932.
Schneider, Hans, to Siemens Aktiengesellschaft. Contactless switching device. 3,737,829, 6-5-73, Cl. 338-32.00r.
Schneider, Hans; Hussner, Richard Gustav; and Fischer, Raimund Erhard, to Deutsche Texaco Aktiengesellschaft. Method and apparatus for preventing coke obstructions in pyrolysis plants. 3,771,638, 11-13-73, Cl. 196-98.000.
Schneider, Hans-Dieter, to Fernseh G.m.b.H. Television camera system. 3,729,580, 4-24-73, Cl. 178-5.40r.
Schneider, Hans-Dieter, to Fernseh G.m.b.H. Constant voltage in varied length cables. 3,729,673, 4-24-73, Cl. 323-43.50s.
Schneider, Hans-Dieter, to Fernseh G.m.b.H. Colour television camera utilizing two pickup tubes. 3,735,030, 5-22-73, Cl. 178-5.4st.



Schneider, Hans-Dieter, to Bosch, Robert, Fernsehanlagen G.m.b.H.



Schneider, Kenneth C.: *See*—

Schneider, Hans-Dieter, to Bosch, Robert, Fernsehanlagen G.m.b.H. Gamma control in the luninance channel of a color television transmitter. 3,752,905, 8-14-73, Cl. 178-5.40r.

Schneider, Hans-Dieter, to Bosch, Robert, Fernsehanlagen G.m.b.H. Arrangement for synchronizing television cameras. 3,761,627, 9-25-73, Cl. 178-69.50n.

Schneider, Hans-Dieter, to Fernseh G.m.b.H. Method and apparatus for detecting achromatic portions in a color television image. 3,772,462, 11-13-73, Cl. 178-5.4bt.

Schneider, Harold N.; and Wittle, J. Kenneth, to General Electric Company. Termination for electric cable and fluid filled cable conduit. 3,739,073, 6-12-73, Cl. 174-23.00r.

Schneider, Heinz Dietrich: *See—*
Baumann, Hans G.; and Schneider, Heinz Dietrich, 3,731,536.

Schneider, Helmut, to Werner & Mertz GmbH. Device for automatically discharging an effective substance into a normally closed room. 3,737,104, 6-5-73, Cl. 239-274.000.

Schneider, Henry J.: *See—*
Lackey, Ray R.; Henninger, Harold B.; and Schneider, Henry J., 3,771,781.

Schneider, Herbert Anton, to Bell Telephone Laboratories, Incorporated. Minimization and limiting of power dissipation in multivibrators and the like. 3,777,185, 12-4-73, Cl. 307-291.000.

Schneider, Herman H., to Hamm, Theodore, Brewing Co. Drum-supporting structure. 3,747,780, 7-24-73, Cl. 214-10.50r.

Schneider, Horst: *See—*
Schlagheck, Norbert; Schultes, Herbert; Schneider, Horst; and Huber, Hans-Peter, 3,766,525.

Schneider, Irwin. Information storage using color centers in alkali fluorides. 3,720,926, 3-13-73, Cl. 340-173.0cc.

Schneider, Irwin. Non-destructive readout of a color center memory by using infrared illumination. 3,727,194, 4-10-73, Cl. 340-173.0cc.

Schneider, Irwin. Three dimensional optical information storage system. 3,771,150, 11-6-73, Cl. 340-173.0cc.

Schneider, J. V.: *See—*
Monpetit, Louis A.; Gueret, Herve; Schneider, J. V.; and Ufnalewski, J. W., 3,735,927.

Schneider, James G.; Dick, Clarence R.; and Ham, George E., to Dow Chemical Company, The. Controlled molecular weight aziridine polymers. 3,761,522, 9-25-73, Cl. 260-583.00p.

Schneider, Jean-Claude, to Fabrique d'Horlogerie Chs. Tissot et Fils S.A. Calendar watch day-date driving and correcting means. 3,735,582, 5-29-73, Cl. 58-58.000.

Schneider, Jean-Claude, to Fabrique d'Horlogerie Chs. Tissot et Fils S.A. Balance for horology movements. 3,742,700, 7-3-73, Cl. 58-107.000.

Schneider, Jean-Claude, to Fabrique d'Horlogerie Chs. Tissot et Fils, S.A. Pivoting device for a horology movement including a synthetic bearing. 3,747,325, 7-24-73, Cl. 58-140.000.

Schneider, Johannes; and Pungs, Wolfgang. Molten production of polyamides from terephthalic acid dialkyl ester and trimethyl hexamethylene diamine under reduced pressure. 3,728,312, 4-17-73, Cl. 260-78.00r.

Schneider, Johannes; and Pungs, Wolfgang, to Dynamit Nobel Aktiengesellschaft. Polyamide articles of reduced vapor permeability. 3,746,565, 7-17-73, Cl. 117-94.000.

Schneider, John A.; and Mills, Jack F., to Dow Chemical Company, The. Bromination of organic compounds with a bromine chloride-dioxane complex. 3,755,444, 8-28-73, Cl. 260-559.00s.

Schneider, Jos., & Co., Optische Werke: *See—*
Baab, Albert, 3,727,531.
Hess, Karl-Gunter, 3,760,253.
Holderbaum, Karl-Heinz, 3,777,640.
Kirchhoff, Kurt, 3,743,414.
Kirstein, Lothar, 3,722,547.
Thomas, Otto, 3,781,617.
Versari, Werner Rio; and Kirstein, Lothar, 3,747,570.

Schneider, Josef. Advertising device with flickering light effect. 3,747,243, 7-24-73, Cl. 40-30.000.

Schneider, Joseph D.: *See—*
Rist, Donald H.; and Schneider, Joseph D., 3,771,821.

Schneider, Julius L., to Continental Can Company, Inc. Rubber sealant composition. 3,767,607, 10-23-73, Cl. 260-27.0bb.

Schneider, Jurg V.: *See—*
Monpetit, Louis A.; Schneider, Jurg V.; Gueret, Herve; Adveniер, Pierre; Sallot, Georges R.; Jourde, Jean-Pierre Paul; and Ufnaleski, Jacek W., 3,728,989.

Schneider, Jurgen: *See—*
Gohrbandt, Wilhelm; Schulze, Jurgen; Hornle, Reinhold; and Schneider, Jurgen, 3,756,772.

Schneider, Jury Gdalievich. Method of making grooves on surface of articles and device for its realization. 3,735,615, 5-29-73, Cl. 72-75.000.

Schneider, Karl A.: *See—*
Gossick, Benjamin R.; and Schneider, Karl A., 3,760,679.

Schneider, Karl-Heinz; Herker, Dietrich; Madgefrau, Herbert; Plockl, Alfons; and Horrwarth, Ernst, to Bosch, Robert, G.m.b.H. Distributor plate structure and fixedly mounting attachment mean to distributor housing. 3,725,620, 4-3-73, Cl. 200-19.00r.

Schneider, Kenneth C.: *See—*
Tuckey, Charles H.; and Schneider, Kenneth C., 3,743,253.

Schneider, Kenneth Roger, to Deere & Company. Interlock for transmission and parking brake controls. 3,780,839, 12-25-73, Cl. 192-4.00a.

Schneider, Klaus: *See—*
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Mindner, Reinhard; Adler, Karl-Heinz; Flaschar, Heinz; and Schneider, Klaus, 3,774,641.

Schneider, Klaus; and Flaschar, Heinz, to Bosch, Robert, G.m.b.H. Hydraulic valve control apparatus. 3,744,374, 7-10-73, Cl. 91-363.00r.

Schneider, Kurt: *See—*
Hechlhammer, Wilhelm; Schneider, Kurt; and Fahnler, Friedrich, 3,780,157.
Herman, Karl-Heinz; and Schneider, Kurt, 3,714,108.

Schneider, Leo, to Schneider, Wm., Inc. Jewel-setting apparatus. 3,766,809, 10-23-73, Cl. 81-7.000.

Schneider, Lewis: *See—*
Adler, Cyrus; and Schneider, Lewis, 3,756,293.

Schneider, Lynn E.: *See—*
Ball, Lloyd D.; Friend, Clifford K.; and Schneider, Lynn E., 3,718,988.

Schneider, Marc J. T.: *See—*
Julier, Rene P. G.; and Schneider, Marc J. T., 3,727,221.

Schneider, Mark: *See—*
Duffer, Edward F.; Funk, Ernest J.; Jankowski, Alfred S.; Lane, Jack C.; Lehner, William L.; Oliver, Floyd F.; and Schneider, Mark, 3,765,590.

Schneider, Marshall C., to Burns, Charles D., Co. Display device for photographs and the like. 3,774,332, 11-27-73, Cl. 40-152.100.

Schneider, Marvin, to Rapid-American Corporation, mesne. Method of making an utility bag. 3,764,433, 10-9-73, Cl. 156-245.000.

Schneider, Maxwell H. Metatarsal pad. 3,742,627, 7-3-73, Cl. 36-28.000.

Schneider Metal Manufacturing Co.: *See—*
Esser, Harold Herman; and Olson, Ralph Brent, 3,722,227.

Schneider, Michael, to Girdler-Sudchemie Katalysator G.m.b.H. Recovery of noble metals. 3,725,047, 4-3-73, Cl. 75-108.000.

Schneider, Othmar: *See—*
Knapp, Walter; and Schneider, Othmar, 3,724,946.

Schneider, Otto. Precision spiral steel staircase. 3,740,906, 6-26-73, Cl. 52-187.000.

Schneider, Richard C. Nozzle assembly for a hydrotherapeutic unit. 3,736,922, 6-5-73, Cl. 128-66.000.

Schneider, Richard S.: *See—*
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Ullman, Edwin F.; and Schneider, Richard S., 3,716,335.

Schneider, Richard S.; and Ullman, Edwin F., to Synvar Associates. Enzyme assay by metering changes of stable free radicals. 3,749,644, 7-31-73, Cl. 195-103.50r.

Schneider, Robert H.; and Schutt, John B. Silicate coatings compositions. 3,721,574, 3-20-73, Cl. 106-74.000.

Schneider, Robert J.; and Levy, William I., to Hallicrafters Co., The. Digital data transmission system utilizing phase shift keying. 3,739,277, 6-12-73, Cl. 325-30.000.

Schneider, Robert J. Resilient plastic staple. 3,757,629, 9-11-73, Cl. 85-49.000.

Schneider, Roy W.: *See—*
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Schneider, Rudolf: *See—*
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Schneider, Rupert, to Sandoz Ltd. 2-Imino-5-alkylamino-1,3-dithianes. 3,770,769, 11-6-73, Cl. 260-327.00m.

Schneider, Theodor; Bock, Willy; and Schubert, Karl-Friedrich. Windshield wiper assembly for vehicles, particularly for motor vehicles. 3,733,913, 5-22-73, Cl. 74-78.000.

Schneider, Thomas E.: *See—*
Elders, Gerald W.; Schneider, Thomas E.; and Alongi, John R., 3,721,094.
Elders, Gerald W.; Schneider, Thomas E.; and Alongi, John R., 3,734,380.

Schneider, Thomas R.: *See—*
Elders, Gerald W.; Schneider, Thomas E.; and Alongi, John R., 3,734,380.

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Schneider, Walter: *See—*
Hohwiller, Frieder; Koehling, Klaus; Schneider, Walter; and Koenig, Dietrich, 3,732,791.

Schneider, Walter. Device for closing filled sacks and bags. 3,760,463, 9-25-73, Cl. 24-30.500.

Schneider, Walter M.: *See—*
Ettlinger, Ralph, Jr.; and Schneider, Walter M., 3,738,465.

Schneider, Walter M., to Conveyor Systems, Inc. Sectional conveyor apparatus. 3,760,932, 9-25-73, Cl. 198-127.00r.

Schneider, Werner: *See—*
Frohne, Johann-Christian; Hohmann, Ernst; and Schneider, Werner, 3,758,776.

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Schneider, William C., Jr.: *See—*
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Schneider, William P.: *See—*
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Schneider, William P., to Upjohn Company, The. Process of making silyl esters of proslaglaudin $E_2$. 3,758,542, 9-11-73, Cl. 260-448.80r.

Schneider, Wm., Inc.: *See—*
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Schneider, Wolfgang, to Goodrich, B. F., Company, The. Catalytic isomerization process for the production of 5-ethylidenebicyclo(2.2.1) hept-2-enes. 3,776,966, 12-4-73, Cl. 260-666.0py.

Schneider-Simpson, Inc.: *See—*
Birtchet, Ralph D.; and Carlson, James O., 3,712,189.

Schneiderman, Abraham; and Wechsler, George G., to Viewlex, Inc. Audio visual means. 3,721,493, 3-20-73, Cl. 353-19.000.

Schneiders, Albert M.; Schiller, Peter; Hollebeck, Gustave L.; and Diletti, Friedhelm, to European Atomic Energy Community (Euratom). Tight viscosimeter working in aggressive media. 3,714,814, 2-6-73, Cl. 73-54.000.

Schneidinger, Carl. Light switch timing device. 3,740,680, 6-19-73, Cl. 335-59.000.

Schneihofer, Adolf: *See—*
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Schneikart, Paul E.; Murdock, Roy C.; and Day, Job H., to Texas Instruments, Incorporated. Diaphragm type pushbutton setting switch with fixed contact semiconductor substrate support. 3,767,875, 10-23-73, Cl. 200-52.00r.

Schneirow, Harry A.: *See—*
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Schneiter, Ali, to Ebauches S.A. Electric time-piece with chronograph indicator. 3,726,081, 4-10-73, Cl. 58-39.500.

Schnell, Albert C.: *See—*
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Schnell, Georg: *See—*
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Schnell, Georg; Stritzinger, Heinz; Vaeth, Guenter; Grau, Werner; Hammon, Fritz; and Hopp, Manfred, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Magnetic recording media. 3,734,772, 5-22-73, Cl. 117-235.000.

Schnell, Gerhard, to Bosch, Robert, G.m.b.H. Wheeled vehicle. 3,737,062, 6-5-73, Cl. 214-670.000.

Schnell, Gunter: *See—*
Grada, Walter; Purnhagen, Heinz; Schnell, Gunter; and Stedtnitz, Wolfgang, 3,719,920.
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Schnell, Hilmar: *See—*
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Schnell, Karl. Sausage machine. 3,739,426, 6-19-73, Cl. 17-33.000.

Schnell, Ludwig Lorenz, to Schuttgutfordertechnik AG. Dredging machinery with swinging double ended scoop. 3,748,760, 7-31-73, Cl. 37-58.000.

Schneller, George H.; Levi, Ralph S.; Levin, Howard J.; and Goodsir, Stephen W., to American Home Products Corporation. Vented medicament dispensing package with spacer. 3,734,098, 5-22-73, Cl. 128-272.000.

Schneller, George H.; Levin, Howard J.; and Sklar, Stanley, to American Home Products Corporation. Stable solutions of sodium diphenylhydantoin. 3,749,779, 7-31-73, Cl. 424-273.000.

Schneller, Joseph W.: *See—*
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Schneller, Joseph W.; and Smith, Richard E., to National Gypsum Company. Elastomeric monolithic drywall corner. 3,754,363, 8-28-73, Cl. 52-287.000.

Schneller, Joseph W., to National Gypsum Company. Corner caulking tool. 3,761,992, 10-2-73, Cl. 15-210.00r.

Schneller, Joseph W., to National Gypsum Company. Laminated gypsum partition. 3,775,920, 12-4-73, Cl. 52-241.000.

Schneller, Rudy F. Cocktail pick. 3,772,809, 11-20-73, Cl. 40-2.00r.

Schnellman, Oscar; and Stier, Henry Willy, to Carmet Company. Automatic profile grinding machine with an indexing mechanism. 3,707,809, 1-2-73, Cl. 51-215.00h.

Schnellman, Oscar; and Stier, Henry Willy, to Carmet Company. Automatic profile grinding machine with an indexing mechanism. 3,715,841, 2-13-73, Cl. 51-165.880.

Schnellman, Oscar; and Stier, Henry Willy, to Carmet Company. Method for performing successive grinding operations on a workpiece. 3,754,357, 8-28-73, Cl. 51-323.000.

Schnellmann, Oskar: *See—*
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Schnellmann, Oskar, to Gretag Aktiengesellschaft. Apparatus for opening film cassettes. 3,722,768, 3-27-73, Cl. 225-105.000.

Schnellmann, Oskar, to Gretag Aktiengesellschaft. Film splicing apparatus. 3,748,208, 7-24-73, Cl. 156-443.000.

Schnellpressenfabrik Frankenthal Albert & Cie Aktiengesellschaft: *See—*
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Schner, Donald R., to Goodyear Aerospace Corporation. Guided missiles. 3,743,213, 7-3-73, Cl. 244-3.100.

Schnettler, Richard A.: *See—*
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Suh, John T.; and Schnettler, Richard A., 3,780,024.

Schnettler, Richard A.; and Suh, John T. 2-Substituted -3,4-dihydroquinazolines. 3,780,040, 12-18-73, Cl. 260-256.500.

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Schneyer, Herbert D. Composition and method for treatment of ossilets and pathological calcification in animals. 3,709,989, 1-9-73, Cl. 424-232.000.

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Schnidberger, Hans-Peter, to Gebr. Hennig GmbH. Self-supporting articulated chain. 3,759,035, 9-18-73, Cl. 59-78.100.

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Schnier, Edward A., to A-T-O Inc. Grip-finger for applying labels. 3,743,565, 7-3-73, Cl. 156-476.000.

Schniers, Robert C., to General Motors Corporation. One-tank safety fuel reserve. 3,731,805, 5-8-73, Cl. 210-86.000.

Schnipke, Dennis E., to Bendix Corporation, The. Relay valve for electro-pneumatic control system. 3,747,992, 7-24-73, Cl. 303-40.000.

Schnitzius, George W.: *See—*
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Schnitzler, Albrecht, Jr., to Metabowerke KG Closs, Rauch & Schnizler. Electromotor. 3,723,781, 3-27-73, Cl. 310-51.000.

Schnitzler, Paul: *See—*
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Schnoring, Hildegard; Pampus, Gottfried; Schon, Leverkusen Nikolaus; and Witte, Josef, to Farbenfabriken Bayer Aktiengesellschaft. Process for the production of microgranulates. 3,737,337, 6-5-73, Cl. 117-100.000.

Schnoring, Hildegard; and Schon, Nikolaus, to Bayer Aktiengesellschaft. Process for the production of microcapsules. 3,743,604, 7-3-73, Cl. 252-316.000.

Schnoring, Hildegard; and Zucker, Friedrich J., to Bayer Aktiengesellschaft and Deutsche Supraton, Bruchmann & Zucker KG. Apparatus for producing emulsions or suspensions. 3,744,763, 7-10-73, Cl. 259-7.000.

Schnormeier, Theodore H., to Wenco, Inc. Tilt-take-out window assembly. 3,724,131, 4-3-73, Cl. 49-181.000.

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Kohler, H. Dieter; Schnuchel, Gunther; and Scherb, Helmut, 3,723,551.

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Kohler, H. Dieter; Schnuchel, Gunther; and Scherb, Helmut, 3,723,551.

Schnur, Earl J.; and Kamulski, David A., to Westinghouse Electric Corporation, mesne. Electronic leakage resistance detector for an AC control circuit. 3,769,577, 10-30-73, Cl. 324-51.000.

Schnur, Joel M.: *See—*
Goldberg, Lawrence S.; and Schnur, Joel M., 3,771,065.

Schnurmacher, Gerald L. Hand held food holder and dispenser. 3,727,802, 4-17-73, Cl. 222-205.000.

Schnurmann, Rudolf; and Brandts, Klaus, to Scheidt & Bachmann GmbH. Monitoring system. 3,753,226, 8-14-73, Cl. 340-146.10c.

Schnurrbusch, Karl: *See—*
Golitz, Hans Dietrich; Noll, Walter; Schnurrbusch, Karl; Seyfried, Klaus; and Simmler, Walter, 3,737,336.

Schnurrer, Hans, to Meyer & Cie Maschinenfabrik. Control apparatus for resetting pattern drums. 3,766,753, 10-23-73, Cl. 66-50.00b.

Schnyder, Aux P. Mechanized storage silo. 3,713,552, 1-30-73, Cl. 214-17.0cb.

Schnyder, Conrad W., to CWS International AG. Paper handtowel dispenser. 3,734,586, 5-22-73, Cl. 312-39.000.

Schobbe, Hermann: *See—*
Bauer, Klaus; Naumann, Fritz; and Schobbe, Hermann, 3,710,688.

Schober, Donald L.; McGrath, James E.; and Matzner, Markus, to Union Carbide Corporation. Thermoplastic polyhydroxy ethers modified with polyamides. 3,714,289, 1-30-73, Cl. 260-830.00p.

Schober, Engelbert. Method of mass-producing skis and an apparatus therefor. 3,722,563, 3-27-73, Cl. 144-317.000.

Schober, Horst A.: *See—*
Hoppmann, Kurt H.; and Schober, Horst A., 3,722,674.

Schober, Johann. Oscillatory screening apparatus with vertical screen channel. 3,770,125, 11-6-73, Cl. 209-252.000.

Schobinger, Ulrich; Christoffel, Cla; and Berner, Kurt, to Blattmann & Co. Textile sizing composition containing highly water soluble dextrin phosphate. 3,719,617, 3-6-73, Cl. 260-17.4st.

Schoch, Robert, to Weinmann Aktiengesellschaft. Shoe closure device especially for ski shoes. 3,711,900, 1-23-73, Cl. 24-68.0sk.

Schoch, Robert, to Weinmann Aktiengesellschaft. Closure device for shoes, especially for ski shoes. 3,738,027, 6-12-73, Cl. 36-50.000.

Schock, Donald N.: *See—*
Lang, Charles R.; and Schock, Donald N., 3,730,691.

Schock, Julius, to Werkzeugmaschinenfabrik Oerlikon-Buhrle AG. Missile having a casing and containing secondary projectiles. 3,712,229, 1-23-73, Cl. 102-69.000.

Schoedel, Ulrich: *See—*
Koch, Ernst; and Schoedel, Ulrich, 3,732,334.

Schoeffler, William N. Self-cleaning storm choke. 3,714,957, 2-6-73, Cl. 137-244.000.

Schoeller & Co.: *See—*
Seibel, Georg, 3,725,909.

Schoeller Technical Papers, Inc.: *See—*
Beckner, Carol R.; and Kasper, Klaus B., 3,758,376.

Schoelles, Harold J., to Ark-Les Switch Corporation. Fire connector. 3,772,638, 11-13-73, Cl. 339-198.00r.

Schoellkopf, Ulrich; and Gerhart, Fritz, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Metallized isocyanides. 3,712,911, 1-23-73, Cl. 260-465.000.

Schoen, Alan H., to United States of America, National Aeronautics and Space Administration. Expandable space-frames. 3,757,476, 9-11-73, Cl. 52-646.000.

Schoen, Donald W.: *See—*
Donnelly, Thomas G.; Haueter, James A.; Krisko, William J.; Schoen, Donald W.; and Lind, Chester S., 3,766,844.

Schoen, Karl: *See—*
Finizio, Michael; and Schoen, Karl, 3,736,323.

Schoen, Karl; and Pachter, Irwin J., to Endo Laboratories, Inc. Oxoisoindoles. 3,715,354, 2-6-73, Cl. 260-247.50b.

Schoen, Kurt, to Contraves AG. Particle counting apparatus. 3,769,582, 10-30-73, Cl. 324-71.0cp.

Schoen, Kurt L.: *See—*
Rosenbaum, Edward W.; and Schoen, Kurt L., 3,715,217.

Schoen, Lowhardt A. A., to Stamicarbon N.V. Preparation of polylactones having ester end groups. 3,767,627, 10-23-73, Cl. 260-78.30r.

Schoen, Walter F., to Atlantic Richfield Company. Gasoline composition. 3,751,235, 8-7-73, Cl. 44-58.000.

Schoenaich, Guenther: *See—*
Platz, Rolf; Fuchs, Werner; and Schoenaich, Guenther, 3,773,906.

Schoenbeck, Robert L.: *See—*
Thompson, John R.; and Schoenbeck, Robert L., 3,733,430.

Schoenberg, Jules E.: *See—*
Ray-Chaudhuri, Dilip K.; Schoenberg, Jules E.; and Sickafoose, Keith E., 3,728,141.

Schoenberg, Leonard Norman, to Bell Telephone Laboratories, Incorporated. Electroless copper plating. 3,708,329, 1-2-73, Cl. 117-47.00r.

Schoenberger, Eva: *See—*
Haber, Raphael G.; and Schoenberger, Eva, 3,728,452.

Schoenbrod, Michael P., to Aircheck, Inc. Sliding panel roller assembly. 3,722,028, 3-27-73, Cl. 16-91.000.

Schoendube, Charles W., to General Electric Company. Electrical apparatus with thyristor circuit. 3,732,486, 5-8-73, Cl. 323-43.50s.

Schoenefeld, Paul: *See—*
Herwig, Heinz; Mueller, Manfred; and Schoenefeld, Paul, 3,726,512.

Schoenemann, Rudolf: *See—*
Groschopp, Heinz; Schoenemann, Rudolf; Germscheid, Hans Gunther; and Venschott, Hubert, 3,721,614.

Schoenfelder, Norman E. Home appliance with hanger rack. 3,756,679, 9-4-73, Cl. 312-237.000.

Schoengold, Herbert, to Electronic Research Associates, Inc. Loudspeaker diaphragm having marginal air release passages and center high frequency propagator. 3,718,779, 2-27-73, Cl. 179-115.50r.

Schoenholz, Daniel; and Perl, Martin M., to Foremost-McKesson, Inc. Denture adhesive. 3,736,274, 5-29-73, Cl. 260-17.00r.

Schoening, Peter K. Method for producing non-metallic beam structures. 3,772,419, 11-13-73, Cl. 264-112.000.

Schoenman, Leonard: *See—*
Luscher, Werner P.; and Schoenman, Leonard, 3,778,183.

Schoenthaler, David, to Western Electric Company, Incorporated. Soldering apparatus having a non-uniform heat transfer distribution. 3,760,142, 9-18-73, Cl. 219-85.000.

Schoenwald, Goenter. Portable dump box. 3,712,675, 1-23-73, Cl. 298-10.000.

Schoeps, Knut Christian, to Atlas Copco Aktiebolag. Socket retaining means. 3,752,514, 8-14-73, Cl. 287-53.00r.

Schoettle, Kenneth L., to Sperry Rand Corporation. Method of manufacturing an extended-tab memory frame. 3,739,466, 6-19-73, Cl. 29-604.000.

Schofer, Rudolf: *See—*
Cobarg, Christian; Fenner, Erich; Guntersdorfer, Max; Heywang, Walter; Otto, Franz; Schofer, Rudolf; and Thomann, Helmut, 3,748,503.
Cobarg, Christian; Fenner, Erich; Guntersdorfer, Max; Heywang, Walter; Otto, Franz; Schofer, Rudolf; and Thomann, Helmut, 3,750,279.

Schoffmann, Rudolf, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Method for the production of plates. 3,710,436, 1-16-73, Cl. 29-527.600.

Schoffmann, Rudolf, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Elastically deformable curved supporting and guiding construction for cast bars. 3,710,847, 1-16-73, Cl. 164-282.000.

Schoffmann, Rudolf, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Process for the treatment of cast bars in continuous casting plants. 3,747,664, 7-24-73, Cl. 164-76.000.

Schofield, Edward F., to Dusenberg, John, Company, Inc. Cutting wheel for slitting machines. 3,777,607, 12-11-73, Cl. 83-482.000.

Schofield, John Allan; and Delano, Roger Albert, to Union Carbide Corporation. Tertiary azeotropic cleaning solution based on tetrachlorodifluoroethane. 3,729,424, 4-24-73, Cl. 252-171.000.

Schofield, Norman W.: *See—*
Dewey, David B., Jr.; and Schofield, Norman W., 3,721,058.

Schoger, H. L., & Associates, Inc.: *See—*
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Way, James A., 3,735,965.

Schoger, Henry L., to Schoger, H. L., & Associates, Inc. Gas supply system apparatus. 3,717,169, 2-20-73, Cl. 137-412.000.

Schohl, Paul. Automatic bagger of groceries sundries. 3,715,862, 2-13-73, Cl. 53-390.000.

Schokbeton Products Corporation: *See—*
McCaul, James F., III; and Compton, Lloyd A., 3,762,115.
Van Wuyckuyse, Hendrik Johan, 3,707,816.

Schoke, James A. Electrode mounts for cold cathode lamps. 3,772,559, 11-13-73, Cl. 313-269.000.

Scholander, Stig Sven Wilhelm. Building element. 3,773,603, 11-20-73, Cl. 161-36.000.

Scholben-Chemie Aktiengesellschaft: *See—*
Faltings, Volkert; Doerk, Klaus; Koch, Klaus; and Schaaf, Richard, 3,772,261.

Scholberg, Andre, to Schlumberger Technology Corporation. Apparatus for determining the resistivity of a subsurface earth formation of different lateral distances from a bore hole wall. 3,772,589, 11-13-73, Cl. 324-10.000.

Scholdstrom, Ragnar, to AGA Aktiebolag. Reflector for distance measurement. 3,748,026, 7-24-73, Cl. 350-287.000.

Schole, Murray L. Method and device for mechanical cleaning of teeth. 3,771,537, 11-13-73, Cl. 132-93.000.

Scholer, Henry Gardner: *See—*
De Milt, Kenneth E.; Collins, Stephen; and Scholer, Henry Gardner, 3,760,717.

Scholer, Mervyn Garnet, to Cafe-Bar International Pty., Ltd. Coinfreed vending machine. 3,739,946, 6-19-73, Cl. 222-129.400.

Scholes, Ian Robert: *See—*
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Scholes, Thomas: *See—*
Winterburn, Charles Barry; and Scholes, Thomas, 3,748,686.





Scholes, William George: *See—*
Connor, Denis John; Limb, John Ormond; Pease, Roger Fabian Wedgwood; and Scholes, William George, 3,716,667.

Scholl, Albert S. Cutting tool. 3,724,010, 4-3-73, Cl. 7-14.10a.

Scholl, Hans; and Fischer, Jochen, to Kochs Adler AG. Template for sewing devices. 3,774,558, 11-27-73, Cl. 112-121.120.

Scholl, Hans, to Kochs Adler AG. Method for producing patch pockets on articles of clothing. 3,776,162, 12-4-73, Cl. 112-262.000.

Scholl, Hermann; Mauch, Harald; Glockler, Otto; Rittmannsberger, Norbert; Reichardt, Wolfgang; Werner, Peter; and Drews, Ulrich, to Bosch, Robert G.m.b.H. Fuel injection system controlled by the amount of air drawn in during the suction stroke. 3,750,631, -7-73, Cl. 123-32.0ea.

Scholl, Howard O.: *See—*
Tate, John E.; and Scholl, Howard O., 3,759,393.

Scholl, Howard O., to American Air Filter Company, Inc. Prestressed filter media. 3,727,769, 4-17-73, Cl. 210-484.000.

Scholl, Howard O., to American Air Filter Company, Inc. U-shaped fluid treating filter. 3,759,018, 9-18-73, Cl. 55-487.000.

Scholl, Inc.: *See—*
Johnston, John, 3,716,503.
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Scholl, Jule A. Boring and facing apparatus. 3,744,352, 7-10-73, Cl. 82-1.200.

Scholl, Karl L.: *See—*
Henke, Erich G.; Braun, Helmut F.; Scholl, Karl L.; and Schubert, Rudolf, 3,735,669.

Scholl, Lillian L. Suspended hanger. 3,780,875, 12-25-73, Cl. 211-115.000.

Scholl, Ronald F.; and Bleha, William P., Jr., to Hughes Aircraft Company. Method for making a cadmium sulfide thin film sustained conductivity device. 3,716,406, 2-13-73, Cl. 117-217.000.

Scholle Corporation: *See—*
Scholle, William R., 3,738,871.
Scholle, William R., 3,772,084.

Scholle, Roger A. Foldable boat. 3,724,011, 4-3-73, Cl. 9-2.00f.

Scholle, William R., to Scholle Corporation. Storage battery plates of plastic and lead. 3,738,871, 6-12-73, Cl. 136-65.000.

Scholle, William R., to Scholle Corporation. Method of making negative battery plates. 3,772,084, 11-13-73, Cl. 136-27.000.

Schollenberger, Charles S.: *See—*
Stewart, Floyd D.; and Schollenberger, Charles S., 3,769,245.

Scholler, Ami: *See—*
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Scholler, Peter: *See—*
Kaltschmidt, Horst; Scholler, Peter; and Flachmann, Burkhard, 3,761,817.

Scholn, Joel Mark: *See—*
Basseches, Harold; Gerstenberg, Dieter; Lepselter, Martin Paul; Macrae, Alfred Urquhart; and Scholn, Joel Mark, 3,737,343.

Scholpp, Martin, to Bosch, Robert, G.m.b.H. Method of making metal-carbon brushes for electrical motors. 3,765,881, 10-16-73, Cl. 75-201.000.

Scholten, Johannes Hermanus Maria, to U.S. Philips Corporation. Keyboard with roll-over feature. 3,778,818, 12-11-73, Cl. 340-365.00e.

Scholten, John J.: *See—*
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Scholten, Joseph J. F.: *See—*
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Scholten-Honig Research N.V.: *See—*
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Dolfing, Thale; and Lolkema, Jan (said Lolkema assor. to), 3,736,758.
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Scholven-Chemie AG: *See—*
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Scholz, Egbert: *See—*
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Scholz, Hans-Joachim: *See—*
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Scholz, Heinrich: *See—*
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Scholz, Heinrich; Bollig, Georg; Grothe, Horst; and Otto, Gerhard, to Schloemann Aktiengesellschaft. Method and apparatus to relieve the strain on roller apron segments during continuous casting. 3,757,848, 9-11-73, Cl. 164-282.000.

Scholz Homes, Inc.: *See—*
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Scholz, John W.: *See—*
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Scholz, Manfred; and Wakonig, Freidrich, to Siemens Aktiengesellschaft. Device for suspending and supporting a reactor pressure vessel in a nuclear power plant. 3,775,250, 11-27-73, Cl. 176-87.000.

Scholz, Werner: *See—*
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Schomaker, Henry C. Soldering jig. 3,743,271, 7-3-73, Cl. 269-37.000.

Schomisch, Alois: *See—*
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Schon & Cie Gesellschaft mit beschrankter Haftung: *See—*
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Schon, Erich F., to Otto, C., Dr., & Comp. G.m.b.H. Apparatus for preventing air pollution during coke oven discharge. 3,716,457, 2-13-73, Cl. 202-263.000.

Schon, Erwin: *See—*
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Schon, Konrad: *See—*
Huszar, Josef; and Schon, Konrad, 3,709,097.

Schon, Kurt, to Contraves AG. Conductivity measuring cell. 3,779,279, 12-18-73, Cl. 137-599.000.

Schon, Leverkusen Nikolaus: *See—*
Schnoring, Hildegard; Pampus, Gottfried; Schon, Leverkusen Nikolaus; and Witte, Josef, 3,737,337.

Schon, Nikolaus: *See—*
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Naumann, Gunter; Schon, Nikolaus; Schnoring, Hildegard; and Pampus, Gottfried, 3,725,313.
Pampus, Gottfried; Schon, Nikolaus; Witte, Josef; and Marwede, Gunter, 3,781,257.
Schnoring, Hildegard; and Schon, Nikolaus, 3,743,604.

Schon, Nikolaus; Schnoring, Hildegard; Witte, Josef; and Pampus, Gottfried, to Bayer Aktiengesellschaft. Process for the production of microcapsules with the aid of synthetic coacervates and microcapsules produced thereby. 3,712,867, 1-23-73, Cl. 252-316.00.

Schon, Nikolaus; Pampus, Gottfried; Witte, Josef; and Theisen, Dieter, to Bayer Aktiengesellschaft. Catalyst for the preparation of trans-polypentenamer. 3,753,928, 8-21-73, Cl. 252-429.00b.

Schon, Otmar, to Greer Hydraulics, Inc. Accumulator control system. 3,718,158, 2-27-73, Cl. 137-593.000.

Schon, Rudolf: *See—*
Bartling, Gerhard; and Schon, Rudolf, 3,778,990.

Schon, Rudolf, to SKF Kugellagerfabriken GmbH. Apparatus for withdrawing thread. 3,778,989, 12-18-73, Cl. 57-58.890.

Schonart, Edgar: *See—*
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Schonbachler, Max: *See—*
Spoelder, Johannes; and Schonbachler, Max, 3,753,917.

Schonberg, Elliott A.; and Pap, Geza, to Allied Chemical Corporation. Pinhole resistant nylon film. 3,738,949, 6-12-73, Cl. 260-18.00n.

Schonberg, Karl-Heinz: *See—*
Pfeiffer, Kurt; Dietrich, Johannes; Schonberg, Karl-Heinz; and Beckmann, Gunter, 3,734,400.

Schonbrun, David M. Snowshoe harness. 3,755,926, 9-4-73, Cl. 36-2.5ab.

Schondelmyer, Scott M., to Dayton Manufacturing Company. Waste treatment system. 3,734,291, 5-22-73, Cl. 210-152.000.

Schone, Henry L.: *See—*
Schone, Henry L.; Geer, William W.; Laxineta, Stephen C.; and Koistinen, Clayton W., 3,774,825.

Schone, Henry L.; Geer, William W.; Laxineta, Stephen C.; and Koistinen, Clayton W., to Schone, Henry L. and said Laxineta and said Koistinen assors. to said Geer, William W. Back pack for underwater breathing apparatus and the like. 3,774,825, 11-27-73, C. 224-25.00a.





Schoneborn, Heilmuth, to Bolkow Gesellschaft mit beschrankter Haftung. System for the radio transmission of guidance signals to

Koch, Karl Heinz; Koch, Paul; Loorz, Walter; and Schoppa, Hans, 3,717,602.





Eichinger, Hans, 3,752,112.

Schneider, Preston Hunter, Jr.; and Chrisholm, Donald Alexander, to Canadian Patents and Development Limited. Method of and apparatus for measuring the thickness of a layer of material. 3,778,

Schneider, Rainer, to Siemens Aktiengesellschaft. Method for the production of a semiconductor device. 3,778,

Schoneborn, Hellmuth, to Bolkow Gesellschaft mit beschrankter Haftung. System for the radio transmission of guidance signals to self-propelled bodies. 3,746,288, 7-17-73, Cl. 244-3.140.
Schonfeld, Arnold; and Phillips, Edwin R., to Sperry Rand Corporation. Fluidic card handling device. 3,743,359, 7-3-73, Cl. 302-2.00r.
Schonfeld, Wolfram; and Philipps, Armin, to Mannesmannrohren-Werke A.-G. Plug changing mechanism for rolling mills, and plugs for the same. 3,762,201, 10-2-73, Cl. 72-209.000.
Schonfeldt, Nikolaus Augustin, to MK Research and Development Co. Method of treating textile fibers prior to forming them into yarn. 3,723,173, 3-27-73, Cl. 117-139.5cq.
Schonholtz, George J.: *See—*
Schonholtz, George J.; and Pawlikowski, Eugene J. (said Pawlikowski assor. to said), 3,716,848.
Schonholtz, George J.; and Pawlikowski, Eugene J., said Pawlikowski assor. to said Schonholtz, George J. Small portable paging receiver with audio recording and reproducing facilities. 3,716,848, 2-13-73, Cl. 340-311.000.
Schonhorn, Harold: *See—*
Craft, William Henry; and Schonhorn, Harold, 3,770,531.
Schoning, Josef: *See—*
Angelini, Antonio; Handel, Hubert; Landwehr, Heinz; Karlheinz, Hammelmann; Schoning, Josef; Schwenk, Bernd; and Huck, Gerhard, 3,751,336.
Schonstedt, Erick O., to Schonstedt Instrument Company. Series string flux gate magnetic sensor apparatus with additive response. 3,736,502, 5-29-73, Cl. 324-43.00r.
Schonstedt, Erick O. Compensation for misalignment of magnetic sensors. 3,757,209, 9-4-73, Cl. 324-43.00g.
Schonstedt Instrument Company: *See—*
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Schonthal, David. Newspaper dispenser. 3,708,087, 1-2-73, Cl. 221-110.000.
Schoof, Hansotto: *See—*
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Schoolar, Richard B., to United States of America, Navy. Method of preparation of lead sulfide PN junction diodes. 3,716,424, 2-13-73, Cl. 148-175.000.
Schoolar, Richard B.; Lequin, Doris S.; Mathews, Harry E., Jr.; and Culpepper, Ronald N., to United States of America, Navy. Plastic mounting of epitaxially grown IV-VI compound semiconducting films. 3,770,565, 11-6-73, Cl. 161-184.000.
Schools, Rodman S.; and Sincerbox, Glenn T., to International Business Machines Corporation. Recording in reversible, photochromic medium. 3,720,921, 3-13-73, Cl. 340-173.01m.
Schoom, Werner: *See—*
Rauscher, Herbert; and Schoom, Werner, 3,719,751.
Schoon, David J., to Minnesota Mining and Manufacturing Company. System for growing aquatic organisms. 3,763,824, 10-9-73, Cl. 119-4.000.
Schoonebeek, Andre T. Dental articulator. 3,727,311, 4-17-73, Cl. 32-32.000.
Schoonover, John R.; and Northrip, Patrick M. Door construction. 3,774,341, 11-27-73, Cl. 49-200.000.
Schoonover, Richard H. A., to Formac International, Inc., mesne. Tracked vehicle walking beam assembly with equalizing means for ground pressure and track length. 3,717,214, 2-20-73, Cl. 180-9.500.
Schoonover, Richard H. A., to Formac International Inc., mesne. Track mounting and tensioning assembly for tracked vehicles. 3,744,857, 7-10-73, Cl. 305-10.000.
Schoonover, Stanley C.: *See—*
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Schoor, Manfred; Schrinner, Elmar; and Schutze, Eberhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Acylaminopenicillanic acids and salts thereof. 3,749,711, 7-31-73, Cl. 260-239.100.
Schoots, Peter J.: *See—*
Duby, Russell G.; Evans, Robert E.; Gusack, James A.; Nichols, Sterling M.; Schoots, Peter J.; Smelser, Robert E.; and Stephens, Bernard B., 3,743,559.
Schopf, Albert: *See—*
Rupp, Hans-Dieter; Siggel, Erhard; Meyer, Gerhard; Worbs, Ernst-Georg; Wallrabenstein, Michael; and Schopf, Albert, 3,719,681.
Wallrabenstein, Michael; Schopf, Albert; and Frank, Dieter, 3,718,625.
Schopfer, Walter S.; and Wuerth, Dietrich P., to HEC Corporation. Appliance removal alarm system for motels. 3,766,540, 10-16-73, Cl. 340-280.000.
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Schriever, Ferdinand J., to Schriever Design Co., Inc. Mold base for injection molding apparatus. 3,749,537, 8-14-73, Cl. 425-242.000.

Schriever, Karl A. Method of and device for intermixing two or more components to make up a substance, especially for dentistry. 3,771,773, 11-13-73, Cl. 259-185.000.

Schrimshaw, Rex A., to Honeywell Information Systems, Inc. Phase jitter special purpose computer. 3,760,167, 9-18-73, Cl. 235-151.000.

Schrink, George H.; and Jarman, Ronald D., to Dover Corporation. Filter seal. 3,771,664, 11-13-73, Cl. 210-448.000.

Schrinner, Elmar: *See—*
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Schroader, Irvin H.; Hosea, Melvin E.; Caggiano, Vincent J.; and Miller, Leo C., to United States of America, Navy. Long range missile programmer. 3,741,502, 6-26-73, Cl. 244-3.130.

Schrock, James Douglas, to Moore, Samuel, and Company. Composite tubing. 3,720,235, 3-13-73, Cl. 138-137.000.

Schrock, Steven L., to Westinghouse Electric Corporation. Detection system. 3,751,969, 8-14-73, Cl. 73-23.000.

Schrock, Wayne Edwin: *See—*
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Schroder, Hans-Georg: *See—*
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Schroder, Johann, to U.S. Philips Corporation. Heat accumulator. 3,709,209, 1-9-73, Cl. 126-400.000.

Schroder, Johann; and Van der Sluys, Willem Ludovicus Nicolaas, to U.S. Philips Corporation. Method of producing heat in a chemical reactor. 3,713,920, 1-30-73, Cl. 149-109.000.

Schroder, Johann; and Van Witteveen, Roland Anton Johan Otto, to U.S. Philips Corporation. Mass which after ignition supplies heat for some time as a result of a reaction among several constituents of the mass. 3,725,153, 4-3-73, Cl. 149-19.000.

Schroder, Johann; Ganser, Hans Gunther; and Oepen, Heinrich, to U.S. Philips Corporation. Piezoelectric ignition device. 3,758,827, 9-11-73, Cl. 317-81.000.

Schroder, Johann, to U.S. Philips Corporation. Heat accumulator. 3,779,232, 12-18-73, Cl. 126-400.000.

Schroder, Jurgen: *See—*
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Schroder, Jurgen; Von Osten, Reimer; Nussbaum, Hans-Georg; and Bartels, Ulrich, to U.S. Philips Corporation. Circuit arrangement for character display. 3,735,385, 5-22-73, Cl. 340-324.0ad.

Schroder, Jurgen; Ochel, Gunter; and Von Horsten, Hans-Joachim, to U.S. Philips Corporation. Transmission arrangement. 3,778,549, 12-11-73, Cl. 178-68.000.

Schroder, Karl-Heinz; and Zwicker, Wolfgang, to Pulsotronic Merter KG. Arrangement for controlling the steering of vehicles directed along a predetermined path. 3,763,955, 10-9-73, Cl. 180-98.000.

Schroder, Paul B., to Leifeld & Co. Method and apparatus for making stepped rims. 3,779,060, 12-18-73, Cl. 72-87.000.

Schroder, Peter: *See—*
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Schroder, Rolf: *See—*
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Schroder, Rolf, to Agfa-Gevaert Aktiengesellschaft. Photographic still camera. 3,714,877, 2-6-73, Cl. 95-31.0fm.

Schroder, Walter. Drive for converters, rotary trommels, plate conveyors and the like. 3,759,116, 9-18-73, Cl. 74-606.00r.

Schroder, Walter, to WGW, Westdeutsche Getriebewerke GmbH. Toothed disk coupling of a shaft to a hub. 3,760,605, 9-25-73, Cl. 64-9.000.

Schrodter, Hermann: *See—*
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Schroeder, Bruce W.: *See—*
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Schroeder, Charles E.: *See—*
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Schroeder, Clarence J. Mixer attachment for ice cream freezer. 3,751,013, 8-7-73, Cl. 259-185.000.

Schroeder, Clifford A. Ducting. 3,768,523, 10-30-73, Cl. 138-141.000.

Schroeder, Ervin E.: *See—*
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Halasa, Adel F.; and Schroeder, Ervin E., 3,725,370.

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Schroeder, Guenther: *See—*
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Schroeder, Gunter; and Gaenzler, Wolfgang, to Rohm G.m.b.H. Preparation of foamed bodies using a urea blowing agent. 3,734,870, 5-22-73, Cl. 260-2.50n.

Schroeder, Harry J.: *See—*
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Schroeder, Henry Charles; Sheehan, John Robert; and Tracey, Robert John, to Bell Telephone Laboratories, Incorporated. Automatic equalizer for phase-modulation data transmission systems. 3,727,136, 4-10-73, Cl. 325-42.000.

Schroeder, Henry Charles; and Sheehan, John Robert, to Bell Telephone Laboratories, Incorporated. Digital demodulator for phase-modulated data transmission systems. 3,746,995, 7-17-73, Cl. 325-320.000.

Schroeder, Hubert J.: *See—*
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Schroeder, John: *See—*
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Schroeder, John F., to United States Gypsum Company. Fire resistant asphalt roofing. 3,751,291, 8-7-73, Cl. 117-126.00r.

Schroeder, Josef: *See—*
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Bode, Klaus-Dieter; Schroeder, Josef; and Schellhammer, Carl-Wolfgang, 3,740,393.

Schroeder, Josef; and Schellhammer, Carl-Wolfgang, to Bayer Aktiengesellschaft. Styryl compounds. 3,758,460, 9-11-73, Cl. 260-240.00d.

Schroeder, Kenneth Roger, to Deere & Company. Service brake lock mechanism. 3,757,604, 9-11-73, Cl. 74-529.000.

Schroeder, Paul G. K.: *See—*
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Schroeder, Peter, to Weber, Paul, AG. Apparatus for continuous wet treatment of a textile web. 3,772,903, 11-20-73, Cl. 68-62.000.

Schroeder, Peter H., Sr., to Thorough-Bread Industries, Limited. Dough kneading apparatus and method of producing baked products. 3,746,317, 7-17-73, Cl. 259-185.000.

Schroeder, Robert Edward: *See—*
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Schroeder, Robert J.; and Comfort, Samuel T., to Allis-Chalmers Corporation. Power steering and control therefor. 3,756,337, 9-4-73, Cl. 180-19.00s.

Schroeder, Roger L., to Bryant Grinder Corporation. Apparatus for controlling machine functions. 3,719,931, 3-6-73, Cl. 340-172.500.

Schroeder, Thaddeus: *See—*
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Schroeder, Walter. Air compressor. 3,779,672, 12-18-73, Cl. 417-493.000.

Schroeder, Wilburn C. Method and apparatus for feeding finely divided solids to a pressurized gas or gas-liquid-solids system. 3,762,773, 10-2-73, Cl. 302-53.000.

Schroer, Gary J., to Schroer Manufacturing Company, Inc. Caster and mounting structure. 3,758,917, 9-18-73, Cl. 16-36.000.

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Schroeter, Siegfried H., to General Electric Company. Method of preparing 3-hydroxy aldehydes and ketones. 3,709,944, 1-9-73, Cl. 260-598.000.

Schroeter, Siegfried H., to General Electric Company. Process for producing 3-hydroxyalkyl ethers. 3,715,401, 2-6-73, Cl. 260-611.00r.

Schroeter, Siegfried H., to General Electric Company. Curable compositions of maleimido substituted aromatic material. 3,742,089, 6-26-73, Cl. 260-873.000.

Schroll, Josef; and Sroke, Werner, to VEB Ingenieurburo Schiffbau. Apparatus for centrifugal casting. 3,741,283, 6-26-73, Cl. 164-287.000.

Schroll, Josef; and Sroke, Werner, to VEB Ingenieurburo Schiffbau. Centrifugal casting apparatus. 3,747,668, 7-24-73, Cl. 164-287.000.

Schromm, Kurt: *See—*
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Schromm, Kurt; Mentrup, Anton; Zeile, Karl; Renth, Ernst-Otto; Engelhardt, Albrecht; and Traunecker, Werner, to Boehringer Ingelheim G.m.b.H. Pharmaceutical compositions containing a bis-(dihydroxy-phenyl-ethylol)-substituted alkylenediamine and methods ofusing same. 3,769,430, 10-30-73, Cl. 424-330.000.

Schropfer, Karl Heinrich: *See—*
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Schroter, Carl; and Mulfinger, Eckhard, to Hermann, Heinrich. Hand dispenser and applicator for adhesive tickets. 3,740,299, 6-19-73, Cl. 156-577.000.

Schroter, Carl; and Mulfinger, Eckhard, to Hermann, Heinrich. Film splicing press and sticker supply therefor. 3,764,440, 10-9-73, Cl. 156-505.000.

Schroter, Carl, to Hermann, Heinrich. Sectionally subdivided bilateral sticker tape roll. 3,767,039, 10-23-73, Cl. 206-59.00c.

Schroter, Hans O. Variable ratio operating lever. 3,719,106, 3-6-73, Cl. 74-518.000.

Schroter, Herbert: *See—*
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Schroter, Herbert; and Koblo, Jochen, to Kalle Aktiengesellschaft. Process and apparatus for developing light-sensitive material. 3,748,995, 7-31-73, Cl. 95-89.00g.

Schroter, Richard C.; and Thomas, David C., to Kaiser Aluminum & Chemical Corporation. Resilient retaining wall. 3,739,588, 6-19-73, Cl. 61-49.000.

Schroth, John J. Solar energy for warming objects, such as golf balls and the like. 3,720,197, 3-13-73, Cl. 126-270.000.

Schrott, Erwin: *See—*
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Schrott, Erwin; Bier, Gerhard; and Gumboldt, Albert Gustav Martin,





Schubring, Norman W., to General Motors Corporation. Continuous

Schrott, Erwin; Bier, Gerhard; and Gumboldt, Albert Gustav Martin, to Hercules Incorporated, mesne. Polymerization and copolymerization of aryl-substituted olefins containing halogen in the nucleus. 3,741,947, 6-26-73, Cl. 260-91.500.
Schrudde, Reinhold, to Kochs Adler AG. Lubricating device for lockstitch sewing machine loopers. 3,773,020, 11-20-73, Cl. 112-256.000.
Schrueder, Thomas: *See*—
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Schtlke, Waldemar: *See*—
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Schubach, Theodor C., to Rohr Industries, Inc. Knockout window for vehicle. 3,739,527, 6-19-73, Cl. 49-466.000.
Schubach, Theodor C., to Rohr Industries, Inc. Roof to side wall joint area structure for transportation type vehicles. 3,740,089, 6-19-73, Cl. 296-28.00a.
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Schubart, Rudiger; Roos, Ernst; and Abele, Manfred, to Bayer Aktiengesellschaft. N,N'-thio-bis-carbamic acid amides. 3,770,826, 11-6-73, Cl. 260-558.00s.
Schubart, Rudiger; Eholzer, Ulrich; Kempermann, Theo; and Roos, Ernst, to Bayer Aktiengesellschaft. Vulcanization process with S,S'-carbonyl-bis-dialkydithio-phosphate. 3,778,419, 12-11-73, Cl. 260-79.50b.
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Schubert & Salzer Maschinenfabrik Aktiengesellschaft: *See*—
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Schubert, Egon. Railroad track. 3,762,641, 10-2-73, Cl. 238-29.000.
Schubert, Gunther; Muller, Siegfried; Gobel, Wolfgang; and Hahn, Christian, to VEB Kombinat Mess-und Regelungstechnik Dessau. Fluidic circuit coupling arrangement. 3,727,624, 4-17-73, Cl. 137-815.000.
Schubert, Hans-Werner; and Hoffmeister, Friedrich, to Bayer Aktiengesellschaft. Benzomorphan derivatives. 3,733,330, 5-15-73, Cl. 260-293.540.
Schubert, Hans-Werner; and Hoffmeister, Friedrich, to Bayer Aktiengesellschaft. Benzomorphan derivatives with analgesic agents. 3,781,431, 12-25-73, Cl. 424-267.000.
Schubert, James R., to Fraze, Ermal C. Can end with nondetachable tab. 3,734,338, 5-22-73, Cl. 220-54.000.
Schubert, James R.; and Brown, Omar L., to Fraze, Ermal C. Combined can and end with means for protecting against severed score. 3,765,352, 10-16-73, Cl. 113-121.00c.
Schubert, Karl P.; and Rienerth, George R., to Acme-Cleveland Corporation. Electric coupling control. 3,718,211, 2-27-73, Cl. 192-12.00d.
Schubert, Karl P., to Acme-Cleveland Corporation. Spindle control. 3,722,048, 3-27-73, Cl. 29-37.000.
Schubert, Karl P., to Acme-Cleveland Corporation. Stock stop in multiple spindle machine. 3,722,334, 3-27-73, Cl. 82-34.00a.
Schubert, Karl P., to Acme-Cleveland Corporation. Spindle carrier locking and clamping mechanism in multiple spindle machine tool. 3,739,660, 6-19-73, Cl. 74-815.000.
Schubert, Karl P., to Acme-Cleveland Corporation. Machine tool transmission. 3,747,444, 7-24-73, Cl. 82-28.00r.
Schubert, Karl-Friedrich: *See*—
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Schubert, Thomas J., to Pennwalt Corporation. High speed amalgamator universal capsule holder. 3,749,390, 7-31-73, Cl. 269-254.000.
Schubert, Walter A., to Elgin Metal Casket Company. Method of oxidizing tin and treatment. 3,767,475, 10-23-73, Cl. 148-6.140.
Schubert, Wilfried, to National Advertising Company. Hanging device for display elements on changeable copyboards. 3,738,040, 6-12-73, Cl. 40-140.000.
Schubert, Wolf-Dieter: *See*—
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Schubler, Karl-Heinz: *See*—
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Schuerholz, Donald L. Power conditioner. 3,737,689, 6-5-73, Cl. 310-3.00r.
Schuermann, Kenneth W., to Charles Machine Works, Inc., The. Swing mechanism for pivoted member. 3,757,642, 9-11-73, Cl. 91-176.000.
Schuessler, Richard D. Knitted headwear with wind barrier. 3,740,767, 6-26-73, Cl. 2-173.000.
Schuessler, Walter E. Cap with adjustable face mask. 3,717,882, 2-27-73, Cl. 2-173.000.
Schuette, Roland J., Jr., to Triangle Mfg. Co., Inc. Bur extractor. 3,769,660, 11-6-73, Cl. 19-202.000.
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Schuff, Richard William. Tub forming machine. 3,758,250, 9-11-73, Cl. 425-165.000.
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Schuftan, Paul Maurice, to British Oxygen Company Limited, The. Air separation. 3,768,270, 10-30-73, Cl. 62-31.000.
Schuftan, Paul Maurice; Armond, John Walter; Leader, John Henry; and Davis, George James, to British Oxygen Company Limited, The. Krypton xenon recovery method. 3,779,028, 12-18-73, Cl. 62-22.000.
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Schuh, Peter Otto, to Bell Telephone Laboratories, Incorporated. Bridge biasing circuit for line powered amplifier. 3,743,956, 7-3-73, Cl. 330-40.000.
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Schuhmacher, Alfred, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. 2,2'-Diacylamino-1,1'-dianthraquinonyls. 3,723,479, 3-27-73, Cl. 260-368.000.
Schuhmann, Siegfried; and Alix, Hans, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Piston pump for delivering viscous pastes. 3,719,437, 3-6-73, Cl. 417-360.000.
Schuhmann, Siegfried; Simeth, Claus; and Wegel, Erich, to Roland Offsetmaschinenfabrik Faber & Schleicher AG. Delivery arrangement. 3,779,545, 12-18-73, Cl. 271-183.000.



Schuierer, Erich; and Hoffmann, Dieter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Fluorinated polyglycol derivatives and their preparation. 3,721,700, 3-20-73, Cl. 260-471.00c.
Schuierer, Erich; Hoffmann, Dieter; and Rebsoat, Siegfried, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Polyglycol-ethylene-imine derivatives. 3,746,742, 7-17-73, Cl. 260-471.00c.
Schuierer, Manfred, to Bruckner Apparatebau GmbH. Apparatus for drying lengths of dyed fabrics. 3,727,320, 4-17-73, Cl. 34-70.000.
Schuierer, Manfred, to Bruckner-Apparatebau Michelstadt GmbH. Process for wet treatment and subsequent drying of a textile web. 3,730,679, 5-1-73, Cl. 8-151.000.
Schuierer, Manfred, to Bruckner-Apparatebau Michelstadt GmbH. Drying of fabrics treated with chlorinated hydrocarbons. 3,745,666, 7-17-73, Cl. 34-12.000.
Schuil, Roelof Egbert, to U.S. Philips Corporation. Luminescent alkaline earth sulfate phosphor and method of preparation. 3,764,554, 10-9-73, Cl. 252-301.450.
Schuk, Walter W.; Pressley, Thomas A.; and Bishop, Dolloff F., to United States of America, Environmental Protection Agency. Automatic control system for the safe and economical removal of $NH_3$ by breakpoint chlorination. 3,760,829, 9-25-73, Cl. 137-93.000.
Schukei, Glen Elwin, to Combustion Engineering, Inc. Fuel bundle and control element assembly handling mechanism. 3,768,668, 10-30-73, Cl. 214-27.000.
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Schulenberg, John W., to Sterling Drug Inc. 1,2,3,4,6,7 12,12a-Octahydro-2-phenylpyrazino [2',1':6,1] pyrido [3,4-b] indoles and intermediates therefor. 3,717,638, 2-20-73, Cl. 260-268.0pc.
Schulenberg, John W., to Sterling Drug Inc. 1-Amino-2,3-disubstituted cyclopropenylium salt. 3,728,388, 4-17-73, Cl. 260-563.00p.
Schuler, Claus: *See*—
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Schuler, Edward F., to Baxter Laboratories, Inc. Husk-free mash process. 3,745,018, 7-10-73, Cl. 99-52.000.
Schuler, Georges: *See*—
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Schuler, Leo H. Rotary layout stand. 3,744,138, 7-10-73, Cl. 33-174.0ta.
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Schuler, Norman W., to Polaroid Corporation. Multilayer light polarizing lens. 3,711,417, 1-16-73, Cl. 252-300.000.
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Schulte, Rudolf R. Flow control system for physiological drainage. 3,756,243, 9-4-73, Cl. 128-350.00v.
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Schultz, John R.; Heidacher, John W.; Sharer, John M.; Adams, James S.; and Damico, Frank M., to Hill-Rom Company, Inc. Hospital service unit. 3,769,502, 10-30-73, Cl. 240-4.000.

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Schultz, Ralph H., to Peripheral Sciences, Inc. Card marking apparatus. 3,720,810, 3-13-73, Cl. 235-61.11r.

Schultz, Richard V., to United States of America, Navy. Directional phase-shifting coupler. 3,777,284, 12-4-73, Cl. 333-10.000.

Schultz, Robert B. Aquatic protective garment. 3,744,054, 7-10-73, Cl. 2-2.10r.

Schultz, Robert C. Resurfacing tool. 3,763,562, 10-9-73, Cl. 30-166.000.

Schultz, Robert D.; and Di Martino, John, to Peck & Hale, Inc. Turnbuckle. 3,719,377, 3-6-73, Cl. 287-60.000.

Schultz, Robert G., to Monsanto Company. Production of carboxylic acids and esters. 3,717,670, 2-20-73, Cl. 260-476.00r.

Schultz, Robert Jordan. Alignment means for inserting guide wire prior to inserting hip nail for a fractured hip. 3,727,611, 4-17-73, Cl. 128-92.0eb.

Schultz, Robert Jordan. Surgically implantable prosthetic joint. 3,760,427, 9-25-73, Cl. 3-1.000.

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Schultz, Roger T.; Vickland, Jack M.; and Sickler, Raymond E., to Philco-Ford Corporation. Equalizing stub axle linkage suspension. 3,711,055, 1-16-73, Cl. 248-425.000.

Schultz, Rolf, to Rheinstahl Wanheim Gesellschaft mit beschrankter Haftung. Installation for producing malt. 3,730,845, 5-1-73, Cl. 195-129.000.

Schultz, Ronald G., to United States Steel Corporation. Control system for arc voltage of a plasma arc torch. 3,732,351, 5-8-73, Cl. 13-13.000.

Schultz, Seiford F.; and Nix, Andrew B., to United States of America, Army. Method for production of composite and modified double base reinforced carpet roll grain. 3,715,414, 2-6-73, Cl. 264-3.00r.

Schultz, Seiford F.; and Higgins , James H., to United States of America, Army. Headend suspension for a carpet roll solid propellant grain. 3,737,348, 6-5-73, Cl. 149-2.000.

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Schultz, Thomas C., to Ford Motor Company. Carburetor throttle valve positioner. 3,741,177, 6-26-73, Cl. 123-97.00b.

Schultz, Walter Donald, to Chrysler Corporation. Engine drainage reuse system. 3,762,380, 10-2-73, Cl. 123-73.00r.

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Schultz, William James; and Kernander, Warren Norman, to General Electric Company. Wire-form cable guide for shelf-mounted electronic equipment modules. 3,717,319, 2-20-73, Cl. 248-49.000.

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Schultz, William L.; and Schultz, Matthew. Tire changing device. 3,734,159, 5-22-73, Cl. 157-1.000.

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Schultze, Wolfram M., to Plastronics, Inc. Support apparatus for a bedside drainage bag. 3,716,055, 2-13-73, Cl. 128-275.000.

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Schulz, Arthur C.: *See—*
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Schulz, Dietrich, to SWF-Spezialfabrik fur Autozubehor Gustav Rau GmbH. Flashing warning light. 3,764,799, 10-9-73, Cl. 240-24.000.

Schulz, George H.: *See—*
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Schulz, Gerald L.; and Caiola, Robert J., to Dow Chemical Company, The. Method of preparing sulfonated styrene polymer photographic films. 3,725,109, 4-3-73, Cl. 117-47.00a.





Schulz, Gerhard: *See—*
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Schulz, Gordon, to Odetics, Inc. Tri-capstan tape transport. 3,741,564, 6-26-73, Cl. 274-4.00d.

Schulz, Gunter, Dr.: *See—*
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Schulz, Hans-Dieter, to Espera-Werke Aktiengesellschaft. Label transporting device for a price calculating scale. 3,751,322, 8-7-73, Cl. 156-360.000.

Schulz, Hans-Georg: *See—*
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Schulz, Helmut: *See—*
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Schulz, Herman C.: *See—*
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Schulz, Horst, to Fichtel & Sachs A.G. One way clutch driven by oscillating drum. 3,709,341, 1-9-73, Cl. 192-64.000.

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Schulz, John C.; and Lyday, Richard W., to General Motors Corporation. Engine mount assembly. 3,718,304, 2-27-73, Cl. 248-9.000.

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Schulz, Wallace W., to United States of America, Atomic Energy Commission. Method for the purification and recovery of tributyl phosphate used in reprocessing nuclear fuel. 3,708,508, 1-2-73, Cl. 252-364.000.

Schulz, Werner: *See—*
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Schulze, Erwin F. C.; and Baker, Robert G., to Addressograph-Multigraph Corporation. Paper collator and distributor. 3,709,480, 1-9-73, Cl. 270-58.000.

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Schulze, Fritz H., to Comten. Method of and apparatus for baud rate detection. 3,747,074, 7-17-73, Cl. 340-172.500.

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Schulze, Gerhard; and Heck, Wolfgang, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Process for the oxidation of hydrogen sulfide to elementary sulfur. 3,725,537, 4-3-73, Cl. 423-575.000.

Schulze, Hartmut H. O., to Hagenuk vormals Neufeldt & Kuhnke GmbH. Buoy with adjustments for the reduction of the effect of the sea forces thereon. 3,727,248, 4-17-73, Cl. 9-8.00r.

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Schulze, Heinz, to Jefferson Chemical Company, Inc. Imidazole synthesis. 3,715,365, 2-6-73, Cl. 260-309.000.

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Schulze, James L., Sr., to General Electric Company. Apparatus for adding moisture to air. 3,739,597, 6-19-73, Cl. 62-311.000.

Schulze, James R.; and Soroka, Joe F., to Rexham Corporation, mesne. Packaging machine with splitter bar fill. 3,708,952, 1-9-73, Cl. 53-112.00b.

Schulze, John J.: *See—*
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Schumacher, Berthold W., to Westinghouse Electric Corporation. Corpuscular beam in mining and excavation. 3,718,367, 2-27-73, Cl. 299-14.000.

Schumacher, Berthold W.; and La Croix, Robert E., to Westinghouse Electric Corporation. Corpuscular beam in the atmosphere. 3,725,633, 4-3-73, Cl. 219-121.0eb.

Schumacher, Cecil W., to Borg-Warner Limited. Motor vehicle plunger type switch unit with self-adjusting shaft coupling connection. 3,710,048, 1-9-73, Cl. 200-52.00r.

Schumacher, Delmar Francis: *See—*
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Schumacher, Egon. Watering valve for small animals, especially chickens, preferably with drip pan. 3,750,628, 8-7-73, Cl. 119-72.500.

Schumacher, Ernst, to Ciba-Geigy AG. Process for the manufacture of metallic, electrically conductive patterns. 3,708,295, 1-2-73, Cl. 96-36.200.

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Schumacher, Friedrich, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Hydraulically dampened car bogie. 3,719,153, 3-6-73, Cl. 105-182.00r.

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Schwartz, Anthony Max; and Berch, Julian, to Gillette Company Research Institute, The, mesne. Process for preparing permanent-press articles. 3,771,950, 11-13-73, Cl. 8-115.500.
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Schwartz, Bertram, to Bell Telephone Laboratories, Incorporated. Electrolytic oxidation of silicon. 3,764,491, 10-9-73, Cl. 204-56.00r.
Schwartz, Boris. Biased tensioned insole member for boots or shoes. 3,757,435, 9-11-73, Cl. 36-30.00r.
Schwartz, Charles W., to Ford Motor Company. Engine exhaust gas purification system. 3,761,229, 9-25-73, Cl. 23-288.00f.
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Schwartz, Frederic W., to Cable Electric Products, Inc. Lamp conversion unit. 3,729,628, 4-24-73, Cl. 240-52.600.
Schwartz, Gary R.: *See—*
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Schwartz, George C., to Schwartz Chemical Company, Incorporated. Drycleaning deodorizing and disinfecting compositions and processes. 3,770,373, 11-6-73, Cl. 8-142.000.
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Schwartz, Harold A.; and Port, Morton I., to Avisun Corporation, mesne. Process for producing a composite yarn which is bulky slip-resistant and of high strength. 3,760,046, 9-18-73, Cl. 264-47.000.
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Schwartz, Herman, to Pitney Bowes-Sage, Inc. Electrophotographic copy paper supply roll and mounting assembly therefor. 3,730,452, 5-1-73, Cl. 242-68.400.
Schwartz, Hermann, to Peyer, Siegfried. Oversize filament thickness detector, particularly excessive thread thickness and knot detector for yarns. 3,723,991, 3-27-73, Cl. 340-259.000.
Schwartz, Hermann, to Peyer, Siegfried. Bank note testing apparatus. 3,725,667, 4-3-73, Cl. 250-219.0dq.
Schwartz, Howard S. Method for detecting blockage or insufficiency of pancreatic exocrine function. 3,719,183, 3-6-73, Cl. 128-2.00r.
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Schwartz, Jacob H., to Loral Corporation. Linearization of magnetically deflected cathode ray tube with non-axial guns. 3,772,566, 11-13-73, Cl. 315-276.00d.
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Schwartz, Jerome, to Taylor Lock Company. Double door lock. 3,768,285, 10-30-73, Cl. 70-134.000.
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Schwartz, Leonard; Blau, Donald Z.; and Chin, Edward, to Singer Company, The. Leaky wave guide planar array antenna. 3,721,988, 3-20-73, Cl. 343-756.000.
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Schwartz, Norman; and Mohrbacher, Richard J., to McNeil Laboratories, Inc. Pyrazineacetic acids korver alkyl esters, amides and salts. 3,761,477, 9-25-73, Cl. 260-250.00r.
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Schwartz, Robert B., to Fruehauf Corporation. Trailer construction. 3,776,400, 12-4-73, Cl. 214-38.0ba.
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Schwarz, Eckhard C. A.; and Bartels, Philip R., to Kimberly-Clark Corporation. Dielectric copying sheet. 3,746,574, 7-17-73, Cl. 117-201.000.
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Schweitzer, Hans R., to Eastman Kodak Company. Method of drying pigments. 3,731,391, 5-8-73, Cl. 34-5.000.
Schweitzer, John C.; and Junak, Edward M., to Delta Products, Inc. Controlled variable spark capacitor discharge ignition system. 3,714,507, 1-30-73, Cl. 315-209.0cd.
Schweitzer, John C.; and Tuttle, Terry, to Delta Products, Inc. Intrusion alarm system. 3,761,909, 9-25-73, Cl. 340-258.00a.
Schweitzer, Michael, to Textron, Inc. Method of roller bearing retention and assembly. 3,711,911, 1-23-73, Cl. 29-148.40c.
Schweitzer, Robert W.; and Drury, Harvey J., to Philco-Ford Corporation. Process for controlling cathode ray tube cutoff voltage by cathode insertion with accelerating grid compensation. 3,748,708, 7-31-73, Cl. 29-25.150.
Schweitzer, Roland: *See—*
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Schweizer, Herman, to Stiefelmayer, C., KG. Implement for measuring or marking workpieces. 3,722,842, 3-27-73, Cl. 248-124.000.
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Schwendeman, Robert J.; D'Amico, Thomas V.; and Petrakos, Nicholas, to Motorola, Inc. Subaudible remote control tone encoding system. 3,731,200, 5-1-73, Cl. 325-55.000.
Schwendtner, Manfred, to Siemens Aktiengesellschaft. Switching circuit for measuring the electrical power in two energy flow directions (delivered and returned). 3,731,190, 5-1-73, Cl. 324-142.000.
Schweng, Otto; Smejkal, Hellmuth; Vereb, Hans; and Eicher, Karl, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Nozzle-head for a water-cooled blowing lance. 3,750,952, 8-7-73, Cl. 239-132.300.
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Schwenk, Kurt, to Volkswagenwerk Aktiengesellschaft. Shock absorbing device especially for vehicles. 3,722,876, 3-27-73, Cl. 267-140.000.
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Schwenk, Kurt, to Volkswagenwerk Aktiengesellschaft. Floor assembly for motor vehicles. 3,746,387, 7-17-73, Cl. 296-28.00f.
Schwenk, Kurt, to Volkswagenwerk Aktiengesellschaft. Arrangement of a driving means in the front portion of a vehicle, such as a motor vehicle. 3,752,247, 8-14-73, Cl. 180-64.00r.
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Schwertfeger, Owen J.; and Brill, Frank Daniel, to Seeburg Corporation of Delaware, The. Refrigeration, condensation collecting and removal apparatus. 3,721,105, 3-20-73, Cl. 62-289.000.
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Schwind, Richard G., to Nielsen Engineering and Research Corporation. Method and apparatus for obtaining mass average samples from a liquid stream. 3,724,276, 4-3-73, Cl. 73-422.00r.
Schwing, Friedrich Wilhelm. Hydraulic piston pump assembly. 3,741,691, 6-26-73, Cl. 417-517.000.
Schwingshandl, John. Air cushion vehicle. 3,746,116, 7-17-73, Cl. 180-121.000.
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Schwitzer, Louis H., III. Air circulation control system. 3,747,671, 7-24-73, Cl. 165-26.000.
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Schy, Frank R. Taco cooking apparatus. 3,763,764, 10-9-73, Cl. 99-353.000.

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Sciaky, David, to Welding Research, Inc. Multiple electrode resistance welding machine. 3,735,089, 5-22-73, Cl. 219-87.000.

Sciaky, David, to Welding Research, Inc. Electron beam welder incorporating sliding seal means. 3,742,365, 6-26-73, Cl. 219-121.0eb.

Sciaky, David, to Welding Research, Inc. Method for electron beam welding at high speeds. 3,746,831, 7-17-73, Cl. 219-121.0em.

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Scibor, Alphonse G.; and Nelson, Bruce C. Breech seal for caseless ammunition firearm. 3,728,938, 4-24-73, Cl. 89-26.000.

Scidmore, Wright H.: *See—*
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Scott, Blayney J. Fishing lure. 3,740,889, 6-26-73, Cl. 43-42.090.

Scott, Bruce E., to Curtiss-Wright Corporation. Method of stripping aluminide coatings. 3,779,879, 12-18-73, Cl. 204-146.000.

Scott, Charles H., to Control Systems, Inc. Key operated, multiple station counting device. 3,766,365, 10-16-73, Cl. 235-92.0ct.

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Scott, David S., to Chubb Industries Limited. Method of coagulating aerosols. 3,771,286, 11-13-73, Cl. 55-15.000.

Scott, Don, to Searle, G. D., & Co. Sweetening compositions and method for use thereof. 3,780,189, 12-18-73, Cl. 426-212.000.

Scott, Donald D., to Johns Hopkins University, The. Photochromic protective eye shield lens. 3,756,692, 9-4-73, Cl. 350-160.00p.

Scott, Donald E.: *See—*
Umholtz, Franklyn G.; Scott, Donald E.; and Douglas, James M., 3,757,411.

Scott, Donald K., Jr.: *See—*
McIntosh, Michael D.; and Scott, Donald K., Jr., 3,766,459.

Scott, Donald W., to Scott-Fisher Development Co. Game apparatus with an articulated frame. 3,718,331, 2-27-73, Cl. 273-119.00r.

Scott, Douglas R., to Robertshaw Controls Company. Valve construction. 3,711,018, 1-16-73, Cl. 236-87.000.

Scott, Douglas R., to Robertshaw Controls Company. Pneumatic control system for a fuel burning apparatus or the like. 3,754,572, 8-28-73, Cl. 137-675.660.

Scott, Earl D.: *See—*
Shaffer, Samuel Ralph; and Scott, Earl D., 3,712,098.

Scott, Edward E.; and Sullivan, Maurice David, to Edward & Scott, mesne. Lunch ticket tabulating mechanism. 3,754,119, 8-21-73, Cl. 235-61.60r.

Scott, Edwin M., Jr. Process of die casting of brass. 3,739,836, 6-19-73, Cl. 164-72.000.

Scott, Floyd L., Jr. Valve actuator. 3,753,386, 8-21-73, Cl. 92-5.000.

Scott, Floyd Logan, Jr.: *See—*
Litchfield, Mason Rawleigh; and Scott, Floyd Logan, Jr., 3,738,436.

Scott, Fred W. Docking device for young animals. 3,726,278, 4-10-73, Cl. 128-303.00a.

Scott, Fremont L.: *See—*
Althouse, Harlan E.; Scott, Fremont L.; and Cole, Gordon E., Jr., 3,723,379.

Scott, George H. Exhaust gas purifier. 3,771,315, 11-13-73, Cl. 60-297.000.

Scott, Harold C. Alternating current machine armature. 3,778,653, 12-11-73, Cl. 310-144.000.

Scott, Harold T., to General Electric Company. Instrument pointer construction. 3,727,041, 4-10-73, Cl. 240-2.100.

Scott, Harold W.; and Kelemencky, Monroe R., to Basic Sciences Corporation. Electromagnetic intensifier. 3,728,639, 4-17-73, Cl. 331-94.500.

Scott, Harry B.: *See—*
Tisdel, Lawrence C.; and Scott, Harry B., 3,762,880.

Scott, Howard L. Synthetic fur. 3,755,057, 8-28-73, Cl. 161-67.000.

Scott, Hubert D., to Texaco Inc. Gamma ray spectroscopy with quantitative analysis. 3,739,171, 6-12-73, Cl. 250-83.30r.

Scott, Hubert D.; and Maute, Robert E., to Texaco Inc. Methods and system for detecting subsurface minerals. 3,752,984, 8-14-73, Cl. 250-261.000.

Scott, Hubert D.; and Smith, Michael P., to Texaco Inc. Dual space epithermal neutron detector porosity logging. 3,774,033, 11-20-73, Cl. 250-266.000.

Scott, J. Frank: *See—*
Berthiaume, Pierre P.; Bowler, William; Cass, George Robert; Schotman, Jan; Scott, J. Frank; and Thivierge, Jacques, 3,746,111.

Scott, J. O.: *See—*
Murphy, Bob G.; and Scott, J. O., 3,720,263.

Scott, J. O., to Cities Service Oil Company. Method of in situ coal gasification. 3,734,184, 5-22-73, Cl. 166-259.000.

Scott, James; and McDowell, John S., Jr., to United Brands Company. Ship refrigeration. 3,722,230, 3-27-73, Cl. 62-200.000.

Scott, James J., Jr.: *See—*
Letson, George M.; Whitman, Robert J.; and Scott, James J., Jr., 3,713,021.

Scott, Joe. Machine tool indicator mechanism. 3,760,765, 9-25-73, Cl. 116-115.000.

Scott, John; and Winn, Russell Edward, to Esso Research and Engineering Company. Rotatable cleaning brushes. 3,760,448, 9-25-73, Cl. 15-180.000.

Scott, John Alexander: *See—*
Heckrotte, Robert Sherwood; and Scott, John Alexander, 3,761,559.

Scott, John E., to Owens-Illinois, Inc. Apparatus for transferring and operating on articles. 3,739,532, 6-19-73, Cl. 51-135.00r.

Scott, John J.: *See—*
Matchen, Ben; Robertson, David; and Scott, John J., 3,730,827.

Scott, John Troye; and Taylor, Roger Tuson, to Imperial Chemical Industries Limited. Insecticide-treated bags. 3,771,254, 11-13-73, Cl. 43-131.000.

Scott, John Wright Martin. Golf club including image reflector attachment. 3,727,919, 4-17-73, Cl. 273-186.00a.

Scott, John Wright Martin. Golf club attachment. 3,727,920, 4-17-73, Cl. 273-186.00a.

Scott, Joseph David; and De Tommaso, Gabriel L., to Rohm & Haas Company. Aqueous pigmented acrylic dispersion compositions having improved rheology. 3,736,286, 5-29-73, Cl. 260-29.6rw.

Scott, Joseph Hurlong, Jr.: *See—*
Boleky, Edward Joseph, III; and Scott, Joseph Hurlong, Jr., 3,749,614.

Scott, Joseph Hurlong, Jr., to RCA Corporation. Semiconductor device fabrication. 3,745,072, 7-10-73, Cl. 148-175.000.

Scott, Joseph James, to Short Brothers & Harland Limited. Composite panel structures. 3,769,767, 11-6-73, Cl. 52-145.000.

Scott, Kenneth W.: *See—*
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Scott, Lewis F., 1/2 to Franke Plating Works, Inc. Apparatus for treating cyanide wastes. 3,744,977, 7-10-73, Cl. 23-260.000.

Scott, Lyle B., to Jackson, Byron, Inc. Subsea bumper sub hydraulic bypass system. 3,718,183, 2-27-73, Cl. 166-5.000.

Scott, Lyle B., to Jackson, Byron, Inc. Undersea well test tree control valve and system. 3,724,501, 4-3-73, Cl. 137-630.190.

Scott, Lyle B., to Jackson, Byron, Inc. Subsea well stage cementing system. 3,730,267, 5-1-73, Cl. 166-.500.

Scott Machine Development Corporation: *See—*
Williams, Thomas A., 3,745,740.

Scott, Mamie V. Multiple slotted hair styling and permanent wave rollers. 3,768,492, 10-30-73, Cl. 132-39.000.

Scott, Milton J.; Stevens, Harry M.; and Stenzel, Hans-Jurgen A., to Monsanto Company. Composite ferrophosphorus composition. 3,744,999, 7-10-73, Cl. 75-132.000.

Scott, Myrsyl Walter; and Kloek, Arvid E., to Honeywell Inc. PN junctions in mercury cadmium telluride. 3,743,553, 7-3-73, Cl. 148-188.000.

Scott, Norman: *See—*
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Scott, Norman L., to Flexicore Co., Inc., The. Concrete building form construction. 3,733,757, 5-22-73, Cl. 52-105.000.

Scott, O. M., & Sons Company, The: *See—*
Timmons, Richard J.; and Gallant, William E., 3,778,445
Timmons, Richard V.; and Wittenbrook, Lawrence S., 3,755,363.

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Scott, William P.; and Woods, Warren W., to Continental Oil Company. Low temperature greases. 3,730,896, 5-1-73, Cl. 252-





Scraper, Robert D., to Mid-America Testing Service, Inc. Apparatus

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Scott Paper Company, mesne: *See—*
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Scott, Paul B.: *See—*
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Scott, Paul F.; Radecki, Kenneth P.; and Tatge, Robert B., to General Electric Company. Directive acoustic array for noise source localization. 3,781,782, 12-25-73, Cl. 340-16.00r.

Scott, Ray A.: *See—*
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Scott, Robert: *See—*
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Scott, Robert D., to Hepa Corporation. Stiffened absolute filter pack. 3,757,499, 9-11-73, Cl. 55-500.000.

Scott, Robert D. Dehydration and packaging of foodstuffs by dialysis. 3,758,313, 9-11-73, Cl. 99-199.000.

Scott, Robert H.; and Lockhart, Hildred B., to Celanese Corporation. Process for inhibiting corrosion. 3,770,377, 11-6-73, Cl. 21-2.70r.

Scott, Sam C. Multiple use concrete form liner. 3,759,481, 9-18-73, Cl. 249-189.000.

Scott, Sherwood and Brindley Foundation: *See—*
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Scott, Walter L.: *See—*
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Scott, Walter T., to Pollitt, Duncan and Coe, Roger. Spring type projecting device. 3,779,227, 12-18-73, Cl. 124-16.000.

Scott, Ward: *See—*
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Scott, Warner C., to Texas Instruments, Incorporated. Laser system having electronically selectable gain. 3,725,812, 4-3-73, Cl. 331-94.500.

Scott, Wilbert Milo. Rotary internal combustion engine. 3,727,589, 4-17-73, Cl. 123-8.450.

Scott, William B.: *See—*
Mauk, Robert W.; and Scott, William B., 3,719,117.

Scott, William B., to Whitney, W. A., Corporation. Adjustable stripper with stroke control. 3,720,125, 3-13-73, Cl. 83-146.000.

Scott, William B., to Whitney, W. A., Corporation. Broken tool detector. 3,728,919, 4-24-73, Cl. 83-62.000.

Scott, William B., to Whitney, W. A., Corporation. Clamp with workpiece locator. 3,758,099, 9-11-73, Cl. 269-58.000.

Scott, William B., to Whitney, W. A., Corporation. Tool holder for punches and the like. 3,762,264, 10-2-73, Cl. 83-698.000.

Scott, William H. Skate. 3,765,108, 10-16-73, Cl. 36-51.000.

Scott, William J.: *See—*
Erik, Carl L.; and Scott, William J., 3,716,318.

Scott, William Michael, to Canadian National Railway Company. Peak horsepower meter. 3,774,111, 11-20-73, Cl. 324-140.00r.

Scott, William P.; and Woods, Warren W., to Continental Oil Company. Low temperature greases. 3,730,896, 5-1-73, Cl. 252-28.000.

Scott, William T.: *See—*
Podesva, Ctirad; and Scott, William T., 3,767,670.
Podesva, Ctirad; Musil, Vaclav; and Scott, William T., 3,772,294.

Scott, William V., to Sierra Research Corporation. Redundant aircraft clock synchronization. 3,737,901, 6-5-73, Cl. 343-7.500.

Scott, Winfield H., Jr., to Clarkson Industries, Inc. Apparatus and system for removal of latex from waste water. 3,726,794, 4-10-73, Cl. 210-104.000.

Scott-Fisher Development Co.: *See—*
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Scott-Jackson, Dennis G., to Windsor Machine Company, Limited. Cutter bar with speed tip. 3,762,047, 10-2-73, Cl. 30-385.000.

Scott-Smith, Brian: *See—*
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Scottish Agricultural Industries, Limited: *See—*
Harris, Frederick John; and Raitt, John Stewart, 3,733,192.

Scotto, Victor E.; and Blackwelder, Maurice W., to Owens-Illinois, Inc. Foam plastic extrusion apparatus with plurality of die lip temperature controls. 3,775,035, 11-27-73, Cl. 425-141.000.

Scotto, Victor Edward; and Blackwelder, Maurice W., to Owens-Illinois, Inc. Process for controlling dimensions of the product in formed plastic extrusion. 3,751,537, 8-7-73, Cl. 264-40.000.

Scotto, Vincent: *See—*
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Scourtas, Frank: *See—*
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Scourtes, George, to Wilson Engineering, Inc. Fault detection apparatus. 3,727,205, 4-10-73, Cl. 340-256.000.

Scovil, Henry Evelyn Derrick: *See—*
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Scoville, Andrew E.: *See—*
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Scoville, Ray R.; and Wells, Ralph R., to Vector Electronic Company. Miniature tandem spring clips. 3,733,574, 5-15-73, Cl. 339-18.00c.

Scow, Inez L. Crocheting apparatus. 3,710,592, 1-16-73, Cl. 66-1.00a.

Scow, Kenneth B.; and Tuttle, James W., to Cogar Corporation, mesne. RF scuttering apparatus. 3,763,031, 10-2-73, Cl. 204-298.000.

Scowcroft, Hector, to T.M.M. (Research) Limited. Methods of and apparatus for drawtwisting textile yarns or filaments. 3,724,197, 4-3-73, Cl. 57-93.000.

SCR Corporation: *See—*
Roberts, Frank D., 3,755,826.

Scrafford, Robert L.; and Erdmann, M. Otto, to International Telephone and Telegraph Corporation. Antenna mounting structure. 3,714,660, 1-30-73, Cl. 343-757.000.

Scragg, Edgar P. Method of lubricating pneumatic machines and apparatus therefor. 3,724,601, 4-3-73, Cl. 184-56.00a.

Scragg, Ernest, & Sons Limited: *See—*
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Scranton, R. A., Industries, Inc.: *See—*
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Scraper, Robert D., to Mid-America Testing Service, Inc. Apparatus for weighing samples. 3,741,326, 6-26-73, Cl. 177-59.000.

Scray, Eugene J., Jr.; and Wilder, Donald L., to International Business Machines Corporation. Time coherent sampling system for eliminating the effects of test system jitter and providing a simplified single transient threshold test. 3,718,910, 2-27-73, Cl 340-172.500.

Screen Printing Systems, Inc.: *See—*
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Screttas, Constantinos G., 1/2 to National Hellenic Research Foundation, The. Preparation of organolithium compounds. 3,780,045, 12-18-73, Cl. 260-293.510.

Scribens, John: *See—*
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Scribner, Frank F., to FMC Corporation. Legume harvester with automatic dump hopper. 3,771,531, 11-13-73, Cl. 130-30.00h.

Scribner, Harry E. Differential pressure bottle crown inspector employing fluidic control system. 3,717,248, 2-20-73, Cl. 209-73.000.

Scribner, Richard M.: *See—*
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Scribner, Richard M., to Du Pont de Nemours, E. I., and Company. Polylactide-drug mixtures for topical applications. 3,755,558, 8-28-73, Cl. 424-47.000.

Scribner, Richard M., to Du Pont de Nemours, E. I., and Company. Process for the preparation of 6,6-difluoro-11 beta, 17 alpha, 21-trihydroxypregn-4-ene-3,20-dione and of its 16-methyl homologs. 3,767,684, 10-23-73, Cl. 260-397.400.

Scripto, Inc.: *See—*
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Scriven & Paget Limited: *See—*
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Scrivo, Leonard; La Plante, Lionel J.; Chumenti, Vincent A.; and Rubin, Gotthard George, to Vicon Products Corporation. Dental fiber optic illumination system. 3,758,951, 9-18-73, Cl. 32-27.000.

Scroggins, E. J. Collapsible cue stick. 3,740,034, 6-19-73, Cl. 273-68.000.

Scroggins, Robert R.: *See—*
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Scruggs, James A.: *See—*
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Scruggs, James Scott: *See—*
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Scrutton, Anthony: *See—*
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Entwisle, John Hubert; Scrutton, Anthony; and Moss, Keith Graham, 3,761,313.

Scrutton, Anthony; and Lee, Denis, to Imperial Chemical Industries Limited. Electrodes for electrochemical processes. 3,773,554, 11-20-73, Cl. 117-215.000.

Scrutton, Simon Lindsay: *See—*
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Scudder, Philmore M.; and Warren, Robert W., to Sun Research and Development Co., mesne. Method of preparing 2,4-dimethylisophthalic acid. 3,781,345, 12-25-73, Cl. 260-524.00r.

Scuderi, Vincent, to Van Blarcom Closures, Inc. Child proof closure for containers. 3,733,000, 5-15-73, Cl. 215-9.000.

Scuflaire, Robert: *See—*
Prognon, Pierre; Scuflaire, Robert; Mathey, Francois; and Gryschiewic-Trochimowski, Oleg, 3,780,036.

Scullard, Peter William, to Eastman Kodak Company. Polymers containing resorcinol groups and photographic elements containing same. 3,772,014, 11-13-73, Cl. 96-29.00d.

Scully, Daniel F., to Mallinckrodt Chemical Works. Cyanoethylation of aminophenols. 3,743,668, 7-3-73, Cl. 260-465.00e.

Scully, John W., to Pneumatic Scale Corporation. Apparatus for producing cartons. 3,740,030, 6-19-73, Cl. 271-35.000.

Scully, John W., to Pneumatic Scale Corporation. Apparatus for producing cartons. 3,740,031, 6-19-73, Cl. 271-35.000.

Scully, Lawrence J., to Dictaphone Corporation. Pressure roll assembly for tape recording and playback equipment. 3,764,052, 10-9-73, Cl. 226-176.000.

Scully, Robert T.: *See—*
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Sczerba, Stanley T., to Pennsylvania Engineering Corporation. Thermocouple lance handling device. 3,742,763, 7-3-73, Cl. 73-343.00r.

S.D.C. Products (Electronics) Limited: *See—*
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Se-Kit, Yuen. Tape dispenser. 3,747,816, 7-24-73, Cl. 225-11.000.

Se-Kit, Yuen. Combined mixer and pourer. 3,750,910, 8-7-73, Cl. 222-239.000.

Sea, Ronald G.: *See—*
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Sea Savory, Inc.: *See—*
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Sea Tank Co.: *See—*
Roulet, Jean; and Cimadevilla, Armand, 3,708,986.

Seaberg, David H.; and Purdy, Paul J., to Case, J. I., Company. Method and apparatus for positioning bucket loader. 3,713,557, 1-30-73, Cl. 214-763.000.

Seaberg, David H., to Case, J. I., Company. Loader bucket control linkage. 3,743,126, 7-3-73, Cl. 214-776.000.

Seaberg, Richard D., to Pierce-Pacific Manufacturing, Inc. Grapple. 3,759,564, 9-18-73, Cl. 294-88.000.

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Seaboard Systems, Inc.: *See—*
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Seaborn, George C., Jr. Emergency distress signaling system. 3,723,876, 3-27-73, Cl. 325-15.000.

Seabourn, Ed. O.; and Gatlin, Lonnie E., to Phillips Petroleum Company. Eccentrically locking apparatus holder. 3,716,896, 2-20-73, Cl. 24-257.000.

Seabury, Almon D.: *See—*
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Seaco Computer-Display Incorporated: *See—*
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Seager, Brent H. A.; and Williams, Geoffrey A., to Dunlop Limited. Temperature control systems. 3,751,631, 8-7-73, Cl. 219-485.000.

Seager, Leslie C.: *See—*
Stephan, Hallis N.; and Seager, Leslie C., 3,709,623.

Seager, Richard H., to General Electric Company. Four-quadrant indicator employing moire effect. 3,745,966, 7-17-73, Cl. 116-124.000.

Seager, Ronald W.; Lonigro, Dennis A.; and Lowenschuss, Oscar, to Raytheon Company. Digitally controlled attenuator. 3,765,020, 10-9-73, Cl. 343-5.0sm.

Seager, W. H., and Associates, Ltd.: *See—*
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Seager, William Harold, to Seager, W. H., and Associates, Ltd. Access duct for pipelines. 3,742,756, 7-3-73, Cl. 73-67.80s.

Seagraves, James E.: *See—*
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Seahorse Spars and Equipment, Ltd.: *See—*
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Seal, Glendon E.; and Arford, Willis R. Electric wiring box positioner. 3,767,151, 10-23-73, Cl. 248-205.00r.

Seal, Inc., mesne: *See—*
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Seal, Michael, to Drukker, D., & Zn. N.V. Method and means of making diamond heat sinks and heat sinks obtained by this method. 3,721,289, 3-20-73, Cl. 165-80.000.

Seal-Spout Corporation: *See—*
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Sealby, Robert L.; and Bate, Ralph G. Whirlpool bath for limb extremities. 3,772,714, 11-20-73, Cl. 4-179.000.

Sealectro Corporation: *See—*
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Sealectro Limited: *See—*
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Sealed Power Corporation: *See—*
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Seals, William O.; and Picard, Jean, to United States of America, Army. Combustible water repellent coating. 3,748,161, 7-24-73, Cl. 106-181.000.

Seals, William O., to United States of America, Army. Pressure sensitive explosive with organosilane coating. 3,767,488, 10-23-73, Cl. 149-7.000.

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Seay, Orum E.; and Shelton, Robert Q., to Halliburton Company.

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Seaman, Beverly A. H., to Dow Chemical Company, The. Emulsified hydrazine based fuel composition. 3,743,555, 7-3-73, Cl. 149-36.000.

Seamon, James H. Label holder for automatic car identification system. 3,745,355, 7-10-73, Cl. 250-219.00d.

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Seaquist, James J., to Anderson Electric Corporation. Expansion accommodating connector for tubular bus bars. 3,737,558, 6-5-73, Cl. 174-86.000.

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Searle, John Gilbert; and Hunt, David John, to Allwood, Searle & Timney Limited. Friction welding apparatus. 3,777,967, 12-11-73, Cl. 228-2.000.

Searle, John L.; and Hampton, Donald B., to Raytheon Company. Card reader system. 3,751,639, 8-7-73, Cl. 236-61.11e.

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Sears, Edgar A., Jr.; and Taylor, Harry M., to Hydril Company. Retention of pressure line to well tubing. 3,740,801, 6-26-73, Cl. 24-81.0cc.

Sears, James H.; and Jones, Bernard H., to Owens-Corning Fiberglas Corporation. Apparatus for treatment of linear elements. 3,741,153, 6-26-73, Cl. 118-405.000.

Sears, James H.; and Vucish, Paul M., to Owens-Corning Fiberglas Corporation. Apparatus for severing and depositing glass fibers. 3,771,981, 11-13-73, Cl. 65-9.000.

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Sease, James W., to Parke, Davis & Company. Surgical drape. 3,742,944, 7-3-73, Cl. 128-132.00d.

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Seaton, William Joe, to Garside Corporation. Alarm system. 3,750,162, 7-31-73, Cl. 343-5.0pd.

Seaton, William W. Control device for stopper of a casting container. 3,762,605, 10-2-73, Cl. 222-70.000.

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Sebek, Oldrich K., to Upjohn Company, The. Process for producing β-carotene. 3,752,740, 8-14-73, Cl. 195-28.00r.

Sebel, Hans-Georg, to Henkel & Cie G.m.b.H. Method for preventing the sliding or riding up of packaged articles by coating with adhesive compositions. 3,734,801, 5-22-73, Cl. 156-309.000.

Sebel, Hans-Georg. Adhesive compositions and method of application. 3,755,044, 8-28-73, Cl. 156-289.000.

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Sebest, Albert E.; and Smith, Frank W., to Mine Safety Appliances Company. Oxygen producing unit with cooled casing. 3,742,683, 7-3-73, Cl. 55-261.000.

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Seckerson, Clifford Alexander, to TRW Inc. Resilient fasteners. 3,745,612, 7-17-73, Cl. 24-73.0pf.

Seckerson, Clifford Alexander, to TRW Inc. Retainer for a headed member. 3,771,275, 11-13-73, Cl. 52-758.00d.

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Secter, Michael. Solid-geometrical puzzle and furniture arrangements. 3,773,329, 11-20-73, Cl. 273-153.00r.

Secter, Michael. Competitive game apparatus including groups of electric switches. 3,779,553, 12-18-73, Cl. 273-130.0ab.

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Sedgfield, Hugh B.; Brown, Norman Kenneth; and Birchnall, Eric James, to Sperry Rand Limited. System for guiding vehicles. 3,708,029, 1-2-73, Cl. 180-79.000.

Sedgwick, Gordon; Lindop, Roy; and Nelson, Tom Worsley, to Lucas, Joseph, (Industries) Limited. Joint arrangements. 3,746,374, 7-17-73, Cl. 285-187.000.

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Sedlacek, William S., to Reliable Electric Company. Clip terminal. 3,761,866, 9-25-73, Cl. 339-97.00p.

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Sedlak, Charles K., to Faustel, Inc. Registration adjustment mechanism. 3,742,850, 7-3-73, Cl. 101-248.000.

Sedlatschek, Karl; Machenschalk, Rudolf A.; and Natter, Bernd, to Schwarzkopf Development Corporation. Tungsten alloy X-ray target. 3,719,854, 3-6-73, Cl. 313-330.000.

Sedlecky, Jaromir; Matejka, Josef; Milichovsky, Bohumil; and Eisner, Olrich, to Statni Vyzkumny Ustav Textilni. Needle mounting arrangement. 3,747,373, 7-24-73, Cl. 66-120.000.

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Seecamp, Louis W. Combined single and double action firing mechanisms for pistols and kits for converting single-action pistols. 3,722,358, 3-27-73, Cl. 89-147.000.
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Seefluth, Charles L., to Phillips Petroleum Company. Selective parison heating for oriented generally oval-shaped hollow articles. 3,775,524, 11-27-73, Cl. 264-97.000.
Seefluth, Uwe. Toy airplane. 3,770,229, 11-6-73, Cl. 244-154.000.
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Seegan, Anthony J. Portable hydraulic power tool unit. 3,726,348, 4-10-73, Cl. 173-20.000.
Seeger, Donald D., to United States of America, Army. Explosive safe and arming system. 3,744,421, 7-10-73, Cl. 102-70.00r.
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Seeger, Richard E., Jr.; and Coulter, John G., to Chomerics, Inc. Pedestal and spring member for key actuator of diaphragm switch. 3,773,998, 11-20-73, Cl. 200-159.00b.
Seeger, Richard E., Jr.; and Coulter, John G., to Chomerics, Inc. Keyboard switch assembly with multi-sectional key actuator. 3,780,237, 12-18-73, Cl. 200-5.00a.
Seeger, Robert W. Golf ball retriever. 3,743,338, 7-3-73, Cl. 294-19.00a.
Seeger, Robert W. Spring resistant type exercising device. 3,747,925, 7-24-73, Cl. 272-83.00a.
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Seekins, Harold L., to General Electric Company. Inspection machine using a master and follower to guide a probe at a predetermined angle relative to a test piece. 3,739,262, 6-12-73, Cl. 324-40.000.
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Seelbinder, David C.; and Ballard, Clinton S., to Eastman Kodak Company. Method and apparatus for controlling characteristics of fogged silver halide emulsions. 3,725,071, 4-3-73, Cl. 96-94.000.
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Seely, Neil G.: *See—*
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Seemann, Bruce R.: *See—*
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Seemann, Fritz; and Troxler, Franz. Organic compounds. 3,758,502, 9-11-73, Cl. 260-326.150.
Seemann, James Marion: *See—*
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Seerahn, Robert. Hair styling template. 3,709,234, 1-9-73, Cl. 132-45.00r.
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Segal, Herbert A. Retarded vaporization compositions and method for making. 3,767,787, 10-23-73, Cl. 424-76.000.
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Segal, Zvi, to International Business Machines Corporation. Aligning and orienting apparatus. 3,709,378, 1-9-73, Cl. 214-1.00q.
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Segawa, Takeo; and Tsuru, Kenichi, to Oiless Kogyo Kabushiki Kaisha. Aluminum-silicon base sintered porous bearing metals. 3,728,089, 4-17-73, Cl. 29-182.500.
Segebrecht, Udo, to Siemens & Hinsch mbH. Liquid ring compressor. 3,771,898, 11-13-73, Cl. 415-53.000.
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Seger, Edward J., to Aluminum Company of America. Method and means for measuring electrode resistance. 3,735,253, 5-22-73, Cl. 324-64.000.
Segerdahl, Roy R.; and Erb, Theodor, to Sperry Rand Corporation Ford Instrument Company. Device for measuring accelerations. 3,713,343, 1-30-73, Cl. 73-517.00r.
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Segerstad, Goran J.F. Hard af. Reservoir brush for the application of agents on to surfaces. 3,738,761, 6-12-73, Cl. 401-173.000.
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Seglin, Leonard; and Gray, Charles A., to FMC Corporation. Steelmaking process. 3,734,716, 5-22-73, Cl. 75-28.000.
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Seglin, Thomas P. Concealed pocket. 3,772,708, 11-20-73, Cl. 2-253.000.
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Segre, Eugene J., to Syntex Corporation. Menopause treatment. 3,733,407, 5-15-73, Cl. 424-239.000.
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Seibel, Markus; and Thoese, Klaus, to Kalle Aktiengesellschaft. Process for improving the surface adhesion of shaped articles made from polyesters. 3,720,539, 3-13-73, Cl. 117-138.80f.
Seiber, James N.: *See—*
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Seidel, Harold, to Bell Telephone Laboratories, Incorporated. Distortion compensated electromagnetic wave circuits. 3,732,502, 5-8-73, Cl. 330-149.000.
Seidel, Harold, to Bell Telephone Laboratories, Incorporated. Coupling networks having broader bandwidth than included phase shifters. 3,748,601, 7-24-73, Cl. 333-10.000.
Seidel, Harold, to Bell Telephone Laboratories, Incorporated. Conductance-loaded transmission line resonator. 3,760,303, 9-18-73, Cl. 333-73.00r.
Seidel, Harold, to Bell Telephone Laboratories, Incorporated. Frequency-shaped amplifier with pedestal amplifying stage. 3,763,437, 10-2-73, Cl. 330-53.000.
Seidel, Harvey Donald: *See—*
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Seidel, Michael C.; Viste, Kenneth L.; and Yih, Roy Y., to Rohm & Haas Company. Plant growth inhibition with N-aryl-pyrid-2-ones. 3,761,240, 9-25-73, Cl. 71-76.000.
Seidel, Michael C.; Von Meyer, William C.; and Greenfield, Stanley A., to Rohm & Haas Company. Fungicidal 1,2,4-4H-triazole derivatives. 3,769,411, 10-30-73, Cl. 424-269.000.
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Seiden, Myron A., to Polaroid Corporation. Twin lens camera system with sliding back. 3,760,702, 9-25-73, Cl. 95-36.000.
Seiden Myron A.; and Barr, Charles A., to Polaroid Corporation. Twin lens camera optical system adjustment module. 3,774,512, 11-27-73, Cl. 95-18.00r.
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Seiden, Paul, to Procter & Gamble Company, The. Method for making liquid shortening-containing culinary mixes. 3,733,210, 5-15-73, Cl. 99-94.000.
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Seidenberg, Benjamin, to United States of America, National Aeronautics and Space Administration. Polydimethylsiloxune material and preparation thereof. 3,733,350, 5-15-73, Cl. 260-46.50r.
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Seiderman, Maurice. Contact lenses from hydrophilic gel polymers of polvinylpyrrolidone nonomeric vinylpyrrolidone and methacrylic modifier. 3,767,731, 10-23-73, Cl. 260-885.000.
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Seidewand, Edward H., to General Motors Corporation. Gating mechanism for cylinder lock assembly. 3,738,135, 6-12-73, Cl. 70-362.000.
Seidewand, Edward H., to General Motors Corporation. Cylinder lock assembly. 3,754,423, 8-28-73, Cl. 70-455.000.
Seidl, Franc; and Uebel, Philipp, to Wacker Werke KG. Vibrator for, and method of compacting concrete and similar masses. 3,727,890, 4-17-73, Cl. 259-1.00r.
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Seidler, David; and Feldman, Herbert B. Urine testing apparatus. 3,774,455, 11-27-73, Cl. 73-444.000.
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Seiffert, Karlheinz. Process for the production of fibers from thermoplastic synthetic material. 3,708,565, 1-2-73, Cl. 264-88.000.
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Seifried, Paul, to Rheinmetall GmbH. Firearm magazine releasing lever and trigger safety. 3,715,826, 2-13-73, Cl. 42-70.00e.
Seifried, Walter; and Klenk, Ludwig, to Kahle Aktiengesellschaft. Process for the continuous production of multiaxially stretched tubular films of linear polyesters. 3,725,519, 4-3-73, Cl. 264-25.000.
Seig, Robert P., to Chevron Research Company. Process for converting butane and hexane into isopentane by averaging and isomerization. 3,752,862, 8-14-73, Cl. 260-676.00r.
Seigel, Harold Oscar, to Scintrex Limited. Magnetic induced polarization method for geophysical prospecting. 3,745,445, 7-10-73, Cl. 324-1.000.
Seiger, Harvey N.; and Ritterman, Paul F., to Gulton Industries, Inc. Rechargeable batteries and charge control circuit therefore. 3,769,088, 10-30-73, Cl. 136-3.000.
Seike, Helmut K., to Eltra Corporation. Multiple output generator with multiple voltage regulators. 3,710,226, 1-9-73, Cl. 320-15.000.
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Seiler, Bernd, to Motoren- und Turbinen-Union Munchen GmbH. Fuel nozzle for gas turbine engines. 3,728,859, 4-24-73, Cl. 60-39.490.
Seiler, Bernhard, to Hartmann, Emil. Method of and apparatus for making flat plastic tubing. 3,752,724, 8-14-73, Cl. 156-351.000.
Seiler, Claus-Dietrich, to Dynamit Nobel Aktiengesellschaft. Method for waterproofing masonry structures. 3,772,065, 11-13-73, Cl. 117-123.00c.
Seiler, Edwin Nail. Paint mixing and paint roller mounting apparatus. 3,733,645, 5-22-73, Cl. 15-257.00r.
Seiler, Georg. Thrust safety in socket connections of pipes. 3,724,880, 4-3-73, Cl. 285-105.000.
Seiler, Georg. Pull and push safety device for screw socket connections of pipes. 3,733,093, 5-15-73, Cl. 285-342.000.
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Seim, Orville S.; Filewicz, Erwin C.; and Hutter, Ernest, to United States of America, Atomic Energy Commission. Irradiation subassembly. 3,767,525, 10-23-73, Cl. 176-15.000.
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Seiple, Ronald L., to United States of America, Navy. Resilient marine mammal nose cup. 3,745,976, 7-17-73, Cl. 119-129.000.
Seiple, Ronald L. Ecologically controlled ship's hull reconditioner. 3,752,109, 8-14-73, Cl. 114-222.000.



Seiple, Ronald L., to United States of America, Navy. Marine mammal automatic float locating and restraining device and method. 3,753,422, 8-21-73, Cl. 119-29.000.
Seiple, Ronald L., to United States of America, Navy. Submersible submersible underway docking unit. 3,757,722, 9-11-73, Cl. 114-16.000.
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Seiz, Edward A. Fire resistant storage structure. 3,720,268, 3-13-73, Cl. 169-2.00r.
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Seki, Takashi; Toki, Katsuyuki; Nakatani, Hiroshi; Suzuki, Yoshio; Fukushima, Hideaki; and Nawashiro, Yoshio, to Sumitomo Chemical Company, Ltd. N-substituted amides of natural fatty acids. 3,741,999, 6-26-73, Cl. 260-404.000.
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Sekuler, Stanley H., to L & S Associates, Inc. Children's feeding dish. 3,773,212, 11-20-73, Cl. 220-83.000.
Sekulich, Stephen A.; and Hatch, Frederich R., to Mather Company, The. Multi-element fluctuating pressure seal. 3,771,799, 11-13-73, Cl. 277-65.000.
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Sell, Victor L.; and Alvi, Syed M. S., to Ampex Corporation. Core assembly fixture. 3,729,796, 5-1-73, Cl. 29-203.0mm.
Sell, William Henry, Jr., to Isotopes, Inc. Thermal block. 3,744,560, 7-10-73, Cl. 165-185.000.
Sellari, Daniele, Jr., to International Telephone and Telegraph Corporation. Multi frequency receiver. 3,710,031, 1-9-73, Cl. 179-84.0vf.
Sellari, Daniele, Jr., to International Telephone and Telegraph Corporation. Limiter for multi frequency voice receiver. 3,743,945, 7-3-73, Cl. 328-28.000.
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Senard, Pierre Adolphe Maurice. Method for smoothing endless strips. 3,745,802, 7-17-73, Cl. 72-164.000.

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Senkewich, Alexander M. Automobile cigarette case with an automatic electrical lighter. 3,769,492, 10-30-73, Cl. 219-262.000.

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Sennowitz, Kurt H., to Colt Industries Operating Corporation. Electrical discharge machining power supply with protective system for output switch failure. 3,767,886, 10-23-73, Cl. 219-69.00s.

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Senolt, Hans; Tomaschko, Heinrich; and Palvik, Georg, to Osterreichische Mineralolverwaltung Aktiengesellschaft. Bitumen blasting process and blast reactor therefor. 3,773,649, 11-20-73, Cl. 208-6.000.

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Senoo, Takakazu, to Nippon Electric Company Limited. Memory circuit employing a bipolar ultrasonic delay line. 3,727,144, 4-10-73, Cl. 328-164.000.

Senour, Donald A., to BLH Electronics, Inc. Digital batching. 3,708,026, 1-2-73, Cl. 177-60.000.

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Senova, Zlata Petrovna: *See—*
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Senter, Louis; and Johnson, Robert E., to Whittaker Corporation. Wheel adaptation means. 3,749,450, 7-31-73, Cl. 301-9.0dn.

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Seo, Kiyokazu; Hayashi, Yoshihiro; Hoshino, Tunekichi; and Masuda, Funiyoshi, to Toyoto Jidosha Kogyo Kabushiki Kaisha, Kabushiki Kaisha Tokai Rika Denki Seisakusho and Hoshino Kogyo Kabushiki Kaisha. Webbing for use in seat belts. 3,756,288, 9-4-73, Cl. 19-383.00r.

Separation and Recovery Systems, Inc.: *See—*
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Percheron, Jean-Claude; and Septier, Louis, 3,717,456.

Septier, Louis G.; and Percheron, Jean-Claude G. Inoculating alloy for cast irons. 3,765,875, 10-16-73, Cl. 75-130.00r.

Sequaris, Etienne-Thomas, to Helka S.A. Packing piece for civil engineering works. 3,717,969, 2-27-73, Cl. 52-396.000.

Sequeira, Avilino, Jr., to Texaco Inc. Production of naphthenic oils. 3,730,876, 5-1-73, Cl. 208-59.000.

Sequin, Carlo Heinrich: *See—*
Krambeck, Robert Harold; and Sequin, Carlo Heinrich, 3,735,156.

Serafini, Angelo: *See—*
Ciampa, Fred A.; Serafini, Angelo; and Mazzarella, Louis, 3,754,744.

Serafini, Tito T.; Delvigs, Peter; and Lightsey, George R., to United States of America, National Aeronautics and Space Administration. Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids. 3,745,149, 7-10-73, Cl 260-65.000.

Seragnoli, Ariosto, to G.D. Societa in Accomandita Semplice di Enzo Seragnoli e Ariosto Seragnoli. Device for automatically varying the operating speed in packaging machines for cigarettes. 3,722,172, 3-27-73, Cl. 53-54.000.

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Serang, Abdulgafoor M.: *See—*
Rychlewski, Thaddeus V.; and Serang, Abdulgafoor M., 3,760,126.

Serban, Nicolae: *See—*
Hodosan, Francisc Petru; Serban, Nicolae; Balogh, Arbad; Jude, Ioan; Mantsch, Carol; and Bodor, Nicolae Stefan, 3,734,938.

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Serbus, Ctibor; Rezac, Jan; Pribil, Stanislav; Marvan, Petr; Krejdirik, Libor; and Stoy, Artur, to Ceskoslovenska akademie ved. Sorbent, and method of manufacturing same. 3,725,291, 4-3-73, Cl. 252-180.000.

Serck Industries Limited: *See—*
Dawber, Edmund Norman, 3,746,030.

Sere de Lanauze, Michel: *See—*





Morieras, Gilbert; and Sere de Lanauze, Michel, 3,711,630.

Serebryakov, Nikolai Gennadievich; Dedenkov, Anatoli Mikhai-

Levina, Tatyana Abramovna; Serkh, Mikhail Borisovich; and

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Serebryakov, Nikolai Gennadievich; Dedenkov, Anatoly Nikolaevich; and Kiryakov, Mikhail Akimovich, to Institut Meditsinskoi Radiologii Amn SSSR. Radioactive preparation absorbable in organism and method of obtaining same. 3,719,750, 3-6-73, Cl. 424-1.000.
Serebryakova, Tatyana Andreevna: *See—*
Zakharychev, Ardalion Vladimirovich; Serebryakova, Tatyana Andreevna; Ananchenko, Sofya Nikolaevna; and Torgov, Igor Vladimirovich, 3,714,235.
Serebryakova, Tatyana Andreevna; Zakharychev, Ardalion Vladimirovich; Chigir, Rimma Nuriakhmetova; Anachenko, Sofia Nikolaevna; Torgov, Igor Vladimirovich; and Krjutchenko, Evgenia Georgievna, to Institut Khimii Prirodynykh Soedineny Akademii Nauk SSSR. Streospecific method for preparing estrane compounds of natural configuration. 3,712,910, 1-23-73, Cl. 260-397.500.
Serebryakova, Tatyana Andreevna; Zakharychev, Ardalion Vladimirovich; Nekrasova, Margarita Alexandrovna; Ananchenko, Sofya Nikolaevna; and Torgov, Igor Vladimirovich. Method of producing racemic estradiol-3,17$\beta$. 3,761,497, 9-25-73, Cl. 260-397.50a.
Sereda, Nikolai Ivanovich; Sysun, Viktor Viktorovich; Skvortsov, Boris Vasilievich; Fisher, Viktor Davydovich; and Tolstoshev, Alexandr Vasilievich. Gas-discharge devices for optical pumping of lasers. 3,721,917, 3-20-73, Cl. 331-94.500.
Seree de Roch, Irenee: *See—*
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Serembe, Ezio. Magnetic plate for drawing desk lining. 3,746,992, 7-17-73, Cl. 335-285.000.
Serewicz, Aubrey J., to Illinois Tool Works Inc. Panel insert and method of installation. 3,716,092, 2-13-73, Cl. 151-41.700.
Serex, Inc.: *See—*
Plevy, Arthur L.; and Wepprecht, Vincent, 3,717,802.
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Sergeant, John Francis Charles: *See—*
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Sergeeva, Ljudmila Semenovna: *See—*
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Sergeys, Francis J., to Grace, W. R., & Co. Porous ceramic-exhaust oxidation catalyst. 3,755,204, 8-28-73, Cl. 252-455.00r.
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Seri, Tsutomu; and Abe, Shinogu, to Matsushita Electric Industrial Co., Ltd. Voltage regulator for DC power source. 3,777,239, 12-4-73, Cl. 318-345.000.
Serino, Andrew: *See—*
Serino, Andrew; and Cwik, Joseph A., 3,733,102.
Serino, Andrew; and Cwik, Joseph A., to Serino, Andrew. Automobile campers. 3,733,102, 5-15-73, Cl. 296-23.0mc.
Serino, Vincenzo. Closure or seal for doors, packages and the like. 3,747,163, 7-24-73, Cl. 24-16.0pb.
Serino, Yoichi: *See—*
Niimi, Itaru; Hashimoto, Kametaro; Ushitani, Kanzi; Ishihara, Ko; Serino, Yoichi; Mitani, Seishu; and Imanishi, Kunizo, 3,776,705.
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Serkh, Mikhail Borisovich: *See—*
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Serko, Richard A. Raised stop for ski boot of the pivoted ankle cuff type. 3,775,871, 12-4-73, Cl. 36-2.5al.
Serkov, Anatoly Gavrilovich: *See—*
Berlin, Zalman Leivikovich; Isarev, Igor Vladimirovich; Vasilchenko, Anatoly Stepanovich; Maslovsky, Gennady Vasilievich; Serkov, Anatoly Gavrilovich; Yakimovich, Hviktor Yakovlevich; and Ivanovsky, Evgeny Alexandrovich, 3,712,369.
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Seron Mfg. Co.: *See—*
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Serracchioli, Francesco; and Restivo, Francesco, to Olivetti, Ing., C., & C., S.p.A. Data terminal apparatus having a device for aligning printed data. 3,739,344, 6-12-73, Cl. 340-172.500.
Serracchioli, Francesco; and Steindler, Umberto, to Olivetti, Ing., C., & C., S.p.A. Data communication system between a central computer and data terminals. 3,772,656, 11-13-73, Cl. 340-172.500.
Serrano, Francisco M., to Compagnie Francaise des Petroles. Sealing construction between two juxtaposed elements. 3,719,374, 3-6-73, Cl. 285-97.000.
Serrat, Martin Llahi. Device for the helicoidal mounding and unmoulding of natural and artificial fibres, especially hair. 3,747,610, 7-24-73, Cl. 132-9.000.
Serratto, Angelo. Local air conditioning apparatus. 3,708,011, 1-2-73, Cl. 165-22.000.
Serratto, Angelo. Device for the automatic proportional control of physical quantities in a hydraulic circuit. 3,754,595, 8-28-73, Cl. 165-36.000.
Serrell, John J.; Sparks, George C.; and Trowern, Howard M., Jr., to Parke, Davis & Company. Pharmacal package construction. 3,737,029, 6-5-73, Cl. 206-56.0ab.
Serres, Carl, Jr.; and Bolton, Benjamin A., to Standard Oil Company. Polyamide-imide composition containing p-toluene sulfonic acid as stripping agent. 3,778,417, 12-11-73, Cl. 260-978.9tf.
Serritella, Angela C.: *See—*
Hand, HI; and Serritella, Angela C., 3,746,007.
Serry, Victor, to Measuring & Process Control Limited. Testing and grading of timber. 3,760,636, 9-25-73, Cl. 73-100.000.
Sertex Company of North America, Inc.: *See—*
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Serur, Juan Ricardo. Treating blood. 3,729,098, 4-24-73, Cl. 210-321.000.
Servanty, Guy Emile Louis, to Societe d'Etudes et de Recherches Appliquees S.E.R.A.P. Arrangement of jacks for controlling flaps and its application to the control of a jet pipe. 3,739,987, 6-19-73, Cl. 239-265.390.
Servanty, Guy Emile Louis, to Societe d'Etudes et de Recherches Appliquees S.E.R.A.P. Machine tool for machining components with toroidal sliding surfaces. 3,769,878, 11-6-73, Cl. 90-20.000.
Servasier, Alfred, to Societe Nationale des Petroles d'Aquitaine. Manufacture of sulfur. 3,719,744, 3-6-73, Cl. 423-574.000.
Servatius, John B. Fill material compensator for an automatic hydromechanical land leveler. 3,724,556, 4-3-73, Cl. 172-4.500.
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Service (Engineers) Limited: *See—*
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Service, Anthony Peter: *See—*
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Service D'Exploitation Industrielle des Tabacs et des Allumettes: *See—*
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Buisson, Claude; and Delaunay, Jean-Pierre, 3,719,289.
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Servicemaster Industries Inc.: *See—*
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Servillat, Gabriel, to Verdol S.A. Preparation of perforated jacouard cards or papers. 3,741,468, 6-26-73, Cl. 234-65.000.
Servo Corporation of America: *See—*
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Kreda, Eugene J., 3,714,441.
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Sescosem-Societe Europeenne de Semiconducteurs et de Microelectronique: *See—*
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Croset, Michel; and Nouailles, Noel, 3,737,341.
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Jund, Christian, 3,761,784.
Moreau, Jean Pierre; and Boudry, Jean Marie, 3,725,791.
Moreau, Jean Pierre A.; and Schuler, Georges, 3,753,154.
Sesselmann, Dieter; and Pickert, Hansjurgen, to William Prym-Werke KG. Apparatus for sewing a continuous slide fastener chain between an upper and a lower fabric layer. 3,762,347, 10-2-73, Cl. 112-105.000.
Sessions, Robert W. Terminal clamp. 3,740,703, 6-19-73, Cl. 339-255.00p.
Sessions, Robert W. Grounding plate or electrode for electromedical equipment. 3,741,219, 6-26-73, Cl. 128-417.000.
Sessler, Carl W.: *See—*
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Sessler, Gerhard Martin; and West, James Edward, to Bell Telephone Laboratories, Incorporated. Fabrication of electret transducer elements using low energy. 3,711,941, 1-23-73, Cl. 29-592.000.
Sessler, Gerhard Martin; and West, James Edward, to Bell Telephone Laboratories, Incorporated. Unidirectional microphones. 3,715,500, 2-6-73, Cl. 179-1.0dm.
Sessler, Gerhard Martin; and Taylor, Kenneth James, to Bell Telephone Laboratories, Incorporated. Acoustic imaging device using multiple element electret transducer. 3,736,552, 5-29-73, Cl. 340-5.0mp.
Sessler, Gerhard Martin; West, James Edward; and Hirsch, Alfred E., Jr., to Bell Telephone Laboratories, Incorporated. Multi-unit electret touch selector. 3,750,149, 7-31-73, Cl. 340-365.00c.
Sesta, Gerald J.: *See—*
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Sestita, Joseph J. Hair-coloring method and apparatus therefor. 3,749,105, 7-31-73, Cl. 132-7.000.
Sesto, Louis J., to Photo Plastic International. Picture frame assembly. 3,722,122, 3-27-73, Cl. 40-152.000.
Sesvignes, Francois: *See—*
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Seta, Sonokichi; Naruse, Takeo; and Ikawa, Masahiko, to Dai Nihon Bungu Kabushiki Kaisha; a/t/a Japan Stationery Co., Ltd., The. Push-type mechanical pencil with improved lead advancing means. 3,728,033, 4-17-73, Cl. 401-67.000.
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Setchell, Barton T. Television antenna multiple lead-in systems. 3,713,027, 1-23-73, Cl. 325-308.000.
Setele, William O., to Kendale Industries, Inc. Ratchet drive mechanism. 3,710,906, 1-16-73, Cl. 192-46.000.
Setele, William O., to Kendale Industries, Inc. Linkage mechanism. 3,770,157, 11-6-73, Cl. 217-44.000.
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Sethares, James C.: *See—*
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Setnikar, Ivo: *See—*
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Setronics Corporation: *See—*
Bemis, Winfield W., 3,720,147.
Sette, James J.; and Nix, Neil, said Nix assor. to said Sterling Drug Inc. Childproof overcap with horizontal spray. 3,729,119, 4-24-73, Cl. 222-153.000.
Sette, James J.; and Nix, Neil, said Nix assor. to said Sterling Drug Inc. Childproof relockable actuator overcap. 3,729,120, 4-24-73, Cl. 222-153.000.
Setterblade, Earl O., to Avco Corporation. Marine propulsion unit. 3,714,920, 2-6-73, Cl. 115-18.00r.
Settineri, William J.: *See—*
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Settino, Frederick A., to PPG Industries, Inc. Method of roll forming a ribbon of glass at high temperature. 3,765,858, 10-16-73, Cl. 65-101.000.
Settle, Joseph F., to General Electric Company. Fail-safe liquid pumping and flow control system. 3,776,439, 12-4-73, Cl. 266-38.000.
Settle, Ralph A.: *See—*
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Settlemyer, Bernard W., to Ajax Magnethermic Corporation, mesne. Adsorption gas drying method and apparatus. 3,766,660, 10-23-73, Cl. 34-9.000.
Settler, Morris: *See—*
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Setty, Richard D.: *See—*
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Setzer, William C.: *See—*
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Seu, Lindow. Machine for molding batter. 3,760,979, 9-25-73, Cl. 222-330.000.
Seulen, Gerhard; and Reinke, Friedhelm, to AEG-Elotherm GmbH. Method of straightening elongate inductively heated workpieces. 3,723,198, 3-27-73, Cl. 148-131.000.
Seumatsu, Yasuo, to Shinto Paint Co., Ltd. Method for the anodization and resin-coating of aluminous articles. 3,755,093, 8-28-73, Cl. 204-37.00r.
Seumel, Karl-Gottfried: *See—*
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Seuret, Marcel; and Leutenegger, Willi, Leutenegger assor. to Ciba-Geigy Corporation. Process for the continuous optical brightening of acylated cellulose fibre material. 3,754,964, 8-28-73, Cl. 117-33.50t.
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Sevald, William T.: *See—*
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Sevcik, Zdenek; and Jankovsky, Josef, to Vyzkumny a vyvojovy ustav Zavodu vseobecneho strojirenstvi. Method of and apparatus for metering and storing weft yarn for intermittent insertion into the shed of shuttleless looms. 3,776,282, 12-4-73, Cl. 139-122.00.
Sevcon Engineering Limited: *See—*
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Gurwicz, David; and Sloan, Albert E., 3,757,140.
Sevenich, Robert J., to Minnesota Mining and Manufacturing Company. Biaxially oriented polycarbonate modified polyester film. 3,720,732, 3-13-73, Cl. 260-860.000.
Seventrees, Ltd.: *See—*
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Theodore, Paris, 3,777,954.
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Severin, Hans Peter: *See—*
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Severin, Petrus Johannes Wilhelmus, to U.S. Philips Corporation. Method of determining the sheet resistance therefor. 3,735,254, 5-22-73, Cl. 324-64.000.
Severinghaus, John W., to University of California, The Regents of the. Pulmonary impedance bridge. 3,750,649, 8-7-73, Cl. 128-2.10z.
Severini, Febo; Valvassori, Alberto; and Pagliari, Alberto, to Montecatini Edison S.p.A. Polyvinylchloride modified by a graft copolymer of vinyl chloride onto polypentenamer. 3,726,946, 4-10-73, Cl. 260-876.00r.
Severini, Joseph H.: *See—*
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Severns, Richard Ray; Sullivan, James Kirk; and Simmons, Lynn Coulson, to FMC Corporation. Fluidized bed treatment of phosphorus-containing precipitator dust. 3,717,451, 2-20-73, Cl. 71-33.000.
Severo-Kavkazsky neftyanoi nanchno-issledovatelsky: *See—*
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Severs, John W., to Aluminum Company of America. Lubricating tongs. 3,709,549, 1-9-73, Cl. 294-118.000.
Severs, Richard K., to Scientific & Educational Services, Inc. Apparatus for separating particulate matter from a gaseous suspension. 3,742,680, 7-3-73, Cl. 55-103.000.
Seversky Electronatom Corporation: *See—*
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Sevier, Peter E., to Olin Corporation. Float-distributor for direct chill casting. 3,752,217, 8-14-73, Cl. 164-281.000.
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Naegele, Erich O.; Petkovsek, Richard J.; Sekse, Torkjell; and Sevilla, Ernesto G., 3,756,610.
Sevilla, Ernesto G.; and Titus, Robert J., to Cogar Corporation. Display system. 3,729,730, 4-24-73, Cl. 340-324.0ad.
Sewall, Michael: *See—*
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Seward, Thomas P., III: *See—*
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Sewell, Cyrus G. Automatic carton opener. 3,763,557, 10-9-73, Cl. 30-2.000.
Sewell, Graham: *See—*
Boddy, Michael Gordon; Sewell, Graham; and Sewall, Michael, 3,780,328.
Sewell, John M.; Matteson, Lawrence J.; and Ring, Stuart H. System for optically encoding an item and verifying same. 3,742,833, 7-3-73, Cl. 95-12.000.
Sewell, Richard B. H.; and Nelson, Simon P., to R.B.H. Cybernetics (1970) Ltd. Belt for picking up liquids. 3,764,016, 10-9-73, Cl. 210-400.000.
Sewell, Robert G. S.; and Halsey, Carl C., to United States of America, Navy. Apparatus and method for terrain clearance. 3,720,166, 3-13-73, Cl. 102-22.000.
Sewell, Sewood: *See—*
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Sewell, Windell C., 1/3 to Smith, Fred D. and 1/3 to Smith, Robert L. Vise apparatus. 3,758,101, 9-11-73, Cl. 269-254.00r.
Sexstone, John H.; and Grimm, Wolfgang H., to Brown & Williamson Tobacco Corporation. Filter plug forming and bagging machine. 3,731,451, 5-8-73, Cl. 53-23.000.
Sexton, Eugene W., to Total Safe Systems, Inc. Safety cashier's window system and the like. 3,742,872, 7-3-73, Cl. 109-19.000.
Sexton, James H.; Slover, Vasel R., Jr.; Patton, Bobbie J.; and Gravley, Wilton, to Mobil Oil Corporation. Logging-while-drilling tool. 3,770,006, 11-6-73, Cl. 137-499.000.
Sexton, Robert W.; Brooks, Paul L.; and Carey, Jack M., to American Air Filter Company, Inc. Self-sustaining pocket type filter. 3,710,948, 1-16-73, Cl. 210-484.000.
Seyb, Edgar J.; Kalt, Melvyn B.; and Chessin, Hyman, to M & T Chemicals Inc. Anode compositions. 3,755,094, 8-28-73, Cl. 204-51.000.
Seyb, Edgar J., Jr.: *See—*
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Seyberlich, Alfred; Hammann, Ingeborg; and Behrenz, Wolfgang, to Farbenfabriken Bayer Aktiengesellschaft. Indanyl-N-methyl-carbamic acid esters. 3,712,915, 1-23-73, Cl. 260-479.00c.
Seybold, John B.: *See—*
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Seyd, Gunther: *See—*
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Seydelmann, Horst. Vacuum cutter. 3,764,081, 10-9-73, Cl. 241-199.700.
Seyer, Anthony W., to Warner-Lambert Pharmaceutical Company. Blister card package. 3,721,339, 3-20-73, Cl. 206-65.00r.
Seyfarth, Walter A.: *See—*
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Seyferth, Dietmar; and Tronich, Wolfgang, to Massachusetts Institute of Technology. Reaction of phenyl (bromodichloromethyl) mercury and the preparation of perchlorothiirane. 3,717,660, 2-20-73, Cl. 260-327.00e.
Seyferth, Dietmar, to PPG Industries, Inc. Prevention of discoloration in vinylidene chloride. 3,751,495, 8-7-73, Cl. 260-654.00s.
Seyferth, Dietmar; and Hopper, Steven P., to Massachusetts Institute of Technology. Route to organo (trifluoromethyl) mercury compounds. 3,763,203, 10-2-73, Cl. 260-431.000.
Seyfried, Donald N.: *See—*
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Seyfried, Richard F., to Park-Ohio Industries, Inc. Ground detector improvement. 3,745,293, 7-10-73, Cl. 219-10.750.
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Seymour, David J.; and Martin, David. Shallow-draft boat. 3,750,607, 8-7-73, Cl. 114-65.00n.
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Seymour, Paul R., to Container Corporation of America. Moulded container. 3,746,241, 7-17-73, Cl. 229-15.000.
Seymour, Samuel L., to PPG Industries, Inc. Treating glass sheets during shaping and cooling. 3,717,449, 2-20-73, Cl. 65-104.000.
Seymour, Samuel L., to PPG Industries, Inc. Method of supporting glass sheets with tongs for heat treating. 3,730,697, 5-1-73, Cl. 65-105.000.
Seymour, Samuel L., to PPG Industries, Inc. Glass sheet shaping frame. 3,741,743, 6-26-73, Cl. 65-287.000.
Seymour, Samuel L., to PPG Industries, Inc. Method of liquid quenching glass sheets. 3,765,859, 10-16-73, Cl. 65-114.000.
Seymour, Samuel L., to PPG Industries, Inc. Controlling the shape of a sheet of glass during cooling. 3,776,708, 12-4-73, Cl. 65-114.000.
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Sfat, Michael R.; and Morton, Bruce J., to Bio-Technical Resources, Inc. Preparation of an alcoholic beer using a raw cereal grain hydralyzate. 3,711,292, 1-16-73, Cl. 99-31.000.



Sfat, Michael R.; and Morton, Bruce J., to Bio-Technical Resources, Inc. Preparation of low carbohydrate beer. 3,717,471, 2-20-73, Cl. 99-31.000.
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Sha, Richard T.; and Tang, Donald T., to International Business Machines Corporation. Recursive automatic equalizer and method of operation therefore. 3,716,807, 2-13-73, Cl. 333-18.000.
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Shadburn, Whelchel Artis, to Sparton, Management Services, Inc. Pickup truck cab with retractable or removable rear window. 3,770,312, 11-6-73, Cl. 296-28.00c.
Shadd, Daniel; and Haag, Herman, to Universal Telephone, Inc. Remote call back telephone answering apparatus. 3,736,380, 5-29-73, Cl. 179-6.00e.
Shade, Ross A.: *See—*
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Shaffer, Donald U. Corrosion reducing apparatus for a producing oil well or the like. 3,734,181, 5-22-73, Cl. 166-244.000.
Shaffer, Gary W.; Norris, Lester R.; and Hutcheson, William H., to PPG Industries, Inc. Edge-vent detector. 3,726,453, 4-10-73, Cl. 225-2.000.
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Shaffer, John W., to GTE Sylvania Incorporated. Selective actuating mechanism for percussive photoflash lamp array. 3,735,111, 5-22-73, Cl. 240-1.300.
Shaffer, John W., to GTE Sylvania Incorporated. Moisture indicator for photoflash lamp. 3,770,362, 11-6-73, Cl. 431-13.000.
Shaffer, Patrick D., to Binks Manufacturing Company. Electrostatic spray coating apparatus. 3,737,099, 6-5-73, Cl. 239-15.000.
Shaffer, Robert C., to Hitco. Matching the volume shrinkage of organic fibers to that of the resin matrix in carbon or graphite composites. 3,728,423, 4-17-73, Cl. 264-29.000.
Shaffer, S. Ralph, to Arrowhead Engineering Corporation. Multiple groove sheave. 3,722,309, 3-27-73, Cl. 74-230.800.
Shaffer, Samuel Ralph; and Scott, Earl D., to Arrowhead Engineering Corporation. Pulley forming mechanism. 3,712,098, 1-23-73, Cl. 72-71.000.
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Shaffer, Walter M., to Towmotor Corporation. Ultra-narrow-aisle lift truck. 3,762,589, 10-2-73, Cl. 214-730.000.
Shaffer, William E., to Stromberg-Carlson Corporation. Telephone pulsing circuit. 3,715,511, 2-6-73, Cl. 179-16.00e.
Shaffer, William E., to Stromberg-Carlson Corporation. Telephone ring-trip circuit. 3,730,999, 5-1-73, Cl. 179-84.00r.
Shaffer, William E., to Stromberg-Carlson Corporation. Current limiting and resistance monitoring circuit. 3,731,012, 5-1-73, Cl. 179-175.300.
Shaffer, William E., to Stromberg-Carlson Corporation. Telephone ring-trip circuit. 3,748,391, 7-24-73, Cl. 179-84.00r.
Shaffer, William E.; and Krawczyk, Charles C., to Stromberg-Carlson Corporation. Amplifier select and control circuit. 3,781,481, 12-25-73, Cl. 179-16.00f.
Shagoury, Paul B. Bag holder. 3,754,771, 8-28-73, Cl. 280-36.00c.
Shah, Ashok C.: *See—*
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Shah, Indravadan S., to Chemical Construction Corporation. Crystallization of NaCl from Mg $Cl_2$ solution. 3,743,483, 7-3-73, Cl. 23-303.000.
Shah, Indravadan S., to Chemical Construction Corporation. Multistage removal of entrained solids and sulfur dioxide from gas streams. 3,764,654, 10-9-73, Cl. 423-242.000.
Shah, Indravadan S., to Chemical Construction Corporation. Removal of sulfur dioxide from gas streams. 3,775,532, 11-27-73, Cl. 423-242.000.
Shah, Jagdeep Chandravadan, to Bell Telephone Laboratories, Incorporated. Laser with means for suppressing back-ground fluorescence in the output. 3,739,295, 6-12-73, Cl. 331-94.500.
Shah, Jashwant J., to Bigelow-Sanford, Inc. Composite false-twist yarn. 3,744,232, 7-10-73, Cl. 57-140.0by.



Shah, Jashwant J., to Bigelow-Sanford, Inc. Composite false-twist

Shah, Jashwant J., to Bigelow-Sanford, Inc. Composite false-twist yarns, method and apparatus. 3,775,955, 12-4-73, Cl. 57-34.0at.
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Shah, Rajat R.; and Hasselriis, Floyd, to American Hydrotherm Corporation. Heat transfer system for a continuous lead extruder. 3,756,312, 9-4-73, Cl. 165-26.000.
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Shane, Hugh J. S.; Schill, John E.; and Lilley, John W., to Hart Chemical Limited. Defoamer composition. 3,723,342, 3-27-73, Cl. 252-358.000.
Shane, Hugh J. S.; Schill, John E.; and Lilley, John W., to Hart Chemical Limited. Process of production of defoamer compositions. 3,730,907, 5-1-73, Cl. 252-358.000.
Shane, Hugh J. S., to Hart Chemical Limited. Phosphate-free detergent composition. 3,741,911, 6-26-73, Cl. 252-527.000.
Shanefield, Daniel J. Non-crystalline solid compositions exhibiting negative incremental resistance. 3,740,350, 6-19-73, Cl. 252-512.000.
Shang, David Ching-Ting, to International Business Machines Corporation. Semiconductor electroluminescent diode comprising a ternary compound of gallium, thallium, and phosphorous. 3,727,115, 4-10-73, Cl. 317-235.00r.
Shang, Jer-Yu, to Sun Oil Company. Laser controlled chemical reactor. 3,719,454, 3-6-73, Cl. 23-252.00r.
Shank, Charles Vernon: *See—*
Dienes, Andrew; Ippen, Erich Peter; Kogelnik, Herwig Werner; and Shank, Charles Vernon, 3,731,224.
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Shank, Lawton F. Light diffusion assembly for close-up photography. 3,737,226, 6-5-73, Cl. 355-67.000.
Shank, Louis Marcel: *See—*
Gauthier, Joseph Aldege; and Shank, Louis Marcel, 3,775,896.
Shank, Wayne C., to Avco Corporation. Method of securing a threaded element in a high centrifugal force field. 3,718,957, 3-6-73, Cl. 29-156.80c.
Shank, William E., to Landis Tool Company. Carriage positioning device for a grinding machine. 3,763,600, 10-9-73, Cl. 51-105.0sp.
Shankir, Irvin P., to ESB Incorporated. Electromedical stimulator lead connector. 3,757,789, 9-11-73, Cl. 128-404.000.
Shanks, Douglas G.; Seed, Richard E.; and Holmes, Arthur J. Utility device. 3,773,118, 11-20-73, Cl. 173-43.000.
Shankwitz, Robert F.; and Thies, Jerome A., to Caterpillar Tractor Company. Corner construction for loader buckets or the like. 3,736,675, 6-5-73, Cl. 37-141.000.
Shanley, Edward S.; and Doggett, Roger H., to Lubrizol Corporation, The. Composition and method of imparting permanent press and soil release properties to fabrics. 3,717,687, 2-20-73, Cl. 260-851.000.
Shanley, James J., to National Steel Corporation. Open pack heat treatment of metal sheet material using sized particles as spacing means. 3,753,758, 8-21-73, Cl. 117-25.000.
Shanly, Alan L., to Xerox Corporation. Wiper blade cleaning apparatus for xerographic machines. 3,724,019, 4-3-73, Cl. 15-256.530.
Shannahan, Robert Thomas: *See—*
Waxman, Burton Harvey; Shannahan, Robert Thomas; and Viro, Felix, 3,728,116.



Shannon, Bill M.; and Weimer, Charles L., to Westinghouse Electric Corporation. Bus duct with hinged cover for plug-in region. 3,710,302, 1-9-73, Cl. 339-22.00b.
Shannon, Henry D. Modular dispenser for condiments and similar items. 3,767,087, 10-23-73, Cl. 222-144.00s.
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Furlong, Louis E.; Zimmerman, Abraham A.; and Shannon, Hugh F., 3,764,282.
Zimmerman, Abraham A.; Furlong, Louis E.; and Shannon, Hugh F., 3,733,184.
Zimmerman, Abraham A.; Furlong, Louis E.; and Shannon, Hugh F., 3,762,891.
Shannon, John Martin, to U.S. Philips Corporation. Solid state imaging device with FET sensor. 3,721,839, 3-20-73, Cl. 307-304.000.
Shannon, John Martin; and Kerr, John Anthony, to U.S. Philips Corporation. Methods of manufacturing a semiconductor device. 3,730,778, 5-1-73, Cl. 148-1.500.
Shannon, John Martin, to U.S. Philips Corporation. Methods of manufacturing insulated gate field effect transistors. 3,739,237, 6-12-73, Cl. 317-235.000.
Shannon, John Martin, to U.S. Philips Corporation. Methods of manufacturing a semiconductor device. 3,747,203, 7-24-73, Cl. 29-578.000.
Shannon, John Martin, to U.S. Philips Corporation. Methods of manufacturing semiconductor devices. 3,761,319, 9-25-73, Cl. 148-1.500.
Shannon, Joseph A.; Apicella, Anthony M.; and Franks, John T., Jr., to Goodyear Aerospace Corporation. Method of making a plated wire array. 3,771,220, 11-13-73, Cl. 29-604.000.
Shannon, Michael J.; and Sheldon, George C. Structural truss construction with membrane coverings. 3,769,771, 11-6-73, Cl. 52-634.000.
Shannon, Richard F., to Owens-Corning Fiberglas Corporation. High-strength foam material. 3,726,755, 4-10-73, Cl. 161-168.000.
Shannon, Richard F., to Owens-Corning Fiberglas Corporation. Light weight bodies of cotton fiber reinforced hydrous alkaline earth metal silicate thermal insulation material. 3,753,751, 8-21-73, Cl. 106-120.000.
Shannon, Suel Grant; and Graeff, Norwood Claude, to AMP Incorporated. Hemostat. 3,735,763, 5-29-73, Cl. 128-322.000.
Shannon, Thomas D. Tactile communication attachment. 3,780,225, 12-18-73, Cl. 179-2.00a.
Shanok, Jesse P.: *See—*
Shanok, Victor; and Shanok, Jesse P., 3,720,567.
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Shanok, Victor; and Shanok, Jesse P., to Glass Laboratories Company. Light reflective composite molding. 3,720,567, 3-13-73, Cl. 161-5.000.
Shanok, Victor; and Shanok, Jesse P., to Glass Laboratories Company. Magneto-responsive composite molding. 3,730,577, 5-1-73, Cl. 292-251.500.
Shanrorf, Theodore Arthur: *See—*
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Shansey, John W., to Olin Corporation. Safety container for explosive powder. 3,713,360, 1-30-73, Cl. 86-1.000.
Shao, Tzu Fann, to Texas Instruments, Incorporated. Schottky barrier diode. 3,742,317, 6-26-73, Cl. 317-235.00r.
Shaparev, Nikolai Konstantinovich: *See—*
Rashkovich, Mikhail Pavlovich; Kon, Alexandr Ljudvigovich; Shaparev, Nikolai Konstantinovich; Shklovsky, Boris Isaakovich; and Leibovich, Grigory Abramovich, 3,781,619.
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Shape, Norman R.: *See—*
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Shaper, Roger T.; Germann, John E.; and Richardson, Jerry J., to El Patio Products Corporation. Shock resistant gas light. 3,775,608, 11-27-73, Cl. 240-90.000.
Shapero, Maurice: *See—*
Green, Peter Nicholl; and Shapero, Maurice, 3,755,367.
Shapero, Wallace H.; and Cane, Albert, to Mattel, Inc. Marine life storage habitat medium and shipping method. 3,728,988, 4-24-73, Cl. 119-2.000.
Shapiro, Allan: *See—*
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Shapiro, Aron Isaakovich: *See—*
Zhukevich-Stosha, Evgeny Alexandrovich; Verderevsky, Vadim Anatolievich; Cherednichenko, Genrikh Moiseevich; Dobychin, Fedor Nikolaevich; Lakernik, Rafail Moiseevich; Svidovsky, Felix Grigorievich; and Shapiro, Aron Isaakovich, 3,722,249.
Shapiro, D. Morris. Magnetic game board especially for sightless persons. 3,746,343, 7-17-73, Cl. 273-136.00b.
Shapiro, Deborah A.: *See—*
Shapiro, Jeffrey S.; and Shapiro, Deborah A., 3,739,977.
Shapiro, Eliezer Y., to Harris-Intertype Corporation. Character spacing system for phototypesetting. 3,742,825, 7-3-73, Cl. 95-4.500.
Shapiro, Elliot L.: *See—*
Herzog, Hershel L.; Weber, Lois; and Shapiro, Elliot L., 3,740,316.
Shapiro, Elliot L., to Schering Corporation. 4-Azido-17alpha-alkinyl-4-gonen-17beta-ol-3-ones and method for their preparation. 3,780,070, 12-18-73, Cl. 260-349.000.
Shapiro, Elliot L.; Teutsch, George J.; and Herzog, Hershel L., to Schering Corporation. 6-Azido-6-dehydro steroids of the progesterone series, methods for their manufacture and intermediates produced thereby. 3,781,276, 12-25-73, Cl. 260-239.550.
Shapiro, Eugene B.: *See—*
Gore, William C.; and Shapiro, Eugene B., 3,707,733.
Gore, William C.; and Shapiro, Eugene B., 3,709,256.
Gore, William C.; and Shapiro, Eugene B., 3,710,591.
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Shapiro, Hymin: *See—*
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Shapiro, Hymin; and Kobetz, Paul, to Ethyl Corporation. Process for preparing dialkyltin dichloride and an alkyllead chloride coproduct. 3,752,835, 8-14-73, Cl. 260-429.700.
Shapiro, Ilya Samoilovich; Persits, Lev Moiseevich; Tkachev, Mikhail Vasilievich; and Linetsky, Lev Efimovich. Method of control over operating conditions of an apparatus for plasma-arc treatment of articles and an apparatus for plasma-arc treatment. 3,745321, 7-10-73, Cl. 219-121.00p.
Shapiro, Jeffrey S.; and Shapiro, Deborah A. Plastic market bag. 3,739,977, 6-19-73, Cl. 229-55.000.
Shapiro, Jonas M. Remote controlled valve for irrigation systems. 3,707,991, 1-2-73, Cl. 137-625.110.
Shapiro, Jonas M. Automated irrigation system. 3,726,477, 4-10-73, Cl. 239-70.000.
Shapiro, Jonas M.; and Julie, Joel, to Litton Systems, Inc. Hybrid coupler for radio transmitter having parallel output amplifier stages. 3,769,586, 10-30-73, Cl. 325-157.000.
Shapiro, Jonathan S.; Verses, Christ J.; and Karlson, Eskil L., to Pollution Control Industries Inc. Sterilizing and packaging device. 3,719,017, 3-6-73, Cl. 53-21.0fc.
Shapiro, Justin Joel. Magnifying indicator for a burette. 3,762,799, 10-2-73, Cl. 350-116.000.
Shapiro, L. Dennis: *See—*
Galvin, Aaron A.; and Shapiro, L. Dennis, 3,760,400.
Shapiro, Leonard, to Sun Chemical Corporation. Phthalocyanine pigments. 3,713,857, 1-30-73, Cl. 106-288.00q.
Shapiro, Leonard, to Pennwalt Corporation. Basket Centrifuge. 3,779,450, 12-18-73, Cl. 233-21.000.
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Shapiro, Stanley; Goldman, Alan J.; Tyler, Derek E.; and Lanam, Richard D., to Olin Corporation. Process for obtaining copper alloys. 3,712,837, 1-23-73, Cl. 148-11.50e.
Shapiro, Stanley; Goldman, Alan J.; Tyler, Derek E.; and Lanam, Richard D., to Olin Corporation. Copper base alloys. 3,772,092, 11-13-73, Cl. 148-32.500.
Shapiro, Stanley; Goldman, Alan J.; and Tyler, Derek E., to Olin Corporation. Copper base alloys. 3,772,093, 11-13-73, Cl. 148-32.500.
Shapiro, Stanley; Goldman, Alan J.; Tyler, Derek E.; and Lanham, Richard D., to Olin Corporation. Copper base alloys. 3,772,094, 11-13-73, Cl. 148-32.500.
Shapiro, Stanley; Goldman, Alan J.; Tyler, Derek E.; and Lanham, Richard D., to Olin Corporation. Copper base alloys. 3,772,095, 11-13-73, Cl. 148-32.500.
Shapiro, Stanley; Tyler, Derek E.; and Pryor, Michael J., to Olin Corporation. Plated copper base alloy article. 3,778,237, 12-11-73, Cl. 29-199.000.
Shapiro, Stephen, to Becton, Dickinson and Company. Apparatus for chemical testing. 3,713,780, 1-30-73, Cl. 23-259.000.
Shapiro, William A., to Bendix Corporation, The. Digital sun sensor having sub-image resolution. 3,728,715, 4-17-73, Cl. 340-347.00p.
Shapiro, William A., to Bendix Corporation, The. Fill lever measuring device. 3,741,656, 6-26-73, Cl. 356-103.000.
Shapiro, Zalman M., to Nuclear Materials and Equipment Corporation. Method of making a high temperature body of uniform porosity. 3,762,026, 10-2-73, Cl. 29-420.000.
Shapland, Earl P.; and Shapland, James T., to United States Steel Corporation. Reciprocable slidable gate with rotating slide element. 3,764,042, 10-9-73, Cl. 222-1.000.



Shapland, Earle P., Jr., to United States Steel Corporation. Operating mechanisms and method for slidable-gate closures. 3,779,424,



Sharp, Paul H., to Columbia Broadcasting System, Inc. Audio

Shapland, Earle P., Jr., to United States Steel Corporation. Operating mechanisms and method for slidable-gate closures. 3,779,424, 12-18h73, Cl. 222-1.000.

Shapland, James T.: *See—*
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Shapland, James T., to United States Steel Corporation. Mechanism for supporting a submerged pouring tube on a bottom-pour vessel and method of replacing tubes. 3,727,805, 4-17-73, Cl. 222-512.000.

Shapland, James T., to United States Steel Corporation. Rotary gate for bottom pour vessel having removable nozzles. 3,780,916, 12-25-73, Cl. 222-555.000.

Shapland, James Thomas, to United States Steel Corporation. Sliding gate closure assembly for bottom-pour teeming vessels. 3,709,411, 1-9-73, Cl. 222-512.000.

Shapley, Gail C.; Wakatsuki, J.; and Scheffer, William J., to Frick Company. Continuous belt freezer having removable compartments. 3,719,055, 3-6-73, Cl. 62-63.000.

Shapoff, Lloyd M.: *See—*
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Shapovalenko, Alexandr Grigorievich: *See—*
Izhelya, Georgy Ignatievich; Shapovalenko, Alexandr Grigorievich; Shevchenko, Vasily Ivanovich; and Popkov, Vladimir Sergeevich, 3,772,539.

Shappe, James F., to Acme Highway Products Corporation. Strip inserting apparatus. 3,777,353, 12-11-73, Cl. 29-235.000.

Shara, Hiroshi; and Yamakawa, Kiyoshi, to Sony Corporation. Power transformer primary winding fuse arrangement. 3,711,747, 1-16-73, Cl. 317-15.00.

Sharabash, Moustafa M., to Lilly, Eli, and Company. Test apparatus for film-forming materials. 3,747,397, 7-24-73, Cl. 73-64.100.

Sharabash, Moustafa M., to Lilly, Eli, and Company. Test method for film-forming materials. 3,759,089, 9-18-73, Cl. 73-64.100.

Sharaf, Ernest S., to Questor Corporation. Quick release locking mechanism. 3,737,958, 6-12-73, Cl. 24-230.0ak.

Sharaf, Harold M.; and Eby, Richard L., to Anderson Power Products, Inc., mesne. Pulse sampling resistance metering method and means. 3,731,189, 5-1-73, Cl. 324-62.00r.

Sharan, Haredra Nath, to Sulzer Brothers Limited. Heat exchanger. 3,757,746, 9-11-73, Cl. 122-250.00r.

Sharar, Donald R., to Baer Electric Company, Inc. Pipe bender. 3,760,626, 9-25-73, Cl. 72-389.000.

Sharbaugh, Joseph C. Automatic sphere grinder with automatic feeder. 3,739,531, 6-19-73, Cl. 51-105.00r.

Sharer, John M.: *See—*
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Sharf, Keith A., to Controls Research Corporation. Pushbutton switch with coil spring contacts. 3,773,996, 11-20-73, Cl. 200-159.00r.

Sharick, Paul Robert. Tent suspension system. 3,765,060, 10-16-73, Cl. 24-129.00b.

Shariff, Sadig A.: *See—*
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Shark, Sam: *See—*
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Sharki, Martin J.: *See—*
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Griffin, Phil H., III; and Sharki, Martin J., 3,746,102.

Sharki, Martin J.; and Griffin, Phil H., III, to Dresser Industries, Inc. Pneumatic ratemeter and counter. 3,716,707, 2-13-73, Cl. 235-200.000.

Sharkitt, Patrick J.; and Hayden, Richard R., to Sigma Systems, Inc. Error checking code and apparatus for an optical reader. 3,780,271, 12-18-73, Cl. 235-61.11e.

Sharkova, Nina Mikhailovna: *See—*
Barkov, Nikolai Konstantinovich; Kucherova, Natalya Fedorovna; Kochetkov, Nikolai Konstantinovich; Zhukova, Izida Grigorievna; and Sharkova, Nina Mikhailovna, 3,743,740.

Sharman, Lewis Godfrey; and Morris, Richard, to Graseby Instruments Limited. Bonding of polyethylene to metal surfaces. 3,763,298, 10-2-73, Cl. 264-135.000.

Sharman, Richard Arthur: *See—*
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Sharman, Samuel H.: *See—*
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Sharman, Samuel H., to Chevron Research Company. Detergent composition containing hydrogenated alpha olefin sulfonates. 3,720,629, 3-13-73, Cl. 252-535.000.

Sharman, Samuel H.; and Danzik, Mitchell, to Chevron Research Company. High molecular weight polyols. 3,732,313, 5-8-73, Cl. 260-594.000.

Sharman, Samuel H.; House, Ralph; and Anderson, Glen W., to Chevron Research Company. Foam circulation fluids. 3,754,561, 8-28-73, Cl. 137-13.000.

Sharman, Samuel H.; and Danzik, Mitchell, to Chevron Research Company. Linear alkylphenol disulfonate phosphate-free detergent actives. 3,766,254, 10-16-73, Cl. 260-512.00r.

Sharon Manufacturing Company: *See—*
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Sharonoy, Georgy Ivanovich: *See—*
Kutozov, Boris Nikplaevich; Mikheev, Igor Grigorievich; Grigoriev, Vladimir Konntantinovich; Chugunov, Viktor Dmitrievich; Nakinsky, Isaak Emmanuilovich; Trusov, Alexandr Alexandrovich; Sharonoy, Georgy Ivanovich; and Golosov, Viktor Fedorovich, 3,749,186.

Sharp and Company Limited: *See—*
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Sharp Corporation: *See—*
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Takayama, Katuki; Nishida, Koji; and Yamazaki, Hayao, 3,719,398.

Sharp, David E.: *See—*
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Sharp, David L.; and Modeen, Douglas P., to United Aircraft Corporation. Printer/plotter sheet transport with web cutting means. 3,743,413, 7-3-73, Cl. 355-29.000.

Sharp, Denis, to U.S. Philips Corporation. Signal processing circuit. 3,710,186, 1-9-73, Cl. 317-5.000.

Sharp, Denis, to U.S. Philips Corporation. Transistor amplifier and limiter circuits. 3,717,774, 2-20-73, Cl. 307-237.000.

Sharp, Denis, to U.S. Philips Corporation. Electrical circuit arrangements for converting a variable rate of pulse transmission into a related electrical output quantity. 3,723,764, 3-27-73, Cl. 307-233.000.

Sharp, Denis, to U.S. Philips Corporation. Control circuitry for anti-lock brake systems. 3,732,437, 5-8-73, Cl. 307-233.000.

Sharp, Donald Jex: *See—*
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De Angelo, Michael Anthony; and Sharp, Donald Jex, 3,729,389.

Sharp, Donald Jex, to Western Electric Company, Incorporated. Bistable optical device. 3,745,538, 7-10-73, Cl. 340-173.0ch.

Sharp, Donald Jex, to Western Electric Company, Incorporated. Method of irradiating a non-line-of-sight surface of a substrate. 3,746,541, 7-17-73, Cl. 96-38.400.

Sharp, Donald Jex, to Western Electric Company, Incorporated. Method of selectively depositing a metal on a surface of a substrate. 3,775,121, 11-27-73, Cl. 96-38.400.

Sharp, Frank W., Jr., to Offshore Company, The. Underwater anchor structure and method of setting same. 3,745,774, 7-17-73, Cl. 61-46.000.

Sharp, Herbert John; and Humphrey, Victor William Stanley, to GKN Sankey Limited and Aro Plastic Building Supplies Limited. Moulding plastic articles. 3,725,995, 4-10-73, Cl. 29-407.000.

Sharp, Herbert John; and Norrish, Margaret Evelyn, to GKN Sankey Limited. Manufacture of articles. 3,750,450, 8-7-73, Cl. 72-353.000.

Sharp, James E., to Union Special Machine Company. Hem folding attachment. 3,752,100, 8-14-73, Cl. 112-143.000.

Sharp, James G.; and Sharp, David E. Fruit harvester. 3,777,462, 12-11-73, Cl. 56-328.000.

Sharp. James H.: *See—*
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Sharp, James H., to Xerox Corporation. Inhibitor device. 3,713,861, 1-30-73, Cl. 117-15.000.

Sharp, John Alan; Dean, Raymond Ernest; and Fielding, Michael, to Coal Tar Research Association, The. Production of cresols. 3,737,466, 6-5-73, Cl. 260-621.00r.

Sharp, John R., to Polaroid Corporation. Process for manufacturing chromatic color screen. 3,734,737, 5-22-73, Cl. 96-80.000.

Sharp, John R., to Polaroid Corporation. Photographic film handling cassette. 3,756,707, 9-4-73, Cl. 352-130.000.

Sharp, Jonathan E.: *See—*
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Sharp Kabushiki Kaisha: *See—*
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Sharp, Marvin L.: *See—*
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Sharp, Paul H.: *See—*
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Sharp, Paul H., to Columbia Broadcasting System, Inc. Audio responsive intensity modulator fluorescent and like lamps. 3,719,857, 3-6-73, Cl. 315-156.000.

Sharp, Paul H., to Columbia Broadcasting System, Inc. Counterbalanced two speaker rotary tremolo device. 3,781,475, 12-25-73, Cl. 179-1.00j.

Sharp, Richard A.: *See—*
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Sharp, Richard A.; McGrew, Jay L.; Gille, John P.; Mowrey, Eugene C.; and Buskirk, David L., to Martin Marietta Corporation. Method of making capillary insulation panels. 3,767,498, 10-23-73, Cl. 156-94.000.

Sharp, Richard A.; Gille, John P.; and McGrew, Jay L., to Martin Marietta Corporation. Capillary insulation. 3,777,501, 12-11-73, Cl. 62-45.000.

Sharp, Richard S., to Burroughs Corporation. Distributing and collecting memory array and transfer system. 3,763,472, 10-2-73, Cl. 340-172.500.

Sharp, Richard S.; and Birchmeier, Hans P., to Burroughs Corporation. Multiprocessing system having means for permissive coupling of different subsystems. 3,768,074, 10-23-73, Cl. 340-172.500.

Sharp, Sandra. Display device. 3,718,260, 2-27-73, Cl. 211-13.000.

Sharp, Stanley Gordon: *See—*
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Sharp, Theo F., to Reliance Electric Company. Speed reducer. 3,715,932, 2-13-73, Cl. 74-42.00s.

Sharp, Thomas H. Adjustable wrench. 3,745,862, 7-17-73, Cl. 81-147.000.

Sharp, William L., Jr. Apparatus and method for controlling an electrical power circuit. 3,737,685, 6-5-73, Cl. 250-83.3uv.

Sharp, William T., to General Electric Company. Jackscrew type of racking mechanism for a movable switchgear unit. 3,710,044, 1-9-73, Cl. 200-50.0aa.

Sharp, William T., to General Electric Company. Vacuum type circuit breaker comprising series-connected vacuum interrupters, individual ones of which are readily removable and replaceable. 3,780,354, 12-18-73, Cl. 317-103.000.

Sharpe, Andrew Jackson, Jr.: *See—*
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Gordon, Robert Cornelius, Jr.; Walker, Jerry Lee; Sharpe, Andrew Jackson, Jr.; and Boothe, Jerry Emile, 3,752,760.
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Sharpe, Cecil H., to General Motors Corporation. Liquid fuel spray nozzles with air atomization. 3,713,588, 1-30-73, Cl. 239-400.000.

Sharpe, Cecil H., to General Motors Corporation. Contaminant separation. 3,718,258, 2-27-73, Cl. 210-98.000.

Sharpe, Cecil H., to General Motors Corporation. Method for burning contaminated fuel. 3,762,855, 10-2-73, Cl. 431-2.000.

Sharpe, John E., to Wilkinson Sword Limited. Clinical blood pressure measuring apparatus. 3,741,199, 6-26-73, Cl. 128-2.05m.

Sharpe, John William, to Lucas, Joseph, (Industries), Limited. Anchorage devices. 3,737,182, 6-5-73, Cl. 287-86.000.

Sharpe, Louis E.: *See—*
Narodny, Leo; and Sharpe, Louis E., 3,721,498.

Sharpe, Raymond; and Hunt, Peter, to Rotax Limited. Fluid cooled dynamo electric machine. 3,774,060, 11-20-73, Cl. 310-61.000.

Sharpe, Robert E.: *See—*
McCoy, Larry G.; and Sharpe, Robert E., 3,772,061.

Sharpe, Thomas H. Self-starting air flow inducing reaction motor. 3,750,400, 8-7-73, Cl. 60-269.000.

Sharpe, Verlos G., to General Motors Corporation. Method for sanitizing a domestic clothes washer. 3,770,376, 11-6-73, Cl. 8-158.000.

Sharples, Kenneth R. Analog to digital converter. 3,747,089, 7-17-73, Cl. 340-347.0nt.

Sharples, Thomas D., to Beckman Instruments, Inc. Resilient switch bearing. 3,767,881, 10-23-73, Cl. 200-172.00a.

Sharpless, Edward N., to Liquid Crystal Industries, Inc. Variable color display device and projection means therefor. 3,768,886, 10-30-73, Cl. 350-160.01c.

Sharpless, Graham Trevor, to U.S. Philips Corporation. Electrical display devices. 3,747,073, 7-17-73, Cl. 340-172.500.

Sharpless, Samuel H. Bowling lane vacuum cleaner. 3,729,769, 5-1-73, Cl. 15-347.000.

Sharpless, Samuel H. Sanding machine. 3,744,188, 7-10-73, Cl. 51-174.000.

Sharps Associates: *See—*
Harris, Louis Selig; Pars, Harry George; and Razdan, Raj Kumar, 3,777,028.

Sharrod, Derrick: *See—*
Schaffer, Rupert E.; Moseley, John C.; and Sharrod, Derrick, 3,734,799.

Sharrow, John A.: *See—*
Sawicki, Joseph J.; and Sharrow, John A., 3,750,176.

Shartrand, Allan C.: *See—*
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Shartrand, Allan C., to General Electric Company. Reverse flow cooling system for a dynamoelectric machine. 3,739,208, 6-12-73, Cl. 310-58.000.

Shashin Shokujiki Kenkyusho Co., Ltd.: *See—*
Ishii, Kiyoshi, 3,726,193.

Shasta Beverages; division of Consolidated Food Corporation: *See—*
Karr, Fred A., 3,734,850.
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Shatalova, Alla Nikolaevna: *See—*
Khcheian, Khachik Egorovich; Revenko, Olga Mikhailovna; Shatalova, Alla Nikolaevna; and Gelperina, Eleonora Grigorievna, 3,751,443.

Shatas, Romas A.: *See—*
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Shatas, Romas A.; Roberts, Thomas G.; Stettler, John D.; and Meyer, Harry C., III. Soft X-ray generator assisted by laser. 3,746,860, 7-17-73, Cl. 250-84.000.

Shatas, Romas A.; Meyer, Harry C., III.; Stettler, John D.; and Roberts, Thomas G. Neutron generator axially assisted by laser. 3,748,475, 7-24-73, Cl. 250-502.000.

Shatila, Mounir A.: *See—*
Beck, Roderick; Harmon, James F.; Shatila, Mounir A.; Richins, David A.; and Lach, John, 3,764,345.

Shatila, Mounir A., to American Potato Company. Fabricated onion ring with dehydrated potato shell. 3,761,282, 9-25-73, Cl. 99-100.00p.

Shattes, Walter J.: *See—*
Gregory, Eric; Marancik, William G.; and Shattes, Walter J., 3,749,547.

Shattes, Walter J.; Marancik, William G.; and Kirk, Bradley S., to Air Reduction Company, Incorporated. Cryogenic system including variations of hollow superconducting wire. 3,708,606, 1-2-73, Cl. 174-15.00c.

Shattes, Walter J.; and Marancik, william G., to Air Reduction Company, Incorporated. Hybrid superconducting material. 3,710,000, 1-9-73, Cl. 174-15.00c.

Shattles, Henry S.: *See—*
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Shatto, Howard L., Jr.; and Van Dommelen, Johannes A. W. J., to Shell Oil Company. Displaceable guide funnel for submerged wellheads. 3,744,561, 7-10-73, Cl. 166-.500.

Shattuck, Donald P.; and Harnden, John D., Jr., to General Electric Company. Spark-suppressing brush-brush holder assembly for rotating machines and sliding contacts. 3,742,272, 6-26-73, Cl. 310-220.000.

Shattuck, Meredith D.: *See—*
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Shatz, Malcolm H.: *See—*
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Shatzkes, Morris: *See—*
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Shatzkin, Leonard: *See—*
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Heller, William C., Jr.; and Shatzkin, Leonard, 3,730,806.

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Shaufus, Charles P.; Rose, Robert E.; and Rising, Donald B., to Millipore Corporation. Method and apparatus for collecting and growing micro-organisms. 3,741,877, 6-26-73, Cl. 195-127.000.

Shaughnessy, Ernest P., to Prentice, E. V., Co. Brake mechanism for a reciprocating blade. 3,727,505, 4-17-73, Cl. 83-526.000.

Shaughnessy, James J., to Tenneco, Inc. Dual outlet exhaust system. 3,739,873, 6-19-73, Cl. 181-36.00b.

Shavel, Johh, Jr.: *See—*
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Shavel, John, Jr.: *See—*
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Shavely, Carol J.: *See—*
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Shaw, Harold N., to Beatrice Foods Co. Steam cooking apparatus and method. 3,744,474, 7-10-73, Cl. 126-20.000.

Shavely, Carol J.: *See—*
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Shaver, David M., to GTE Automatic Electric Laboratories, Incorporated. Status detector and memory arrangement. 3,772,663, 11-13-73, Cl. 340-174.00m.

Shaver, Donald E.: *See—*
Minich, Paul R., Jr.; and Shaver, Donald E., 3,720,226.

Shaver, Everett E. Gauging method and apparatus for diesel injector nozzles. 3,716,922, 2-20-73, Cl. 33-181.00r.

Shaver, Marvin Bruce, to Dominion Engineering Works, Limited. Segmented gearing. 3,742,779, 7-3-73, Cl. 74-448.000.

Shaver, Robert G., to Atlantic Research Corporation. Nitrocellulose propellent compositions containing inorganic oxidizing agents with aluminum. 3,779,826, 12-18-73, Cl. 149-20.000.

Shaver, William R.: *See—*
Miller, Roy W.; and Shaver, William R., 3,756,164.
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Mundinger, William D.; and Shaver, William R., 3,761,135.
Nagy, Ernest J.; and Shaver, William R., 3,712,249.

Shaver, William R.; and Nagy, Ernest J., to Pullman Incorporated. Water drain structure for railway car door arrangement. 3,768,422, 10-30-73, Cl. 105-409.000.

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Zorev, Nikolai Nikolaevich; Chernykh, Viktor Vasilievich; Stanislavsky, Lazar Yankelevich; Timofeev, Mikhail Mikhailovich; Kudryavtsev, Ivan Vasilievich; Isaev, Alexei Ilich; Grinchenko, Nikolai Grigorievich; Spivak, Boris Volkovich; Belov, Vladimir Alexanrovich; Kozik, Adolf Efimovich; Shavrin, Adolf Ivanovich; and Sobolev, Jury Vasilievich, 3,780,428.

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Shaw, Arthur, Manufacturing Limited: *See—*
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Shaw, Barney Pirofsky. Safety chassis. 3,743,347, 7-3-73, Cl. 296-35.00r.

Shaw, Benjamin W.: *See—*
Hassell, Howard L.; Watson, James C.; and Shaw, Benjamin W., 3,780,138.

Shaw, Charles R., to Preformed Line Products Company. Conductor breakout. 3,749,816, 7-31-73, Cl. 174-70.00r.

Shaw, Clarence W.; and Smith, George R., said Smith assor. to Durant, Donald W. Corrosion preventing apparatus and method. 3,719,049, 3-6-73, Cl. 61-54.000.

Shaw, Clarence W., to McDermott, J. Ray, & Co. Submarine pipeline laying apparatus. 3,727,417, 4-17-73, Cl. 61-72.300.

Shaw, Clarence W., to McDermott, Ray J., & Co., Inc. Apparatus for laying submarine pipelines. 3,775,985, 12-4-73, Cl. 601-72.100.

Shaw, Clifford D. Front axle beam press. 3,776,019, 12-4-73, Cl. 72-404.000.

Shaw, Clyde C., to Coulter Electronics, Inc., mesne. Liquid borne particle sensing method using aerosolizing techniques. 3,765,771, 10-16-73, Cl. 356-103.000.

Shaw, D. William. Solid state thyratron. 3,770,989, 11-6-73, Cl. 307-305.000.

Shaw, Daniel G.: *See—*
Slator, Damon T.; and Shaw, Daniel G., 3,744,356.

Shaw, Elliott N., to Polaroid Corporation. Photographic element comprising a gelatin aqueous composition containing a halomethyl ketone of benzyloxycarbonylphenylalanine. 3,778,276, 12-11-73, Cl. 96-94.00r.

Shaw, Frank D., to American Smelting and Refining Company. Electrical current measurement and rapidly locating and positively identifying cathodes having abnormal electrical conditions associated therewith in an electrolytic copper refining process tankhoue. 3,753,104, 8-14-73, Cl. 324-114.000.

Shaw, Frank Derek: *See—*
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Shaw, Fred D., Jr. Trimerized crude isocyanate mixtures and polyurethane foams prepared from same. 3,723,363, 3-27-73, Cl. 260-2.5aw.

Shaw, Garrett D., to TRW Inc. Triaxial compression test apparatus. 3,728,895, 4-24-73, Cl. 73-94.000.

Shaw, Geoffrey T.; and Parsons, Basil I., to Canadian Patents and Development Limited. Preparation of highly porous alumina. 3,743,709, 7-3-73, Cl. 423-628.000.

Shaw, Gilbert, to Shaw, Gilbert, Limited. Method and apparatus for reducing atmospheric pollution. 3,732,695, 5-15-73, Cl. 60-274.000.

Shaw, Gilbert, Limited: *See—*
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Shaw, Graham C.: *See—*
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Shaw, Harold N., to Beatrice Foods Co. Steam cooking apparatus and method. 3,744,474, 7-10-73, Cl. 126-20.000.

Shaw, Harry: *See—*
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Shaw, Harry D.; and Strausbaugh, George E. Gas cleaning system. 3,753,337, 8-21-73, Cl. 55-233.000.

Shaw, Harry N., to Golconda Corporation. Single cycle filler and dispensing valve. 3,756,277, 9-4-73, Cl. 137-614.200.

Shaw, Irving F.: *See—*
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Shaw, Jeffery Isaac, to Lucas, Joseph, (Industries) Limited. Wiring arrangement. 3,755,717, 8-28-73, Cl. 317-101.00f.

Shaw, Joseph D. Programmed dispenser. 3,744,867, 7-10-73, Cl. 312-234.000.

Shaw, Joseph Denman. Programmed dispensers. 3,752,359, 8-14-73, Cl. 221-5.000.

Shaw, Joseph Denman. Sterile packages for fragile articles. 3,774,454, 11-27-73, Cl. 73-444.000.

Shaw, Joseph Michael: *See—*
Norris, Peter Edward; and Shaw, Joseph Michael, 3,766,637.

Shaw, Joseph Michael, to RCA Corporation. Semiconductor device or monolithic integrated circuit with tungsten interconnections. 3,714,521, 1-30-73, Cl. 317-234.00r.

Shaw, Kernal G.: *See—*
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Shaw, Lawrence M., to Lyon-Shaw, Incorporated. Strap fastening arrangement. 3,751,110, 8-7-73, Cl. 297-452.000.

Shaw, Manuel; and Perkins, Wayne E., to Environmetrics Inc. Electrochemical gas analyzer. 3,755,125, 8-28-73, Cl. 204-195.00p.

Shaw, Milton C. Grinding wheel. 3,772,831, 11-20-73, Cl. 51-206.00r.

Shaw, Milton C. Segmented griding wheel. 3,777,443, 12-11-73, Cl. 51-206.500.

Shaw, Noel S. Hydrostatic-mechanical transmission. 3,741,040, 6-26-73, Cl. 74-794.000.

Shaw, Philip E.; Daum, Sol J.; and Clarke, Robert L., to Sterling Drug Inc. Polyhydrophenanthrene derivatives. 3,755,361, 8-28-73, Cl. 260-327.000.

Shaw Pipe Industries, Ltd.: *See—*
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Shaw, Reginald O.: *See—*
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Shaw, Richard Dudley. Compacting refractory particles having a surface coating of gelled silica. 3,778,493, 12-11-73, Cl. 264-63.000.

Shaw, Richard Gregg; and Byck, Joseph Sylvan, to Union Carbide Corporation. Fluid transfer membrane use thereof and method of manufacture therefor. 3,764,018, 10-9-73, Cl. 210-500.000.

Shaw, Richard H., to United Aircraft Corporation. Method of making an electrode for electrochemical milling. 3,708,404, 1-2-73, Cl. 204-16.000.

Shaw, Richard H., to United Aircraft Corporation. Replaceable tool for electrochemical drilling. 3,767,555, 10-23-73, Cl. 204-224.00m.

Shaw, Richard Horace, to United Aircraft Corporation. Electrode for electrochemical drilling. 3,714,018, 1-30-73, Cl. 204-284.000.

Shaw, Robert B., to Shell Oil Company. Cold extrusion process. 3,714,320, 1-30-73, Cl. 264-323.000.

Shaw, Robert F.: *See—*
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Shaw, Robert F. Surgical cutting instrument having electrically heated cutting edge. 3,768,482, 10-30-73, Cl. 128-303.001.

Shaw, Robert H. Transporting and launching arrangements for amphibious campers. 3,744,070, 7-10-73, Cl. 9-1.00t.

Shaw, Robert H. Amphibious camper. 3,758,897, 9-18-73, Cl. 9-1.00r.

Shaw, Robert L.: *See—*
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Shaw, Robert R.: *See—*
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Shaw, Robert R.; and Robinson, Charles C., to American Optical Corporation. Neodymium glass laser having room temperature output at wavelengths shorter than 1060 NM. 3,714,059, 1-30-73, Cl. 252-301.40f.

Shaw, Robert R.; and Uhlmann, Donald R., to American Optical Corporation. Neodymium glass laser having room temperature output at wavelengths shorter than 1060 NM. 3,717,583, 2-20-73, Cl. 252-301.40f.

Shaw, Robert T.: *See—*
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Shaw, Thomas E.: *See—*
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Shaw-Walker Company, The: *See—*
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Shawcroft, John B. Apparatus for handling baled hay. 3,715,045, 2-6-73, Cl. 214-655.000.

Shawcross, George A.; Shawcross, Ian; and Shawcross, Kevin. Impact fire protective switch for motor vehicles. 3,745,277, 7-10-73, Cl. 200-61.500.

Shawcross, Ian: *See—*
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Shawcross, Kevin: *See—*
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Shawgo, Michael: *See—*
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Shawhan, Elbert N., to Sun Oil Company. Elevation angle indicator. 3,766,658, 10-23-73, Cl. 33-366.000.

Shay, Anthony Joseph: *See—*
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Wakeman, Reginald L.; Shay, Edward G.; and Petrocci, Alfonso N., 3,733,420.

Shay, Edward G.; Wakeman, Reginald L.; and Petrocci, Alfonso N., to Millmaster Onyx Corporation. Biocidal unsymmetrical di-higher alkyl dimethyl ammonium compounds. 3,730,702, 5-1-73, Cl. 71-67.000.

Shay, Edward Griffin: *See—*
Merianos, John J.; Shay, Edward Griffin; Adams, Phillip; and Petrocci, Alfonso N., 3,733,421.
Merianos, John J.; Shay, Edward Griffin; Adams, Phillip; and Petrocci, Alfonso N., 3,755,448.
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Shay, Edward Griffin; Wakeman, Reginald L.; and Petrocci, Alfonso N., to Millmaster Onyx Corporation. Biocidal unsymmetrical di-higher alkyl dimethyl ammonium compounds. 3,754,033, 8-21-73, Cl. 260-567.60m.

Shay, Joseph John, to Scovill Manufacturing Company. Childproof actuator for aerosol valve. 3,721,423, 3-20-73, Cl. 251-100.000.

Shay, Joseph Leo: *See—*
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Kasper, Horst Manfred; Shay, Joseph Leo; and Tell, Benjamin, 3,767,471.

Shayman, Harry I. Decorative acoustical panel. 3,765,141, 10-16-73, Cl. 52-475.000.

Shea, Daniel Joseph: *See—*
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Shea, Dennis W.; and Stoneman, William C., to Dana Corporation. Speed changing transmission. 3,727,484, 4-17-73, Cl. 74-768.000.

Shea, Dennis W.; and Stoneman, William C., to Dana Corporation. Speed changing transmissions. 3,766,805, 10-23-73, Cl. 74-768.000.

Shea, Frank M., to Avco Corporation. Fragmentation wrap for explosive weapons. 3,757,693, 9-11-73, Cl. 102-67.000.

Shea, Frederick L.: *See—*
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Shea, Gerald J.: *See—*
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Shea, Gerald J.; and Marach, David R., to Underwriters Safety Device Co. Multi-lamp assembly. 3,710,090, 1-9-73, Cl. 240-2.00r.

Shea, Gerald J., to Underwriters Safety Device Co. Method of making an electrical assembly fastened with thermoplastic eyelet. 3,754,310, 8-28-73, Cl. 29-25.420.

Shea, James M.; Thorsby, Claude A.; and Westercamp, Kenneth L., to General Motors Corporation. Oleo-pneumatic suspension assembly. 3,752,498, 8-14-73, Cl. 280-124.00f.

Shea, John J., Jr., to Richards Manufacturing Company, Inc. Prosthesis for the inner ear. 3,711,869, 1-23-73, Cl. 3-1.000.

Shea, Michael D.: *See—*
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Shea, Michael D., to Eastman Kodak Company. 1-Substituted-2-indoline hydrazone photoconductors. 3,765,884, 10-16-73, Cl. 96-1.600.

Shea, Raymond E.: *See—*
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Sheaffer, Victor Earl: *See—*
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Sheahan, Desmond F.; and Callander, George C., to GTE Automatic Electric Laboratories Incorporated. Crystal filter assembly. 3,723,920, 3-27-73, Cl. 333-72.000.

Sheahan, Robert E.; and Plumb, Frank J., to J-B-T Instruments, Inc. Safety reversing switch. 3,731,023, 5-1-73, Cl. 200-78.000.

Sheahon, John A. Neonatal wrap. 3,739,399, 6-19-73, Cl. 2-69.500.

Shealy, Alexander N. Expanded self-damping electrical conductor. 3,749,813, 7-31-73, Cl. 174-42.000.

Shealy, Noah A.: *See—*
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Shealy, Noah A., to Clark Equipment Company. Limited-slip type differential with adjusting means. 3,742,783, 7-3-73, Cl. 74-710.500.

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Shear, Herbert J., Jr. Core wrapping machine. 3,739,563, 6-19-73, Cl. 57-15.000.

Shear, Wayne G.; and Olmstead, Merlin E., to Bendix Corporation, The. Frequency diversity time multiplex means for increasing the capacity of a cooperative collision avoidance system. 3,757,339, 9-4-73, Cl. 343-112.0ca.

Shear, Wayne G.; Spratt, Brendan J.; and McClure, Benton J., to Bendix Corporation, The. Collision avoidance system ground station synchronization. 3,781,803, 12-25-73, Cl. 340-147.0sy.

Sheard, John Leo, to Du Pont de Nemours, E. I., and Company. Capacitor with copper containing electrode. 3,763,409, 10-2-73, Cl. 317-258.000.

Shearer, Harry Douglas: *See—*
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Shearer, Robert B., to Persson Engineering Company. Single revolution clutch. 3,710,903, 1-16-73, Cl. 192-28.000.

Shearing, Herbert Jackson, to Imperial Chemical Industries Limited. Hydraulic cement with polyisocynate and aliphatic polycpoxide. 3,763,070, 10-2-73, Cl. 260-29.2jn.

Shearing, Herbert Jackson, to Imperial Chemical Industries Limited. Decorative flooring surfaces. 3,772,051, 11-13-73, Cl. 117-9.000.

Shearing, Herbert Jackson, to Imperial Chemical Industries Limited. Decorative flooring surfaces. 3,778,290, 12-11-73, Cl. 117-8.000.

Shearman, Paul M., to Metalized Ceramics Corporation. Laminated coil. 3,731,005, 5-1-73, Cl. 179-100.20c.

Shearon, Michael Hillas: *See—*
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Shears, Franklin J.: *See—*
Brandt, Maurice W.; and Shears, Franklin J., 3,721,018.

Shears, Stuart T., to TRW Inc. Security clip. 3,744,691, 7-10-73, Cl. 225-84.000.

Shearwood, Raymond S., to Nash Engineering Company. Adjustable construction for mating surfaces of the rotor and port member of a liquid ring pump. 3,712,764, 1-23-73, Cl. 418-68.000.

Sheasby, Raymond: *See—*
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Sheckells, Amuel E., to International Steel Company. Collapsible revolving door having removable wings. 3,762,098, 10-2-73, Cl. 49-44.000.

Sheckells, Amuel E., to International Steel Company. Revolving door operating and speed control mechanism. 3,766,686, 10-23-73, Cl. 49-43.000.

Sheedy, Patrick T.: *See—*
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Sheehan, Desmond, to American Cyanamid Company. Bis (acid halide) dihydroanthracenes. 3,732,297, 5-8-73, Cl. 260-544.00m.

Sheehan, Elizabeth R., to Lee, Raymond, Organization, Inc., The. Stand for supporting guitar. 3,737,137, 6-5-73, Cl. 248-441.000.

Sheehan, Gerard Martin: *See—*
Coon, Arthur Delbert; Sheehan, Gerard Martin; and Dupree, Paul Montgomery, 3,761,298.

Sheehan, Gerard Martin; Roberts, George Leathwhite, Jr.; and Dupree, Paul Montgomery, to American Cyanamid Company. $TiO_2$ pigments. 3,769,255, 10-30-73, Cl. 260-41.00a.

Sheehan, John Robert: *See—*
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Sherratt, Jack, to Mihalcheon, Arthur. Powered grass raking device. 3,753,338, 8-21-73, Cl. 56-17.500.
Sherratt, Jack, to Mihalcheon, Arthur. Method of dislodging dead grass from a lawn. 3,774,378, 11-27-73, Cl. 56-1.000.
Sherrick, George T.; and Seelinger, William E. Safety alarm assembly for swimming pools and the like. 3,707,940, 1-2-73, Cl. 116-67.000.
Sherrill, Ernest Kohn; and Taylor, John Paul, to Fieldcrest Mills, Inc. Terry towel having enhanced brilliance. 3,721,273, 3-20-73, Cl. 139-396.000.
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Shiba, Keisuke; and Sato, Akira, to Fuji Photo Film Co., Ltd. Silver halide supersensitized photographic emulsion. 3,718,475, 2-27-73, Cl. 96-124.000.
Shiba, Keisuke; Hinata, Masanao; Yamasue, Koutaro; and Kondo, Tokiharu, to Fuji Photo Film Co., Ltd. Fogged, direct positive silver halide emulsions containing hydroxyphthalein dyes and sulfonated compounds. 3,725,074, 4-3-73, Cl. 96-122.000.
Shiba, Keisuke; Hinata, Masanao; Yoshida, Makoto; Imai, Shinichi; Sato, Akira; and Shigeru, Kanagawa, to Fuji Photo Film Co., Ltd. Photographic light-sensitive material suitable for silver-dye bleaching method. 3,728,125, 4-17-73, Cl. 96-99.000.
Shiba, Keisuke; Takei, Haruo; and Sato, Akira, to Fuji Photo Film Co., Ltd. Spectrally sensitized silver halide photographic emulsion. 3,769,026, 10-30-73, Cl. 96-126.000.



Shiba, Keisuke; Takei, Haruo; Sato, Akira; and Ikeda, Tadashi, to Fuji Photo Film Co., Ltd. Spectrally sensitized silver halide photographic emulsion. 3,770,449, 11-6-73, Cl. 96-124.000.
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Shibano, Yoshizo; Hatano, Tetsuo; Omkura, Toshikiko; and Yamashita, Shohachiro, to Sumitomo Electric Industries, Ltd. Radome. 3,774,224, 11-20-73, Cl. 343-872.000.
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Shibata, Fukuo. Arrangement for transmitting mechanical power from a driving machine to a load. 3,728,600, 4-17-73, Cl. 318-197.000.
Shibata, Fukuo, to Kawasaki Jukogyo Kabushiki Kaisha. Exciting method of electric machine combining electromagnetic coupling with electric rotating machine. 3,754,174, 8-21-73, Cl. 318-9.000.
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Shishkina, Irina Mikhailovna: *See—*
Stepanov, Gennady Arkadievich; Bushin, Alexandr Nikitich; Turian, Yakov Iosifovich; Kirnos, Yakov Yakovlevich; Kolobikhin, Valentin Alexandrovich; Baranova, Pavla Sergeevna; Sherashov, Vadim; Rastvorov, Jury Nikolaevich; Emelyanova, Elena Nikolaevna; and Sishkina, Irina Mikhailovna, 3,726,937.
Shisler, Donald Eugene, to Johns-Manville Corporation. Apparatus for generating high energy gaseous blast. 3,736,094, 5-29-73, Cl. 431-158.000.
Shisler, William W. Tobacco smoking and smoke processing device. 3,741,221, 6-26-73, Cl. 131-210.000.
Shitikov, Valentin Kuzmich: *See—*
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Shiu, Desmond K. Physiotherapeutic devices and methods. 3,750,654, 8-7-73, Cl. 128-57.000.
Shivak, Robert A., to Cajon Company. High vacuum flange assembly with O-ring gasket. 3,747,963, 7-24-73, Cl. 285-336.000.
Shivell, Philip J. Check strap assembly. 3,763,898, 10-9-73, Cl. 139-161.00s.
Shively Bros., Inc.: *See—*
Fierstine, Burton A., 3,761,206.
Shively, Harmon G.; and Landsness, Clifford A., to Goodrich, B. F., Company, The. Method for correcting non-uniformity in a rotating tire. 3,754,358, 8-28-73, Cl. 51-324.000.
Shivers, William E. Cattle guards. 3,719,004, 3-6-73, Cl. 49-131.000.
Shivvers, Charles C. Apparatus for circulating grain stored in a circular bin. 3,765,547, 10-16-73, Cl. 214-17.0da.
Shivvers, Charles C. Sweep auger structure. 3,765,548, 10-16-73, Cl. 214-17.0da.
Shizuoka Match Co., Ltd.: *See—*
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Shkiro, Valentin Mikhailovich: *See—*
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Shlesinger, Bernard Edward, Jr. Magnetically actuated reed switch assembly. 3,720,895, 3-13-73, Cl. 335-205.000.
Shlesinger, Bernard Edward, Jr. Magnetically actuated reed switch assembly. 3,760,312, 9-18-73, Cl. 335-205.000.
Shlosinger, Arnold P., to TRW Inc. Heat pipe with dual working fluids. 3,777,811, 12-11-73, Cl. 165-105.000.
Shmigalsky, Ladimir Nikiforovich: *See—*
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Shoberg, Ralph S., to GSE, Incorporated. Load cell. 3,771,359, 11-13-73, Cl. 73-141.00a.



Shockley, Phillip B. Dual action gardening implement. 3,750,760, 8-7-73, Cl. 172-374.000.
Shockley, Phillip R. Knot tying device. 3,712,651, 1-23-73, Cl. 289-17.000.
Shockley, Quentin O.: *See—*
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Shoe, Theodore W., to Flexicore Co., Inc., The. Apparatus for stripping slab casting forms. 3,770,360, 11-6-73, Cl. 425-440.000.
Shoe, Theodore William, to Flexicore Co., Inc., The. Composite form. 3,767,154, 10-23-73, Cl. 249-50.000.
Shoei Chemical Industries Co., Ltd.: *See—*
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Shoeld, Mark. Spiral electrode storage battery with improved electrode assembly construction and method of making. 3,734,779, 5-22-73, Cl. 136-13.000.
Shoemaker, Arthur M., to American Optical Corporation. Oil immersion type microscope objective. 3,746,428, 7-17-73, Cl. 350-214.000.
Shoemaker, Carlyle E., to Bethlehem Steel Corporation. Method for preventing the formation of rust on the surface of coiled steel strip and an inhibitor for accomplishing same. 3,779,818, 12-18-73, Cl. 148-6.14r.
Shoemaker, Harold D.: *See—*
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Shoemaker, James C.: *See—*
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Shoemaker, James C., to Symons Corporation. Self-contained waler clamp for concrete wall form. 3,724,806, 4-3-73, Cl. 249-219.00w.
Shoemaker, James C., to Symons Corporation. Adjustable bulkhead for a concrete wall form. 3,731,902, 5-8-73, Cl. 249-210.000.
Shoemaker, John D.; and Riley, Kenneth L., to Esso Research and Engineering Company. Water injection between catalyst beds in hydrodesulfurization of residuium feed. 3,753,894, 8-21-73, Cl. 208-216.000.
Shoemaker, John D., Jr.: *See—*
Riley, Kenneth L.; and Shoemaker, John D., Jr., 3,720,602.
Shoemaker, John R., to Goodyear Aerospace Corporation. Electron image data processing apparatus. 3,751,705, 8-7-73, Cl. 315-11.000.
Shoemaker, John Robert: *See—*
Long, Robert Alvin; Over, William Roderick; Roberts, Lincoln Edwin; and Shoemaker, John Robert, 3,758,935.
Shoemaker, Leon H., to National Mine Service Company. Dual braking system for a mining locomotive. 3,750,852, 8-7-73, Cl. 188-107.000.
Shoemaker, Richard E. Integrated method and apparatus for continuous passenger or freight transport. 3,734,025, 5-22-73, Cl. 104-88.000.
Shoemaker, Richard L.: *See—*
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Shoemaker, Robert H.; and Faler, John A., to Kolene Corporation. Aluminum shield for a roll in continuous strip apparatus. 3,714,016, 1-30-73, Cl. 204-211.000.
Shoemaker, William B., Jr. Method and apparatus for locating and measuring wave guide discontinuities. 3,753,086, 8-14-73, Cl. 324-52.000.
Shoesmith, Terry: *See—*
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Shoffner, James P., to Fluorodynamics, Inc. Securing and/or forming of coverings and the like of tetrafluorinated ethylene and fluorinated ethylene polymers. 3,749,621, 7-31-73, Cl. 156-86.000.
Shoffner, James P., to Universal Oil Products Company. Rubber formulation. 3,773,717, 11-20-73, Cl. 260-45.90r.
Shoh, Andrew, to Branson Instruments, Incorporated. Vibratory welding apparatus. 3,752,380, 8-14-73, Cl. 228-1.000.
Shohet, Juda L.; and Greene, David G. S., to United States of America, Atomic Energy Commission. Method and means for measuring the anisotropy of a plasma in a magnetic field. 3,767,929, 10-23-73, Cl. 250-366.000.
Shoikhet, Anna Berkovna: *See—*
Nametkin, Nikolai Sergeevich; Durgarian, Sergei Garievich; Kopkov, Vadim Ivanovich; Khotimsky, Valery Samuilovich; Bryantseva, Irina Sergeevna; Petrov, Gennady Nikolaevich; Tolstopyatov, Gennady Mikhailovich; Stadnichuk, Tatyana Validimirovna; Kornilova, Ttyana Alexeevna; and Shoikhet, Anna Berkovna, 3,769,266.
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Shokite, Richard J.: *See—*
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Sholk, Semen Fedorovich; Svidler, Jury Ruvimovich; Seleznev, Viktor Petrovich; and Komova, Zinaida Petrovna. Apparatus for continuous melting loose products. 3,773,030, 11-20-73, Cl. 126-343.50a.
Sholl, Arthur F.; Wolfe, Donald L.; and Benitez, Armando R., to Paxton-Mitchell. Valve control device. 3,721,267, 3-20-73, Cl. 137-624.180.
Sholl, Jeffrey J., to Pillsbury Company, The. Method of foam injecting flavor or texture improving substances into meat. 3,769,037, 10-30-73, Cl. 426-281.000.
Sholtes, Carl E., to Westinghouse Electric Corporation. Water cooler unit frame assembly. 3,746,290, 7-17-73, Cl. 248-15.000.
Sholtes, George T., to General Electric Company. Quick-release support member attachment means. 3,759,471, 9-18-73, Cl. 248-119.00r.
Shomura, Takashi: *See—*
Tsuruoka, Takashi; Shomura, Takashi; Ezaki, Norio; Akita, Eiichi; Inoue, Shigeharu; Fukatsu, Shunzo; Amano, Shoichi; Watanabe, Hiroshi; and Niida, Taro, 3,761,588.
Shone, Robert T.: *See—*
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Shoner, Marshall M. Methods of and compositions for stripping rubber articles adhered to a substrate. 3,730,194, 5-1-73, Cl. 134-41.000.
Shonerd, David E., to Lear Siegler, Inc. Survival support device. 3,762,407, 10-2-73, Cl. 128-142.300.
Shonerd, David E. Survival support device. 3,762,604, 10-2-73, Cl. 222-5.000.
Shonerd, David Edwin; Singer, Alvin; and Vaughan, Charles L. Reservoir for pressurized fluids. 3,760,834, 9-25-73, Cl. 137-255.000.
Shono, Kinji, to Nissan Motor Company, Limited. Friction clutch. 3,739,896, 6-19-73, Cl. 192-70.270.
Shono, Kinji, to Nissan Motor Company, Limited. Friction-engaging device. 3,770,088, 11-6-73, Cl. 192-70.270.
Shono, Masaru. Apparatus for forming sand piles. 3,720,063, 3-13-73, Cl. 61-11.000.
Shono, Masayuki: *See—*
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Shono, Tetsuji, to Asahi Kogaku Kogyo Kabushiki Kaisha. Camera flashgun shoe. 3,724,344, 4-3-73, Cl. 95-11.001.
Shoob, Stuart J.: *See—*
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Shook, Alvin L.: *See—*
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Shook, Frederick R. Replaceable blade propeller assembly. 3,764,228, 10-9-73, Cl. 416-93.000.
Shook, Helen A.: *See—*
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Shook, Paul R.; Sweeney, Earl G.; and Duncan, Ralph E., to FMC Corporation. Separation of particulate material by the application of electric fields. 3,720,312, 3-13-73, Cl. 209-130.000.
Shoop, James D., to Diebold Incorporated. Entry-resistant security file construction. 3,735,714, 5-29-73, Cl. 109-59.000.
Shoop, John C.; and Anderson, Robert R., to Gardner-Denver Company. Minimum pressure valve for liquid injected gas compressor. 3,763,882, 10-9-73, Cl. 137-494.000.
Shooter, Kenneth L.; Cone, Richard E.; and Bajtosh, Steve E., to National Cash Register Company, The. Rotating mechanism. 3,744,614, 7-10-73, Cl. 198-33.0ab.
Shopalovich, Predrag, to United States of America, Army. Drive-off aid for wheeled vehicles and method. 3,741,479, 6-26-73, Cl. 238-14.000.



Shopsky, Harvey J., to Robertshaw Controls Company. Fuel control. Short, Oliver A., to Du Pont de Nemours, E. I., and Co.



Suzuki, Munehiko; Hosokawa, Etsuo; and Waki, Mi

Shopsky, Harvey J., to Robertshaw Controls Company. Fuel control device and system utilizing the same. 3,712,580, 1-23-73, Cl. 251-96.000.

Shopsky, Harvey J., to Robertshaw Controls Company. Fuel control device and system utilizing the same. 3,764,102, 10-9-73, Cl. 251-96.000.

Shoptaugh, Philip L. Board game apparatus. 3,731,934, 5-8-73, Cl. 273-131.0ba.

Shore, Arnold I.; and Talentinow, John, to General Electric Company. Fluid cooled rectifier holding assembly. 3,763,402, 10-2-73, Cl. 317-234.00r.

Shore, Donald G.; and Turjanis, Vitalijs, to Oliver Tire & Rubber Company. Rubber product for tire recapping apparatus and method for making. 3,729,367, 4-24-73, Cl. 161-102.000.

Shore, James B., to Schlumberger Technology Corporation. Perforating apparatus. 3,717,207, 2-20-73, Cl. 175-4.600.

Shore, James B., to Schlumberger Technology Corporation. Perforating apparatus. 3,773,119, 11-20-73, Cl. 175-4.600.

Shore, John D.: *See—*
Rennick, Lyle V.; Shore, John D.; Mitchael, William L.; Weiss, Ronald B.; and Almich, Clarence L., 3,777,559.

Shore, John E.; and Polkinghorn, Frank A., Jr., to United States of America, Navy. General purpose associative processor. 3,757,312, 9-40-73, Cl. 340-173.0am.

Shore Plastics, Inc.: *See—*
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Sussman, Morris, 3,712,312.

Shore, Samuel; and Muzyczko, Thaddeus M., to Richardson Company, The. Preparation of alkaline-earth alkylbenzene sulfonates. 3,719,596, 3-6-73, Cl. 252-1.000.

Shore, Sidney X., to Souvenir Pen and Pencil Company. Retractable measuring tape. 3,713,603, 1-30-73, Cl. 242-107.200.

Shore, Sidney X., to Souvenir/Inc. Desk appliance. 3,731,415, 5-8-73, Cl. 40-358.000.

Shore, Terence Michael, to Morgan Construction Company. Split level conveyor and collecting means for controlled cooled steel rod. 3,711,918, 1-23-73, Cl. 29-200.00b.

Shores, Marvin W., to General Dynamics Corporation. Aircraft collision avoidance system by passive means. 3,742,504, 6-26-73, Cl. 343-112.0ca.

Shorr, Leonard Marshall: *See—*
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Shorrock, Shanley. Process for making tufted carpet. 3,778,330, 12-11-73, Cl. 161-67.000.

Shorrock, Stanley. Machine for making a tufted carpet. 3,756,173, 9-4-73, Cl. 112-79.0ff.

Short Brothers & Harland Limited: *See—*
Scott, Joseph James, 3,769,767.

Short, Charles R.; and Billett, Ronald J., to FMC Corporation. Sheet feeding and aligning apparatus. 3,717,336, 2-20-73, Cl. 271-9.000.

Short, D. Emmett. Cooking and broiling apparatus. 3,771,510, 11-13-73, Cl. 126-41.00r.

Short, Frederick R., to General Motors Corporation. Turbine cooling. 3,734,639, 5-22-73, Cl. 415-114.000.

Short, Herbert M.: *See—*
Spear, Robert E.; Ormesher, Robert J.; and Short, Herbert M., 3,770,420.

Short, J. R., Milling Company: *See—*
Woonton, Kent; Short, Jeffrey R., III; and Roach, Kenneth N., 3,739,834.

Short, James Harold: *See—*
Johnson, Robert Phillip; and Short, James Harold, 3,726,969.

Short, James N.: *See—*
Zelinski, Robert P.; Short, James N.; Gath, Rudolph H.; and Zuech, Ernest A., 3,770,713.

Short, James N., to Phillips Petroleum Company. Composite propellant containing atiridinyl curing agent. 3,759,764, 9-18-73, Cl. 149-19.000.

Short, Jeffrey R., III: *See—*
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Short, Joe T., to Deering Milliken Research Corporation. Strand delivery means. 3,752,094, 8-14-73, Cl. 112-79.00a.

Short, Joe T., to Deering Milliken Research Corporation. Process and apparatus for the production of tufted pile fabrics. 3,780,678, 12-25-73, Cl. 112-79.00a.

Short, Oliver A., to Du Pont de Nemours, E. I., and Company. Metalizing compositions. 3,708,313, 1-2-73, Cl. 106-1.000.

Short, Oliver A., to Du Pont de Nemours, E. I., and Company. Gold metallizing compositions. 3,717,481, 2-20-73, Cl. 106-1.000.

Short, Oliver A.; and Weaver, Richard V., to Du Pont du Nemours, E. I., and Company. Process for making gold powder. 3,725,035, 4-3-73, Cl. 75-.50a.

Short, Oliver A., to Du Pont de Nemours, E. I., and Company. Glasses, silver compositions and capacitors therefrom. 3,755,723, 8-28-73, Cl. 317-258.000.

Short, Oliver A., to Du Pont de Nemours, E. I., and Company. Elimination of dielectric degradation in printed gold/dielectric/palladium-silver structures. 3,770,496, 11-6-73, Cl. 117-212.000.

Short, Oliver A., to Du Pont de Nemours, E. I., and Company. Process for manufacturing gold powder. 3,771,996, 11-13-73, Cl. 75-.50a.

Short, Oliver Alton, to Du Pont de Nemours, E. I., and Company. Alloy metalizations. 3,756,834, 9-4-73, Cl. 106-1.000.

Short, Ralph H., to Clark Equipment Company. System and method for removable installation of swing circle for large crane. 3,726,418, 4-10-73, Cl. 212-69.000.

Short, Ralph H.; and Goodwine, Paul C., to Clark Equipment Company. Crane crawler truck. 3,757,881, 9-11-73, Cl. 180-9.200.

Short, Ray L., Jr.; Bowen, Howard; and Henderson, David L., to Research Technology, Incorporated. Strip detection apparatus. 3,759,095, 9-18-73, Cl. 73-157.000.

Short, William H.: *See—*
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Shortlidge, Donald L.: *See—*
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Shortlidge, Donald L.; Christensen, James; and Foard, James H. Jr., to Schick Electric Inc. Electric shaver with improved end cover assembly. 3,760,498, 9-25-73, Cl. 30-43.100.

Shortt, Brian A.: *See—*
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Shortte, Willard H., Jr., to Deering Milliken Research Corporation. Mop head support tool. 3,735,441, 5-29-73, Cl. 15-150.000.

Shotmeyer, Albert. Golf glove. 3,725,957, 4-10-73, Cl. 2-161.00a.

Shots, Mikhail Borisovich: *See—*
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Shottenfeld, Richard: *See—*
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Shottenfeld, Richard; and Abilock, Solomon, to Lindly & Company, Inc. Yarn inspector. 3,729,635, 4-24-73, Cl. 250-219.00s.

Shotter, Brian Alfred, to Motor Gear & Engineering Company Limited, The. Universal joints. 3,740,969, 6-26-73, Cl. 64-17.00a.

Shotting, Kenneth Frederic: *See—*
Williamson, Ronald Eugene; Porter, Sidney Clark, Jr.; and Shotting, Kenneth Frederic, 3,757,484.

Shotton, Gordon John: *See—*
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Shotton, James A. Electroplating plastics. 3,758,388, 9-11-73, Cl. 204-20.000.

Shoulders, Kenneth R.: *See—*
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Shoults, Royland D., to United States of America, Army, mesne. 2,2,4,4-Tetrakis (difluoroamino) pentane process. 3,715,399, 2-6-73, Cl. 260-583.0nh.

Shoup, Robert Donald: *See—*
Block, Jacob; Shoup, Robert Donald; Laine, Norman Raymond; and Triggiani, Leonard Vincent, 3,764,550.

Shoup, Thomas E., to TRW Inc. Through deck welding. 3,736,401, 5-29-73, Cl. 219-98.000.

Shoupp, William E.; and Bratkowski, Walter V., to Westinghouse Electric Corporation. Integral mechanically-actuated electrical power source for a photographic camera or a flashgun accessory. 3,709,118, 1-9-73, Cl. 95-11.50r.

Shouvlin, Joseph C.; and Leask, Raymond A., to Bauer Bros. Co., The. Pressurized ststem for pulp refining including pressurized double disk treatment. 3,773,610, 11-20-73, Cl. 162-19.000.

Shove, Gordon William: *See—*
Anderson, Harold Francis; Shove, Gordon William; Morin, Louis George; and Gackstetter, Henry Clinton, 3,778,576.

Shovers, John; and Sandine, William E., to Pfizer Inc. Enzymatic removal of diacetyl from fermented beverages. 3,733,205, 5-15-73, Cl. 99-48.000.

Show, Woo Foung, to Bell Telephone Laboratories, Incorporated. Single wall magnetic domain logic arrangement. 3,711,842, 1-16-73, Cl. 340-174.0tf.

Showa Aluminium Kabushiki Kaisha: *See—*
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Showa Denko Kabushiki Kaisha: *See—*
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Hashimoto, Koji; Mogi, Noboru; and Shindo, Makoto, 3,736,308.
Kawase, Butaro; Kojima, Iwao; and Otani, Kunio, 3,725,530.
Omura, Yoshihiko; and Watanabe, Eizaburo, 3,744,987.
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Shiba, Tadahisa; Saito, Tamekazu; Tsurugi, Junzo; Takahashi, Masaru; and Goto, Kunihiro, 3,723,093.
Sumikama, Sadao; Osato, Kazuhiro; and Nishimura, Jiro, 3,765,238.
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Yamamoto, Hiroya; Tokita, Yuichiro; Fuziyoshi, Kenzi; Kasuga, Naoatu; Akamatsu, Akiyuki; and Sakurai, Hiroo, 3,764,487.

Showa Densen Denran Kabushiki Kaisha: *See—*





Suzuki, Munehiko; Hosokawa, Etsuo; and Waki, Misao, 3,726,833.

Showa Electric Wire & Cable Co., Ltd.: *See—*
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Shirato, Akira; Nishizawa, Hitoshi; and Sawada, Seizo, 3,725,330.

Showa Sangyo Kabushiki Kaisha: *See—*
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Showalter, Merle Robert. Injection spray systems. 3,731,876, 5-8-73, Cl. 239-13.000.

Showell Poultry, Inc.: *See—*
Keiter, Marlin Edward, Jr., 3,757,945.

Shrader, Delworth. Meter power distribution apparatus for mobile homes with a detachable front panel for power outlet fitting. 3,716,762, 2-13-73, Cl. 317-107.000.

Shrader, Robert L.; and Tsujimoto, Kazumi N., to Airco, Inc. Vapor source assembly. 3,710,072, 1-9-73, Cl. 219-121.0eb.

Shrader, Walter M.: *See—*
O'Rourke, Richard G.; and Shrader, Walter M., 3,761,252.

Shreeve, Nicholas Gilbert; and Blake, Kenneth Sidney, to Statikon Copiers Limited. Electrostatic apparatus. 3,736,053, 5-29-73, Cl. 355-3.000.

Shreeve, Nicholas Gilbert. Electrophotographic copying, printing or reproducing method. 3,770,484, 11-6-73, Cl. 117-37.01e.

Shreffler, Wesley E.: *See—*
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Shriver, Charles S., to Orbit Manufacturing Company. Clean-operating baseboard heater. 3,714,982, 2-6-73, Cl. 165-55.000.

Shriver, Seymour J.: *See—*
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Shteinshleifer, Boris. Jewelry catch. 3,757,392, 9-11-73, Cl. 24-238.000.

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Shtrikman, Shmuel, to Yeda Research and Development Co., Ltd. Intruder detection system. 3,754,223, 8-21-73, Cl. 340-258.00c.

Shu, Stephen K.: *See—*
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Shuart, Barry L. Building construction. 3,735,549, 5-29-73, Cl. 52-262.000.

Shuba, Joseph Patrick, to GTE Automatic Electric Laboratories Incorporated. Dynamic mode integrated circuit memory with self-initiating refresh means. 3,729,722, 4-24-73, Cl. 340-173.00r.

Shubeck, Frank. Intra-uterine contraceptive devices. 3,734,090, 5-22-73, Cl. 128-130.000.

Shubkin, Ronald L., to Ethyl Corporation. Process for producing a $C_6$-$C_{16}$ normal alpha-olefin oligomer having a pour point below about -50°F. 3,763,244, 10-2-73, Cl. 260-676.00r.

Shubkin, Ronald L., to Ethyl Corporation. Synthetic lubricants by oligomerization and hydrogenation. 3,780,128, 12-18-73, Cl. 260-683.900.

Shue, Bruce H.: *See—*
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Shue, Robert S., to Phillips Petroleum Company. Olefin arylation and olefin coupling in the presence of palladium carboxylates. 3,775,511, 11-27-73, Cl. 260-669.00r.

Shuey, David R., to Xerox Corporation. Current stabilizing circuit having minimal leakage current effects. 3,761,799, 9-25-73, Cl. 323-4.000.

Shuey, Kenneth C., to Westinghouse Electric Corporation. AC power control apparatus with improved switch driver means. 3,766,409, 10-16-73, Cl. 307-252.00t.

Shuey, Kenneth C.; and Baker, Donald E., to Westinghouse Electric Corporation. AC power control apparatus with demand responsive driver circuit. 3,781,572, 12-25-73, Cl. 307-252.00t.

Shuffield, Jack E., to C & W Sewing Machine. Separately retractable paired needles. 3,763,806, 10-9-73, Cl. 112-226.000.

Shuffield, Jack E., to C & W Sewing Machine. Belt-loop feeder, and strip cutter. 3,780,680, 12-25-73, Cl. 112-121.270.

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Shuford, Archie W. Knit golf club cover. 3,727,659, 4-17-73, Cl. 150-526.000.

Shugart, Henry Lester. Reel capping apparatus. 3,756,894, 9-4-73, Cl. 156-443.000.

Shugart, Michael E. Air operated ultrasonic transducer. 3,713,417, 1-30-73, Cl. 116-137.00a.

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Shukla, Narendra M., to Burroughs Corporation. High voltage semiconductor pulse. 3,735,153, 5-22-73, Cl. 307-246.000.

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Shule, Edmund Khristianovich; Kutokov, Sergei Sergeevich; Rytvin, Evgeny Isaevich; Myagchenkov, Alexei Andreevich; Khodakovsky, Mikhail Davydovich; Bakanov, Nikolai Gavrilovich; Schevchenko, Nikolai Ivanovich; and Shiman, Oleg Petrovich. Apparatus for prodcing fibres from melts. 3,765,852, 10-16-73, Cl. 65-1.000.

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Shuler, Bernard R., to American Air Filter Company, Inc. Air filtering unit including a clamping assembly. 3,740,934, 6-26-73, Cl. 55-490.000.

Shuler, Bernard R., to American Air Filter Company, Inc. Grille arrangement for clean rooms. 3,752,055, 8-14-73, Cl. 98-114.000.

Shuleshko, Paul, to Sybron Corporation. System having fast plural high voltage switching. 3,723,855, 3-27-73, Cl. 323-21.000.

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Shulman, Nahum Raphael, to United States of America, Health, Education and Welfare. Determining and reversing anticomplementary activity in complement fixation test for Australia antigen. 3,733,398, 5-15-73, Cl. 424-12.000.

Shulock, Charles, to Carrier Corporation. Turbine construction. 3,724,969, 4-3-73, Cl. 415-190.000.

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Shulz, Robert J., to Innovative Process Equipment, Inc. Closure for pressure vessel. 3,765,562, 10-16-73, Cl. 220-55.100.

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Shum, John, Jr.; Kilbourn, Dean R.; and Lin, Chao H., to Olin Corporation. Caseless cartridge firing mechanism. 3,721,032, 3-20-73, Cl. 42-1.00r.

Shum, John, Jr., to Olin Corporation. Multiple band spring clutch. 3,750,784, 8-7-73, Cl. 192-81.00c.

Shum, Yick-Mow: *See—*
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Shumaker, Charles Storer, to United Engineering and Foundry Company. Entry guide for rolling mills. 3,727,446, 4-17-73, Cl. 72-161.000.

Shumaker, Charles Storer, to United Engineering and Foundry Company of Pittsburgh. Spool and coil handling device for a rolling mill. 3,729,102, 4-24-73, Cl. 214-1.0bb.

Shumaker, Charles Storer, to United Engineering and Foundry Company. Accumulator for strip-like material. 3,734,370, 5-22-73, Cl. 226-119.000.

Shumaker, Charles Storer, to Wean United, Inc. Roll changing arrangement for a rolling mill. 3,747,387, 7-24-73, Cl. 72-239.000.

Shumaker, Charles Storer, to Wean United, Inc. Coil centering device. 3,776,484, 12-4-73, Cl. 242-78.600.

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Shuman, Robert A., to Woodall Industries Inc. Floating duck or the like and floatation unit for use therewith. 3,752,102, 8-14-73, Cl. 114--50f.

Shumate, Paul William, Jr., to Bell Telephone Laboratories, Incorporated. Trigger circuit for recording and transmitting sampled analog waveforms. 3,753,133, 8-14-73, Cl. 328-151.000.

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Shupe, David M., to Bendix Corporation, The. Coherent optical device utilizing an organic dye cell to destroy the coherence of a wave energy signal. 3,749,475, 7-31-73, Cl. 350-160.00r.

Shupe, David M.; and Sawatari, Takeo, to Bendix Corporation, The. Display device generating many superimposed output signals to provide an image. 3,761,154, 9-25-73, Cl. 350-3.500.

Shupe, David M., to Bendix Corporation, The. Optical correlator having a dye amplifier for amplifying correlating portions of signal. 3,779,631, 12-18-73, Cl. 350-162.0sf.

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Shutt, Sidney G.; Hutchings, Thomas J.; and Hoffman, James T., to North American Rockwell Corporation. Ring laser gyroscope linearization system. 3,721,497, 3-20-73, Cl. 356-106.01r.

Shutt, Sidney G. High speed sailboat. 3,747,549, 7-24-73, Cl. 114-39.000.

Shutt, Sidney G. High speed sailboat. 3,762,353, 10-2-73, Cl. 114-39.000.

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Shutterly, Harold B., to Westinghouse Electric Corporation. Audio reproduction methods and apparatus. 3,769,468, 10-30-73, Cl. 179-100.30b.

Shuttleworth, Henry, to Texaco Trinidad, Inc. Process for extracting sulfonic acids. 3,766,255, 10-16-73, Cl. 260-513.00r.

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Sianesi, Dario; Pasetti, Adolfo; and Belardinelli, Giorgio, to Montecatini Edison S.p.A. Fluorinated peroxy polyether copolymers and method for preparing them from tetrafluoroethylene. 3,715,378, 2-6-73, Cl. 260-463.000.

Sianesi, Dario; Fontanelli, Renzo; and Grazioli, Alberto, to Montecatini Edison S.p.A. Perfluoropolyethers modified with quinone compounds in the polymeric chain and process for their preparation. 3,720,646, 3-13-73, Cl. 260-63.0ha.

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Sianesi, Enrico; Pisa, Paolo Da Re; and Setnikar, Ivo, to Recordati S.A. Chemical and Pharmaceutical Company. Oxodihyrobenzothiazine-s-dioxides. 3,712,889, 1-23-73, Cl. 260-243.00r.

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Siard, Michel; and Pellerin, Daniel. Apparatus for blow molding a preform in a mold with a sterile gas. 3,712,784, 1-23-73, Cl. 425-387.000.

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Sibthorpe, Anthony M. Vessel having a control fin, for example, a keel or rudder, and mechanism for use therein. 3,776,171, 12-4-73, Cl. 114-141.000.

Siburn, Gene E., to International Paper Company. Resilient packaging spacer. 3,752,384, 8-14-73, Cl. 229-14.00c.

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Siciliano, Anthony J., to Diamond International Corporation. Adjustable cage floor construction. 3,757,741, 9-11-73, Cl. 119-17.000.

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Sick, Erwin; Pinior, Gernot; and Plockl, Johann, to Zellweger AG Apparate- und Maschinenfabriken Uster. Reader mechanism for optically discernible characters. 3,742,225, 6-26-73, Cl. 250-219.00d.

Sick, Erwin. Photoelectric length measuring apparatus. 3,744,915, 7-10-73, Cl. 356-160.000.

Sick, Erwin; Pinior, Gernot; and Plockl, Johann, to Zellweger AG Apparate- und Maschinenfabriken Uster. Reading apparatus for optically discernible characters. 3,752,999, 8-14-73, Cl. 250-219.00d.

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Sickel, Gordon E.; and Tempel, George F., to Electronic Associates, Inc. Analog summer/integrator mode control circuit having digital/analog switched inputs. 3,717,776, 2-20-73, Cl. 307-229.000.

Sickinger, Hans, Company: *See—*
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Sickman, Darrell V.; Kamlet, Mortimer J.; Rich, Richard D.; Heller, Harry; and Kaplan, Lloyd A., to United States of America, Navy. Propellant composition with a nitro containing crosslinked binder. 3,745,076, 7-10-73, Cl. 149-19.000.

Siclari, Francesco; Magnoni, Franco; and Bianucci, Giancarlo, to Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Apparatus for cutting slivers of continuous textile filaments by means of focalized laser rays. 3,757,077, 9-4-73, Cl. 219121.001.

Siclari, Francesco; Perazzoni, Pierluigi; and Silvestroni, Pier Torgio, to Snia Viscosa Societa Nazionale Industria Applicazioni Viscosa S.p.A. Method for the production of synthetic polymer, more particularly polyamides, for obtaining yarns having a high ffinity to basic dyestuffs, and polymers and yarns obtained thereby which comprises adding an aromatic aldehyde containing sulfonic acid groups to the reacting monomers. 3,764,585, 10-9-73, Cl. 260-72.00n.

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Siconolfi, James R., to United States of America, Air Force. Automatic range rate memory switch for radar systems. 3,713,150, 1-23-73, Cl. 343-7.300.

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Siddall, John B., to Zoecon Corporation. Methylenedioxyphenyl compounds. 3,709,914, 1-9-73, Cl. 260-340.500.
Siddall, John B., to Zoecon Corporation. Sesamalyl and piperonyl ethers and thioethers. 3,709,915, 1-9-73, Cl. 260-340.500.
Siddall, John B., to Zoecon Corporation. Aliphatic ethers and thio compounds. 3,711,516, 1-16-73, Cl. 260-340.500.
Siddall, John B., to Zoecon Corporation. Quaternary alkyl ethers of methylenediodioxyphenyl compounds. 3,711,517, 1-16-73, Cl. 260-340.500.
Siddall, John B.; and Calamie, Jean. Dihalocyclopropyl substituted aliphatic amines. 3,711,547, 1-16-73, Cl. 260-563.00r.
Siddall, John B.; and Calame, Jean Pierre, to Zoecon Corporation. Cyclopropyl substituted aliphatic amines. 3,711,548, 1-16-73, Cl. 260-563.00r.
Siddall, John B.; and Calame, Jean Pierre, to Zoecon Corporation. Aliphatic hydrocarbon esters and derivatives. 3,712,880, 1-23-73, Cl. 260-408.000.
Siddall, John B.; and Henrick, Clive A., to Zoecon Corporation. Epithio Dienoates. 3,723,462, 3-27-73, Cl. 260-327.00e.
Siddall, John B.; and Hendrick, Clive A., to Zoecon Corporation. Sesamalyl ethers and thioethers. 3,723,467, 3-27-73, Cl. 260-340.500.
Siddall, John B., to Zoecon Corporation. Chrysanthemic acid preparation. 3,728,372, 4-17-73, Cl. 260-456.00r.
Siddall, John B., to Zoecon Corporation. Quaternary alkyl aromatics. 3,728,378, 4-17-73, Cl. 260-476.00r.
Siddall, John B.; and Henrick, Clive A., to Zoecon Corporation. Aliphatic ketones. 3,728,396, 4-17-73, Cl. 260-593.00r.
Siddall, John B.; and Henrick, Clive A., to Zoecon Corporation. Epithio di-unsaturated aliphatic ketones and aldehydes. 3,729,486, 4-24-73, Cl. 260-327.00e.
Siddall, John B., to Zoecon Corporation. Sesamolyl and piperonyl ethers and thioethers. 3,732,254, 5-8-73, Cl. 260-340.500.
Siddall, John B.; and Liddell, Norman E., to Zoecon Corporation. Alkyl-substituted monounsaturated keto esters. 3,749,743, 7-31-73, Cl. 260-410.900.
Siddall, John B.; and Henrick, Clive A., to Zoecon Corporation. Oxo-substituted $\alpha\sim\beta$-unsaturated alkylated fatty acids and esters. 3,749,744, 7-31-73, Cl. 260-410.90r.
Siddall, John B., to Zoecon Corporation. Substituted crotonic amide $\gamma$-lactams. 3,755,356, 8-28-73, Cl. 260-326.5fl.
Siddall, John B.; and Calame, Jean Pierre, to Zoecon Corporation. Epoxidized hydrocarbon amides. 3,758,516, 9-11-73, Cl. 260-348.00a.
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Siddall, John B.; and Calame, Jean Pierre. 11-Halo-3,7,11-trialkyl-2-alkenoic and 2,6-alkadienoic acid amides. 3,773,805, 11-20-73, Cl. 260-404,000.
Siddall, John B.; and Henrick, Olive A., to Zoecon Corporation. Epithio dienamides. 3,775,432, 11-27-73, Cl. 260-327.00e.
Siddall, John B., to Zoecon Corporation. Preparation of 5-benzyl-3-furylmethanol. 3,781,308, 12-25-73, Cl. 260-347.800.
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Siden, Terry C. Disposable capillary-reservoir pen for graphica recorder. 3,747,121, 7-17-73, Cl. 346-140.000.
Sides, Daniel H.: *See—*
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Sidhu, Pawitter S. Resistance measurement system. 3,772,593, 11-13-73, Cl. 324-62.00r.
Sidi, Henri, to Tenneco Chemicals, Inc. Carbamates of p-hydroxybenzoates. 3,734,948, 5-22-73, Cl. 260-473.00r.
Sidis, Abraham; and Schneider, Haim, to Peret, A Company for Planning and Development of Ideals for Industry B.M. Collapsible reticular structures. 3,766,932, 10-23-73, Cl. 135-4.00r.
Sidlauskas, Donald M. Upstanding rotatable child supporting pole having adjustable flexibility. 3,726,521, 4-10-73, Cl. 272-41.000.
Sidlauskas, Donald M. Tricycle having driving energy storing arrangement. 3,734,535, 5-22-73, Cl. 280-215.000.
Sidlauskas, Donald M. Flotation shoes. 3,747,236, 7-24-73, Cl. 36-2.5aa.
Sidlauskas, Donald Michael. Orbit mobile. 3,762,744, 10-2-73, Cl. 280-207.000.
Sidler, Werner, to Schweizerische Aluminum AG. Method for the unpacking of cylindrical bodies interconnected groupwise by bands, and device for the performance thereof. 3,750,504, 8-7-73, Cl. 83-16.000.
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Sidles, James; Skala, Dennis P.; and Skolnik, Leonard, to Goodrich, B. F., Company, The. Pneumatic tire. 3,730,246, 5-1-73, Cl. 152-356.000.
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Sidlinger, Bruce C. Trampoline support and cushioning means. 3,767,009, 10-23-73, Cl. 182-139.000.
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Sidur, Edmund, to Package Machinery Company. Core pin for plastic injection blow molding. 3,740,180, 6-19-73, Cl. 425-249.000.
Sidwell, Toney W.; and Reese, George F. Emotional level indicator. 3,727,604, 4-17-73, Cl. 128-2.10z.
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Siebelhoff, Bernd; and Senel, Josef, to Rheinmetall G.m.b.H. Blow moulding machine. 3,767,341, 10-23-73, Cl. 425-150.000.
Siebelt, Raymond J., to Guntner, Corinne Siebelt. Fluid-operated engine. 3,726,188, 4-10-73, Cl. 91-482.000.
Siebentritt, Frank H.; and Silvera, Esteban, to North Branch Industries, Inc. and 5% to Hough, William T., mesne. Ram-valve level indicator. 3,718,157, 2-27-73, Cl. 137-551.000.
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Siebert, Alan R., to Goodrich, B. F., Company, The. Preparation of hydroxyl terminated polymers. 3,712,916, 1-23-73, Cl. 260-484.00r.
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Siebert, William R., to Giddings & Lewis, Inc. Hydrostatic rotary table. 3,772,961, 11-20-73, Cl. 90-58.00b.
Siebol, George; and Kolec, Robert F., to Olympic Fastening Systems, Inc. Self drilling, reaming and tapping screw. 3,739,682, 6-19-73, Cl. 85-41.000.
Siebol, George; and Rippy, Dorian F. Hydraulic-operated lockbolt fastener setting tool. 3,777,540, 12-11-73, Cl. 72-391.000.
Siebold, Howard E., to Liquid Controls Corporation. Valve. 3,741,234, 6-26-73, Cl. 137-202.000.
Siebold, Manfred, to Bosch, Robert, G.m.b.H. Control apparatus for two power brakes. 3,768,877, 10-30-73, Cl. 303-52.000.
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Sieckmann, Werner; Jurging, Klaus; and Zwach, Jan, to Hoesch Aktiengesellschaft. Method of enameling strips and sheets of steel. 3,773,629, 11-20-73, Cl. 204-38.00c.
Siedband, Melvin P.; and James, Jack L., to CGR Medical Corporation. RMS current regulator for an X-ray tube. 3,766,391, 10-16-73, Cl. 250-403.000.
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Sieffert, Joseph Edward, to Otis Elevator Company. Elevator system with temporary hoistway structor and method for use thereof. 3,759,349, 9-18-73, Cl. 187-2.000.
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Sieg, Robert P., to Chevron Research Company. Process for converting butane and hexane into isopentane by isomerization and averaging. 3,761,535, 9-25-73, Cl. 260-676.00r.
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Siegel, Harris T., to Eastman Kodak Company. Apparatus for injecting dry solid particles into a liquid including noise muffling means. 3,707,829, 1-2-73, Cl. 55-239.000.
Siegel, Heinz; and Kraisel, August, to Bosch, Robert, G.m.b.H. Cylinder and piston unit. 3,730,058, 5-1-73, Cl. 92-128.000.
Siegel, Henry. Minimum friction contactors. 3,736,396, 5-29-73, Cl. 200-166.0bh.
Siegel, Norman H. Aerosol spray dispenser. 3,726,437, 4-10-73, Cl. 222-70.000.
Siegel, Richard D.: *See—*
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Siegel, William A., to Fischer & Porter Company. Pneumatic force-balance transmitter. 3,742,969, 7-3-73, Cl. 137-85.000.
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Sieger, Maurice Paul, to Wean United, Inc., mesne. Article casting apparatus. 3,763,925, 10-9-73, Cl. 164-341.000.
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Sieghartner, Leonard J., to Roth, Roy E., Company. Pump impeller maker. 3,734,697, 5-22-73, Cl. 29-156.80r.
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Siegmund, Frederik Willem, to N.V. Nederlandse Kraanbouw Mij. Clamping device for anode rods. 3,752,465, 8-14-73, Cl. 269-93.000.
Siegmund, Walter P., to American Optical Corporation. Method of making fiber optical multifibers and devices formed thereof. 3,761,234, 9-25-73, Cl. 65-4.000.
Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; Guglielmetti, Leonardo; Meyer, Hans Rudolf; and Weber, Kurt, to Ciba-Geigy AG. Optical brightening agents. 3,711,472, 1-16-73, Cl. 260-240.0ca.
Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; Guglielmetti, Leonardo; Meyer, Hans Rudolf; and Weber, Kurt, to Ciba-Geigy A.G. Heterocyclic compounds containing ethylene double bonds and process for their manufacture. 3,725,395, 4-3-73, Cl. 260-240.0a.
Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; Guglielmetti, Leonardo; Meyer, Hans Rudolf; and Weber, Kurt, to Ciba-Geigy AG. Heterocyclic compounds containing ethylene double bonds and process for their manufacture. 3,732,221, 5-8-73, Cl. 260-240.00.
Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; Guglielmetti, Leonardo; Meyer, Hans Rudolf; and Weber, Kurt, to Ciba-Geigy AG. Tri-aryl-azines as fluorescent whitening agents. 3,758,462, 9-11-73, Cl. 260-240.0ca.



Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; Guglielmetti, Burtscher, Joachim; Frohmader, Karl Peter; Rentz, Alfred;

Siegrist, Adolf Emil; Liechti, Peter; Maeder, Erwin; Guglielmetti, Leonardo; Meyer, Hans Rudolf; and Weber, Kurt, to Ciba-Geigy AG. Novel p-phenylstilbyl heterocyclic and naphthyl-vinylpenylene heterocyclic optical brighteners. 3,781,278, 12-25-73, Cl. 260240.0ca.

Siegwart, Hans-Rudolf: *See*—
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Siemssen, Ernst A., to Selas Corporation of America. Making of devitrified pellets. 3,779,698, 12-18-73, Cl. 432-13.000.

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Sievenpiper, Ward, to A-T-O Inc. Composite seal. 3,765,690, 10-16-73, Cl. 277-121.000.

Sievers, William E. Portable air purifier. 3,757,495, 9-11-73, Cl. 55-279.000.



Sievert, John A., to Continental Oil Company. Method for determining the net torque and the instantaneous horsepower of a pumping unit. 3,765,234, 10-16-73, Cl. 73-136.00r.

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Signorino, Charles A., to Colorcon Incorporated. Stabilized shellac sealing coating for tablets. 3,738,952, 6-12-73, Cl. 260-27.00r.

Signorino, Charles A., to Colorcon Incorporated. Tablets for oral use coated with a stabilized shellac sealing coating. 3,741,795, 6-26-73, Cl. 117-100.00a.

Signouret, Jean-Baptiste: *See—*
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Sigournay, Norman Lomas, to Smiths Industries Limited. Detection of particle-inclusions in fluid flow utilizing a divided fluid path with a sensing coil about each path. 3,748,576, 7-24-73, Cl. 324-41.000.

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Sill, Floyd E., to Banctec, Incorporated. Check processing tab.



Silver, Howard Bernard, to British Petroleum Company Limited, The. Hydrocarbon conversion process. 3,775,503, 11-27-73, Cl. 260-683.00r.

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Sikorra, Charles F., to Boeing Company, The. Strain gage. 3,729,985, 5-1-73, Cl. 73-88.50r.
Siksai, Anthony. Animated display system. 3,731,996, 5-8-73, Cl. 352-87.000.
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Silberkuhl, Wilhelm Johannes; and Manthey, Horst, to Silberkuhl, Wilhelm Johannes. Construction element. 3,760,549, 9-25-73, Cl. 52-630.000.
Silberman, Ira J., to Diversified Products Corporation. Combination of a barbell with weight and collet device. 3,726,522, 4-10-73, Cl. 272-84.000.
Silbermann, Karl, to Siemens Aktiengesellschaft. X-ray tube with rotary anode. 3,763,387, 10-2-73, Cl. 313-60.000.
Silberring, Ludwig, to Sulzer Brothers Limited. Process and plant for ammonia synthesis. 3,729,547, 4-24-73, Cl. 423-359.000.
Silbert, Leonard S., to United States of America, Agriculture. Process for the preparation of alkyl, perfluoroalkyl and aryl iodides. 3,716,592, 2-13-73, Cl. 260-650.00r.
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Silby, Harry; deceased (by Silby, Mayme; and Kraus, Joseph H.; executors), to Wire Sales Company. Method for eliminating dumping of waste pickle liquor and conversion thereof into useful products. 3,712,940, 1-23-73, Cl. 423-140.000.
Silby, Harry; deceased (by Silby, Mayme; executrix), to Wire Sales Company. Liqueur preparation from milk. 3,753,724, 8-21-73, Cl. 99-30.000.
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Siler, Robert W. Swing for lawns or patios. 3,765,674, 10-16-73, Cl. 272-85.000.
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Silitch, Peter, to United Communications Industries, Inc. Highway radio communications system. 3,766,476, 10-16-73, Cl. 325-26.000.
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Sill, Clark D. Remotely operated air brake bleeding apparatus. 3,752,539, 8-14-73, Cl. 303-68.000.
Sill, Floyd E., to Banctec, Incorporated. Check processing tab. 3,770,943, 11-6-73, Cl. 235-61.12r.
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Sills, Donald K.; and Queen, Hardis, to Ryco Graphic Mfg., Inc. Method for surface maintenance of printing press blanket cylinders. 3,763,778, 10-9-73, Cl. 101-426.000.
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Silsby, Stanley D., to Colt Industries, Operating Corporation, mesne. Rate reducer. 3,724,325, 4-3-73, Cl. 89-131.000.
Siltari, Arvo Ilmari, to Osakeyhtio, A. Ahlstrom. Method and mechanism for mounting saw blades in a circle saw. 3,772,761, 11-20-73, Cl. 29-406.000.
Silva, Albert J. Automatic display racks. 3,780,873, 12-25-73, Cl. 211-49.00d.
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Silva, Frank A., to Amerace Esna Corporation. Shielding tape grounding device for high voltage cables. 3,777,050, 12-4-73, Cl. 174-78.000.
Silva, George E. Extension hand sprayer device. 3,716,195, 2-13-73, Cl. 239-375.000.
Silva, John R., to General Signal Corporation. Apparatus for digitizing noisy time duration signals which prevents adverse effects of contact bounce. 3,725,680, 4-3-73, Cl. 307-268.000.
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Silver, Francis M., to Fraze, Ermal C. Can end with inseparable tear strip and latch means for holding tear strip against can wall. 3,730,380, 5-1-73, Cl. 220-54.000.
Silver, Francis M., to Fraze, Ermal C. Container wall wtih connector for retaining the tab and tear portion of the container wall. 3,731,836, 5-8-73, Cl. 220-54.000.
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Silver, Gary L.: *See—*
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Silver, H. Graham: *See—*
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Silver, H. Graham; Heller, Adam; Gardner, Phillip J.; and Argue, Gary R., to GTE Laboratories, Incorporated. Electrode discharge device with electrode-activating fill. 3,771,009, 11-6-73, Cl. 313-228.000.



Silver, Howard Bernard, to British Petroleum Company Limited, The. Hydraulic fluid containing basic zinc carboxylates. 3,726,798, 4-10-73, Cl. 252-15.000.
Silver, Jack. Gas turbine engine. 3,775,974, 12-4-73, Cl. 60-39.340.
Silver, Julian, to U.S. Dynamics Inc. Method of making a matrix of photographs from a film strip. 3,730,624, 5-1-73, Cl. 355-132.000.
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Silver, Philip, to Nuclear Research Associates, Inc. Photochromic plastisol compositions, method of producing photochromic polyvinyl chloride films therefrom and the resultant films. 3,761,422, 9-25-73, Cl. 252-300.000.
Silver, Richard S.; and Wong, Joel K., to Gulf Research & Development Company. Continuous cultivation of hydrocarbon-consuming micro-organisms. 3,721,604, 3-20-73, Cl. 195-28.00r.
Silver, Robert H., 42% to Wanous, Thomas K. Collapsible combination table and bench. 3,765,719, 10-16-73, Cl. 297-170.000.
Silver, Robert Steven, to RCA Corporation. Bistable storage device and method of operation utilizing a storage target exhibiting electrical breakdown. 3,737,715, 6-5-73, Cl. 315-12.000.
Silver, Samuel. Sandal. 3,748,757, 7-31-73, Cl. 36-11.500.
Silver Seiko Co., Ltd.: *See—*
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Silverberg, Morton, to Xerox Corporation. Method and apparatus for electrostatically performing a tacking operation. 3,717,801, 2-20-73, Cl. 317-262.00e.
Silverberg, Morton, to Xerox Corporation. AC corotron. 3,760,229, 9-18-73, Cl. 317-2.00f.
Silverberg, Morton, to Xerox Corporation. Developing means for electrostatic printing apparatus. 3,766,850, 10-23-73, Cl. 101-1.000.
Silverberg, Morton, to Xerox Corporation. Corona generating methods and apparatus therefor. 3,769,506, 10-30-73, Cl. 250-326.000.
Silverberg, Norton, to Xerox Corporation. Output keyboard apparatus and signal translating methods therefor. 3,778,817, 12-11-73, Cl. 340-365.00c.
Silverman, Benjamin D.: *See—*
Jacobs, John T.; Keester, Kenneth L.; and Silverman, Benjamin D., 3,710,353.
Silverman, Daniel. Information systems using arrays of multiple spot patterns. 3,753,249, 8-14-73, Cl. 340-173.01r.
Silverman, Daniel. Random access multiple disc optical information storage system. 3,774,172, 11-20-73, Cl. 340-173.01m.
Silverman, Elliott: *See—*
Cohen, Morton; and Silverman, Elliott, 3,738,005.
Silverman, Irving. Pipe fitting weld alignment apparatus. 3,735,472, 5-29-73, Cl. 29-272.000.
Silverman, Jerry E.: *See—*
Glicksman, Martin; Wankier, Bartley N.; and Silverman, Jerry E., 3,754,935.
Silverman, Ralph. Safety storage structure. 3,764,035, 10-9-73, Cl. 220-15.000.
Silverman, Ralph H. Dental operative system. 3,757,420, 9-11-73, Cl. 32-22.000.
Silvern, David Harold; and Minton, Stanley J., to Barodyne, Inc. Surge control for fluid compressors. 3,741,676, 6-26-73, Cl. 415-52.000.
Silvern, David Harold; and Minton, Stanley J., to Barodyne, Inc. Flow control apparatus for a centrifugal compressor. 3,741,677, 6-26-73, Cl. 415-52.000.
Silvernail, Walter: *See—*
Goetzinger, Nicholas J.; and Silvernail, Walter, 3,768,989.
Silversmiths, Wallace, Inc.: *See—*
Tovar, Henry M., 3,750,309.
Silverstein, Burton P. Water ski structure. 3,761,980, 10-2-73, Cl. 9-310.00a.
Silverstein, Stanley M.; and Strautman, Victor, to Avco Corporation. Hollow turbine blade having diffusion bonded therein. 3,761,201, 9-25-73, Cl. 416-232.000.
Silverstone, Calvin Eric; and Surrall, Alan John, to Leland Gas Turbines Limited. Rubbing seal for a rotary regenerative heat exchanger. 3,730,538, 5-1-73, Cl. 277-96.00r.
Silverstone, Calvin Eric, to British Leyland Truck and Bus Division Limited. Method of making regenerative heat-exchanger seals. 3,778,293, 12-11-73, Cl. 117-93.1pf.
Silverstone, Roger: *See—*
Farnden, Robert W.; Silverstone, Roger; and Hendricks, John E., 3,761,169.
Silverstrom, David: *See—*
Blazey, Lawrence; Silverstrom, David; and Rocker, Elmer, 3,777,673.
Silverthorne, John D. Cautery apparatus. 3,723,704, 3-27-73, Cl. 219-242.000.
Silvertz, Christian; and Soltys, Joseph F. Electroless silvering composition and method. 3,776,740, 12-4-73, Cl. 106-1.000.
Silverwood, Frederick William: *See—*
Lawrenson, Jack; and Silverwood, Frederick William, 3,733,190.
Silvester, Brian Carol, to Associated Engineering, Limited. Fuel injection systems. 3,771,507, 11-13-73, Cl. 123-139.0aw.
Silvester, Richard. Thrust augmenter. 3,722,454, 3-27-73, Cl. 115-34.00r.
Silvestri, Anthony J.: *See—*
Chang, Clarence D.; Naro, Paul A.; and Silvestri, Anthony J., 3,772,185.
Weisz, Paul B.; and Silvestri, Anthony J., 3,716,479.
Weisz, Paul B.; and Silvestri, Anthony J., 3,766,054.
Silvestri, Antonio; and Gargatagli, Guglielmo, to Saipem S.p.A. Piping tensioning device. 3,739,971, 6-19-73, Cl. 226-172.000.
Silvestrini, Richard L., to Bendix Corporation, The. Solenoid valve with stroke insensitive port. 3,729,025, 4-24-73, Cl. 137-625.330.
Silvestroni, Pier Torgio: *See—*
Siclari, Francesco; Perazzoni, Pierluigi; and Silvestroni, Pier Torgio, 3,764,585.
Silvey, Elmer R. Saw chain depth gauge grinder. 3,717,051, 2-20-73, Cl. 76-37.000.
Silvey, Elmer R. Chipper chain grinder. 3,779,103, 12-18-73, Cl. 76-25.00a.
Silvey, Robert L.: *See—*
Munsil, Willett C.; and Silvey, Robert L., 3,773,879.
Silvia, Denis, to United States of America, Navy. Explosive circuits. 3,728,965, 4-24-73, Cl. 102-22.000.
Silvia, Loretta R. Ballasted wig block and/or stand for a wig block. 3,746,293, 7-17-73, Cl. 248-177.000.
Silzars, Aris; and Bates, David J., to Watkins-Johnson Company. Laminar flow electron gun and method. 3,740,607, 6-19-73, Cl. 315-15.000.
Silzars, Ariz: *See—*
Bates, David J.; Silzars, Ariz; Roberts, Lester A.; and Long, James A., 3,749,961.
Sim-Kar Lighting Fixtures Co.: *See—*
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Simada, Takeo: *See—*
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Simard, Joseph R. Oil separator apparatus and method for low miscibility refrigerant systems. 3,751,936, 8-14-73, Cl. 62-84.000.
Simay, Antal: *See—*
Harsanyi, Kalman; Nador, Karoly; Takacs, Kalman; Korbonits, Dezso; Kiss, Pal; Simay, Antal; Bodrogi, Istvan; Tardos, Laszlo; and Leszkovszky, Gyorgy, 3,775,409.
Simazaki, Tosio; Kotani, Haruo; and Isida, Kozo, to Horiba Ltd. Analyzer using the rotor of a motor as a light chopper. 3,729,264, 4-24-73, Cl. 356-206.000.
Simco Company, Inc., The: *See—*
Barnett, Roy F.; Levy, Warren W.; and Simons, Dolph, 3,735,198.
Simcoe, Kent W., to Hewlett-Packard Company. Switching voltage regulator circuit. 3,781,654, 12-25-73, Cl. 323-17.000.
Simcox, Gordon K.: *See—*
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Simer, Loren J.: *See—*
Sully, Frank H.; and Simer, Loren J., 3,748,066.
Simeth, Claus: *See—*
Schuhmann, Siegfried; Simeth, Claus; and Wegel, Erich, 3,779,545.
Simister, Louis W. Baby expansion-slipper. 3,744,163, 7-10-73, Cl. 36-2.50b.
Simizu, Yasusi: *See—*
Ito, Yukio; Komizo, Hidemitsu; Okamura, Takeshi; and Simizu, Yasusi, 3,732,508.
Simizume, Tutomu: *See—*
Onoda, Michio; Usui, Saburo; Simizume, Tutomu; and Taguchi, Mitsuru, 3,747,346.
Simjian, Luther G., to General Research Inc. Control and recording apparatus. 3,716,698, 2-13-73, Cl. 235-61.100.
Simjian, Luther G. Massaging device driven by exercise apparatus. 3,727,608, 4-17-73, Cl. 128-63.000.
Simjian, Luther G. Article handling apparatus. 3,734,286, 5-22-73, Cl. 209-121.000.
Simjian, Luther G. Exercise and massaging apparatus. 3,777,745, 12-11-73, Cl. 128-57.000.



Simko, Aladar O., to Ford Motor Company. Fluid or fuel injection pump assembly. 3,741,685, 6-26-73, Cl. 417-214.000.
Simmons, Harold C., to Parker-Hannifin Corporation. Flow control

Simko, Aladar O., to Ford Motor Company. Fluid or fuel injection pump assembly. 3,741,685, 6-26-73, Cl. 417-214.000.
Simko, Aladar O., to Ford Motor Company. Engine constant rate exhaust gas recirculation system. 3,776,207, 12-4-73, Cl. 123-119.00a.
Simko, David M.: *See—*
Gallagher, Bernard J.; Shufflebarger, Earl D.; Simko, David M.; and Medvick, Richard J., 3,754,568.
Tobbe, William F.; Benway, Ernest A.; Simko, David M.; Gallagher, Bernard J.; and Boylan, John, 3,761,052.
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Simmen, Robert: *See—*
Morel, Rene; and Simmen, Robert, 3,715,987.
Simmering-Graz-Pauker Aktiengesellschaft fur Maschinen-Kassel-und Waggonbau: *See—*
Kadlez, Karl; and Marek, Adolf, 3,739,133.
Simmingskold, Bo Kurt Wilhelm; and Carbol, Vlastimil, to Glasforsknings-institutet. Process for making pelletized glass batches. 3,767,751, 10-23-73, Cl. 264-117.000.
Simmler, Walter: *See—*
Golitz, Hans Dietrich; Merten, Rudolf; Noll, Walter; and Simmler, Walter, 3,725,449.
Golitz, Hans Dietrich; Noll, Walter; Schnurrbusch, Karl; Seyfried, Klaus; and Simmler, Walter, 3,737,336.
Moller, Friedrich; Roegler, Manfred; Simmler, Walter; and De Montigny, Armand, 3,723,492.
Simmon, Alfred: *See—*
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Simmonds, C. Warren: *See—*
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Simmonds Precision Products, Inc.: *See—*
Pelkey, William H., 3,732,493.
Redan, Joseph, 3,719,291.
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Simmonds, Robin George: *See—*
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Simmons, Bjorn Herman Olof; and Karsberg, Lars Anders Birger, to Aktiebolaget Bofors. Device for a projectile. 3,719,339, 3-6-73, Cl. 244-3.270.
Simmons, Bjorn Herman Olof, to Aktiebolaget Bofors. Device for a projectile. 3,724,380, 4-3-73, Cl. 102-60.000.
Simmons, Bjorn Herman Olof, to Aktiebolaget Bofors. Projectile carried ignitable device having delayed, large surface ignition. 3,750,577, 8-7-73, Cl. 102-37.600.
Simmons, Bjurn Herman Olof; and Johansson, Karl Ingemar Wenzel. Method and apparatus for packing a parachute into a projectile. 3,761,043, 9-25-73, Cl. 244-138.00r.
Simmons, C. R., to Helmerich & Payne, Inc. Valveless prover. 3,738,153, 6-12-73, Cl. 73-3.000.
Simmons, Carl Edward, to United Aircraft Products, Inc. Heat transfer system. 3,776,305, 12-4-73, Cl. 165-107.000.
Simmons, Charles Curtis, to Ransburg Electro-Coating Corporation. Method of electrostatically coating hollow articles. 3,741,793, 6-26-73, Cl. 117-93.4nc.
Simmons, Charles D.: *See—*
Dickason, Richard T.; Ray, Donald J.; and Simmons, Charles D., 3,752,348.
Simmons, Clarence C. Rideable galloping hobby horse with inflatable body. 3,712,634, 1-23-73, Cl. 280-1.182.
Simmons, Clarence C. Pocket tablet dispenser. 3,734,283, 5-22-73, Cl. 206-42.000.
Simmons, Clarence C. Exercising device. 3,761,081, 9-25-73, Cl. 272-58.000.
Simmons Company: *See—*
Blecker, Raymond H., 3,725,966.
Gilsinger, Frederick M., 3,760,919.
Stumpf, Walter, 3,770,180.
Simmons, Duwayne: *See—*
Heine, Joseph O.; and Simmons, Duwayne, 3,744,457.
Simmons, Edward C.: *See—*
Mercer, Robert L.; and Simmons, Edward C., 3,739,942.
Simmons, Edward E.: *See—*
Brumfield, Robert C.; and Simmons, Edward E., 3,770,129.
Simmons, Frank A., to Burgess Vibrocrafters, Inc. Grass clipper. 3,759,020, 9-18-73, Cl. 56-17.500.
Simmons, Frank A., to Burgess Vibrocrafters, Inc. Method of fabricating a venture in the passage of a tube. 3,760,479, 9-25-73, Cl. 29-157.00c.
Simmons, George; and Cubberly, George D. Ball carrier. 3,756,299, 9-4-73, Cl. 150-.500.
Simmons, George A., to Owens-Illinois, Inc. Glass ceramic and process therefor. 3,764,444, 10-9-73, Cl. 161-1.000.
Simmons, Gerald P.: *See—*
Butler, James M.; and Simmons, Gerald P., 3,740,070.
Simmons, Harold C., to Parker-Hannifin Corporation. Flow control valve for fuel injection nozzle. 3,727,636, 4-17-73, Cl. 137-541.000.
Simmons, Harold C., to Parker-Hannifin Corporation. Fuel head compensating valve for fuel injection nozzle. 3,746,038, 7-17-73, Cl. 137-513.500.
Simmons, Harold C., to Parker-Hannifin Corporation. Fuel head compensating valve for fuel injection nozzle. 3,774,851, 11-27-73, Cl. 239-551.000.
Simmons, Harold T.: *See—*
Murray, Stephen F.; and Simmons, Harold T., 3,771,102.
Voland, Elmo W.; Simmons, Harold T.; and Kurt, Pauker, 3,727,015.
Simmons, Harold T., to McGraw-Edison Company. Push to start timer. 3,737,595, 6-5-73, Cl. 200-33.00r.
Simmons, Jack L., to S & S Machinery Company, Inc. Convertible vehicle with flange and rubber tired wheels. 3,756,163, 9-4-73, Cl. 105-215.00c.
Simmons, James Wesley: *See—*
Cason, George Acker, Jr.; and Simmons, James Wesley, 3,739,864.
Simmons, Kenneth D.; Allen, Henry W.; and Gebhardt, Ronald F., to Martin Marietta Corporation. Cement clinker production. 3,716,387, 2-13-73, Cl. 106-100.000.
Simmons, Kenneth I., Jr., to Bandag Incorporated. Application of tread strip to tire casing. 3,728,181, 4-17-73, Cl. 156-96.000.
Simmons, Lloyd A.: *See—*
Densow, Ulrich O.; and Simmons, Lloyd A., 3,747,649.
Simmons, Lynn Coulson: *See—*
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Simmons, Marion I.: *See—*
Adams, Anthony E.; Yearsley, Gerald A.; Simmons, Marion I.; and Yager, Billy P., 3,776,447.
King, Lewis C.; Yearsley, Gerald A.; Adams, Anthony L.; Simmons, Marion I.; Altenburger, Eugene G.; and Yager, Billy P., 3,737,983.
Simmons, Richard J.: *See—*
Wittenbrook, Lawrence S.; and Simmons, Richard J., 3,736,328.
Simmons, Richard L., Jr. Pipe puller and alignment clamp. 3,711,920, 1-23-73, Cl. 29-200.00p.
Simmons, Roger Cleary; Boyd, Horace Edward; and Kuchling, Peter Mathis, to Cooper Industries, Inc. Tool for applying and locking threaded fasteners. 3,758,938, 9-18-73, Cl. 29-400.000.
Simmons, Roger R. Shiftable light mask for camera lens. 3,719,128, 3-6-73, Cl. 95-36.000.
Simmons, Russell T., to General Electric Company. Oven temperature control system and thermostatic component thereof. 3,737,826, 6-5-73, Cl. 337-395.000.
Simmons, Walter J.: *See—*
Noddin, Kenneth W.; and Simmons, Walter J., 3,780,752.
Simmons, William G.: *See—*
Gerson, Louis M.; and Simmons, William G., 3,741,397.
Simmons, William G.; and Caprio, Lawrence A., to Gerson, Louis M., Co., Inc. Mason's guideline holders. 3,765,096, 10-16-73, Cl. 33-86.000.
Simmons, William W., to TRW Inc. Method of and apparatus for generating ultra-short time-duration laser pulses. 3,736,526, 5-29-73, Cl. 331-94.500.
Simms, Douglas Leon: *See—*
Foley, Eugene Burdett, Jr.; MacRae, Alfred Urquhart; Simms, Douglas Leon; Polk, Norman Henry; and White, Clark Woody, 3,767,925.
McCaughan, Daniel Vincent; Simms, Douglas Leon; Tolk, Norman Henry; and White, Clark Woody, 3,757,119.
Simms, Douglas Leon; Tolk, Norman Henry; and White, Clark Woody, to Bell Telephone Laboratories, Incorporated. Apparatus and method for measuring the intensity of a beam of neutral atoms or molecules. 3,757,114, 9-4-73, Cl. 250-251.000.
Simms Group Research & Development Limited: *See—*
Hodge, Peter Charles; and Frankl, George, 3,743,363.
Phillips, Ronald; and Miracki, Zdzislav Stanislav, 3,774,411.
Simms, James S. Tensioning devices. 3,755,880, 9-4-73, Cl. 29-452.000.
Simms, John A.; and Walus, Aloysius N., to Du Pont de Nemours, E. I., and Company. Process for preparing aziridiny l alkyl-acrylate or methacrylate graft copolymers. 3,716,506, 2-13-73, Cl. 260-22.0cb.
Simms, John A.; and Walus, Aloysius N., to Du Pont de Nemours, E. I., and Company. Aziridinyl alkyl-acrylate or methacrylate graft copolymers. 3,746,673, 7-17-73, Cl. 260-22.0cb.
Simms, John A.; and Tremper, Henry S., III, to Du Pont de Nemours, E. I., and Company. Curing compositions for epoxy resins comprising latent amine curing agent and accelerator. 3,759,914, 9-18-73, Cl. 260-37.0ep.
Simms Motor Units Limited: *See—*
Draper, Francis Robert, 3,768,930.
Simms, R. John, to Agricultural Control Systems. Forward scatter optical turbidimeter apparatus. 3,713,743, 1-30-73, Cl. 356-208.000.



Simms, Romilly J., to Monitor Technology, Inc. Optical turbidimeter apparatus. 3,775,013, 11-27-73, Cl. 356-208.000.
Simms, Ross P.: *See—*
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Simo, Miroslav Andrew. Arrow rest for archery bow. 3,769,956, 11-6-73, Cl. 124-41.000.
Simo, Zsuzsa, nee Barczy: *See—*
Csuros, Zoltan; Petro, Jozsef; Dusza, Zsigmond; Simo, Zsuzsa, nee Barczy; Turcsan, Istvan; and Vaczulin, Jozsef, 3,729,413.
Simon, Abraham: *See—*
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Simon, Andrew M.: *See—*
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Simon, Charles J.: *See—*
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Krock, Elmer W.; and Simon, Charles J., 3,729,594.
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Simon, David Gavin: *See—*
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Simon Engineering Dudley Limited: *See—*
Ashworth, Denis Henry, 3,777,845.
Simon, Ernest M.: *See—*
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Simon, Frank: *See—*
Firth, William Charles, Jr.; and Simon, Frank, 3,733,360.
Simon, Frank N.: *See—*
Rork, Gerald D.; Schlachter, Alfred S.; Simon, Frank N.; and Stryk, Robert A., 3,735,138.
Simon, Fred G. Bowling ball handgrip gauge and drilling jig for use therewith. 3,748,743, 7-31-73, Cl. 33-174.00f.
Simon, Friedhelm, to Singer Company, The, mesne. Snap-on zipper foot. 3,724,407, 4-3-73, Cl. 112-240.000.
Simon, Hans. Structure for maintaining a space between overlapping roof shingles. 3,735,543, 5-29-73, Cl. 52-553.000.
Simon, Henry, Limited: *See—*
Allen, Robert William; and Drane, John, 3,719,276.
Sullivan, John Anthony, 3,772,953.
Simon, Horst: *See—*
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Ettischer, Helmut; Ort, Wolfgang; Simon, Horst; and Steisslinger, Kurt, 3,768,389.
Ettischer, Helmut; Ort, Wolfgang; Simon, Horst; and Steisslinger, Kurt, 3,774,513.
Simon, Horst; and Birkenmaier, Wilhelm, to Eastman Kodak Company. Shutter control apparatus. 3,709,135, 1-9-73, Cl. 95-60.000.
Simon, Horst; and Kollgus, Heinrich, to Eastman Kodak Company. Camera mechanism adapted to fire mechanically-actuable flash units. 3,715,960, 2-13-73, Cl. 95-11.50r.
Simon, Horst; and Bethmann, Heinz G., to Eastman Kodak Company. Flash and shutter synchronizing mechanism. 3,772,973, 11-20-73, Cl. 95-11.50r.
Simon, James Louis: *See—*
Duff, Frank; and Simon, James Louis, 3,743,791.
Duff, Frank; and Simon, James Louis, 3,743,792.
Knollman, Dieter John Henry; and Simon, James Louis, 3,749,848.
Simon, James O. Hook extractor pliers. 3,778,919, 12-18-73, Cl. 43-53.500.
Simon, Joseph A.: *See—*
Jesmore, William D.; and Simon, Joseph A., 3,739,620.
Simon, Joseph P.: *See—*
Yohn, Melvin G.; and Simon, Joseph P., 3,777,110.
Simon, Klaus: *See—*
Detmann, Walter; Meid, Gerhard; and Simon, Klaus, 3,749,884.
Simon, Martin, to General Electric Company. Dual source auxiliary power supply. 3,745,366, 7-10-73, Cl. 307-68.000.
Simon, Martin J., to PPG Industries, Inc. Additive for acrylic lacquers. 3,776,878, 12-4-73, Cl. 260-32.200.
Simon, Marvin K.: *See—*
United States of America, National Aeronautics and Space Administration, 3,710,261.
Simon, Maurice M.; and Arons, Jakob de Swaan, to Shell Oil Company. Magnesium chloride dehydration. 3,719,743, 3-6-73, Cl. 423-498.000.
Simon, Michael, to Maschinenfabrik Augsburg-Nurnberg Aktiengesellschaft. Combustion chamber and nozzle arrangement for a rocket engine. 3,713,293, 1-30-73, Cl. 60-267.000.
Simon, Myron S.: *See—*
Bloom, Stanley M.; Idelson, Elbert M.; Simon, Myron S.; and Waller, David P., 3,779,753.
Simon, Myron S. N-(ortho-substituted benzene ornapthalene carboxamidoethylene) para-phenylene diamines as coupler-developers. 3,711,546, 1-16-73, Cl. 260-559.00s.
Simon, Norman, to Mount Sinai School of Medicine of the City and University of New York. Irradiators for treating the body. 3,750,653, 8-7-73, Cl. 128-1.200.
Simon, Oscar J. Pliers. 3,736,644, 6-5-73, Cl. 29-268.000.
Simon, Paul W.: *See—*
Ku, Yuoh; and Simon, Paul W., 3,751,262.
Simon, Pierre: *See—*
Jeanmart, Claude; Messer, Mayer Naoum; and Simon, Pierre, 3,748,333.
Jeanmart, Claude; Messer, Mayer Naoum; and Simon, Pierre, 3,759,924.
Simon, Pierre; Bernstein, Jack; and Krapcho, John, to Squibb, E. R., & Sons, Inc. Method of administering central nervous system active compounds. 3,708,586, 1-2-73, Cl. 424-309.000.
Simon, Raphael A.: *See—*
Knowles, Daniel H.; Lapinsky, George D.; Overman, Kenneth T.; and Simon, Raphael A., 3,723,082.
Simon, Robert A., to Union Electronics. Flat wound coils. 3,745,500, 7-10-73, Cl. 336-192.000.
Simon, Selwyn, to Union Carbide Corporation. Method for evacuating packages. 3,759,722, 9-18-73, Cl. 99-174.000.
Simon, Stefan; Wolff, Justus; and Johst, Wolfgang, to Hahn, Carl, Dr., KG. Process and apparatus for the shape-retaining closure of at least one extremity of a tubular package, especially tampons for feminine hygiene and product produced thereby. 3,766,703 10-23-73, Cl. 53-38.000.
Simon, Walter: *See—*
Prochnow, Jurgen; and Simon, Walter, 3,768,755.
Simon, Wayne E., to Martin Marietta Corporation. Method for explosive bonding of metals. 3,732,612, 5-15-73, Cl. 29-470.100.
Simon-Carves, Limited: *See—*
Burgess, Charles David, 3,719,354.
Simon-Hartley Limited: *See—*
Hartley, Michael Augustine; and Rowley, Robert, 3,777,890.
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Simon-Heesen N.V.: *See—*
Heesen, Theodorus Jacobus, 3,742,750.
Heesen, Theodorus Jacobus, 3,752,632.
Simon-Vermot, Andre, to Les Fabriques d'Assortiments Reunies. Timepiece escapement lever. 3,738,101, 6-12-73, Cl. 58-116.000.
Simon-Vicars Limited: *See—*
Barratt, John, 3,721,805.
Crispe, Stanley William, 3,739,901.
Simoncioni, Otello M. Roller paint applicator. 3,714,674, 2-6-73, Cl. 15-230.110.
Simond, Jacques: *See—*
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Mauvernay, Roland Yves; Busch, Norbert; Moleyre, Jacques; and Simond, Jacques, 3,718,650.
Mauvernay, Roland Yves; Busch, Norbert; Simond, Jacques; and Moleyre, Jacques, 3,781,432.
Simone, John: *See—*
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Simone, Richard B.: *See—*
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Simoneau, Alex: *See—*
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Simoneau, Edward T.; Moeller, Richard E.; and Holdstock, Norman G., to General Electric Company. Silicone resins used as surfactants in vinyl chloride foam. 3,730,931, 5-1-73, Cl. 260-25.00p.
Simoneaux, Curtis J. Magnetic hair clip holder. 3,755,857, 9-4-73, Cl. 24-3.00a.
Simonelli, Carl L., to Central Vac International, Inc. Wall-mounted vacuum cleaner. 3,714,765, 2-6-73, Cl. 55-472.000.
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Simonet, Guy; and Rico, Hubert, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Adsorption process and an installation therefor. 3,738,084, 6-12-73, Cl. 55-31.000.
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Simons, Frank Holmes, to Fiber Industries, Inc. Protective finish for synthetic fibers. 3,753,771, 8-21-73, Cl. 117-138.80f.

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Simons, Willi, to Schloemann Aktiengesellschaft. Turret for casting ladles. 3,717,331, 2-20-73, Cl. 266-13.000.

Simons, Willi; Grothe, Horst; Haselhuhn, Rolf; Koenig, Peter; and Brock, Klaus, to Schloemann Aktiengesellschaft and Concast AG. Continuous casting apparatus with inter-changeable pouring tubes. 3,743,007, 7-3-73, Cl. 164-281.000.

Simonsen, Knud. Conveying system for use in smoke houses and the like. 3,732,971, 5-15-73, Cl. 198-177.00r.

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Simorghi, Parviz. Separable key-head and filing system. 3,780,550, 12-25-73, Cl. 70-395.000.

Simoudis, John C., to Continental Can Company, Inc. Method of making cobalt alloy steel composite article. 3,755,887, 9-4-73, Cl. 29-498.000.

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Simpkins, Frederick W., to Alden Research Foundation. Electrolytic recorder with perforate sheet adjacent recording zone. 3,761,952, 9-25-73, Cl. 346-74.000.

Simpkins, Lorenz G., to United States of America, National Aeronautics and Space Administration. Television multiplexing system. 3,749,831, 7-31-73, Cl. 178-6.800.

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Simpson, Melvyn I.; Warfield, Albert H.; and Kallianos, Andrew G., to Liggett & Myers Incorporated. Methyl trans-2-isopropyl-5-methyl-3-hexenoate and derivatives thereof as tobacco flavorants. 3,762,423, 10-2-73, Cl. 131-17.00r.

Simpson, Merle A.; and Heptig, Albert S. Interlocking building construction. 3,745,731, 7-17-73, Cl. 52-236.000.





Simpson, Michael Charles Stephen; and Felton, Barrie, to English Electric Company Limited, The. Relay power supply. 3,717,796, 2-20o73, Cl. 317-148.50r.

Simpson, Naaman R. Apparatus for sheeting dough. 3,753,638, 8-21-73, Cl. 425-363.000.

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Simpson, William E., Jr., to Lockheed Aircraft Corporation. Fluid flow regulator valve. 3,710,820, 1-16-73, Cl. 137-495.000.

Simpson, William R. J., to Sandoz-Wander, Inc. N-(N-(cyanoalkyl)-N-nitroso)amino-aminoalcohol esters. 3,766,185, 10-16-73, Cl. 260-268.00n.

Simpson, William R. J., to Sandoz-Wander Inc. 4-Amino-isoxazolo(5,4-d)pyrimidines and nitrates thereof. 3,778,438, 12-11-73, Cl. 260-256.40f.

Simpson, William R. J., to Sandoz-Wander, Inc. 1-Substituted amino-isoquinolines and nitrates thereof. 3,778,440, 12-11-73, Cl. 260-288.00r.

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Sims, Clarence R. Combination cleaner, polisher and waxing device for walls and floors. 3,713,744, 1-30-73, Cl. 401-9.000.

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Sittmann, Brigitte, to Vereinigte Baubeschlagfabriken Gretsch & Co. G.m.b.H. Door closer. 3,742,553, 7-3-73, Cl. 16-55.000.
Sitton, Ellis A.: *See—*
Kennicutt, Robert B.; Sitton, Ellis A.; and Yancey, John W., 3,779,615.



Sitton, Robert L.: *See—*
Starkey, George W.; Sitton, Robert L.; Duke, Jimmy R.; and Miller, Walter E., Jr., 3,751,166.
Sittoon, Ellis A., to Caterpillar Tractor Company. Energy storage assembly. 3,773,152, 11-20-73, Cl. 188-170.000.
Sitts, Kenneth O. Device for forming box pleats. 3,724,729, 4-3-73, Cl. 223-35.000.
Sitver, Leonard Allan; and Yelin, Robert Emil, to FMC Corporation. Simultaneous desize-scour-bleach with activated hydrogen peroxide. 3,740,188, 6-19-73, Cl. 8-111.000.
Sitver, Leonard Allan; and Yelin, Robert Emil, to FMC Corporation. Simultaneous desize-scour-bleach with activated hydrogen peroxide. 3,765,834, 10-16-73, Cl. 8-111.000.
Sitzler, Fred C., to Du Pont de Nemours, E. I., and Company. Zero force type connector block. 3,744,005, 7-3-73, Cl. 339-75.0mp.
Sivachenko, Eugene W.: *See—*
Pratt, Howard G., 3,750,439.
Siverns, Donald: *See—*
Ward, Peter Thomas; Smith, Richard Terence; and Siverns, Donald, 3,770,076.
Sivertsen, Marvin L.: *See—*
Bock, John W.; and Sivertsen, Marvin L., 3,735,130.
Sivertson, Wilford E., Jr., to United States of America, National Aeronautics and Space Administration. Rate data encoder. 3,714,645, 1-30-73, Cl. 340-347.0ad.
Sivilotti, Olivo G.; and Davies, William Elfyn, to Alcan Research and Development, Limited. Profile measurement of moving metal strip. 3,766,386, 10-16-73, Cl. 250-395.000.
Sivin, Bernard J., to Celotex Corporation, The, mesne. Overhead grille. 3,739,832, 6-19-73, Cl. 160-133.000.
Sivin, Bernard J., to Celotex Corporation, The, mesne. Side soiling door without a bottom track. 3,756,302, 9-4-73, Cl. 160-23.000.
Siviour, Neil Graham: *See—*
Cullen, Geoffrey Victor; Graham, John William; and Siviour, Neil Graham, 3,716,471.
Siviy, George: *See—*
Patel, Nagar J.; and Siviy, George, 3,750,059.
Sivyer, Raymond Frank, to EMI Limited. Improvements in or relating to electron discharge devices. 3,767,283, 10-23-73, Cl. 316-19.000.
Sivyer Steel Casting Company: *See—*
Francis, Terry M., 3,727,848.
Siwko, Karol, to GTE Sylvania Incorporated. Bandpass amplifier. 3,708,620, 1-2-73, Cl. 178-7.30r.
Six, Hugh A.: *See—*
Brach, Paul J.; and Six, Hugh A., 3,708,292.
Six, Robert C., Jr. Impact-opening electrical switch with breakable frangible element. 3,735,072, 5-22-73, Cl. 200-61.45r.
Sixt, Marty E.: *See—*
Martin, Ronald C.; and Sixt, Marty E., 3,727,953.
Martin, Ronald C.; and Sixt, Marty E., 3,732,046.
Sizemore, Walter Ray: *See—*
Bell, Cecil R.; Swaim, Jessie E.; Gilgo, Horace Paul; Rogers, Robert C.; Sizemore, Walter Ray; and Orr, Samuel M., Jr., 3,707,825.
Sizer, Phillip S.; and Carroll, Albert W., to Otis Engineering Corporation. Well flow controlling method, apparatus and system. 3,731,742, 5-8-73, Cl. 166-315.000.
Sizer, Phillip S., to Otis Engineering Corporation. Method of and apparatus for removing and positioning well tools in offset landing nipples. 3,732,928, 5-15-73, Cl. 166-315.000.
Sizer, Phillip S., to Otis Engineering Corporation. Cross over assembly. 3,739,850, 6-19-73, Cl. 166-224.000.
Sizonenko, Grigory Alexandrovich: *See—*
Bogrets, German Nikolaevich; Bondar, Nikolai Pavlovich; Sizonenko, Grigory Alexandrovich; Minakov, Anatoly Gavrilovich; Barsukov, Mikhail Ivanovich; Mitkevich, Grigory Iosifovich; Dudkin, Vyacheslav Fedorovich; Teslya, Andrei Mikhailovich; and Kolomiets, Nkolai Emelyanovich, 3,740,207.
Sjoberg, Berndt Olof Harald: *See—*
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Carlsson, Lars Anders Fritz; Helgstrand, John Erik; Sjoberg, Berndt Olof Harald; and Stjernstrom, Nils Erik, 3,781,280.
Delin, Per Staffan; Ekstrom, Bertil Ake; Nathorst-Westfelt, Lars Solve; Sjoberg, Berndt Olof Harald; and Thelin, Karl Hugo, 3,736,230.
Gronowitz, Salo Schmul; Michael, Uri; and Sjoberg, Berndt Olof Harald, 3,778,463.
Sandberg, Rune Verner; Sjoberg, Berndt Olof Harald; and Tegner, Claes Philip, 3,726,980.
Sjoberg, Nils W.: *See—*
Perry, Reginald P.; and Sjoberg, Nils W., 3,724,013.
Sjoblom, Ake E.: *See—*
Jansson, John G.; and Sjoblom, Ake E., 3,754,366.
Sjogren, Carl. Folding table with benches. 3,731,971, 5-8-73, Cl. 297-159.000.
Sjoholm, Lennart Stig: *See—*
Lagerlof, Rolf Ove Esbjorn; Sjoholm, Lennart Stig; and Svensson, Thomas Lars-Gustav, 3,713,165.
Sjolin, Ulf Peter Trygveson: *See—*
Millgard, Lars Olof Anders; and Sjolin, Ulf Peter Trygveson, 3,748,047.
Sjoman, Carl F., to Team Industries. Card feeder for folding machine. 3,768,802, 10-30-73, Cl. 271-12.000.
Sjoman, Carl F.; Wilson, Clyde R.; Montoya, John L.; and Bullett, Casper L., to Team Industries. Apparatus for folding T-shirts. 3,774,903, 11-27-73, Cl. 270-66.000.
Sjoo, Bertil Roland, to Hesselman Bil-Aero AB. Hinge structure for trim flaps. 3,738,301, 6-12-73, Cl. 114-66.50p.
Sjostrand, Gerald D. System for dispensing fluids. 3,726,439, 4-10-73, Cl. 222-145.000.
Sjostrom, John Olov Hilding; and Sundkvist, Lars Erik, to AB Hagglund & Soner. Container handling device for yoke-end trucks or the like. 3,722,720, 3-27-73, Cl. 214-317.000.
Sjostrom, Robert L. Method and apparatus for folding sheets. 3,754,750, 8-28-73, Cl. 270-69.000.
Skachko, Jury Nikolaevich; Moshkin, Venedikt Feofanovich; Garkaljuk, Rodimir Ivanovich; Popov, Nikolai Vladimirovich; Polukhin, Valery Vasilievich; Korshunov, Igor Illarionovich; Bokov, Vladimir Mikhailovich; and Skorudsky, Boris Pavlovich, to Institut Eletrosvarki Imeni E.O. Patona Akademii Nauk Ukrainskoi SSR. Spiral-seam weld pipe and tube mill. 3,721,793, 3-20-73, Cl. 219-62.000.
Skagerlund, Lars-Erik, to Aktiebolaget Bofors. Device for a transmitter receiver unit which gives an indication when an object reflects radiation transmitted from the transmitter to the receiver. 3,720,468, 3-13-73, Cl. 356-4.000.
Skagerlund, Lars-Erik, to Aktiebolaget Bofors. Ranging system. 3,743,419, 7-3-73, Cl. 356-5.000.
Skaggs, Richard, 20% to Lee, Raymond, Organization, Inc., The. Automated conveyor system. 3,780,414, 12-25-73, Cl. 29-200.00a.
Skagit Corporation: *See—*
Rennie, David G., 3,768,853.
Skahen, Don H.: *See—*
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Skala, Dennis P.: *See—*
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Skala, Dennis P.; and Thorn, Richard P., to Lord Corporation. Elastomeric combination shock and vibration isolator. 3,721,417, 3-20-73, Cl. 248-358.00r.
Skala, George F., to Environment-One Corporation. Portable photographic atmospheric particle detector. 3,756,720, 9-4-73, Cl. 356-37.000.
Skalatsky, Viktor Klementievich: *See—*
Glushko, Mikhail Fedorovich; and Skalatsky, Viktor Klementievich, 3,778,993.
Skalatsky, Viktor Klimentievich: *See—*
Glushko, Mikhail Fedorovich; Skalatsky, Viktor Klimentievich; and Skripnik, Ivan Timofeevich, 3,707,839.
Skaletzky, Louis L., to Upjohn Company, The. Method of treatment. 3,760,081, 9-18-73, Cl. 424-273.000.
Skamra, Dale William, to Xerox Corporation. Fuser thermal protector. 3,781,517, 12-25-73, Cl. 219-216.000.
Skanes, Frederick A.; Ayranto, Roy O.; and Kraemer, Ronald G., to International Harvester Company. Process of manufacturing first and second tractor vehicles for different work in the field. 3,725,996, 4-10-73, Cl. 29-428.000.
Skanes, Frederick A.; Ayranto, Roy O.; and Kraemer, Ronald G., to International Harvester Company. Tractor body with integral upright A-frame. 3,767,254, 10-23-73, Cl. 296-28.00r.
Skaperdas, Dominic O.: *See—*
Bitzer, Donald L.; Bandy, Lyle E.; Johnson, Roger L.; and Skaperdas, Dominic O., 3,738,227.
Bitzer, Donald L.; Bandy, Lyle E.; Johnson, Roger L.; and Skaperdas, Dominic O., 3,770,012.
Skarbo, Roald R., to Kennecott Copper Corporation. Extraction of copper and nickel from manganese nodules. 3,723,095, 3-27-73, Cl. 75-21.000.
Skarbo, Roald R., to Kennecott Copper Corporation. Extraction of metal values from manganese deep sea nodules. 3,728,105, 4-17-73, Cl. 75-103.000.
Skardal, Karl Arvid. Discharge device for the bottom fraction at a vortex type separator. 3,734,288, 5-22-73, Cl. 209-211.000.
Skaricic, Krunoslav, to Lee, Raymond, Organization, Inc., The. Walking trainer. 3,721,437, 3-20-73, Cl. 272-70.300.
Skarin, Carl Richard: *See—*
Gendron, Roger J.; and Skarin, Carl Richard, 3,757,926.
Skarlos, Leonidas, to Texaco Inc. Preparation of oxalic acid. 3,720,591, 3-13-73, Cl. 204-59.00r.
Skarstrom, Charles W.; and Kertzman, Jack, to Perma Pure Process, Inc. Process for separating fluids and apparatus. 3,735,558, 5-29-73, Cl. 55-16.000.
S.K.A.S.S. Associates Ltd.: *See—*
Sablom, Louis F., Jr., 3,744,203.
Skatrud, Ralph O.: *See—*
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SKF Kugellagerfabriken, Gothenburg, Sweden: *See—*



Skinner, Harry W.; and Deeb, Fouad M., to Skinner, Harry W. An-, Skolnick, Michael L.; and Pucnik, Carl Hainz, Abraham, 3,773,565.

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Skau, Evald L.: *See—*
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Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,746,722.
Mod, Robert R.; Magne, Frank C.; and Skau, Evald L., 3,769,289.
Skawden, Odd J., to Sutton Engineering Company. Straightening machine. 3,719,067, 3-6-73, Cl. 72-164.000.
SKB Arms Company: *See—*
Iino, Hideo, 3,714,727.
Tazome, Masaru, 3,709,092.
Skeehan, Joseph F.; and South, William H., to Westinghouse Electric Corporation. Circuit breaker including improved protective device. 3,713,004, 1-23-73, Cl. 317-33.00r.
Skeem, Gary L.: *See—*
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Skeen, Barton B.: *See—*
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Skeen, Lawrence: *See—*
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Skeist, Irving: *See—*
Radtke, Shcrade F.; Miron, Jerry; Bhatt, Pradip; Shah, Bharat C.; and Skeist, Irving, 3,719,551.
Skeist, Irving; Miron, Jerry; Steinfink, Murray; Savla, Manilal; Robles, Joseph; and Bhatt, Pradip, to Skeist Laboratories, Inc. Silane substituted polydienes. 3,759,869, 9-18-73, Cl. 260-41.50r.
Skeist Laboratories, Inc.: *See—*
Skeist, Irving; Miron, Jerry; Steinfink, Murray; Savla, Manilal; Robles, Joseph; and Bhatt, Pradip, 3,759,869.
Skelham, Ronald Walter Thomas, to Shoe and Allied Trades Research Association, The. Shoe manufacture. 3,739,414, 6-19-73, Cl. 12-142.00r.
Skelham, Ronald Walter Thomas, to Shoe and Allied Trades Research Association, The. Method of heat setting footwear. 3,761,562, 9-25-73, Cl. 264-346.000.
Skelley, John W.: *See—*
Farrell, Robert C.; Skelley, John W.; Milton, Thomas J.; and Piziks, Henry I., 3,748,921.
Skelly, John W.: *See—*
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Skelton, Billy K.: *See—*
Esch, Robert L.; Arnold, William C.; Skelton, Billy K.; Saxon, Michael D.; Murphy, Jerome A.; and Jaques, Roy J., 3,778,880.
Skelton, Jon V.; and Relation, Alfred E., to ESB Incorporated. Diode monitoring systems. 3,745,548, 7-10-73, Cl. 340-253.00e.
Skelton, Robert F., to Mix-Mill, Inc. Heat treating system for grains and legumes. 3,718,322, 2-27-73, Cl. 263-33.00r.
Skenderoff, Claude: *See—*
Symaniec, Leonides; Pepin, Christian; and Skenderoff, Claude, 3,732,565.
Skerlos, Peter C., to Zenith Radio Corporation. Automatic fine tuning with phase-locked loop and synchronous detection. 3,760,094, 9-18-73, Cl. 178-5.4sd.
Skewis, John B.; and Lawrie, James Y. Reading machine for the blind. 3,736,672, 6-5-73, Cl. 35-35.00a.
SKF Compagnie d'Applications Mecaniques: *See—*
De Lavalette, Pierre de Lacroix; and Hein, Daniel, 3,743,066.
SKF Industrial Trading and Development Company N.V.: *See—*
Arsenius, Torsten Henry, 3,753,604.
Asberg, Sture Lennart; and Timmer, Hendrikus Jacobus Maria, 3,733,648.
Asberg, Sture Lennart, 3,741,030.
Asberg, Sture Lennart, 3,749,416.
Asberg, Sture Lennart; and Eriksson, Erik Edvin, 3,758,180.
Fernlund, Lars Martin Ingemar, 3,740,108.
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Hentschel, Georg, 3,779,351.
Johansson, Erik Lennart Waldemar, 3,754,800.
Langstrom, Hakon Olof Scheibe, 3,743,369.
Lemor, Pierre C., 3,726,151.
Nilsson, Sven Walter, 3,716,731.
Nilsson, Sven Walter, 3,731,553.
Nilsson, Sven Walter, 3,744,332.
Nyberg, Bengt Johan, 3,744,776.
SKF Industriele -en Ontwikkeling-Maatschappij NV: *See—*
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SKF Industriele- en Ontwikkeling-Maatschappij N.V.: *See—*
Asberg, Sture Lennart, 3,757,883.
Asberg, Sture Lennart, 3,767,221.
SKF Industries, Inc.: *See—*
Knowles, Elmer E., 3,767,278.
Pye, Angus Charles; and Lundgren, Bengt, 3,773,565.
SKF Kugellagerfabriken GmbH: *See—*
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Bartling, Gerhard, 3,774,382.
Bartling, Gerhard; and Schon, Rudolf, 3,778,990.
Brandenstein, Manfred, 3,741,361.
Brichta, Franz; and Driesel; Franz, 3,740,798.
Brichta, Franz, 3,754,622.
Fingerle, Rudolf, 3,730,599.
Fuchs, Franz, 3,722,036.
Kohler, Gisbert, 3,765,161.
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Speiser, Helmut, 3,742,694.
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Skiatron Electronics & Television Corporation: *See—*
Corwin, Jordan J.; and Shanahan, William J., 3,735,027.
Zopf, Vincent R.; and Shanahan, William J., 3,717,206.
Skiatron Electronics & Television Corporation, mesne: *See—*
Sullivan, Herbert W., 3,757,035.
Skiba, Raymond A.; Funk, John W.; and Merlino, Eugene L., Jr., to Burroughs Corporation. Character aligning restraints for high speed printers. 3,732,810, 5-15-73, Cl. 101-93.00c.
Skidmore, Charles L. Analog to digital converter. 3,742,486, 6-26-73, Cl. 340-347.00p.
Skidmore, Frank O. Method and apparatus for balancing pneumatic tire and support. 3,760,633, 9-25-73, Cl. 73-66.000.
Skidmore, Richard H., to Welding Engineers, Inc. Apparatus for flash-concentrating viscous liquids. 3,738,409, 6-12-73, Cl. 159-2.00e.
Skidmore, Richard H., to Welding Engineers, Inc. Method of separating an insoluble liquid from polymer composition. 3,742,093, 6-26-73, Cl. 260-893.000.
Skiera, Heinz; and Schumann, Helmut, to VEB Polygraph Leipzig Kombinat fur Polygraphische Maschinen und Ausrustungen. Printing plate clamping device. 3,757,690, 9-11-73, Cl. 101-415.100.
Skifstrom, Walter W. Concealed actuating unit for automatically raising and lowering cabinets and the like. 3,729,245, 4-24-73, Cl. 312-223.000.
Skijor Manufacturing Company: *See—*
Kaplan, Irving Leonard, 3,724,866.
Skil Corporation: *See—*
Kaman, Frank A.; and McConnaughay, Harold, 3,730,239.
Kaman, Frank A.; Robertson, Conrad D.; and Supel, Ignacy, 3,755,640.
Meyer, Dieter B., 3,771,895.
Skildum, John D. Test instrument and method for isolating and measuring the capacitance due to a particular functional group in a liquid. 3,739,265, 6-12-73, Cl. 324-61.00r.
Skiles, Richard D.: *See—*
Pilgram, Kurt H.; and Skiles, Richard D., 3,717,651.
Pilgram, Kurt H.; and Skiles, Richard D., 3,726,891.
Pilgram, Kurt H. G.; and Skiles, Richard D., 3,746,727.
Skill Sports, Inc.: *See—*
Schaller, Joseph P.; Jorgensen, E. Chris; and Critelli, Louis J., Jr., 3,776,551.
Skillen, William R., to Somerville Industries, Limited. Tear top opening carton. 3,712,533, 1-23-73, Cl. 229-51.00r.
Skillen, William Russell; and Dews, Thomas Kenneth, to Somerville Industries Limited. Box top closure. 3,756,501, 9-4-73, Cl. 229-44.00r.
Skillman, Jack J. Method of stacking nesting articles of diminishing size. 3,708,910, 1-9-73, Cl. 46-17.000.
Skingle, Gerald David, to Post Office, The. Frequency synthesiser. 3,772,681, 11-13-73, Cl. 340-347.0da.
Skinner, Clayton H.; and Sick, Paul J., to Litton Systems, Inc. Flexible hose and method of making. 3,712,841, 1-23-73, Cl. 156-144.000.
Skinner, Cortland: *See—*
Prewitt, Cecil H., 3,730,346.
Skinner, Dale D.; Thompson, John H.; and Whittaker, Robert H., to Westinghouse Electric Corporation. Acoustic energy transmission device. 3,777,189, 12-4-73, Cl. 310-8.300.
Skinner, Derick Charles, to Lever Brothers Company. Protective packs. 3,713,577, 1-30-73, Cl. 229-33.000.
Skinner, Earl L., to Sherwin-Williams Company, The. Dilatant latex of at least two aliphatic mono-unsaturated esters and an aliphatic mono-unsaturated carboxylic acid. 3,728,295, 4-17-73, Cl. 260-29.6ta.
Skinner, Edward Albert, to Aerpat A.G. Package of headed rivets. 3,747,747, 7-24-73, Cl. 206-56.0df.
Skinner, Eugene S.: *See—*
Justus, Edgar J.; and Skinner, Eugene S., 3,775,241.
Skinner, Frank R., II, to Whirlpool Corporation. Leaf spring suspension for automatic washer. 3,729,960, 5-1-73, Cl. 68-23.300.
Skinner, Gale N. Vehicular towing hitch. 3,740,079, 6-19-73, Cl. 280-480.000.
Skinner, Harry W.: *See—*
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Skinner, Harry W.; and Deeb, Fouad M., to Skinner, Harry W. Apparatus for fabricating a pipe joint sealing device. 3,758,066, 9-11-73, Cl. 249-95.000.
Skinner, James R.; and Uttz, Mark O., to M.U. Engineering & Mfg., Inc. Display case and assembly thereof. 3,751,128, 8-7-73, Cl. 312-114.000.
Skinner, Jerald Paul. Monolithic structural member and systems therefor. 3,757,481, 9-11-73, Cl. 52-265.000.
Skinner Precision Industries, Inc.: *See—*
Ellison, John E.; and Flink, Herbert M., 3,707,992.
Padula, Lawrence Dominic, 3,771,565.
Skinner, Rodney Harold, to National Research Development Corporation. Lethal rate analogue function generator. 3,775,600, 11-27-73, Cl. 235-151.300.
Skinner, Ronald Maurice: *See—*
Downer, John Douglas; Skinner, Ronald Maurice; Reed, David Robert; and Hope-Ross, Donald Patrick, 3,743,673.
Skinner, Stanley John: *See—*
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Skipper, Claud T., to Productive Instruments & Machine, Inc. Circle metal cutter. 3,747,911, 7-24-73, Cl. 266-23.00m.
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Skistimas, Donald V.: *See—*
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Skitch, James F., to Walker Crosweller & Company Limited. Fluid flow control valves. 3,710,827, 1-16-73, Cl. 137-637.400.
Skitsko, Michael D. Aquatic vehicle. 3,718,109, 2-27-73, Cl. 115-28.00r.
Skjoldborg, Finn. Toy building set. 3,719,003, 3-6-73, Cl. 46-25.000.
Sklar, John. Towel clamp. 3,742,587, 7-3-73, Cl. 29-434.000.
Sklar, Lawrence A. Method of producing polyamide membranes and rigid foamed products. 3,711,583, 1-16-73, Cl. 264-49.000.
Sklar, Lawrence A. Systems for production of colored lights from audio impulses and transducer therefor. 3,711,853, 1-16-73, Cl. 340-366.00b.
Sklar, Stanley: *See—*
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Sklaroof, Morton, to Honeywell Inc. Isolated two-wire signal transmitter. 3,757,195, 9-4-73, Cl. 321-2.000.
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Skobel, Max, to Dow Corning Corporation. Multiple component metering and mixing device. 3,713,627, 1-30-73, Cl. 259-6.000.
Skobel, Max, to Dow Corning Corporation. Apparatus for forming rigid web-reinforced composites. 3,744,947, 7-10-73, Cl. 425-114.000.
Skoch, Edward L. Adjustable and closeable air diffuser. 3,765,316, 10-16-73, Cl. 98-40.00d.
Skochdopole, Richard E.; and Denslow, Keith R., to Dow Chemical Company, The. Asymmetrically foamable strand. 3,723,240, 3-27-73, Cl. 161-173.000.
Skochko, Leonard W.; and Donnard, Reed E., to United States of America, Army. Non-eroding, lightweight cartridge cases. 3,765,297, 10-16-73, Cl. 89-1.00r.
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Skoetsch, Paul B. S. Pill dispenser. 3,757,994, 9-11-73, Cl. 221-202.000.
Skoetsch, Paul B. S. Sign letter construction. 3,760,552, 9-25-73, Cl. 287-189.36d.
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Skogsholm, Einar Aasen, to General Electric Company. Short circuit protection means for power circuits. 3,716,775, 2-13-73, Cl. 321-5.000.
Skoli, Sigmund P.; Witt, Chester J.; and Mojonnier, Harry G. System and method for carbonating beverages. 3,741,552, 6-26-73, Cl. 261-140.000.
Skoli, Sigmund P.; Mojonnier, Harry G.; Witt, Chester J.; Seyfarth, Walter A.; and Ross, Victor H. Collection device for dryer exhaust gases. 3,771,289, 11-13-73, Cl. 55-222.000.
Skolnick, Michael L.; and Buczek, Garl J., to United Aircraft Corporation. Frequency controlled, passively Q-switch laser. 3,764,937, 10-9-73, Cl. 331-94.500.
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Skoures, Alexander E., to United States of America, Navy. Solid state acceleration counter. 3,769,844, 11-6-73, Cl. 73-517.00r.
Skousen, Martin Krabbe. Suspension arrangement for plane objects. 3,726,409, 4-10-73, Cl. 211-46.000.
Skoyles, Derek R., to U.S. Philips Corporation. Anti-lock brake systems. 3,759,585, 9-18-73, Cl. 303-21.0af.
Skoyles, Derek Robert, to U.S. Philips Corporation. Anti-lock brake systems. 3,708,213, 1-2-73, Cl. 303-21.0af.
Skoyles, Derek Robert, to U.S. Philips Corporation. Anti-lock brake systems for wheeled vehicles. 3,716,275, 2-13-73, Cl. 303-21.0af.
Skoyles, Derek Robert, to U.S. Philips Corporation. Anti-lock brake systems. 3,724,914, 4-3-73, Cl. 303-21.00f.
Skoyles, Derek Robert, to U.S. Philips Corporation. Anti-lock vehicle brake systems. 3,737,200, 6-5-73, Cl. 303-21.00f.
Skoyles, Derek Robert, to U.S. Philips Corporation. Anti-lock brake systems. 3,771,841, 11-13-73, Cl. 303-21.0af.
Skraba, Frank W., to Phillips Petroleum Company. Purification of HF catalyst in alkylation process. 3,749,753, 7-31-73, Cl. 260-683.480.
Skrabek, Emanuel Andrew; and Trimmer, Donald Smith, to Teledyne, Inc. Thermoelectric alloys. 3,762,960, 10-2-73, Cl. 148-3.000.
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Skubic, Leroy F., to Paltier Corporation, The. Panel retainer for portable tiering rack. 3,722,928, 3-27-73, Cl. 287-20.924.
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Skutt, Robert R., to National Cash Register Company, The. Interconnected electrode display means. 3,711,733, 1-16-73, Cl. 313-109.500.
Skuttle Manufacturing Company: *See—*
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Slaasted, Raymond S., to Modine Manufacturing Company. Heat exchange device. 3,771,595, 11-13-73, Cl. 165-151.000.
Slaats, Mathew A.; and Blessinger, James E., to Jasper Electronics Manufacturing Corporation, The. Keyboard for musical instruments. 3,738,216, 6-12-73, Cl. 84-433.000.
Slaats, Mathew A.; Ross, Arthur W.; and Blessinger, James E., to Evansville Veneer & Lumber Co. Method and apparatus for treating work members by the application of high frequency energy. 3,761,670, 9-25-73, Cl. 219-10.610.
Slabaugh, Edward J., to Ion Equipment Corporation. Rotary substrate holder assembly. 3,749,058, 7-31-73, Cl. 118-500.000.
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Slade, Kenneth. Apparatus for attaching fusible backing pieces to textile pieces. 3,767,511, 10-23-73, Cl. 156-499.000.
Slade, William J., to Campbell Soup Company. Can end. 3,752,353, 8-14-73, Cl. 220-54.000.
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Sladkov, Alexandr Stepanovich, to Gornometallurgichesky Institut Kolskogo Filliala Akademii Nauk USSR. Device for wet disintegration. 3,713,597, 1-30-73, Cl. 241-134.000.
Slagel, Edwin C., to Goodyear Aerospace Corporation. Transparent high-impact polyurethane products. 3,755,262, 8-28-73, Cl. 260-77.5am.
Slagel, Robert C.; and Culbertson, Billy M., to Ashland Oil, Inc. Polymers of vinyl aminimides. 3,715,343, 2-6-73, Cl. 260-88.1pn.
Slagel, Robert Clayton; and Sinkovitz, Gloria Dimarco, to Calgon Corporation. Process and product for making paper products of improved dry strength. 3,709,780, 1-9-73, Cl. 162-168.000.
Slagel, Robert Clayton; and Sinkovitz, Gloria Dimarco. Chitosan graft copolymer for making paper products of improved dry strength. 3,770,673, 11-6-73, Cl. 260-17.4gc.
Slagle, William E., to Lincoln-Hall Research Company. Positive displacement pump for dispensing a metered quantity of liquid. 3,749,527, 7-31-73, Cl. 417-395.000.
Slagle, William L., to United States of America, Atomic Energy Commission. Method of suppressing the formation of methyl iodide in a water-cooled nuclear reactor. 3,734,826, 5-22-73, Cl. 176-37.000.
Slagley, William E.; Seifert, Gerald R.; and Valonis, Edmund J., to Inland Steel Company. Non-contact strip coil linear footage measuring apparatus and method. 3,710,084, 1-9-73, Cl. 235-151.320.
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Slane, Gary R. Ricochetting basketball apparatus. 3,761,089, 9-25-73, Cl. 273-105.00r.
Slane, Gary R. Gravity projector batted ball apparatus. 3,781,012, 12-25-73, Cl. 273-95.00r.
Slaney, John S., to Standard Pressed Steel Co. and Latrobe Steel Company. Cobalt-base alloys. 3,767,385, 10-23-73, Cl. 75-122.000.
Slanhoff, Bertram. Book cover-easel combination. 3,708,184, 1-2-73, Cl. 281-33.000.
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Slater, Robert W., to Atara Corporation. Method and apparatus for stabilizing accumulations in aerated lagoons. 3,714,036, 1-30-73, Cl. 210-8.000.
Slater, Robert W.; and Barker, Joseph B., III. Dental system. 3,718,973, 3-6-73, Cl. 32-22.000.



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Slater, William L.; and Ahlborn, John C., to Texaco Inc. Fuel composition for producing synthesis gas or fuel gas. 3,725,020, 4-3-73, Cl. 44-50.000.
Slater, William L.; and Schlinger, Warren G., to Texaco Inc. Process for the production of methane from carbonaceous fuels. 3,740,204, 6-19-73, Cl. 48-215.000.
Slater, William L.; and Robertson, Odes B., to Texaco Inc. Orifice scrubber for removing solid particles from high pressure gas. 3,749,377, 7-31-73, Cl. 261-78.00r.
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Slaton, Stewart E., to Utility Precasters, Inc. Conduit joint construction. 3,774,944, 11-27-73, Cl. 285-137.00r.
Slator, Damon T.; and Shaw, Daniel G., to Bowen Tools, Inc. Pipe beveling apparatus. 3,744,356, 7-10-73, Cl. 82-4.00c.
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Slaven, John Greenwood. Fifth wheel coupler assembly. 3,759,546, 9-18-73, Cl. 280-434.000.
Slavic, Fred M. Press for web printing having intermittent paper feeding means. 3,737,089, 6-5-73, Cl. 226-156.000.
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Slavin, Michael; Emery, Raymen Forrest; Carp, Ralph Wolf; and Ang, Leoncio Tan, to Bendix Corporation, The. Automatic speed control. 3,727,517, 4-17-73, Cl. 91-361.000.
Slavin, Michael; and Carp, Ralph W., to Bendix Corporation, The. Hydraulic pressure modulator for use in adaptive braking systems. 3,754,796, 8-28-73, Cl. 303-21.00f.
Slavin, Rady Mikhailovich; Levin, Vilyam Lvovich; and Kishechnikov, Sergei Andreevich. Installation for automatic placement of eggs into cellular trays. 3,763,625, 10-9-73, Cl. 53-62.000.
Slavinski, Antony. Spray devices for hair lacquer. 3,724,723, 4-3-73, Cl. 222-110.000.
Slavsky, Robert J., to Shaw & Slavsky, Inc. Display marker clip. 3,711,973, 1-23-73, Cl. 40-11.00r.
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Slawinski, Frank E., to ICI America Inc. Packaged explosive. 3,731,625, 5-8-73, Cl. 102-24.00r.
Slaybaugh, Loren E., to Republic Industries, Inc. Sliding swinging door suspension. 3,750,334, 8-7-73, Cl. 49-177.000.
Slaymaker, Wilbur L.; and Long, John H., to Sperry Rand Corporation. Transport lock link for a mower conditioner. 3,739,560, 6-19-73, Cl. 56-228.000.
Sleder, Richard L., to Brunswick Corporation. Rotation sensing pulse control generator for triggered ignition systems and the like. 3,739,759, 6-19-73, Cl. 123-148.00e.
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Sleggs, Alton C.; and Miller, William A., to Carborundum Company, The. Coating fused cast blocks with refactory paper to prevent spalling in hot repairs. 3,708,562, 1-2-73, Cl. 264-30.000.
Sleishman, Donald Eric. Drum pedal device. 3,750,517, 8-7-73, Cl. 84-422.000.
Slemmons, Arthur J., to FMC Corporation. Dynamically balanced power transmission. 3,730,013, 5-1-73, Cl. 74-243.0fc.
Slemmons, Arthur J. Air foil with vortex generators. 3,776,170, 12-4-73, Cl. 114-103.000.
Slemmons, John W. Stock market charting apparatus. 3,731,387, 5-8-73, Cl. 33-76.00r.
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Sletten, Carlyle J.; Goggins, William B., Jr.; and Blacksmith, Philipp, to United States of America, Air Force. Non-integral radar phase comparison system for object recognition. 3,719,945, 3-6-73, Cl. 343-55.00a.
Sletten, Carlyle J.; Goggins, William B., Jr.; and Blacksmith, Philipp, to United States of America, Air Force. Radar phase comparison system including a superhetrodyne receiver. 3,719,946, 3-6-73, Cl. 343-55.00a.
Sletten, Carlyle J.; Schell, Allan C.; Mack, Richard B.; Goggins, William B., Jr.; and Blacksmith, Philipp, to United States of America, Air Force. Radar phase comparison method and system for object recognition. 3,725,917, 4-3-73, Cl. 343-55.00a.
Sletten, Carlyle J.; and Holt, F. Sheppard, to United States of America, Air Force. Method for improving the target position vector accuracy of an anti radar. 3,735,399, 5-22-73, Cl. 343-7.700.
Sletten, Carlyle J.; and Holt, F. Sheppard, to United States of America, Air Force. Anti radar clutter cancelling method and apparatus. 3,735,400, 5-22-73, Cl. 343-7.700.
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Sletzinger, Meyer; Karady, Sandor; Ly, Manuel G.; and Pines, Seemon H., to Merck & Co., Inc. Alpha-(alkanoylhydrazino)-beta-(3,4-di-oxysubstituted phenyl)propionamides. 3,732,301, 5-8-73, Cl. 260-559.00h.
Sletzinger, Meyer; Reinhold, Donald F.; and Harmetz, Ronald, to Merck & Co., Inc. Preparation of 1-aryl-3-indenlyl acetic acids. 3,766,259, 10-16-73, Cl. 260-515.00a.
Sletzinger, Meyer; Chemerda, John M.; and Gal, George, to Merck & Co., Inc. Process for preparing 3-indolyl acetic acids. 3,775,429, 11-27-73, Cl. 260-326.13a.
Slevin, James T. Mechanical ball throwing device. 3,722,494, 3-27-73, Cl. 124-7.000.
Slevin, Julian B. Container carrier. 3,712,505, 1-23-73, Cl. 220-111.000.
Slezak, Imogene F. Teaching garment. 3,724,101, 4-3-73, Cl. 35-35.00r.
Slick Corporation, The: *See—*
Ray, Frank M., 3,757,497.
Slick, Edward C.: *See—*



Burkhart, John H.; and Slick, Edward C., 3,716,421.
Slick Tripod Co., Ltd.: *See—*
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Burkhart, John H.; and Slick, Edward C., 3,716,421.
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Slider, Gordon R. Basketball practice glove. 3,707,730, 1-2-73, Cl. 2-161.00a.
Slifer Manufacturing Company, Incorporated: *See—*
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Slifert, Helmut: *See—*
Landt, Uwe; Slifert, Helmut; and Bretschneider, Otto, 3,768,790.
Sliger, Boyd P., to Robertshaw Controls Company. Thermal power element. 3,719,085, 3-6-73, Cl. 73-368.300.
Sliger, Boyd P., to Robertshaw Controls Company. Electrical switch construction and control system utilizing the same. 3,771,088, 11-6-73, Cl. 337-123.000.
Slijkerman, Nicolaas Petrus; and Esveldt, Cornelis Jacobus, to U.S. Philips Corporation. Annular magnet core built up from a soft magnetic ferrite material and method of manufacturing the same. 3,717,578, 2-20-73, Cl. 252-62.610.
Slijkerman, Petrus Nicolaas: *See—*
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Sliker, Lawrence S.: *See—*
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Sliker, Lawrence S., to International Scanning Devices, Inc. Clocked scanning system. 3,736,462, 5-29-73, Cl. 315-84.600.
Sliker, Lawrence S., to International Scanning Devices, Inc. Electroluminescent device. 3,749,977, 7-31-73, Cl. 315-276.000.
Slingerland Drum Co.: *See—*
Hoellerich, John L., 3,722,349.
Hoellerich, John L., 3,774,823.
Slingluff, Eugene L.; and Ostoich, Eli, to Sunlite Plastics, Inc. Radiographically opaque plastic tubing. 3,749,134, 7-31-73, Cl. 138-177.000.
Slingsby, Thomas W.; Neville, Hugh C.; and Heise, Karl A., to Richmond Graphic Systems, Inc. Diffusion transfer printing plate processor. 3,776,119, 12-4-73, Cl. 95-89.00a.
Slitanakis, George P., to Allegheny Ludlum Industries, Inc. Electrical device casing materials. 3,753,187, 8-14-73, Cl. 336-90.000.
Sliwinski, Frederick J.: *See—*
Colby, Daniel E.; Rogers, Philip E.; and Sliwinski, Frederick J., 3,728,429.
Sliwkowski, Joseph J.: *See—*
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Sliwkowski, Joseph J., to Computervision Corporation. Exposure control system and method for photoplotters. 3,746,446, 7-17-73, Cl. 355-68.000.
Sloan, Albert E.: *See—*
Gurwicz, David; and Sloan, Albert E., 3,757,140.
Sloan, Benjamin Johnston, Jr.; Martin, Billy M.; Clevenger, Loyd H.; and Dunn, Roger S. Integrated circuit process utilizing orientation dependent silicon etch. 3,768,150, 10-30-73, Cl. 29-578.000.
Sloan, Cephas H.: *See—*
Reynolds, Jefferson W.; and Sloan, Cephas H., 3,724,469.
Sloan, Clark E., Jr., to General Motors Corporation. Vibrator type electrical circuit interrupter. 3,735,311, 5-22-73, Cl. 337-108.000.
Sloan, Crawford J., to Dunlap, Forrest, Jr. Reclining chair and mechanism therefore. 3,743,348, 7-3-73, Cl. 297-85.000.
Sloan, Crawford J., to Dunlap, Forrest, Jr. Reclining chair and mechanism therefor. 3,756,651, 9-4-73, Cl. 297-85.000.
Sloan, Donald A., to Bahnson Company, The. Automatic control system for traveling cleaners. 3,714,676, 2-6-73, Cl. 15-312.00r.
Sloan, Donald D.; and Amberker, Suresh D., to Dennison Manufacturing Company. Electrothermographic duplicating sheet and process. 3,762,944, 10-2-73, Cl. 117-201.000.
Sloan, Earl L., III: *See—*
Webster, Jonathan C.; Sloan, Earl L., III; and Ganssen, Alexander, 3,725,798.
Sloan, Harold L.: *See—*
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Sloan, James, to Cross River Products, Inc. Child carrier. 3,713,568, 1-30-73, Cl. 224-6.000.
Sloan, John L.; and Peters, Palmer B. Layerout gauge. 3,731,390, 5-8-73, Cl. 33-189.000.
Sloan, Joseph: *See—*
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Sloan, Lloyd E.: *See—*
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Sloan, Mangum W. Method of precasting a masonry wall panel. 3,768,225, 10-30-73, Cl. 52-743.000.
Sloan, Raymond L.; and Sloan, Harold L. Cart for transporting monuments or the like. 3,747,787, 7-24-73, Cl. 214-390.000.
Sloan, Robert E.: *See—*
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Sloan Technology Corporation: *See—*
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Sloane, Barbara: *See—*
Sloane, Nathan H., 3,711,377.
Sloane, Edwin A.; and Heizman, Charles L., to Time/Data Corporation. System for digitally controlling a vibration testing environment or apparatus. 3,710,082, 1-9-73, Cl. 235-151.000.
Sloane, Howard J., to Beckman Instruments, Inc. Optical scattering filter. 3,722,977, 3-27-73, Cl. 350-1.000.
Sloane, Howard J.; and Keahl, Gerald T., to Beckman Instruments, Inc. Optical scattering filter with hygroscopic material. 3,722,978, 3-27-73, Cl. 350-1.000.
Sloane, Ivan Henry; deceased (by Sloane, Laura Catherine McConnell; executrix); Mailhot, Armand Ludovic; Beliveau, Roger Louis; and Sawhney, Harbans Lal, to Johns-Manville Corporation. Reinforced asbestos paper yarn and method of making same. 3,729,917, 5--73, Cl. 57-140.00g.
Sloane, Jack: *See—*
Pankow, Norman N.; and Sloane, Jack, 3,734,336.
Sloane, Laura Catherine McConnell: *See—*
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Sloane, Nathan H., to Sloane, Barbara. Method of production of urokinase. 3,711,377, 1-16-73, Cl. 195-66.00b.
Sloane, R & G, Manufacturing Company, Inc.: *See—*
Kelsey, David H.; Putzier, Charles W.; and McColgan, John M., 3,740,290.
Kelsey, David H., 3,770,547.
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Wise, Eugene H.; and Galt, Homer W., 3,712,584.
Wise, Eugene H.; and Friend, Alden E., 3,726,050.
Sloane, Thomas E., Jr.: *See—*
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Sloane, Thomas E., Jr.; Hart, William; and Pester, William B., to Mattel, Inc. Telephone toy with phonograph. 3,769,744, 11-6-73, Cl. 46-33.000.
Slobbe, Walter W.: *See—*
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Slobodnik, Andrew J., Jr., to United States of America, Air Force. High coupling low diffraction acoustic surface wave delay line. 3,725,827, 4-3-73, Cl. 333-30.000.
Slobodnik, Andrew J., Jr., to United States of America, Air Force. Low velocity zero temperature coefficient acoustic surface wave delay line having group and phase velocity vector coincidence. 3,771,072, 11-6-73, Cl. 333-30.00r.
Slobodnik, Andrew J., Jr., to United States of America, Air Force. Low velocity zero temperature coefficient acoustic surface wave delay line. 3,772,618, 11-13-73, Cl. 333-30.00r.
Slocombe, Sidney Charles: *See—*
Cohen, Vivian; and Slocombe, Sidney Charles, 3,742,306.
Slocum, Charles W.: *See—*
Ehrens, Henry; and Slocum, Charles W., 3,725,757.
Slocum, Edgar W.: *See—*
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Slocum, Fred H., to Robroy Industries. Explosion proof junction box. 3,724,706, 4-3-73, Cl. 220-3.800.
Slocum, Gordon K.: *See—*
McIntosh, Harold A.; Slocum, Gordon K.; and Koskolos, Nick J., 3,740,688.
Slodki, Morey E.; Smiley, Millie Jo; and Hensley, Dwight E., to United States of America, Agriculture. Production of mannans by fermentation. 3,713,979, 1-30-73, Cl. 195-31.00p.
Sloeva, Galina Nikolaevna: *See—*
Belkin, Nikolai Vasilievich; Alexandrovich, Eduard-Gely Vitalievich; Razin, Anatoly Alexandrovich; Kanunov, Mikhail Alexeevich; Tsukerman, Veniamin Aronovich; Sloeva, Galina Nikolaevna; Tsvetkov, Leonard Vasilievich; and Dron, Ninel Alexeevna, 3,716,737.
Slof, Alius; and Smejkal, Vladimir, to Vyzkumny ustav pletarsky. Working element of a knitting machine provided with at least one butt. 3,748,875, 7-31-73, Cl. 66-123.000.
Slof, Alois; and Smejkal, Bruno, to Uyzkumny Ustav Pletarsky. Working element of a knitting machine provided with a butt. 3,712,083, 1-23-73, Cl. 66-123.000.
Sloger, Thomas L. Vehicle electrical locking and alarm system. 3,714,628, 1-30-73, Cl. 340-64.000.
Sloma, Richard O.: *See—*
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Slominski, Leo J.; Landau, Adela; and Siegmund, Arthur J., to Mac Dermid Incorporated. Solution and method for dissolving copper. 3,717,521, 2-20-73, Cl. 156-19.000.





Slominski, Walter V., to Hoover Ball and Bearing Company. Connector and stiffener member for intersecting wires. 3,715,766, 2-13-73, Cl. 5-247.000.
Slominski, Walter V., to Hoover Ball and Bearing Company and Sealy, Inc. Box spring frame. 3,755,833, 9-4-73, Cl. 5-247.000.
Slomo, Stephen: *See—*
Chakrabarti, Jiban Kumar; and Slomo, Stephen, 3,746,761.
Slonimsky, Grigory Lvovich; Tolstoguzov, Vladimir Borisovich; Frshova, Vera Alexandrovna; and Izjumov, Dmitry Borisovich, to Ordena Lenina Institut Elementoorganicheskikh Soedineny. Granular protein containing food product resembling the natural caviar ofsturgeon, salmon and other fish, and a method of preparing same. 3,717,469, 2-20-73, Cl. 99-14.000.
Slonina, Jean-Pierre: *See—*
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Slosberg, Davis K.: *See—*
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Slosiarek, Michael L.: *See—*
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Slosirek, Michael L.: *See—*
Davis, Owen R.; Haupt, Robert C.; Hansen, Kenneth N.; and Slosirek, Michael L., 3,732,941.
Sloter, James W. Vehicle towing means. 3,716,152, 2-13-73, Cl. 214-86.00a.
Slough, Carlton M., to Texaco Inc. Electrostatic field strength measuring apparatus. 3,761,803, 9-25-73, Cl. 324-32.000.
Slough, Ronald S.; and Jones, Robert D., to Fairfield Engineering and Manufacturing Co. Apparatus for liquid composing. 3,778,233, 12-11-73, Cl. 23-259.100.
Sloughfy, James L.: *See—*
Lynn, John D.; and Sloughfy, James L., 3,770,213.
Sloughfy, James L.; and Fegan, Lloyd V., Jr., to Bethlehem Steel Corporation. Method for producing weather-resistant superfluxed metallized pellets from iron-bearing fines and a superfluxed metallized pellet produced thereby. 3,751,241, 8-7-73, Cl. 75-3.00.
Slovenkai, Stephen V.: *See—*
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Slover, Vasel R., Jr.: *See—*
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Sexton, James H.; Slover, Vasel R., Jr.; Patton, Bobbie J.; and Gravley, Wilton, 3,770,006.
Slover, Vasel R., Jr.; Hawk, Daniel E.; and Brady, Jack C. Means to prevent inward leakage across seals in a well tool. 3,741,321, 6-26-73, Cl. 175-40.000.
Slovonsky, Idalee: *See—*
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Slowinski, Raymond P.: *See—*
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Sloyan, Jerome J. Machinery base with slidable carriage having slue counteracting means. 3,753,542, 8-21-73, Cl. 248-23.000.
Sluetz, Edward J.: *See—*
Kiwalle, Jozef; Merritt, Paul H.; and Sluetz, Edward J., 3,725,997.
Sluhan, Clyde A., to Master Chemical Corporation. Method of supplying an aqueous cutting fluid to machine tools. 3,750,847, 8-7-73, Cl. 184-1.00e.
Sluis, Pieter A. Article orienting machine. 3,750,800, 8-7-73, Cl. 198-33.0aa.
Slumberland Group Limited: *See—*
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Slumberland Products Co.: *See—*
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Slusarchyk, Dorothy Smith: *See—*
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Slusarski, John F., to Magnavox Company, The. Method and apparatus for modifying electrical signals. 3,729,578, 4-24-73, Cl. 178-5.4he.
Slusher, Emmet Garr, to Bank of Higginsville. Flexible auger. 3,727,746, 4-17-73, Cl. 198-213.000.
Slutsky, Ivan Ivanovich; and Poyarkov, Oleg Petrovich. Overhead transporter and reloader. 3,770,137, 11-6-73, Cl. 212-12.000.
Slutsky, Robert. Trailer testing apparatus. 3,737,767, 6-5-73, Cl. 324-51.000.
Sluyter, Robert Johannes: *See—*
Van Gerwen, Petrus Josephus; and Sluyter, Robert Johannes, 3,753,115.
Sly, Thomas L., to Anaren Microwave, Incorporated. Microwave signal attenuator. 3,775,708, 11-27-73, Cl. 333-81.00a.
Slye, Norman J.; and Diring, James A., to Alwin Manufacturing Company, Inc. Universal towel dispenser. 3,754,681, 8-28-73, Cl. 221-45.000.
Slykhouse, Thomas E.: *See—*
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Slykhouse, Thomas E., to Dow Chemical Company, The. Explosive composition containing monocellular thermoplastic globules and method of preparing same. 3,773,573, 11-20-73, Cl. 149-21.000.
Slysh, Paul; and Hujsak, Edward J., to General Dynamics Corporation. Spaced wall container. 3,713,560, 1-30-73, Cl. 220-15.000.
Slysh, Paul, to General Dynamics Corporation. Reciprocating thermal engine. 3,772,876, 11-20-73, Cl. 60-529.000.
Slyvakov, Vladimir Egorovich. Device for cutting braided chemical fibers. 3,776,084, 12-4-73, Cl. 83-342.000.
Smagala-Romanoff, Edward A., 12% to Coles; Charles F., 10% to Weld, Christopher M., 1% to Leighton, Sally C., 1% to Hornblower, Henry, 1% to Perrin, Michael J., 1% to Gikas, John, 1% to Tenn, James and 20% to Steward, Campbell. Point protectors for writingimplements. 3,740,159, 6-19-73, Cl. 401-117.000.
Smagala-Romanoff, Edward A., 12% to Coles, Charles F., 10% to Weld, Christopher M., 1% to Leighton, Sally C., 1% to Hornblower, Henry, 1% to Perrin, Michael J., 1% to Gikas, John and 1% to Tenn, James. Writing implements. 3,741,665, 6-26-73, Cl. 401-117.00.
Smaiko, Joseph S., to McDonnell Douglas Corporation. Non-gassing battery separator and method of production. 3,761,315, 9-25-73, Cl. 136-20.000.
Smajo, Joseph J., to Unilux Graphics, Inc., mesne. Device for determining proper color balance in color printing. 3,718,397, 2-27-73, Cl. 355-88.000.
Smale, Charles H.; and Spears, Esten W., Jr., to General Motors Corporation. Variable convergent-divergent jet propulsion nozzle. 3,712,547, 1-23-73, Cl. 239-265.390.
Smale, John Reginald; and Robson, Francis Lambert. Mechanical seals and/or thrust bearings. 3,746,349, 7-17-73, Cl. 277-67.000.
Small, Albert W. Cipher device and method. 3,718,349, 2-27-73, Cl. 283-17.000.
Small, Augustus B.; Gorman, Paul T.; and McGarry, Frederick J., to Esso Research and Engineering Company. Laminated construction of cellular plastic material. 3,734,811, 5-22-73, Cl. 161-37.000.
Small, Bernard J. Apparatus and process for forming tubular bodies. 3,772,752, 11-20-73, Cl. 29-157.00r.
Small Business Investment Company of New York, mesne: *See—*
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Small, Charles B.: *See—*
Kaatz, Herbert W.; Small, Charles B.; and Branch, Arthur, 3,720,388.
Small, Donald I. Disposable plastic slipper. 3,775,873, 12-4-73, Cl. 36-11.500.
Small, Edward A., Jr.: *See—*
Gelber, Robert M.; and Small, Edward A., Jr., 3,736,047.
Small, Edward R.: *See—*
Hirai, Robert K.; Boomer, John H.; and Small, Edward R., 3,715,943.
Small, George Milton. Method and apparatus for packing vehicles on movable platforms. 3,710,957, 1-16-73, Cl. 214-16.1cc.
Small, Hervey W. Trigger safety lock for firearms. 3,711,979, 1-23-73, Cl. 42-1.00y.
Small, James E.; and Jeffries, Sampson F., to Dow Chemical Company, The. Tablet coating process and composition. 3,751,277, 8-7-73, Cl. 106-213.000.
Small, James G., to Massachusetts Institute of Technology. Pulsed gas laser. 3,757,248, 9-4-73, Cl. 331-94.500.
Small, Jeff H. Closable shade cowl provided curtain hanger brackets. 3,719,220, 3-6-73, Cl. 160-108.000.
Small, Norman J. H.: *See—*
Calow, John R. B.; Small, Norman J. H.; and Bull, Brian, 3,761,404.
Small, Norman J. H.; and Edhouse, Christopher J., to Shell Oil Company. Oil compositions. 3,772,169, 11-13-73, Cl. 252-56.00r.
Small, Ralph E., to General Motors Corporation. Hydraulic valve for vehicle leveling. 3,727,947, 4-17-73, Cl. 280-124.00f.
Small, Richard B., to Texas Instruments, Incorporated. Method of mounting electronic devices. 3,750,269, 8-7-73, Cl. 29-580.000.
Small Tube Products, Inc.: *See—*
Pearce, Harry T., 3,716,902.
Small, William M., to Phillips Petroleum Company. Tube supports. 3,708,142, 1-2-73, Cl. 248-49.000.
Small, William M.; and Petree, Donald K., to Phillips Petroleum Company. Indirect heat transfer apparatus. 3,739,841, 6-19-73, Cl. 165-146.000.
Small World Importing Corporation: *See—*
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Smallbone, Allan H., to Applied Research Laboratories, Inc. Liquid cell for X-ray fluorescence analysis. 3,742,226, 6-26-73, Cl. 250-51.500.
Smalldon, Thomas J., II: *See—*
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Smaller, Philip. Double coated storage medium for contact transfer recording. 3,725,611, 4-3-73, Cl. 179-100.20a.
Smaller, Philip. Apparatus for holding magnetic tapes in intimate contact. 3,752,925, 8-14-73, Cl. 179-100.20e.
Smaller, Philip. Long wavelength signal enhancement for contact magnetic transfer recording. 3,752,926, 8-14-73, Cl. 179-100.20e.
Smaller, Philip. Direct contact transfer of long wavelength signals efficient. 3,760,123, 9-18-73, Cl. 179-100.20e.
Smalley, Richard, to Smalley, Richard, (Engineering) Limited. Excavating and/or loading devices. 3,724,693, 4-3-73, Cl. 214-138.00c.
Smalley, Richard, (Engineering) Limited: *See*—
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Smalligan, Lenore R. Writing aid. 3,778,910, 12-18-73, Cl. 35-37.000.
Smallwood, Donald L., to Dover Corporation. Anti-contamination vent valve. 3,736,950, 6-5-73, Cl. 137-202.000.
Smalser, Paul Joseph, to RCA Corporation. Loop antenna with distributed impedance near the terminating gap. 3,761,933, 9-25-73, Cl. 343-740.000.
Smarook, Walter H., to Union Carbide Corporation. Molding device. 3,765,810, 10-16-73, Cl. 425-110.000.
Smarook, Walter Henry: *See*—
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Smarook, Walter Henry, to Union Carbide Corporation. Ethylene/alpha, beta-unsaturated acid interpolymers as adhesive systems for polyurethanes. 3,765,928, 10-16-73, Cl. 117-72.000.
Smart, Daniel Henry: *See*—
Baker, Henry Louis; Quinton, Kenneth Charles; and Smart, Daniel Henry, 3,735,037.
Smart, David Ol, IV; Pennington, Grover B.; Plettner, Richard M.; and Maughan, Robert F., to $BiO_2$ Systems, Inc. Extended aeration, activated sludge plant. 3,709,363, 1-9-73, Cl. 210-195.000.
Smart, Edwin Robert, to Telomex Group Limited. Computing circuits for the calculation of the standard deviation of an input signal. 3,763,361, 10-2-73, Cl. 235-151.130.
Smart, Ernest F., to Westinghouse Electric Corporation. Form-crimping apparatus for the manufacture of electrical components. 3,735,467, 5-29-73, Cl. 29-203.00d.
Smart, Horace Stanley, 1/2 to Mills, Reginald Richard. Injection molding apparatus. 3,759,315, 9-18-73, Cl. 164-120.000.
Smart, Jay A., to Won-Door Corporation. Door control system for folding doors. 3,720,254, 3-13-73, Cl. 160-193.000.
Smart, Ray F. Tool for administering pills to animals. 3,757,781, 9-11-73, Cl. 128-223.000.
Smart, Raymond C.: *See*—
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Smart, Richard C.; and Swonger, Kenneth D., to Martin Marietta Corporation. Blood pulse measuring employing reflected red light. 3,769,974, 11-6-73, Cl. 128-2.05p.
Smathers, Harry W.; and Moffa, Joseph, to Armco Steel Corporation. Resilient coupling. 3,711,129, 1-16-73, Cl. 285-235.000.
Smatko, Joseph S.: *See*—
Strier, Murray P.; and Smatko, Joseph S., 3,713,890.
Smatko, Joseph S., to McDonnell Douglas Corporation. Ceramic separator and filter and method of production. 3,711,336, 1-16-73, Cl. 136-146.000.
Smatko, Joseph S., to McDonnell Douglas Corporation. Low-gassing high strength battery separator and method of production. 3,734,781, 5-22-73, Cl. 136-146.000.
Smatko, Joseph S., to McDonnell Douglas Corporation. Non-gassing battery separator and method of production. 3,736,185, 5-29-73, Cl. 136-30.000.
Smatko, Joseph S., to McDonnell Douglas Corporation. Substantially non-gassing alkali resistant battery separator and method of production. 3,756,857, 9-4-73, Cl. 136-30.000.
Smatlak, Charles J., to Westinghouse Electric Corporation. Durable transparent mask for photolithographical processing and method of making the same. 3,743,417, 7-3-73, Cl. 355-125.000.
Smead, David E., to Minnesota Mining and Manufacturing Company. System for reproducing digital information. 3,725,646, 4-3-73, Cl. 235-61.11d.
Smead, Robert G.: *See*—
Kozinski, David Arthur; Kozinski, Joseph; Singel, Frank M.; and Smead, Robert G., 3,767,115.
Smeal, Thomas W., to United States Steel Corporation. Epoxy adhesive composition. 3,773,703, 11-20-73, Cl. 260-33.6ep.
Smearing, Robert W.: *See*—
Kohn, Leo S.; and Smearing, Robert W., 3,779,950.
Smearing, Robert W., to General Electric Company. Electrical insulation. 3,778,536, 12-11-73, Cl. 174-121.0sr.
Smeaton, John R.: *See*—
Marshall, Hamilton W., Jr.; and Smeaton, John R., 3,725,204.
Smed, Preben, to Packaline AG. Plates blank for carrying devices for bottles and a carrying device for bottles. 3,711,143, 1-16-73, Cl. 294-87.200.
Smedberg, George E., to Du Pont de Nemours, E. I., and Company. High filler content hot melt backsize adhesive compositions. 3,745,054, 7-10-73, Cl. 161-67.000.
Smedley, Richard W.; and Mack, Earl J., to Cerco Corporation. Stacking connection and locking device therefor. 3,709,163, 1-9-73, Cl. 108-53.000.
Smedley, Richard W. Lock for skis. 3,739,607, 6-19-73, Cl. 70-18.000.
Smedley, William H.: *See*—
Gay, Derek J.; Smedley, William H.; and Miller, Anthony D., 3,717,136.
Gay, Derek J.; and Smedley, William H., 3,721,317.
Smedley, William L. Well packer and pump apparatus. 3,734,179, 5-22-73, Cl. 166-106.000.
Smedley, William L. Method of increasing capacity in a well. 3,734,190, 5-22-73, Cl. 166-315.000.
Smedley, William L. Pump-pulling apparatus for wells. 3,741,525, 6-26-73, Cl. 254-139.000.
Smedley, William L. Method of introducing fluid treatment to a well. 3,770,058, 11-6-73, Cl. 166-310.000.
Smeets, Alfred, to Citrex, S.A. Aquenous detergent compositions. 3,720,621, 3-13-73, Cl. 252-135.000.
Smeets, Fred, to N.V. La Citrique Belge. Unsaturated carboxylic esters. 3,733,315, 5-15-73, Cl. 260-234.00r.
Smeets, Fred, to N.V. "La Citrique Belge". Unsaturated carboxylic salt materials and derivatives thereof. 3,742,029, 6-26-73, Cl. 260-481.00r.
Smeets, Fred, to N.V. "La Citrique Belge". Unsaturated carboxylic salt materials and derivatives thereof. 3,742,030, 6-26-73, Cl. 260-481.00r.
Smejkal, Bruno: *See*—
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Smejkal, Hellmuth: *See*—
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Schweng, Otto; Smejkal, Hellmuth; Vereb, Hans; and Eicher, Karl, 3,750,952.
Smejkal, Hellmuth; and Schwarz, Walter, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Braking means for a flexible connecting element which is resiliently supported at one end and may be stressed in shocks. 3,710,424, 1-16-73, Cl.24-123.00r.
Smejkal, Hellmuth; and Poferl, Gunter, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Water-cooled measuring probe for continuously measuring the temperature of hot liquid metal baths in great basic oxygen converters. 3,757,579, 9-1-73, Cl. 73-343.00r.
Smejkal, Vladimir: *See*—
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Smejtek, Pavel: *See*—
Fritzsche, Hellmut; Ovshinsky, Stanford R.; Shaw, Robert F.; Silver, Marvin; and Smejtek, Pavel, 3,748,501.
Smekens, Jan C. Tire chain applicator. 3,722,330, 3-27-73, Cl. 81-15.800.
Smekhov, Vitaly Konstantinovich: *See*—
Amosov, Pavel Evgenievich; Imyanitov, Leonid Mikhailovich; Smekhov, Vitaly Konstantinovich; Trofimov, Valery Leonidovich; Shvarts, Avely Isaich; and Shnepp, Vladimir Borisovich, 3,738,783.
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Fedorenko, Igor Nikolaevich; Gurin, Fedor Vasilievich; Smelyansky, Vadim Mikhailovich; Voronin, Alexei Vasilievich; and Kuranov, Alexei Dmitrievich, 3,732,759.
Smerd, Peter G.: *See*—
Bratton, Raymond J.; Roberts, Elwyn; and Smerd, Peter G., 3,772,147.
Smernoff, Ronald B., to Analytical Products, Inc. Automatic pipette. 3,766,785, 10-23-73, Cl. 73-425.600.
Smerz, Otto; Weckler, Gerhard; Scharf, Alfred; and Linke, Werner, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Dye levelling on and oligomer removal from polyester fibers and cellulose or polyamide blends with fatty acid dieste of butanediol-ethylene oxide condensate. 3,752,649, 8-14-73, Cl. 8-169.000.
Smerz, Otto; Linke, Werner; Schaff, Alfred; and Hess, Peter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for improving the processing properties of polyester filaments and fibres. 3,776,766, 12-4-73, Cl. 117-138.80f.
Smets, Robert: *See*—
Glaude, Philemon; Karcher, Walter; and Smets, Robert, 3,732,736.
Smeulers, Wouter: *See*—
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Smeulers, Wouter; Hovens, Paulus Joseph Maria; and Korver, Jan Abraham Cornelis, to U.S. Philips Corporation. Control-circuit for a deflection circuit of a display arrangement. 3,712,999, 1-23-73, Cl. 315-19.000.



Smeulers, Wouter, to U.S. Philips Corporation. Adjusting circuit for a chrominance signal amplifier in a colour television receiver using a differential amplifier suitable for an integrated circuit. 3,717,728, 2-20-73, Cl. 178-5.4ac.
Smeulers, Wouter, to U.S. Philips Corporation. Chrominance signal amplifier stage for a colour television receiver. 3,764,733, 10-9-73, Cl. 178-5.4sy.
Smialkowski, Edwin J.; and Lang, Edgar R., to Rohm & Haas Company. Wedge shaped optical body. 3,726,586, 4-10-73, Cl. 350-286.000.
Smialowicz, Casimir Stanley: *See*—
Kosakowski, Henry Robert; and Smialowicz, Casimir Stanley, 3,726,138.
Smialowicz, Edward H., to Garrett Corporation, The. Emergency aircraft evacuation apparatus and method. 3,771,749, 11-13-73, Cl. 244-137.00p.
Smid, Henry A., Jr., to Smid, Henry, Plumbing & Heating Co., Inc. Prefabricated plumbing partition. 3,766,574, 10-23-73, Cl. 4-191.000.
Smid, Henry, Plumbing & Heating Co., Inc.: *See*—
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Smiddy, Joseph F., 1/4 to Lorusso, Anthony M. Fiber optic entubator and method of entubation of the trachea through the nasopharynx. 3,776,222, 12-4-73, Cl. 128-6.000.
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Smiley, Millie Jo: *See*—
Slodki, Morey E.; Smiley, Millie Jo; and Hensley, Dwight E., 3,713,979.
Smiley, Nolan, Jr. Instrument control linkage. 3,763,712, 10-9-73, Cl. 74-96.000.
Smiley, Vern N., to United States of America, Navy. Wide range continuously tunable thin film laser. 3,747,021, 7-17-73, Cl. 331-94.500.
Smilgys, Bruno S.; and Ritchie, Robert C., to Veeder Industries Inc. Shearing mechanism. 3,731,576, 5-8-73, Cl. 83-587.000.
Smilgys, Bruno S., to Veeder Industries, Inc. Multiple-key lock mechanism. 3,774,227, 11-20-73, Cl. 346-54.000.
Smillie, Charles M., III. Water heated mirror for condensation control. 3,708,218, 1-2-73, Cl. 350-61.000.
Smillie, George Horn; and Johnstone, Frank, to Tronicair International Limited. Electrical heating apparatus. 3,708,650, 1-2-73, Cl. 219-364.000.
Smillie, Winston B., to Townsend and Townsend. Aerosol enzyme detergents stabilized with carbon dioxide. 3,781,212, 12-25-73, Cl. 252-89.000.
Smiltneek, Ralmond J. Debarking process and apparatus. 3,746,063, 7-17-73, Cl. 144-208.00e.
Smirl, Richard L., to Borg-Warner Corporation. Constant speed centrifugal clutch. 3,747,731, 7-24-73, Cl. 192-104.00r.
Smirl, Richard L., to Borg-Warner Corporation. Rotor for clutch or brake. 3,773,153, 11-20-73, Cl. 188-218.0xl.
Smirnov, Andrei Mikhailovich: *See*—
Lukhovitsky, Vladimir Isaakovich; Smirnov, Andrei Mikhailovich; Polikarpov, Vladimir Vasilievich; Lebedeva, Alla Mikhailovna; Lagucheva, Raisa Mizovna; and Karpov, Vladimir Lvovich, 3,709,804.
Smirnov, Boris Andreevich; Axenova, Emilia Ivanovna; Rychkov, Vladimir Leonidovich; and Lukichev, Nikolai Dmitrievich, to Vsesojuzny Nauchno-Issledovatelsky Institut Khirurgicheskoi Apparatury i Instrumentov. Surgical instrument for hysterectomy. 3,707,970 1-2-73, Cl. 128-305.000.
Smirnov, Jury Vasilievich: *See*—
Titov, Alexei Alexeevich; Smirnov, Jury Vasilievich; Mashkovsky, Jury Shabsaevich; Tamitsky, Ernest Dmitrievich; Chursin, Vladimir Nikitovich; Antonova, Ljudmila Leonidovna; and Selitskaya, Tamara Stepanovna, 3,753,717.
Smirnov, Pavel Alexandrovich: *See*—
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Nikolaev, Petr Ivanovich; Ignatov, Jury Lazarevich; Smirnov, Sergei Ivanovich; Oxengorn, Naum Izrailevich; Gigineishvili, Rimma Fominichna; Dvorkina, Klara Moissevna; and Iskandyarov, Akhmet Mukhsinyatovich, 3,779,868.
Smirnov, Vasily Ivanovich; deceased (by Epshtein, Yakov Veniaminovich; and Grigorievich, Solomon; administrators); Ivanov, Sergei Mikhailovich; and Belyaev, Nikolai Petrovich. Device for molding sheets of glass-reinforced plastics. 3,752,728, 8-14-73, Cl. 56-577.000.
Smirnov, Viktor Sergeevich: *See*—
Gryaznov, Vladimir Mikhailovich; Mischenko, Alexandr Petrovich; Smirnov, Viktor Sergeevich; and Aladyshev, Sergei Ivanovich, 3,779,711.
Smit, Johny Abram; and Kneefel, Wim Bernard Samuel Maria, to Haygens, Christiaan, Laboratorium N.V. Secondary radar system. 3,772,688, 11-13-73, Cl. 343-6.51c.
Smith, A. O., Corporation: *See*—
Aldenhoff, Bernard J., 3,774,011.
Ebling, Hilmer F., 3,725,521.
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Smith, A. O., Inland, Inc.: *See*—
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Smith, Afred H., Jr.; and Beers, Melvin D., to General Electric Company. Curable compositions. 3,708,467, 1-2-73, Cl. 260-185.000.
Smith, Alan J.; and Irwin, Irwin L., to Colight, Inc. Developing mechanism for microfilm. 3,774,520, 11-27-73, Cl. 95-89.00r.
Smith, Albert C., Jr.: *See*—
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Smith, Albert C., Jr., to Eastman Kodak Company. Coupler dispersions utilizing cyclohexane-containing esters as coupler solvents. 3,748,141, 7-24-73, Cl. 96-100.000.
Smith, Albert L.: *See*—
Cronin, David J.; Pinard, Alward I.; and Smith, Albert L., 3,770,340.
Smith, Albert L., to Armstrong Cork Company. Installation tool. 3,772,758, 11-20-73, Cl. 29-235.000.
Smith, Alexander Steel; and Bailey, Ernest Arthur. Bags and bag-supplying apparatus. 3,715,854, 2-13-73, Cl. 53-29.000.
Smith, Alfred A. Crutch with adjustable handgrip. 3,768,495, 10-30-73, Cl. 135-51.000.
Smith, Alfred E. Safety shield for powered lawn equipment. 3,716,975, 2-20-73, Cl. 56-17.400.
Smith, Alfred H., Jr.; and Murphy, Robert A., to General Electric Company. Moisture-thickened silicone compounds. 3,730,938, 5-1-73, Cl. 260-37.0sb.
Smith, Allan L.; and Bowen, James G. Self-cleaning emitter. 3,780,946, 12-25-73, Cl. 239-107.000.
Smith, Allan Marshall, to RCA Corporation. Carry ripple network for conditional sum adder. 3,743,824, 7-3-73, Cl. 235-175.000.
Smith, Allen, to Reyrolle Parsons Limited. Centrifugal separators. 3,759,016, 9-18-73, Cl. 55-452.000.
Smith, Allen C.: *See*—
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Smith, Andrew W., Jr., to Westinghouse Electric Corporation. Gauge control method and apparatus for metal rolling mills. 3,709,008, 1-9-73, Cl. 72-8.000.
Smith, Arthur A.; Christensen, Dean E.; Campbell, Billy H.; Strickland, Raymond I.; Lopez, Bennie F.; Eckstein, Herbert P.; and Litchfield, Hart S., to United States of America, Army. Rate aided target illuminator. 3,765,752, 10-16-73, Cl. 350-289.000.
Smith, Arthur Dean: *See*—
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Smith, Arthur G.; and Ki Kim, Yung, to Dow Corning Corporation. Fluorosilicone polymers. 3,729,445, 4-24-73, Cl. 260-46.50r.
Smith, Arthur W.; Plummer, Ray A.; and Johnson, Charles Wayne. Well production testing and flow characteristic evaluation methods using small diameter tubing. 3,722,589, 3-27-73, Cl. 166-250.000.
Smith, Arthur W.; Plummer, Ray A.; and Johnson, Charles Wayne. Well methods using small diameter tubing. 3,722,594, 3-27-73, Cl. 166-305.00r.
Smith, Arthur W.; and Baggenstoss, Elmer J., to Ecology Engineering and Manufacturing Inc., mesne. Grinder pump. 3,726,486, 4-10-73, Cl. 241-46.110.
Smith, Ashley P., to Northrop Carolina, Inc. Apparatus for crimping thermosetting fiber. 3,733,659, 5-22-73, Cl. 28-1.700.
Smith, Aubrey H., to Eaton Corporation. SCR motor speed control with plug sensing circuit. 3,710,216, 1-9-73, Cl. 318-373.000.
Smith, Aubrey H. Regulated power supply with diode capacitor matrix. 3,731,112, 5-1-73, Cl. 307-109.000.
Smith, Bart A.: *See*—
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Smith, Basil G., to Smith, Basil, Seals, Limited. Mechanical shaft seal. 3,758,179, 9-11-73, Cl. 308-187.100.
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Leopold, Wilbur R.; and Smith, John J., 3,746,371.
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Smith, Benry L., to Transcinor Incorporated. Tying machine. 3,771,257, 11-13-73, Cl. 47-1.000.

Smith, Bernard; and De Pietro, Anthony. Safety bottle cap. 3,764,033, 10-9-73, Cl. 215-9.000.

Smith, Bernard L. Plural bung tool. 3,733,938, 5-22-73, Cl. 81-119.000.

Smith, Bian Turton; Clegg, Trevor Edwin; and Stevens, John, to Westinghouse Brake and Signal Company, Limited. Wheel balancing apparatus. 3,754,447, 8-28-73, Cl. 73-457.000.

Smith, Billy E., to Gulf Oil Corporation. Method for cleaning oil tanker holds. 3,746,023, 7-17-73, Cl. 134-22.00r.

Smith, Boyd J.: *See—*
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Smith Brothers Properties: *See—*
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Smith, Bruce E.: *See—*
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Smith, Bruce H.: *See—*
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Smith, Buford Bryan. Roll of plastic film aprons. 3,735,865, 5-29-73, Cl. 206-58.000.

Smith, Burton H., to Raytheon Company. Broadband solid state amplifier. 3,755,753, 8-28-73, Cl. 330-53.000.

Smith, Calvin S.; and McLeod, William J., to Chevron Research Company. Hydrogen production. 3,719,749, 3-6-73, Cl. 423-650.000.

Smith, Carl A.: *See—*
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Smith, Carl E.; and Musselman, John D., to Smith Electronics, Inc. Low-loss antenna system with counterpoise insulated from earth. 3,742,511, 6-26-73, Cl. 343-750.000.

Smith, Carl M., to Minnesota Mining and Manufacturing Company. Curable epoxy organopolysiloxanes having pendant chromophoric groups. 3,741,932, 6-26-73, Cl. 260-46.50e.

Smith, Charles A., to Sperry Rand Corporation. Baler feeder with material accumulation prevention means at the outboard end. 3,720,161, 3-13-73, Cl. 100-189.000.

Smith, Charles A., Jr. Neckpiece. 3,775,776, 12-4-73, Cl. 2-149.000.

Smith, Charles C.: *See—*
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Smith, Charles F.: *See—*
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Smith, Charles Harry, to Purex Corporation, Ltd. Gauge recording maximum pressure. 3,779,080, 12-18-73, Cl. 73-396.000.

Smith, Charles L.; and Webster, William C., to Corson, G. & W. H., Inc. Process for treating aqueous chemical waste sludges and composition produced thereby. 3,720,609, 3-13-73, Cl. 210-59.000.

Smith, Charles T.; and Ady, Irvin B. Plant watering and fertilizing device. 3,757,469, 9-11-73, Cl. 47-48.500.

Smith, Charles W., to GTE Sylvania Incorporated. Apparatus for measuring and marking aperture masks. 3,744,905, 7-10-73, Cl. 356-156.000.

Smith, Chester A. M., to Canadian Patents and Development Limited. Stowable freight restraining apparatus. 3,752,086, 8-14-73, Cl. 105-369.00b.

Smith, Chester L.; and Szabo, Louis R., to United States of America, Army. Flame color signature apparatus. 3,755,680, 8-28-73, Cl. 250-226.000.

Smith, Chrisman O.: *See—*
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Smith, Clair C.: *See—*
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Smith, Clarence G., to Mobil Oil Corporation. Timing number generator. 3,714,663, 1-30-73, Cl. 346-23.000.

Smith, Clarence J., to Shaler Company, The. Method of making tire studs. 3,717,927, 2-27-73, Cl. 29-517.000.

Smith, Claude A.; and Williams, Donald L., to General Motors Corporation. Temperature-responsive clutch. 3,730,151, 5-1-73, Cl. 123-41.120.

Smith, Claude A., to General Motors Corporation. Infinitely adjustable bearing mounting assembly. 3,770,994, 11-6-73, Cl. 308-207.000.

Smith, Clifford E.: *See—*
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Smith, Cloyd D.; and Schmidt, James H., to General Acoustics Corporation. Jet engine noise suppression system. 3,715,009, 2-6-73, Cl. 181-33.0hc.

Smith, Clyde, to Columbia Broadcasting System, Inc. Method and apparatus for automatic video distortion correction. 3,730,984, 5-1-73, Cl. 178-6.000.

Smith, Clyde W.; and Mc Mann, Renville H., to Columbia Broadcasting System, Inc. Automatic color corrector for a color video signal. 3,735,026, 5-22-73, Cl. 178-5.40r.

Smith, Colin Francis Greening; and Bliss, Norman Stanley, to International Standard Electric Corporation. Coaxial cable inner conductor. 3,717,719, 2-20-73, Cl. 174-107.000.

Smith, Cornelius W. Demountable solid tire wheel assembly. 3,771,833, 11-13-73, Cl. 301-11.00r.

Smith, Courtland N., Jr.; and Verhagen, Edward L., to Sherman Car Wash Equipment Co. Rotary brush apparatus. 3,751,745, 8-14-73, Cl. 15-183.000.

Smith, Craig E.: *See—*
Johnson, Robert B.; and Smith, Craig E., 3,712,558.

Smith, Craig P.: *See—*
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Smith, Curtis P.; and Ulrich, Henri, to Upjohn Company, The. Process for the production of 1-halo-3-methyl and 1-halo-3,4-dimethyl phospholenes. 3,714,246, 1-30-73, Cl. 260-543.00p.

Smith, Curtis P.; and Ulrich, Henri, to Upjohn Company, The. Process for the preparation of 1-halophospholenes. 3,723,520, 3-27-73, Cl. 260-543.00p.

Smith, Curtis P.; and Ulrich, Henri, to Upjohn Company, The. Process for the preparation of 1-halophospholenes. 3,723,521, 3-27-73, Cl. 260-543.00p.

Smith, Curtis P.; and Ulrich, Henri, to Upjohn Company, The. Novel process for the production of 1-chloro-3-phospholenes. 3,737,456, 6-5-73, Cl. 260-543.00p.

Smith, Curtis P.; and Ulrich, Henri, to Upjohn Company, The. 1-Aminophospholene-1-oxides. 3,743,676, 7-3-73, Cl. 260-551.00p.

Smith, Curtis P.; and Ulrich, Henri, to Upjohn Company, The. Aminomethyl phospholenes. 3,767,708, 10-23-73, Cl. 260-563.00r.

Smith, Curtis R., to General Electric Company. Semiconductor device with positively beveled junctions and process for its manufacture. 3,742,593, 7-3-73, Cl. 29-583.000.

Smith, Dale D.; and Sullivan, James P., to Design West Incorporated. Article mounting arrangement. 3,750,890, 8-7-73, Cl. 211-75.000.

Smith, Dale R., to York Research & Development Corporation. Indexing cigar pressing machine with automatic input and output. 3,710,802, 1-16-73, Cl. 131-81.00r.

Smith, Dale R., to York Research & Development Corporation. Cigar press. 3,739,786, 6-19-73, Cl. 131-86.000.

Smith, Dallas F.: *See—*
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Smith, Dallas F.; and Arnold, Richard B., to General Electric Company. Apparatus and method for forming shaped insulators and for developing coils and for inserting insulators and coils into a magnetic core. 3,742,596, 7-3-73, Cl. 29-596.000.

Smith, Dalton L.: *See—*
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Smith, Daniel J.: *See—*
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Smith, David A.: *See—*
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Gayner, Herbert; and Smith, David A., 3,747,797.
Gayner, Herbert; and Smith, David A., 3,762,598.

Smith, David A. Detailed photometer. 3,772,517, 11-13-73, Cl. 250-209.000.

Smith, David Beaumont, to Fletcher Sutcliffe Wild Limited. Mine roof supports. 3,738,605, 6-12-73, Cl. 248-354.00h.

Smith, David Beaumont, to Fletcher Sutcliffe Wild, Limited. Mine roof supports. 3,754,402, 8-28-73, Cl. 61-45.00d.

Smith, David F. Synthetic surgical sutures. 3,757,786, 9-11-73, Cl. 128-335.500.

Smith, David Harold, to Boeing Company, The. Vortex valve shock absorber. 3,743,222, 7-3-73, Cl. 244-104.0fp.

Smith, David Henry: *See—*
Salter, David Stanley; and Smith, David Henry, 3,716,459.

Smith, David R.; and Peterson, Howard, to Staley, A. E., Manufacturing Company. Vinylidene chloride copolymer. 3,714,106, 1-30-73, Cl. 260-29.6ta.

Smith, David R.; and Peterson, Howard, to Staley, A. E., Manufacturing Company. Vinylidene chloride copolymer. 3,736,303, 5-29-73, Cl. 260-79.30m.

Smith, David W.: *See—*
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Smith, Dennis Clifford, to National Research Development Corporation. Zinc oxide-poly(acrylic acid) surgical cements. 3,751,391, 8-7-73, Cl. 260-29.60m.

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Smith, Don W.: *See—*
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Smith, Don W., to CMI Corporation. Curb slip form apparatus. 3,779,662, 12-18-73, Cl. 404-98.000.

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Smith, Donald D.; and O'Dowd, Richard J. Earth working and planting apparatus and method. 3,744,441, 7-10-73, Cl. 111-1.000.

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Smith, Donald K. Sportsman's blind. 3,709,237, 1-9-73, Cl. 135-5.00r.

Smith, Donald K. Fishing lure. 3,751,842, 8-14-73, Cl. 43-42.110.

Smith, Donald L., to United States of America, Atomic Energy Commission. Method of measuring fast-neutron flux. 3,748,472, 7-24-73, Cl. 250-371.000.

Smith, Donald O.; Harte, Kenneth J.; Cohen, Mitchell S.; Newberry, Sterling P.; and Speliotis, Dennis E., to Micro-Bit Corporation. High speed-large storage capability electron beam accessed memory method and apparatus. 3,710,352, 1-9-73, Cl. 340-173.200.

Smith, Donald Paul; and Booth, Raymond E. Apparatus for cooking food products. 3,731,614, 5-8-73, Cl. 99-404.000.

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Smith, Dresden G., to Aqua-Mec, Inc. Unloader valve for air compressor. 3,732,890, 5-15-73, Cl. 137-512.300.

Smith, Drexel Kermit, to Du Pont de Nemours, E. I., and Company. Jet device. 3,750,302, 8-7-73, Cl. 34-154.000.

Smith, Duaine E. Storage receptacle-bondler assembly. 3,779,152, 12-18-73, Cl. 100-34.000.

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Smith, Dwight K.; and Lane, Carl A., to Halliburton Company. Method for stabilizing bore holes. 3,774,683, 11-27-73, Cl. 166-293.000.

Smith, E. Quimby, Jr., to United States of America, Navy. Combined rocket-ram-jet aircraft. 3,724,216, 4-3-73, Cl. 60-245.000.

Smith, Earl W. Adjustable shower fixture. 3,724,760, 4-3-73, Cl. 239-282.000.

Smith, Edmund G.; and Hood, John W. Microbial biolysis process. 3,718,582, 2-27-73, Cl. 210-6.000.

Smith, Edson W., to American La France, Inc., mesne. Power transmission with lubricating means. 3,724,598, 4-3-73, Cl. 184-6.100.

Smith, Edward A., to GAF Corporation. Extended filter bag. 3,757,957, 9-11-73, Cl. 210-486.000.

Smith, Edward A., to Eastman Kodak Company. Persulfate bleach-fix solution. 3,772,020, 11-13-73, Cl. 96-60.0bf.

Smith, Edward A., to GAF Corporation. Liquid filter pressurized apparatus. 3,774,769, 11-27-73, Cl. 210-232.000.

Smith, Edward Howard. Liquid body waste disposal system. 3,757,357, 9-11-73, Cl. 4-114.000.

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Smith, Edward P., to Ohio Brass Company, The. Ground wire monitoring circuit. 3,771,020, 11-6-73, Cl. 317-18.00c.

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Smith, Edwin S., Jr., to General Electric Company. Semiconductor device with novel lead attachments. 3,721,868, 3-20-73, Cl. 317-234.00r.

Smith, Edwin Studley; and Glazer, Emmett J., to Goodyear Tire & Rubber Company, The. In situ initiator polymerization of vinyl chloride. 3,780,008, 12-18-73, Cl. 260-92.80w.

Smith, Edwin W.; and Flynn, Gordon L., to Upjohn Company, The. High surface area to compartmental volume diffusion and dialysis cell. 3,771,663, 11-13-73, Cl. 210-321.000.

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Smith, Forest D., to Electric Machinery Mfg. Company. Voltage regulator for synchronous generators. 3,775,666, 11-27-73, Cl. 322-28.000.

Smith, Forrest D. Ventilated toilet. 3,733,619, 5-22-73, Cl. 4-72.000.

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Smith, Frank T.; and Smith, Robert D. Self-cleaning filter assembly. 3,734,295, 5-22-73, Cl. 210-278.000.

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Smith, Horace L., Jr., to Smitherm Industries, Inc. Roasting apparatus. 3,763,766, 10-9-73, Cl. 99-468.000.
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Smith, Hubert S.; and Wright, Donald R., to Dow Chemical Company, The. Method for preparing walled structures from foamable thermosetting synthetic resinous material. 3,726,951, 4-10-73, Cl. 264-46.000.
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ing copy paper for electrostatic copiers. 3,757,081, 9-4-73, Cl. 219-216.000.
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Smith, Jay, III; Schmidt, Gerald W.; and Jones, Lawrence Temple, to California R & D Center. Manipolative toy. 3,750,330, 8-7-73, Cl. 46-119.000.
Smith, Jay, III; Schmidt, Gerald W.; and Jones, Lawrence T., to California R & D Center. Musical jump rope. 3,778,053, 12-11-73, Cl. 272-75.000.
Smith, Jay N., to Impala Industries, Inc. Catalytic heater. 3,731,668, 5-8-73, Cl. 126-92.00r.
Smith, Jay R. Installation gauge or the like. 3,780,443, 12-25-73, Cl. 33-180.00a.
Smith, Jean G., to United States of America, Atomic Energy Commission. Preparation of sols by hydrogen reduction of nitrate solutions. 3,748,273, 7-24-73, Cl. 252-301.10s.
Smith, Jesse J., to Packaging Products & Design Corporation. Bag package and method. 3,718,253, 2-27-73, Cl. 206-57.00a.
Smith, Jimmie D. Utility vehicle. 3,770,070, 11-56-73, Cl. 180-13.000.
Smith, Joe M., 50% to Rawley, Joseph P. Method of making composite inlay designs and products. 3,737,365, 6-5-73, Cl. 161-41.000.
Smith, Johanna Wilhelmina V. O., to Scott Paper Company. High solids coating composition. 3,714,107, 1-30-73, Cl. 260-29.700.
Smith, John: *See*—
Brudy, Peter E.; and Smith, John, 3,781,538.
Reed, Hugh Wilma Boulton; Smith, John; and Hirst, Ian, 3,758,596.
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Smith, John F., to Narco Scientific Industries, Inc. Switchable band pass-band reject filter apparatus. 3,750,057, 7-31-73, Cl. 333-76.000.
Smith, John Franklin, III: *See*—
Pauza, William Vito; and Smith, John Franklin, III, 3,753,211.
Smith, John Frederick, to Du Pont de Nemours, E. I., and Company. Blend of sol and gel chloroprene polymers. 3,752,785, 8-14-73, Cl. 260-32.80a.
Smith, John H.; Conley, James W.; and Dworak, Stanley E., to General Electric Company. Cardiac pacemaker rate/interval computer system. 3,768,014, 10-23-73, Cl. 324-158.00r.
Smith, John Hugh: *See*—
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Leopold, Wilbur R., Jr.; Smith, John J.; Hackman, Frank C.; Luckenbill, Lawrence F.; and Daghe, Joseph L., 3,763,880.
Smith, John J.; deceased (by Smith, Beatrice A.; executrix), to Mueller Co. Line stopping assembly using an inflatable element. 3,774,646, 11-27-73, Cl. 138-93.000.
Smith, John Nelson: *See*—
Fisher, Reed Edward; and Smith, John Nelson, 3,748,600.
Smith, John Roberton: *See*—
Caird, Robin Dempsey; and Smith, John Roberton, 3,768,156.
Smith, John T. Machine for uncapping wax honeycomb. 3,735,433, 5-29-73, Cl. 6-12.00a.
Smith, Joseph Cyril, to British Steel Corporation. Chain retaining device. 3,724,035, 4-3-73, Cl. 24-116.00r.
Smith, Joseph E.; and De Troyler, Georges D., to Wolverine-Pentronix, Inc. Powder dispenser for a powder compacting press. 3,730,659, 5-1-73, Cl. 425-78.000.
Smith, Joseph E.; DeTroyer, Georges D.; and DeSantis, Raymond P., to Wolverine-Pentronix, Inc. Deflection compensation system for press. 3,733,154, 5-15-73, Cl. 425-78.000.
Smith, Joseph E.; DeTroyer, Georges D.; and DeSantis, Raymond P., to Wolverine-Pentronix, Inc. Remote control system for powder compacting presses. 3,741,697, 6-26-73, Cl. 425-78.000.
Smith, Joseph E.; and De Troyer, Georges D., to Wolverine-Pentronix Inc. Thickness adjustment mechanism for press. 3,742,773, 7-3-73, Cl. 74-53.000.
Smith, Joseph E., to Wolverine-Pentronix, Inc. Boat steering and reversing system. 3,756,188, 9-4-73, Cl. 115-35.000.
Smith, Joseph E.; DeTroyer, Georges D.; and DeSantis, Raymond P., to Wolverine-Pentronix, Inc. Powder compacting apparatus. 3,775,032, 11-27-73, Cl. 425-78.000.



Smith, Joseph H. Method of manufacturing contact lenses. Weichsel, Jerry A., 3,755,209.

Smith, Joseph H. Method of manufacturing contact lenses. 3,772,832, 11-20-73, Cl. 51-284.000.
Smith, Joseph L., Jr.: *See—*
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Smith, Joseph L., Jr., to Massachusetts Institute of Technology. Superconducting apparatus with double armature structure. 3,742,265, 6-26-73, Cl. 310-52.000.
Smith, Joseph L., Jr., to Massachusetts Institute of Technology. High voltage oil insulated and cooled armature windings. 3,743,867, 7-3-73, Cl. 310-52.000.
Smith, Joseph L., Jr.; and Kirtley, James L., Jr., to Massachusetts Institute of Technology. Polyphase synchronous alternators having a controlled voltage gradient armature winding. 3,743,875, 7-3-73, Cl. 310-198.000.
Smith, Joseph L., Jr.; Thullen, Philip; and Kirtley, James L., Jr., to Massachusetts Institute of Technology. Stator structure for electrical machine. 3,781,578, 12-25-73, Cl. 310-52.000.
Smith, Jozef R., to International Telephone and Telegraph Corporation. Fluid handling apparatus. 3,712,765, 1-23-73, Cl. 418-70.000.
Smith, Judson D.: *See—*
Dyer, Kermit W.; Handley, John V.; and Smith, Judson D., 3,741,619.
Smith, Judson L. Vacuum cleaner having a foam generator. 3,751,755, 8-14-73, Cl. 15-302.000.
Smith, Julian V.: *See—*
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Smith, Keith A.: *See—*
Fuller, Robert T.; and Smith, Keith A., 3,710,414.
Smith, Kenneth A.; and Teague, Lester C., II, to General Motors Corporation. Viscous fluid dispenser with valved chamber receiving circulating viscous fluid. 3,727,804, 4-17-73, Cl. 222-318.000.
Smith, Kenneth Burton; and Gladstone, Shaul, to Argus Chemical Corporation mesne. Apparatus for continuously monitoring air-pollution. 3,780,566, 12-25-73, Cl. 73-23.000.
Smith, Kenneth C., to Dayco Corporation. Drafting roller construction. 3,763,532, 10-9-73, Cl. 29-129.000.
Smith, Kenneth Charles Arthur; and Swann, David John. Electron probe forming system. 3,728,570, 4-17-73, Cl. 313-84.000.
Smith, Kenneth F. Data storage and color analysis systems. 3,774,169, 11-20-73, Cl. 340-173.0lt.
Smith Kline & French Laboratories: *See—*
Actor, Philip P.; Parish, Roger C.; and Theodorides, Vassilios J., 3,716,641.
Brenner, E. Martin; and Loev, Bernard, 3,740,409.
Caldwell, Henry Cecil, 3,769,317.
Dolce, Leonard J.; Greer, Henry W.; and Martell, George E., 3,744,214.
Ederton, William H., 3,723,526.
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Grooves, William G.; and Tillman, William J., 3,709,995.
Jen, Timothy Yu-Wen; and Loev, Bernard, 3,745,216.
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Parish, Roger C.; and Trei, John E., 3,733,417.
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Black, James Whyte; Durant, Graham John; Emmett, John Colin; and Ganellin, Charon Robin, 3,734,924.
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Smith Kline and French Laboratories: *See—*
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Goldberg, Paul R., 3,780,725.
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Lindsey, Royce D.; and Smith, Larry G., 3,753,239.
Smith, Lawrence Edward, to RCA Corporation. Pincushion corrected vertical deflection circuit. 3,760,222, 9-18-73, Cl. 315-27.0gd.
Smith, Lawrence J.: *See—*
Zucker, Fredric E.; Murphy, James P.; Smith, Lawrence J.; and Kaswer, Joseph, Jr., 3,723,655.
Smith, Leary W.; and Bryant, Ellis H., Jr., to Audichron Company, The. Multiple announcement system with selective deletion of announcement. 3,767,864, 10-23-73, Cl. 174-100.00r.
Smith, Leif H.: *See—*
Lochridge, Joe C.; and Smith, Leif H., 3,756,034.
Rochelle, William R.; and Smith, Leif H., 3,775,987.
Smith, Leland E.; Johnson, Jack B.; Burks, Kenneth N.; and Copeland, Kenneth D., 75% to Kara-Kount Incorporated, mesne. Headline counting and printing design device. 3,711,837, 1-16-73, Cl. 340-172.500.
Smith, Leon; Calvert, David W.; Robert, Andre; Viallet, Andre; and Pauw, Daniel R., to South African Pulp and Paper Industries, Limited and L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Treatment of alkaline pul with an acidic medium followed by oxygen bleaching and delignification. 3,725,194, 4-3-73, Cl. 162-65.000.
Smith, Leon; and Myburgh, Henry Hugo, to South African Pulp and Paper Industries Limited and L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Delignification and bleaching of cellulosic pulp containing protector wih oxygen in the presence of alkali. 3,740,310, 6-19-73, Cl. 162-65.000.
Smith, Leonard A., Jr., to Monsanto Company. Apparatus for bulking yarn. 3,745,617, 7-17-73, Cl. 28-1.400.
Smith, Leonard S.: *See—*
Bach, Stanley Monrad, Jr.; Smith, Leonard S.; and Holaday, Reed E., 3,760,271.
Smith, Leslie Harold: *See—*
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Smith, Leslie V. Conical radiant orchard heater. 3,716,042, 2-13-73, Cl. 126-59.500.
Smith, Leslie V. Grape harvester. 3,727,388, 4-17-73, Cl. 56-330.000.
Smith, Leslie William: *See—*
Pass, Peter John; Carr, Douglas Wesley; Knight, Rogers Evert; Gelder, Ronald; Morrell, Moreton; Smith, Leslie William; Harris, Leonard Frederick; and Van Bastelaere, Karel Leon August, 3,741,236.
Smith, Lester C.: *See—*
Rosen, Alfred H.; and Smith, Lester C., 3,714,372.
Smith, Lester E.; and Lin, Chao H., to Olin Corporation. Band spring clutch. 3,750,785, 8-7-73, Cl. 192-81.00c.
Smith, Leward N.: *See—*
Morey, Norval K.; and Smith, Leward N., 3,774,660.
Smith, Leward N., to Morbark Industries, Inc. Slab guide for vertically adjustable sawing apparatus. 3,771,397, 11-13-73, Cl. 83-102.100.
Smith, Leward N. Suction dredge with brush cutting attachment. 3,777,375, 12-11-73, Cl. 37-67.000.
Smith, Lewis Oscar, III. Cushion structure. 3,737,930, 6-12-73, Cl. 5-348.0wb.
Smith, Lewis W., to Purity Packaging Limited. Method of and apparatus for applying caps to containers. 3,775,934, 12-4-73, Cl. 53-38.000.
Smith, Lloyd H.: *See—*
Zabelka, Richard J.; and Smith, Lloyd H., 3,724,319.
Smith, Lloyd H.; and Hughes, John H. Auxiliary bicycle seat. 3,738,704, 6-12-73, Cl. 297-195.000.
Smith, Lloyd L., to United States of America, Agriculture. Air static pressure and temperature measuring device for remote locations in stored porous material. 3,745,835, 7-17-73, Cl. 73-345.000.
Smith, Loren William: *See—*
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Smith, Lowell E.: *See—*
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Smith, Lowell R.: *See—*
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Speziale, Angelo John; and Smith, Lowell R., 3,736,123.
Smith, Lowell R., to Monsanto Company. Deodorization of phosphorodithioates. 3,714,303, 1-30-73, Cl. 260-989.000.
Smith, Luther W., to American Optical Corporation. Method and apparatus for making fused bundles of energy-conducting fibers. 3,717,531, 2-20-73, Cl. 156-180.000.
Smith, Luther W., Jr., to American Optical Corporation. Method and apparatus for inspecting surface treated ophthalmic lenses. 3,746,450, 7-17-73, Cl. 356-135.000.
Smith, Lyle Douglas. Alarm apparatus and method. 3,745,551, 7-10-73, Cl. 340-276.000.
Smith, M. Howe: *See—*



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Smith, Marjorie Ann M.: *See—*
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Smith, Mark W.: *See—*
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Smith, Marvin O., Jr., to Bethlehem Steel Corporation. Blast furnace stove. 3,764,260, 10-9-73, Cl. 432-217.000.
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Smith, Mary Kay Hrncir: *See—*
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Smith, Melvin Wilmer; and Brun, Andre George, to Westinghouse Electric Corporation. Submarine tethered working unit and method of manipulating. 3,766,742, 10-23-73, Cl. 61-69.00r.
Smith, Mertie G. Animal shelter. 3,738,322, 6-12-73, Cl. 119-15.000.
Smith, Michael Arthur: *See—*
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Smith, Michael John Stapley; Wilson, John Henry; and Parr, Bryan Reginald, to United Kingdom Atomic Energy Authority. Apparatus for performing the immiscible refrigerant freeze process for purifying water. 3,712,075, 1-23-73, Cl. 62-123.000.
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Scott, Hubert D.; and Smith, Michael P., 3,774,033.
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Smith, Millard F.; and Anusauckas, Anthony V., said Anusauckas assor. to said Smith, Millard F. Self-righting floating booms. 3,756,031, 9-4-73, Cl. 61-1.00f.
Smith, Milton R., to Lilly, Eli, and Company. Glucagon separation process. 3,715,345, 2-6-73, Cl. 260-112.500.
Smith, Nathan R., to Ramsey Engineering Company. Sorting device for core handler. 3,731,796, 5-8-73, Cl. 209-74.000.
Smith, Neal F.: *See—*
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Smith, Noyes D., Jr., to Shell Oil Company. Hologram image-space scalling. 3,756,683, 9-4-73, Cl. 350-3.500.
Smith, Ora E.: *See—*
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Smith, Otto J. M. Method, apparatus and system for the identification of the relationship between two signals. 3,742,391, 6-26-73, Cl. 333-6.000.
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Smith, Paul K.; Huntoon, Richard T.; and Mosley, Wilbur C., Jr., to United States of America, Atomic Energy Commission. Chemical plating method of preparing radiation source material. 3,778,295, 12-11-73, Cl. 117-100.00b.
Smith, Paul W.: *See—*
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Smith, Percy L.: *See—*
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Smith, Peter; and Suzor, Herve, to Colonial Sugar Refining Company Limited, The. Continuous process for decolourizing liquors. 3,708,337, 1-2-73, Cl. 127-46.00r.
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Smith, Peter W., to United Aircraft Corporation. Temperature compensated latching phase shifter having compensating dielectric in aperture of ferrite core. 3,735,291, 5-22-73, Cl. 333-24.100.
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Smith, Peter William, to Bell Telephone Laboratories, Incorporated. Apparatus for stabilizing a laser to a gas absorption line. 3,742,382, 6-26-73, Cl. 331-94.500.
Smith, Peter William, to Bell Telephone Laboratories, Incorporated. Radiation and pressure broadening technique for single frequency gas lasers. 3,766,491, 10-16-73, Cl. 331-94.500.
Smith, Peter William, to Bell Telephone Laboratories, Incorporated. Waveguide gas laser devices. 3,772,611, 11-13-73, Cl. 331-94.500.
Smith, Philip N. Apparatus to produce yarn. 3,739,566, 6-19-73, Cl. 57-90.000.
Smith, Philip Sydney, to AMP Incorporated, mesne. Longitudinal top spring receptacle. 3,729,701, 4-24-73, Cl. 339-223.00r.
Smith, R. P., Company: *See—*
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Smith, Ralph David: *See—*
Lamb, Edward Lawrence; McAinsh, Kenneth Gordon; and Smith, Ralph David, 3,709,589.
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Smith, Raymond L., Jr., to C & M Manufacturing Company, Inc. Carriage safety system. 3,709,331, 1-9-73, Cl. 187-9.000.
Smith, Raymond L., Jr., to C & M Manufacturing Company, Inc. Double side shifting fork-type stacker. 3,747,790, 7-24-73, Cl. 214-730.000.
Smith, Raymond L., Jr., to C & M Manufacturing Company, Inc. Double mast side loader lift truck and double actuator balancing. 3,757,899, 9-11-73, Cl. 187-17.000.
Smith, Raymond P., Jr., to Craftmaster, Inc. Leak prevention system for an oil pipeline. 3,741,233, 6-26-73, Cl. 137-117.000.
Smith, Raymond P., Jr. Wheel dolly. 3,749,265, 7-31-73, Cl. 214-331.000.
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Smith, Richard A.; Higgins, Larry; and King, John, to Leggett & Platt, Incorporated. Box spring assembly. 3,725,965, 4-10-73, Cl. 5-260.000.
Smith, Richard A.; and Harris, Elmer E., to Heinz, H. J., Company. Apparatus for detecting the presence of hard solid particles in a body of softer solid substance. 3,736,583, 5-29-73, Cl. 340-240.000.
Smith, Richard A.; and Harris, Elmer E., to Heinz, H. J., Company. Apparatus for inspecting bodies for the presence of hard particles. 3,777,886, 12-11-73, Cl. 209-109.000.
Smith, Richard C.; and Bechtold, William M., to National Cash Register Company, The. Merchandise mark sensing system. 3,774,205, 11-20-73, Cl. 343-6.5ss.
Smith, Richard D.; and Furlong, Dale A., to Combustion Power Company, Inc. Solid waste disposal and water purification method and apparatus. 3,741,890, 6-26-73, Cl. 210-40.000.
Smith, Richard E.: *See—*
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Smith, Richard E., to Xerox Corporation. Compensating cam for use in a copying machine for synchronizing the operation between a developer applicator and an imaging surface. 3,743,407, 7-3-73, Cl. 355-10.000.
Smith, Richard Glenn, to Sherwin-Williams Company, The. Glossy emulsion coating compositions containing surface treated pigments of oilophilic nature and method. 3,775,360, 11-27-73, Cl. 260-24.000.
Smith, Richard Grand: *See—*
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Smith, Richard Miles, to United States of America, Navy. Multitrack radar display console. 3,750,109, 7-31-73, Cl. 340-172.00s.
Smith, Richard R.; and Nielsen, Stuart D., to General Tire & Rubber Company, The. Alkaline earth metal organometallic compounds and method for making the same. 3,726,933, 4-10-73, Cl. 260-665.00r.
Smith, Richard R., Sr. Universal marine module. 3,763,808, 10-9-73, Cl. 114-.50f.
Smith, Richard Terence: *See—*
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Smith, Richard W., to Pratt Manufacturing Corporation. Package with easy opening dust flap and method of manufacturing the same. 3,717,244, 2-20-73, Cl. 206-56.0aa.
Smith, Robert. Eight cycle twin chambered engine. 3,710,767, 1-16-73, Cl. 123-63.000.
Smith, Robert A.; Salisbury, Kirby A.; and Leaffer, Morris A., to United States Borax & Chemical Corporation. Preparation of 3,5-dinitrobenzotrifluoride compounds. 3,726,930, 4-10-73, Cl. 260-646.000.
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Smith, Robert C., to Geigy Chemical Corporation. Computer controlled dichloro reaction system. 3,712,976, 1-23-73, Cl. 235-151.120.
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Smith, Robert D., to Du Pont de Nemours, E. I., and Company. Hydraulic valve. 3,717,176, 2-20-73, Cl. 137-599.000.
Smith, Robert E.: *See—*
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Shoe, Theodore W.; and Smith, Robert E., 3,750,998.
Smith, Robert E. Disk rotating game. 3,738,658, 6-12-73, Cl. 273-109.000.
Smith, Robert G. Tether assembly. 3,722,478, 3-27-73, Cl. 119-120.000.
Smith, Robert H.; Tonjes, Burl D.; and Leader, Charles B., to Gilson Screen Company. Reciprocating sieve shaker apparatus. 3,744,631, 7-10-73, Cl. 209-319.000.
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Smith, Robert L., to Garrett Corporation, The. Antifriction bearing spacer. 3,712,694, 1-23-73, Cl. 308-199.000.
Smith, Robert L., to Northrop Corporation. Portable beverage dispensing apparatus. 3,735,898, 5-29-73, Cl. 222-129.00h.
Smith, Robert L.; and Smith, William O. Bit construction for smoking pipes. 3,780,745, 12-25-73, Cl. 131-212.00a.
Smith, Robert Leonard Masyn, to M.F.C. Survival Limited. Lifting means. 3,744,756, 7-10-73, Cl. 254-93.0hp.
Smith, Robert McKee: *See—*
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Smith, Robert Stacy, Jr., to Dow Chemical Company, The. Method for producing arched structures. 3,750,353, 8-7-73, Cl. 52-745.000.
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Smith, Roger, Jr.; and Turner, John Wirt, Jr., to Jackson, Byron, Inc. Plurally energized power tongs. 3,719,236, 3-6-73, Cl. 173-12.000.
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Smith, Roger M.; and Watts, Loyal O., to Caterpillar Tractor Company. Ripper with top-mounted extendible tip. 3,750,761, 8-7-73, Cl. 172-719.000.
Smith, Rolo Wayne, to Rieke Corporation. Helical path conveyor. 3,750,859, 8-7-73, Cl. 198-136.000.
Smith, Ronald S.; Kuderna, Jerome C., Jr.; and Potter, Richard C., to Shell Oil Company. Hydrocylated polymer-thermoplastic resin-organo phosphate compositions. 3,769,416, 10-30-73, Cl. 424-78.000.
Smith, Rossman W., Jr., to Gulf Research & Development Company. Remote surface temperature determination. 3,745,830, 7-17-73, Cl. 73-344.000.
Smith, Roy: *See—*
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Smith, Roy E., to Owens-Corning Fiberglas Corporation. Apparatus for packaging linear material. 3,717,311, 2-20-73, Cl. 242-18.00r.
Smith, Roy E., to Owens-Corning Fiberglas Corporation. Apparatus for and method of processing wet strand-like material. 3,717,448, 2-20-73, Cl. 65-3.000.
Smith, Roy E., to Owens-Corning Fiberglas Corporation. Nonwoven structure and method and apparatus for producing it. 3,756,893, 9-4-73, Cl. 156-440.000.
Smith, Roy E. Nonwoven structure for reinforcing resinous material. 3,761,345, 9-25-73, Cl. 161-57.000.
Smith, Roy E., to Packard Instrument Company, Inc. Sample receiving mechanism. 3,774,657, 11-27-73, Cl. 141-272.000.
Smith, Roy R., to General Motors Corporation. Self-cleaning lint filter for a clothes washer. 3,738,126, 6-12-73, Cl. 68-18.00f.
Smith, Roy R., to General Motors Corporation. Lint filter for washing machine. 3,769,818, 11-6-73, Cl. 68-18.00f.
Smith, Roy W., to Power Curbers, Inc. Apparatus for forming a continuous curb structure. 3,749,504, 7-31-73, Cl. 404-84.000.
Smith, Royal F.: *See—*
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Smith, Russell G.; and Belaef, Nikolai, to Xomox Corporation. Flow indicator. 3,745,967, 7-17-73, Cl. 116-117.00r.
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Smith, Stanley N., to Federal-Mogul Corporation. Method for making a shaft seal with an almost entirely molded lip. 3,767,739, 10-23-73, Cl. 264-161.000.
Smith, Stephen B., to National Cash Register Company, The. Microform reader cover plate opening mechanism. 3,743,399, 7-3-73, Cl. 353-23.000.



Smith, Stephen B., to National Cash Register Company, The. Microform positioning carrier. 3,775,003, 11-27-73, Cl. 353-23.000.
Smith, Stephen Lester; and Voyer, Peter Edward, to United Aircraft Corporation. Gas-seal rotatable support structure. 3,733,146, 5-15-73, Cl. 415-172.000.
Smith, Stuart Allen, to Illinois Tool Works Inc. Container carrier and package. 3,778,096, 12-11-73, Cl. 294-87.200.
Smith, Sydney Edwin; O'Reilly, Kevin J.; and Prydie, John, to Burroughs Wellcome Co. Heteroploid cell lines. 3,709,782, 1-9-73, Cl. 195-1.800.
Smith, Telford L.; and Turner, Frank E., to Smith-Blair Inc. Pipe clamp made of non-cast materials. 3,737,959, 6-12-73, Cl. 24-279.000.
Smith, Terence Princep, to Teledictor Limited. Feed control installations for herds of animals. 3,750,626, 8-7-73, Cl. 119-51.00r.
Smith, Theodore M. Quick change spindle adapter or chuck. 3,720,417, 3-13-73, Cl. 279-82.000.
Smith, Theodore M. Chuck assembly for tool holders. 3,734,516, 5-22-73, Cl. 279-75.000.
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Smith, Thomas R., to Maytag Company, The. Clothes drier having moisture sensing control. 3,733,712, 5-22-73, Cl. 34-45.000.
Smith, Thomas R., to Maytag Company, The. Oscillatable tub with flexible blade. 3,736,775, 6-5-73, Cl. 68-23.000.
Smith, Thomas R., to Maytag Company, The. Oscillatable tube for washing machine. 3,738,130, 6-12-73, Cl. 68-154.000.
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Smith, William Richard, to Arizona Chemical Company. Preparation of color improved tall oil rosin-pentaerythritol esters. 3,780,013, 12-18-73, Cl. 260-97.500.
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Smits, Bernhard Johannes, to Hazemag Hartzerkleinerungs- und Zementmaschinenbau Gesellschaft m.b.H. Impact comminutor. 3,768,743, 10-30-73, Cl. 241-101.200.

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Smoak, Benjamin G. Post driver. 3,712,389, 1-23-73, Cl. 173-126.000.

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Smolka, Thomas Gordon; and Zelinka, Johann, to Wiener Metallwarenfabrik Smolka & Co. Spring locking device. 3,713,664, 1-30-73, Cl. 280-11.35t.

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Smolka, Thomas Gordon; and Schweizer, Gottfried, to Gertsch AG. Ski boot. 3,772,802, 11-20-73, Cl. 36-2.5al.

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Smoot, Charles H.; and Kleven, Lowell A., to Uniflo Systems Company. Control systems for vehicles operating on a track. 3,771,463, 11-13-73, Cl. 104-155.000.

Smoot, Edward H.: *See—*
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Smoot-Holman Company: *See—*
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Smorodinov, Alexandr Nikolaevich: *See—*
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Smuda, Gerhard, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Strip withdrawing device. 3,732,763, 5-15-73, Cl. 83-98.000.

Smukler, Karen B. Film strip. 3,749,486, 7-31-73, Cl. 353-120.000.

Smula, Karl Ulrich: *See—*
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Smyers, William H.; and Russo, Ronald D., to Litton Industrial Products, Inc. Quick release and speeder for socket wrench. 3,762,245, 10-2-73, Cl. 81-177.00g.

Smyers, William H., Jr.; and Russo, Ronald D., to New Britain Machine Company, The. Resilient quick release for socket wrench. 3,777,596, 12-11-73, Cl. 81-177.00g.

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Smyser, William E.; and Speros, Dimitrios M., to General Electric Company. Discharge lamp thermoionic cathode containing emission material. 3,708,710, 1-2-73, Cl. 313-213.000.

Smyth, Donald N.; and Heard, Bruce A., to S.A. Brush Company Limited. Carpet sweepers. 3,774,257, 11-27-73, Cl. 15-48.000.

Smyth, Donald Nation, to S. A. Brush Company, Limited. Carpet sweepers. 3,744,077, 7-10-73, Cl. 15-41.00r.

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Smyth, Nelda Marjorie, to American Cyanamid Company. Polymeric viscosity control additives for silica thixotropic compositions. 3,718,614, 2-27-73, Cl. 260-31.80r.

Smyth, Robert C., to Digital Apparatus Corporation. Amplifier for producing a current dependent on the output voltage. 3,736,519, 5-29-73, Cl. 330-18.000.

Smythe, Walter J., to Orthopedic Equipment Company, Inc. Inflatable tourniquet. 3,756,239, 9-4-73, Cl. 128-327.000.

Smythies, John R.; and Eakins, Kenneth E., to Nelson Research & Development Company. Steroid compounds. 3,732,261, 5-8-73, Cl. 260-397.400.

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Snajdr, Edward A., to United States of America, Atomic Energy Commission. Method of monitoring a neutron flux with a ceramic neutron flux monitor. 3,719,825, 3-6-73, Cl. 250-83.100.

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Snapp, Thomas C., Jr.; Blood, Alden E.; and Albers, Kenneth H., to Eastman Kodak Company. Water-soluble alkyd resins from di(2-hydroxyethoxy-acetamide)alkylethanes. 3,766,119, 10-16-73, Cl. 260-29.20n.

Snapp, Thomas C., Jr.; and Blood, Alden E., to Eastman Kodak Company. Cyclization process. 3,766,179, 10-16-73, Cl. 260-244.00r.

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Snarr, James L.: *See—*
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Snavely, Earl S., Jr., to Mobil Oil Corporation. Well treating method to remove paraffin deposition. 3,724,552, 4-3-73, Cl. 166-304.000.

Snavely, Earl S., Jr.; Bertness, Theodore A.; and Morris, Richard L., to Mobil Oil Corporation. Paraffin well treatment method. 3,724,553, 4-3-73, Cl. 166-304.000.

Snead, Edwin Des. Weighing apparatus. 3,722,660, 3-27-73, Cl. 198-39.000.

Snead, Edwin E.; and Pitkow, Jay B., to Burroughs Corporation. Optical lens docking system. 3,729,262, 4-24-73, Cl. 356-153.000.

Snead, Timothy A., to Minneapolis Society of Fine Arts, The. Child's building toy. 3,752,472, 8-14-73, Cl. 272-60.000.

Snead, William K., to PPG Industries, Inc. Process for production of azides. 3,752,881, 8-14-73, Cl. 423-410.000.

Snead, Zudora B. Fish holder. 3,727,269, 4-17-73, Cl. 17-70.000.

Snedkerud, Ole, to Patelhold Patentverwertungs- & Elektro-Holding AG. Amplifier circuit. 3,743,954, 7-3-73, Cl. 330-10.000.

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Sneider, Vincent R. Disposable sanitary liner for garment. 3,738,362, 6-12-73, Cl. 128-280.000.

Sneider, Vincent R. Disposable syringe. 3,773,047, 11-20-73, Cl. 128-232.000.

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Snell, Leonard Stanley, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Fluid flow compressors. 3,779,666, 12-18-73, Cl. 415-159.000.

Snelling, Charles D.; Andrews, Theodore E.; and Weller, John J., to Armstrong Cork Company, mesne. Method for making hollow tubing having an annular wall of foamed material. 3,754,064, 8-21-73, Cl. 264-40.000.

Snelling, Christopher, to Xerox Corporation. Imaging process. 3,729,334, 4-24-73, Cl. 117-37.01e.

Snelling, Christopher; Little, William S.; and Townsend, Robert H., to Xerox Corporation. Background reduction. 3,737,310, 6-5-73, Cl. 96-1.00r.

Snelling, Christopher, to Xerox Corporation. Transmission device. 3,737,569, 6-5-73, Cl. 178-7.100.

Snelling, Christopher, to Xerox Corporation. Photoelectrophoretic imaging by phosphorescence. 3,741,639, 6-26-73, Cl. 355-3.000.

Snelling, Christopher, to Xerox Corporation. Imaging system. 3,741,760, 6-26-73, Cl. 96-1.200.

Snelling, Christopher, to Xerox Corporation. Transducer device. 3,742,374, 6-26-73, Cl. 328-110.000.

Snellman, Donald L.; and Hudson, Willard G., to Norfin, Inc. Glass fiber cable, method of making, and its use in the manufacture of track vehicles. 3,717,391, 2-20-73, Cl. 305-40.000.

Snellman, Donald L., to Norfin, Inc. Electrical transmission cable system. 3,717,720, 2-20-73, Cl. 174-131.00a.

Snellman, Donald L., to Norfin, Inc. Track assembly for endless track vehicles. 3,734,577, 5-22-73, Cl. 305-40.000.

Snellman, Donald L.; Davis, Ernest D.; and Johnson, Dale R., to Norfin, Inc. Programmed sheet distributing device. 3,772,970, 11-20-73, Cl. 93-93.00c.

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Snider, John H., Jr.; and Snider, Harold H. Lather producing machine. 3,712,512, 1-23-73, Cl. 222-67.000.





Snider, Orvill F.; Loughlin, James E.; and Ortheil, Hans. Dyeability





Blick, David G.; Snow, Kenneth A.; and Vandewoestyne, Richard

Snider, Orvill E.; Loughlin, James E.; and Ortheil, Hans. Dyeability of melt blend fibers with high electron affinity dyes. 3,738,804, 6-12-73, Cl. 8-15.000.

Snider, Philip A., to Dotco, Inc. Lubricated angle drive attachment for air operated tool. 3,719,254, 3-6-73, Cl. 184-64.000.

Snider, Philip A., to Dotco, Inc. Air operated tool. 3,719,440, 3-6-73, Cl. 418-266.000.

Snider, Philip A., to Dotco, Inc. Air operated tool. 3,727,702, 4-17-73, Cl. 173-163.000.

Snider, Philip A., to Dotco, Inc. Air operated tool. 3,728,052, 4-17-73, Cl. 418-181.000.

Snipeliski, Jacques, to Cotherm S.A. Thermal tripping devices for safety installations and the like. 3,742,417, 6-26-73, Cl. 337-401.000.

Snipes, Rufus. Towel rack for vehicles. 3,721,395, 3-20-73, Cl. 242-55.530.

Snitgen, Joseph D. Safety ignition lock. 3,779,332, 12-18-73, Cl. 180-112.000.

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Snitzer, Elias; Robinson, Charles C.; and Woodcock, Richard F., to American Optical Corporation. Neodymium glass laser having room temperature output at wavelengths shorter than 1060 NM. 3,711,787, 1-16-73, Cl. 331-94.500.

Snitzer, Elias, to American Optical Corporation, mesne. Means for producing and amplifying optical energy. 3,729,690, 4-24-73, Cl. 331-94.500.

Snitzer, Elias; and Graf, Robert E., to American Optical Corporation. Laser using phosphate base laser glass. 3,731,226, 5-1-73, Cl. 331-94.500.

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Sno-Trik Company: *See—*
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Snodgrass, Harold F. Boat trailer structure. 3,717,268, 2-20-73, Cl. 214-83.240.

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Snodgrass, Robert E., to United States of America, Army. Blank firing attachment. 3,744,370, 7-10-73, Cl. 89-14.00e.

Snodgrass, Thomas J.: *See—*
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Snook, Melvin E.; Joujon-Roche, Phillip J.; and Yancey, Warren L., to Hughes Aircraft Company. High fidelity symbol display through limited bandwidth system. 3,717,872, 2-20-73, Cl. 343-5.0em.

Snook, Richard K., to Diginetics Incorporated. System for producing a magnetically recorded digitally encoded record in response to external signals. 3,736,568, 5-29-73, Cl. 340-172.500.

Snook, Richard K., to Diginetics Incorporated. Ranging amplifier systems. 3,778,710, 12-11-73, Cl. 324-123.00r.

Snook, Richard K., to Diginetics Incorporated. Temperature measuring systems for automotive vehicles and the like. 3,779,079, 12-18-73, Cl. 73-346.000.

Snorgrass, Thomas J. Automobile door lock removal tool. 3,754,314, 8-28-73, Cl. 29-225.000.

Snover, John A.; and Donovan, Richard D., to Metal Hydrides, Incorporated. Method for preparing beryllium compounds. 3,767,715, 10-23-73, Cl. 260-665.00r.

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Snow, John Douglas, to MacLaren Snow Limited. Equipment for collecting grass-cutting from a grass-mower. 3,768,238, 10-30-73, Cl. 56-199.000.

Snow, John E., to RAP Industries Inc. Packaging material, packages and method of making same. 3,775,239, 11-27-73, Cl. 161-250.000.

Snow, Kenneth A.: *See—*
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Snow, Kenneth A.; and Vandewarker, Richard E., to Bausch & Lomb Incorporated. Laser pumping apparatus. 3,708,758, 1-2-73, Cl. 331-94.500.

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Snow, Roland B., to United States Steel Corporation. Method of removing alumina scum from a continuous-casting mold. 3,718,173, 2-27-73, Cl. 164-82.000.

Snow, Roland B., to United States Steel Corporation. Heat-treating-furnace roll and method of heat-treating metal strip therewith. 3,751,195, 8-7-73, Cl. 432-8.000.

Snowden, Bryan T., to Food Equipment, Inc. Fowl singeing system utilizing oscillating flames. 3,715,779, 2-13-73, Cl. 17-11.000.

Snowden, Bryan T., to FEI, Inc. Vaporizing apparatus for treatment of animal carcasses. 3,744,088, 7-10-73, Cl. 17-11.200.

Snowden, Bryan T., to FEI, Inc., mesne. Vaporizing apparatus for treatment of animal carcasses. 3,748,691, 7-31-73, Cl. 17-11.200.

Snowdon, Charles; and Redhead, Robert Gonne, to National Research Development Corporation. Medical treatment apparatus. 3,712,298, 1-23-73, Cl. 128-40.000.

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Snudo, Joseph Willem: *See—*
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Snurr, Gordon R. Adjustable height support. 3,737,136, 6-5-73, Cl. 248-412.000.

Snurr, Gordon R. Quick adjustable height support. 3,741,514, 6-26-73, Cl. 248-412.000.

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Snyder, Bobbie L.: *See—*
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Snyder, Carl J., to Westinghouse Electric Corporation. Translating methods and apparatus. 3,740,724, 6-19-73, Cl. 340-172.500.

Snyder, Charles F.; and Casad, Burton M., to Continental Oil Company. Vapor adsorption process. 3,728,844, 4-24-73, Cl. 55-33.000.

Snyder, Charles F., to Bonanza International, Inc. Method of tenderizing meat. 3,761,283, 9-25-73, Cl. 99-107.000.

Snyder, Charles H.: *See—*
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Snyder, David: *See—*
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Snyder, Fred P.: *See—*
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Snyder, George D., to Chrysler Corporation. Dual sensor, electronic monitoring and signal warning circuit for split master brake cylinder. 3,727,182, 4-10-73, Cl. 340-59.000.

Snyder, George R., to Marlin Firearms Company, The. Ventilated sight rib mount on a shotgun barrel. 3,727,319, 4-17-73, Cl. 33-233.000.

Snyder, George W., to Sperry Rand Corporation. Flex valve apparatus for sensing total horizontal and vertical ambient undirectional magnetic field. 3,758,850, 9-11-73, Cl. 324-43.00r.

Snyder, Gilbert R., to United States of America, Army. Ductile ampule deferred action battery. 3,754,996, 8-28-73, Cl. 136-90.000.

Snyder, Harold J., Jr.; and Guenther, Ralph W., to United States of America, Atomic Energy Commission. Nuclear fuel debris retention structure. 3,719,556, 3-6-73, Cl. 176-38.000.

Snyder, Harold M.: *See—*
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Snyder, Jack T.; McLarty, Donald M.; and Kenley, Stephen L., to United States of America, Air Force. Explosive bonding of tubes to fittings. 3,774,291, 11-27-73, Cl. 29-421.000.

Snyder, James H.; and Riedner, William E., to Clark Equipment Company. Automatic storage system order picker cab construction. 3,720,327, 3-13-73, Cl. 214-16.40a.

Snyder, James H.; and Riedner, William E., to Clark Equipment Company. Shock absorbing stop for fixed path vehicle. 3,754,513, 8-28-73, Cl. 104-256.000.

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Snyder, John L.; Papavasiliou, Mary J.; and Mann, Roger H., to Shell Oil Company. Process for the preparation of branched conjugated diene copolymers. 3,779,999, 12-18-73, Cl. 260-78.0ad.

Snyder, John M.; and O'Neill, James J., to Commercial Affiliates, Inc. Tape seaming method. 3,711,349, 1-16-73, Cl. 156-157.000.

Snyder, Kenneth E., to General Motors Corporation. Hydraulic clutch-with centrifugal and manual valves. 3,712,437, 1-23-73, Cl. 192-103.0fa.

Snyder, Larry F. Time lock board game apparatus. 3,734,508, 5-22-73, Cl. 273-134.00c.

Snyder, Larry L.; and Matlack, James R., to Jarva, Inc. Gage scraper. 3,722,957, 3-27-73, Cl. 299-86.000.

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Snyder, Marion F.; Lindquist, William C.; and Klemenhagen, Dale A., to Toro Manufacturing Corporation. Mower comb. 3,759,022, 9-18-73, Cl. 56-252.000.

Snyder, Michael D.: *See—*
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Snyder, Paul Jerry: *See—*
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Snyder, Paul V.; and Schultz, Willard F., to General Electric Company. Electric oven toaster door mechanism. 3,756,219, 9-4-73, Cl. 126-191.000.

Snyder, Paul W., Jr.: *See—*
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Snyder, Robbie L.; Spencer, Ambrose; and Butts, Harlan, to Fixtures Manufacturing Corporation. Table and chair structure and means for pivotally mounting chairs. 3,778,102, 12-11-73, Cl. 297-170.000.

Snyder, Robert M., to United States of America, Navy. Sonobuoy mooring unit. 3,772,639, 11-13-73, Cl. 340-2.000.

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Sobajima, Masaru, to Nippon Kogaku K.K. High-temperature hardness meter provided with a device for moving a sample object. 3,738,160, 6-12-73, Cl. 73-81.000.

Sobanski, Edward Walter; and Stauers, Olgerts, to Western Electric Company, Incorporated. Toll diversion control arrangement. 3,761,634, 9-25-73, Cl. 179-18.0da.

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Sobel, Alan, to Zenith Radio Corporation. Image display panel. 3,743,773, 7-3-73, Cl. 178-7.300.

Sobel, Alan, to Zenith Radio Corporation. Threshold switch and novel material therefor. 3,768,060, 10-23-73, Cl. 338-32.00r.

Sobel, Jack. Figure contouring mask. 3,709,225, 1-9-73, Cl. 128-254.000.

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Sobel, Jay E., to Universal Oil Products Company. Hydrocarbon alkylation process. 3,755,485, 8-28-73, Cl. 260-671.00r.

Sobel, Jay E., to Universal Oil Products Company. Butene separation, isomerization and alkylation. 3,763,261, 10-2-73, Cl. 260-683.490.

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Societe d'Etude et de Construction d'Appareils de Precision: *See—*
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Societe d'Etudes et de Developpement des Aeroglisseurs Marins Terrestres et Amphibies S.E.-D.A.M.: *See—*
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Solberg, Per: *See—*
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Solbrig, Charles W.; Weil, Sanford A.; and Rosenberg, Robert B., to American Gas Association, Inc., mesne. Radiant gas burner device for heating. 3,746,504, 7-17-73, Cl. 263-2.00r.

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Soldano, Benadetto A., to United States of America, Atomic Energy Commission. Reactor safety spray solution base-borate. 3,715,316, 2-6-73, Cl. 252-188.000.

Soldatos, Anthony C., to Union Carbide Corporation. Halogenated arylamine epoxy curing agents. 3,761,446, 9-25-73, Cl. 260-47.0en.

Soldavini, Teodore. Lawnmower and grass collector. 3,757,503, 9-11-73, Cl. 56-202.000.

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Solender, Peter E., to GTE Sylvania Incorporated. Non-linear voltage generating apparatus. 3,715,687, 2-6-73, Cl. 331-179.000.

Solenghi, Therese Genevieve. Device for application of paste-like or liquid products. 3,764,221, 10-9-73, Cl. 401-129.000.

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Soliday, Arnold James, to American Cyanamid Company. Polyester resin compositions useful as durable body or hand builders for textile materials. 3,763,064, 10-2-73, Cl. 260-21.000.

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Solik, Zdenek: *See—*
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Solin, Edward P.; and Post, Russell, to Arctic Roof Deicing Corporation. Heat radiating assembly and apparatus for permitting ice blocked water to drain off of house roofs. 3,725,638, 4-3-73, Cl. 219-213.000.

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Solis S.r.L.: *See—*
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Sollami, Blase J.; Lundeen, Howard R.; and Gerth, Bruce F., to Bendix Corporation, The. Composite insulation for cryogenic vessel. 3,724,228, 4-3-73, Cl. 62-50.000.

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Solo, Daniel X. Photographic modifier. 3,767,301, 10-23-73, Cl. 355-52.000.

Solokhin, Boris Ivanovich; and Rubinchik, Galina Markovna. Tooth for the bucket of a digging machine. 3,740,876, 6-26-73, Cl. 37-142.00a.

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Solomon, Archie. Collapsible transporter for garments and the like. 3,722,905, 3-27-73, Cl. 280-39.000.

Solomon, Arieh. Razor blade dispensers. 3,764,040, 10-9-73, Cl. 221-76.000.

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Solomon, Marwick H.: *See—*
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Solomon, Paul W., to Phillips Petroleum Company. (1,2-Dicyclohexenyl)-ethylene ketones. 3,763,240, 10-2-73, Cl. 260-586.00r.

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Solov, Edwin G.; and Pasquariello, Frank J., to Singer Company, The. System and method for monitoring the performance of a dual platform inertial navigation system. 3,731,521, 5-8-73, Cl. 73-1.00e.

Solov, Edwin G.; and Papa, Bernard F., to Singer-General Precision, Inc. Tactical missile range control system. 3,737,122, 6-5-73, Cl. 244-3.210.

Soloviev, Igor Nikolaevich: *See—*
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Solvang, Paul O., to National Water-Blast Inc. Pressure relief valve. 3,714,953, 2-6-73, Cl. 137-14.000.
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Solzer, Willi, to Braun Aktiengesellschaft. Actuating mechanism for ignition system and burner valve of a lighter. 3,712,788, 1-23-73, Cl. 431-150.000.
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Somekh, George S., to Union Carbide Corporation. Motive fluids for external combustion engines. 3,713,289, 1-30-73, Cl. 60-36.000.
Somekh, George S.; Kubek, Daniel J.; and Kosseim, Alexander J., to Union Carbide Corporation. Process for the separation of aromatic hydrocarbons from a mixed hydrocarbon feedstock. 3,714,033, 1-30-73, Cl. 208-321.000.
Somekh, George Solomon: *See—*
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Somerville, Kenneth E. Connector and modules for structural assemblies. 3,751,082, 8-7-73, Cl. 287-54.00a.
Somerville, Richard C., to Globe Rubber Works, Inc. Elastomeric feed roller. 3,775,821, 12-4-73, Cl. 29-129.000.
Somerville, Robert L. Apparatus for the production of phosphoric acid. 3,726,647, 4-10-73, Cl. 23-259.200.
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Someya, Eishichi: *See—*
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Sommer, Alfred Hermann, to RCA Corporation. Method of making an electron emitter device. 3,712,700, 1-23-73, Cl. 316-19.000.
Sommer, Alfred Hermann, to RCA Corporation. Electron emissive device incorporating a secondary electron emitting material of antimony activated with potassium and gesium. 3,753,023, 8-14-73, Cl. 313-103.000.
Sommer, Donald E., to Eaton Corporation. Hoist. 3,740,021, 6-19-73, Cl. 254-186.00r.
Sommer, Francois Noel, to Sommer S.A. Textile web needling device. 3,729,785, 5-1-73, Cl. 28-4.00r.
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Sommer, Gordon M., to Sommer, G. M., Co., Inc. Clutch unit. 3,722,645, 3-27-73, Cl. 192-70.130.
Sommer, Harold Z. Quaternization method. 3,755,334, 8-28-73, Cl. 260-293.510.
Sommer, Harry J.; McLaren, Gordon A; Feichtmeir, Edmund F.; Larsen, Robert G.; and Wittsell, Lawrence E., to Shell Oil Company. Plant nutrient products. 3,748,115, 7-24-73, Cl. 71-64.00f.
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Sommers, Norman A. Stop-leak and anti-sludge composition and method of use in steam boilers and hot water heating systems. 3,740,337, 6-19-73, Cl. 252-72.000.
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Son, Marion O., Jr. Use of micellar dispersions as drilling fluids. 3,734,856, 522-73, Cl. 252-8.50m.
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Sondel, Beverly R. Disposable container. 3,739,827, 6-19-73, Cl. 150-.500.
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Sordello, Frank J., to Information Storage Systems, Inc. Apparatus for synchronizing oscillation of read/write heads with the rotation of a data storage disc pack. 3,728,699, 4-17-73, Cl. 340-174.10c.

Sordello, Frank J.; and Ha, In W., to Information Storage Systems, Inc. Linear positioning apparatus for memory disc pack drive mechanisms. 3,737,883, 6-5-73, Cl. 340-174.10c.

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Sosaya, Frank F.; deceased (by Sosaya, Dolores P.; executrix). Clamp for wall mounting of bathroom accessories. 3,759,473, 9-18-73, Cl. 248-205.00r.

Sosin, Boleslaw Marian, to Marconi Company Limited, The. Switching system for plural antennas connected to plural inputs. 3,740,756, 6-19-73, Cl. 343-853.000.

Sosin, Frank H.; and Cintron, Rene. Combined lock and alarm. 3,714,643, 1-30-73, Cl. 340-274.000.

Sosinski, Charles W., to Thomas & Betts Corporation. Connector. 3,736,627, 6-5-73, Cl. 24-23.000.

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Sottosanti, Michael P. Collapsible spool. 3,718,287, 2-27-73, Cl. 242-118.110.

Sottsass, Ettore, Jr., to Olivetti, Ing. C., & C., S.p.A. Portable typewriter with case. 3,711,175, 1-16-73, Cl. 312-208.000.

Soucy, Eugene H. Stud bracing for metal studs. 3,778,952, 12-18-73, Cl. 52-667.000.

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Souillard, Georges Jules Pierre; and Quaethoven, Frederic Francois Paul Van, to Cosden Oil & Chemical Company. Two cycle lubrication. 3,753,905, 8-21-73, Cl. 252-33.400.

Soukeras, John E. Safe personal effects pouches and strap means for under arm or shoulder wear. 3,739,961, 6-19-73, Cl. 224-5.00r.

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Soule, Winsor, Jr.; and Efstathiou, John, to SCM Corporation. Carriage-position modification of external program. 3,718,911, 2-27-73, Cl. 340-172.500.

Soule, Winsor Jr.; and Andreasen, Leif, to SCM Corporation. Plugboard selection of ordinal limits of register readout. 3,737,872, 6-5-73, Cl. 340-172.500.

Soulie, Guy; and Lozach, Gerard, to Entreprise de Recherches et d'Activites Petrolieres, (ELF). Tool for lowering or raising safety devices in oil wells. 3,764,176, 10-9-73, Cl. 294-86.250.

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Southard, James S., to Conn, C. G., Ltd. Electric organ with chord playing and rhythm systems. 3,740,449, 6-19-73, Cl. 84-1.010.
Southard, James S., to Conn. C. G., Ltd. Automatic rhythm system providing drum break. 3,764,722, 10-9-73, Cl. 84-1.030.
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Sowards, Donald Maurice, to Du Pont de Nemours, E. I., and Company. High intensity radiant gas burner. 3,751,213, 8-7-73, Cl. 431-328.000.
Sowerby, Austen Edgar, to Electric Reduction Company of Canada, Ltd. Use of amine compounds in the sulfation of alcohols. 3,763,208, 10-2-73, Cl. 260-458.000.
Sowerby, Brian David, to Australian Atomic Energy Commission. Applications of nuclear resonance fluorescence of gamma rays to elemental analysis. 3,780,294, 12-18-73, Cl. 250-364.000.
Sowers, Blaine E.; and Hunnicutt, Vaughn E., to North American Van Lines, Inc. Loading and unloading device. 3,774,788, 11-27-73, Cl. 214-75.00h.
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Sowles, Andrew D.; and Parsons, Samuel J. Method of preparing lightweight concrete and plaster and the lightweight concrete and plaster thus prepared. 3,764,357, 10-9-73, Cl. 106-90.000.
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Sowman, Harold G., to Minnesota Mining and Manufacturing Company. Refractory fibers and other articles of zirconia and silica mixtures. 3,709,706, 1-9-73, Cl. 106-57.000.
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Soya, Masahiro; Aizawa, Kensuke; and Hasegawa, Hiroaki, to Tokico Ltd. Computing apparatus for a calorimeter. 3,733,896, 5-22-73, Cl. 73-193.00r.
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Spaak, Albert; and Weir, Clifford L., to Allied Chemical Corporation. Method of injection molding foamable plastic with minimized wastage. 3,773,873, 11-20-73, Cl. 264-37.000.
Spaar, Gerd, to Clouth Gummiwerke AG. Conveyor belt construction. 3,724,645, 4-3-73, Cl. 198-193.000.
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Spachner, Sheldon A.; and Desai, Prakash D., to Gulf & Western Industrial Products Company. Press and drive mechanism therefor. 3,766,771, 10-23-73, Cl. 72-450.000.
Spacht, Ronald B.: *See—*
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Spacht, Ronald B., to Goodyear Tire & Rubber Company, The. Alkylation product of 4(methylthio) phenol. 3,714,264, 1-30-73, Cl. 260-609.00f.
Spacht, Ronald B., to Goodyear Tire & Rubber Company, The. Akylthio substituted polynuclear phenols. 3,728,399, 4-17-73, Cl. 260-609.00f.
Spada, Bartholomew J.: *See—*
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Spademan, Charles F.; and Marsalka, Joseph P., to MI² Inc. Magnetic tape data processing system. 3,764,986, 10-9-73, Cl. 340-172.500.
Spadini, Paolo. Watch with adjustable time-dependent signal transmission. 3,775,967, 12-4-73, Cl. 58-57.500.
Spadoni, Frank G., Jr., to Litton Systems, Inc. Electrical connector with twisted posts. 3,731,261, 5-1-73, Cl. 339-220.00r.
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Spagnuolo, Romolo. Device and method for linking tubular borders to a fabric edge. 3,738,291, 6-12-73, Cl. 112-25.000.
Spahl, Edwin, to Ford Motor Company. Motor vehicle with mechanically-operable safety belt system. 3,779,578, 12-18-73, Cl. 280-150.0sb.
Spahn, Leland R. Inflatable amusement device for treading on water. 3,779,201, 12-18-73, Cl. 115-20.000.
Spahr, Gene L., to FMC Corporation. Auxiliary motor starter control circuitry including remote and local control of plural batteries. 3,720,839, 3-13-73, Cl. 290-37.000.
Spain, Levern. Process for exterminating rodents. 3,771,253, 11-13-73, Cl. 43-124.000.
Spain, Raymond G. Refurbishable brake disc. 3,724,612, 4-3-73, Cl. 188-218.0xl.
Spain, Robert J., to Compagnie Internationale Pour l'Informatique. Thin film binary data information stores. 3,708,789, 1-2-73, Cl. 340-174.0bc.
Spain, Roy C.: *See—*
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Spain, Roy C.; and Oliver, Roy N. Cylinder lock. 3,722,240, 3-27-73, Cl. 70-364.00a.
Spain, Theodore H.; Geimer, Allen F. J.; and Loesche, Victor E., Jr. Mouse trap. 3,769,742, 11-6-73, Cl. 43-81.000.
Spain, Virginia L.; and Diekman, John D., to Zoecon Corporation. Aza aliphatic esters. 3,716,564, 2-13-73, Cl. 260-404.000.
Spaite, Paul W., to Kinney, A. M., Inc. Refuse disposal and heat recovery in steam boilers. 3,759,196, 9-18-73, Cl. 110-8.00r.
Spalding, Donald K.: *See—*
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Spalding, James A.: *See—*
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Spalding, Richard Le Roy, to RCA Corporation. Electron gun and method of assembly. 3,777,210, 12-4-73, Cl. 313-256.000.
Spalding, Robert H.; and Spalding, James A., to Diemakers, Inc. Gooseneck valve arrangement for diecasting machine. 3,777,943, 12-11-73, Cl. 222-385.000.
Spaller, Albert E.: *See—*
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Spaller, Albert E., Jr., to Eastman Kodak Company. Apparatus for supporting and clamping knives on a rotary cutter. 3,777,610, 12-11-73, Cl. 83-678.000.
Spalt, Howard A.; Chu, Chung Ying; and Niketas, Paul, to Masonite Corporation. Production of crystalline xylose. 3,780,017, 12-18-73, Cl. 260-209.00r.
Spalvins, Talivaldis, to United States of America, National Aeronautics and Space Administration. Deposition of alloy films. 3,772,174, 11-13-73, Cl. 204-192.000.
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Spanbauer, Francis L., to Gulf Research & Development Company. Abnormal impedance test for a string of geophones. 3,717,810, 2-20-73, Cl. 324-57.00r.
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Spangenberg, Gerhard, to Marotha Scientific Controls, Inc. Valve control with dither. 3,709,253, 1-9-73, Cl. 137-595.000.
Spangenberg, Stanley F., to Dow Chemical Company, The. Preparation of alkaline earth metal titanate. 3,725,539, 4-3-73, Cl. 423-598.000.
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Spangler, Carl David, Jr. Antipollution disposal of sour refinery gas with sulfur recovery. 3,773,912, 11-20-73, Cl. 723-574.000.
Spangler, Murry J., to Westinghouse Electric Corporation. Electro-optical image composite display. 3,732,428, 5-8-73, Cl. 250-213.0vt.
Spangler, Myrtle Joanne, to Dan River Inc. Process of reducing formaldehyde odor of aqueous mixtures containing methylolated carbamates. 3,723,377, 3-27-73, Cl. 260-29.40r.
Spani, Wayne, to Eastman Kodak Company. Positive-negative microfilm film reader. 3,768,897, 10-30-73, Cl. 353-26.000.
Spanjer, Keith G., to Motorola, Inc. Apparatus for control of welding apparatus. 3,734,382, 5-22-73, Cl. 228-1.000.
Spanjer, Keith G., to Motorola, Inc. Method for control of welding apparatus. 3,763,545, 10-9-73, Cl. 29-470.100.
Spanjer, Keith Gordon, to Motorola, Inc. Method of encapsulating articles. 3,763,300, 10-2-73, Cl. 264-272.000.



Spanke, Edwin A.; and Balunas, Vincent J., Jr., to U.S. Industries, Inc. Spring applied, fluid pressure released locking device.
Sparling, Robert O. Rapier loom. 3,717,182, 2-20-73, Cl. 139-127.00r.



phenylthiophenyl and phenylaminophenyl piperazinylthioureas.
Specht, Walter A. Trailer leveling system. 3,771,232, 11-13-73, Cl.

Spanke, Edwin A.; and Balunas, Vincent J., Jr., to U.S. Industries, Inc. Spring applied, fluid pressure released locking device. 3,735,842, 5-29-73, Cl. 188-67.000.

Spann, J. Richard: *See—*
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Spann, John C.; and Gentry, James F., to Westinghouse Electric Corporation. Hybrid high speed ecl to p-channel MOS clock driver. 3,728,559, 4-17-73, Cl. 307-264.000.

Spanner, William Frank. Water-surface cleansing ship. 3,744,257, 7-10-73, Cl. 61-46.500.

Spannhake, Dieter, to Fernseh GmbH Darmstadt. Television receiver with video amplifier protected from high-voltage flash-over. 3,757,043, 9-4-73, Cl. 178-7.50r.

Spannlang, Ronald, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Converter handling vehicle. 3,741,407, 6-26-73, Cl. 214-1.00d.

Spano, Leo A.; and Lacono, Vincent D., to United States of America, Army. Air distribution garment. 3,710,395, 1-16-73, Cl. 2-78.000.

Spanos, William M., to International Telephone and Telegraph Corporation. Steerable null antenna arrangement. 3,725,929, 4-3-73, Cl. 343-844.000.

Spanos, William M., to International Telephone and Telegraph Corporation. Turnstile antenna. 3,725,943, 4-3-73, Cl. 343-797.000.

Spanos, William M., to International Telephone and Telegraph Corporation. Multimode discone antenna. 3,742,510, 6-26-73, Cl. 343-730.000.

Spanoudis, Louis, to Owens-Illinois, Inc. Method of making glass lasers of increased heat dissipation capability. 3,779,732, 12-18-73, Cl. 65-31.000.

Spanset Inter AG: *See—*
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Sparacio, Francis J.: *See—*
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Sparacio, Joseph F.; and Pierro, Richard S., to United Aircraft Corporation. Probability density function generator. 3,728,722, 4-17-73, Cl. 343-5.000.

Sparapany, John Joseph: *See—*
Gerow, Clare William; and Sparapany, John Joseph, 3,770,566.

Sparber, Frederick J.: *See—*
McDonald, Johnnie F.; and Sparber, Frederick J., 3,751,869.

Sparham, Vaughan; and Pinner, Gordon Frederick, to British Wedge Wire Company Limited. Sedimentation tanks. 3,774,770, 11-27-73, Cl. 210-298.000.

Sparkler Manufacturing Company: *See—*
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Sparkman, Thomas W.: *See—*
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Sparks, Albert J. Damper control mechanism. 3,777,974, 12-11-73, Cl. 236-49.000.

Sparks, Allen K.: *See—*
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Sparks, Arnold F.: *See—*
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Sparks, Brian Edmund, to Lucas, Joseph, (Industries) Limited. Temperature sensitive flow-dividing valve. 3,741,477, 6-26-73, Cl. 236-93.000.

Sparks, Buddy G., to Murphy, Frank W., Manufacturer, Inc. Safety system incorporating a plurality of control switches. 3,746,926, 7-17-73, Cl. 317-9.00b.

Sparks, Charles H. Method of growing a graft member in a living body. 3,707,958, 1-2-73, Cl. 128-1.00r.

Sparks, Charles H. Graft member grown in a living body. 3,710,400, 1-16-73, Cl. 3-1.000.

Sparks, Charles H. Method and apparatus for growing graft tubes in place. 3,710,777, 1-16-73, Cl. 128-1.00r.

Sparks, Charles L.; deceased (by Sparks, Florence J.; executrix). Compressor pump. 3,734,647, 5-22-73, Cl. 417-269.000.

Sparks, Florence J.: *See—*
Sparks, Charles L., 3,734,647.

Sparks, George C.: *See—*
Serrell, John J.; Sparks, George C.; and Trowern, Howard M., Jr., 3,737,029.

Sparks, William J. Hand grips. 3,712,343, 1-23-73, Cl. 138-177.000.

Sparlin, Derry D., to Continental Oil Company. Alkyl bis(hydroxyphenyl) alkanoates and aldehyde condensation products thereof. 3,746,095, 7-17-73, Cl. 166-295.000.

Sparlin, Derry D.; and Hunt, Mack W., to Continental Oil Company. Composition and method for selectively modifying the permeability of subterranean formations. 3,749,589, 7-31-73, Cl. 106-123.000.

Sparling, Arthur J. Welding of wires to each other. 3,773,262, 11-20-73, Cl. 239-291.000.

Sparling, Robert O. Rapier loom. 3,717,182, 2-20-73, Cl. 139-127.00r.

Sparling, Wayne Clifford: *See—*
Jennings, Uel Duane; and Sparling, Wayne Clifford, 3,718,288.

Sparr, Anders V., Sr. Udder and teat cleansing apparatus and sanitizer. 3,713,423, 1-30-73, Cl. 119-1.000.

Sparr, Donald J.: *See—*
Klapproth, Edward H.; and Sparr, Donald J., 3,770,235.

Sparre, Claes Ulf Casimir: *See—*
Troselius, Lars Johan Bertil; Sparre, Claes Ulf Casimir; and Kiessling, Roland Richard, 3,764,302.

Sparrendahl, Gunnar Erik William, to Telefonaktiebolaget L M Ericsson. Modulator and demodulator respectively for use in adaptive delta modulation. 3,736,508, 5-29-73, Cl. 325-38.00b.

Sparrow, Donald Hugh; Sparrow, Robert William; and Sparrow, James Ernest. Automatic flare igniter and counterbalanced flare stack. 3,756,765, 9-4-73, Cl. 431-202.000.

Sparrow, James Ernest: *See—*
Sparrow, Donald Hugh; Sparrow, Robert William; and Sparrow, James Ernest, 3,756,765.

Sparrow, Julian H.: *See—*
Motz, Joseph W.; Dick, Charles E.; Placious, Robert C.; and Sparrow, Julian H., 3,752,989.

Sparrow, Robert William: *See—*
Sparrow, Donald Hugh; Sparrow, Robert William; and Sparrow, James Ernest, 3,756,765.

Spartan Air Services Limited: *See—*
Mc Connell, Frederick C.; Jason, George; and Armstrong, Neil J., 3,765,770.
McConnell, Frederick C.; Jason, George; and Armstrong, Neil J., 3,766,312.

Spartanics, Ltd.: *See—*
Willits, Samuel P.; and Mohan, William L., 3,743,820.

Sparton Corporation: *See—*
Luteran, Frank K., 3,739,231.
Milligan, Ronald R.; and Widenhofer, James W., 3,736,954.
Sikora, Joseph A., 3,720,909.
Thomas, Chas E., 3,734,995.

Sparton, Management Services, Inc.: *See—*
Shadburn, Whelchel Artis, 3,770,312.

Spataru, Eugen: *See—*
Constantinescu, Dorin; Cruceanu, Sever; Spataru, Eugen; and Mereanu, Nicolae, 3,735,826.
Constantinescu, Dorin; Cruceanu, Sever; Spataru, Eugen; and Mereanu, Nicolae, 3,741,323.

Spate, Sydney: *See—*
Schlatter, Benjamin G.; and Spate, Sydney, 3,722,152.

Spath, Werner, to Siemens Aktiengesellschaft. Method for simultaneous production of a plurality of equal semiconductor components with a PN junction from a single semiconductor wafer. 3,738,917, 6-12-73, Cl. 204-15.000.

Spati Industries, Inc.: *See—*
Tuttle, Wainwright, 3,707,874.

Spatz Corporation: *See—*
Spatz, Walter B., 3,756,730.
Spatz, Walter B., 3,768,705.
Spatz, Walter B., 3,768,915.

Spatz, Donald Dean, to Osmonics, Inc. Solvent separating apparatus. 3,716,141, 2-13-73, Cl. 210-194.000.

Spatz, Donald Dean; and Nieland, Arnold A., to Osmonics, Inc. Separation system. 3,756,408, 9-4-73, Cl. 210-96.000.

Spatz, Sydney M.; Bailey, Maurice E.; and Evans, Francis E., to Allied Chemical Corporation. 4- and 5-Methyl-1-H-benzotriazoles prepared from vicinal toluenediamine mixtures. 3,732,239, 5-8-73, Cl. 260-308.00b.

Spatz, Walter B., to Spatz Corporation. Fluent material dispenser having ooze prevention means. 3,756,730, 9-4-73, Cl. 401-174.000.

Spatz, Walter B., to Spatz Corporation. Dispensers for fluent masses. 3,768,705, 10-30-73, Cl. 222-213.000.

Spatz, Walter B., to Spatz Corporation. Axial force limiting cosmetic marking devices. 3,768,915, 10-30-73, Cl. 401-50.000.

Spatzek, Ronald M.: *See—*
Krasnitz, Jacob; Krasnitz, Martin; Spatzek, Ronald M.; and Krasnitz, Ronald H., 3,734,039.

Spaulding, David Adams: *See—*
Hirsch, Donald; and Spaulding, David Adams, 3,715,670.
Mueller, Kurt Hugo; and Spaulding, David Adams, 3,715,666.

Spaulding, David Adams, to Bell Telephone Laboratories, Incorporated. Coherent digital demodulator. 3,761,829, 9-25-73, Cl. 329-104.000.

Spaulding, Edward H. Shallow water adaptor for outboard motors. 3,768,432, 10-30-73, Cl. 115-42.000.

Spaulding, Inc.: *See—*
Spaulding, Ronald L., 3,760,668.

Spaulding, Ronald L., to Spaulding, Inc. Workpiece support/apparatus and method for shearing. 3,760,668, 9-25-73, Cl. 83-13.000.

Spaun, Ruediger; Rochat, Alain Claude; Gallay, Jean-Jacques; and Brenneisen, Paul, to Ciba-Geigy Corporation. Phenoxyphenyl





phenylthiophenyl and phenylaminophenyl piperazinylthioureas. 3,781,290, 12a25-73, Cl. 260-268.00c.

Spaunburgh, Richard G.; and Hino, John B., to Allied Chemical Corporation. Polyisocyanate compositions stabilized against discoloration. 3,715,381, 2-6-73, Cl. 260-453.00p.

Spauszus, Siegfried: *See—*
Kelch, Heinz; Krickl, Josef; Schuh, Eduard; and Spauszus, Siegfried, 3,716,700.
Kelch, Heinz; and Spauszus, Siegfried, 3,718,808.

Spauszus, Siegfried; Fichter, Manfred; and Kelch, Heinz, to Kienzle Apparate G.m.b.H. Taxi meter with electronic fare computer. 3,764,782, 10-9-73, Cl. 235-92.0tc.

Speakman, Edwin L.: *See—*
Kightlinger, Adrian P.; Crosby, Edward K.; and Speakman, Edwin L., 3,778,431.

Speakman, Edwin L., to Standard Brands Incorporated. Process for producing formaldehyde-treated starch free of unreacted or free formaldehyde. 3,716,527, 2-13-73, Cl. 260-233.30a.

Speakman, Edwin L., to Standard Brands Incorporated. Starch ethers and method of preparing same. 3,732,208, 5-8-73, Cl. 260-233.30r.

Speakman, Eugene R., to McDonnell Douglas Corporation. Stress coining bolt. 3,779,127, 12-18-73, Cl. 85-7.000.

Speakman, Peter Roscoe Hartley: *See—*
Hardy, Frederick Edward; Robson, Peter; and Speakman, Peter Roscoe Hartley, 3,719,647.

Speakman, Peter Roscoe Hartley; and Stewart, David Geoffrey, to Procter & Gamble Company, The. Bleaching process and composition. 3,756,776, 9-4-73, Cl. 8-111.000.

Spear & Jackson (Ashberry) Limited: *See—*
Brumwell, Terence Jack, 3,742,602.

Spear, Ernest L.: *See—*
Ares, Roland A.; Bullard, Russell H.; and Spear, Ernest L., 3,734,171.

Spear, Gilmore M., to Gleason Works, The. Method for lapping gears. 3,712,000, 1-23-73, Cl. 51-287.000.

Spear, Herbert W. Rotary mower including sharpener, and method. 3,738,092, 6-12-73, Cl. 56-12.100.

Spear, Karl E., II: *See—*
Leitnaker, James M.; and Spear, Karl E., II, 3,708,433.
Leitnaker, James M.; and Spear, Karl E., II, 3,746,616.

Spear, Robert E.: *See—*
Blayden, Lee C.; Brondyke, Kenneth J.; and Spear, Robert E., 3,737,303.
Blayden, Lee C.; Brondyke, Kenneth J.; and Spear, Robert E., 3,737,304.
Blayden, Lee C.; Brondyke, Kenneth J.; and Spear, Robert E., 3,737,305.

Spear, Robert E.; Ormesher, Robert J.; and Short, Herbert M., to Aluminum Company of America. Melting aluminum under special flow conditions. 3,770,420, 11-6-73, Cl. 75-68.00r.

Spearhead, Inc.: *See—*
Hardway, Edward V., Jr., 3,713,436.
Hardway, Edward V., Jr., 3,729,728.
Hardway, Edward V., Jr., 3,729,991.
Hardway, Edward V., Jr., 3,732,553.
Hardway, Edward V., Jr., 3,760,254.
Hardway, Edward V., Jr., 3,774,237.
Hardway, Edward V., Jr., 3,774,238.

Spears, Dan S., to Blue Channel Corporation, The. Processing of seafood including shellfish and crustaceans. 3,736,153, 5-29-73, Cl. 99-188.000.

Spears, David L.: *See—*
Smith, Henry I.; Spears, David L.; and Stern, Ernest, 3,742,229.
Smith, Henry Ignatius; Spears, David L.; and Stern, Ernest, 3,743,842.

Spears, David L.; Smith, Henry I.; and Stern, Ernest, to Massachusetts Institute of Technology. Soft X-ray mask support substrate. 3,742,230, 6-26-73, Cl. 250-65.00r.

Spears, Esten W., Jr.: *See—*
Beam, Paul E., Jr.; Hunt, Albert L., Jr.; and Spears, Esten W., Jr., 3,736,069.
Smale, Charles H.; and Spears, Esten W., Jr., 3,712,547.

Spears, Jesse W.: *See—*
Davidge, Ronald V.; Hobgood, George W., Jr.; Queener, Carl A.; Spears, Jesse W.; and Thompson, Bernard G., 3,736,055.

Spears, William; and Lee, Harry W., Jr., to Reynolds Metals Company. Apparatus for and method of classifying empty containers. 3,749,240, 7-31-73, Cl. 209-75.000.

Specht, Dieter: *See—*
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vom Stein, Hans; and Specht, Dieter, 3,763,980.

Specht, Donald P.: *See—*
Reynolds, George A.; Tuccio, Sam A.; Peterson, Otis G.; and Specht, Donald P., 3,753,146.

Specht, Glenn E., to American La France, Inc. Flow restricting valve. 3,712,587, 1-23-73, Cl. 251-285.000.

Specht, Theodore R., to Westinghouse Electric Corporation. Surge generator for transformer testing. 3,742,346, 6-26-73, Cl. 324-55.000.

Specht, Walter A. Trailer leveling system. 3,771,232, 11-13-73, Cl. 33-375.000.

Special Devices, Inc.: *See—*
Filippi, Ernest A., 3,714,899.

Special Machinery, Inc.: *See—*
Cloud, James E., 3,768,670.

Special Metals Corporation: *See—*
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Special Optics Inc.: *See—*
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Specialized Electronics Inc.: *See—*
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Specialized Products, Inc.: *See—*
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Evans, James P., 3,762,244.

Speck, Albert J.: *See—*
Voth, James W.; and Speck, Albert J., 3,754,625.

Speck, Roy E., to Bio-Dynamics, Inc. Reagent for medical testing which contains a benzidine-like compound. 3,753,863, 8-21-73, Cl. 195-103.50c.

Speck, Walter: *See—*
Speck, Willy; and Speck, Walter, 3,756,742.

Speck, Willy; and Speck, Walter. Centrifugal pump having structure for cooling and lubricating a seal. 3,756,742, 9-4-73, Cl. 415-175.000.

Speckhart, Bernard S.: *See—*
Weiss, Morton A.; and Speckhart, Bernard S., 3,780,852.

Speckler, Steven Alan, to RCA Corporation. Direct-coupled triggered flip-flop. 3,767,943, 10-23-73, Cl. 307-292.000.

Speco, Inc.: *See—*
Witte, Walter R., 3,779,565.

Spector, Marshall L.; Jones, Robert D.; and McDowell, Curtis S., to Air Products and Chemicals, Inc. Activated sludge sewage treatment process and system. 3,725,258, 4-3-73, Cl. 210-7.000.

Spector, Marshall L.; Jones, Robert D.; and McDowell, Curtis S., to Air Products and Chemicals, Inc. Activated sludge sewage treatment process and system. 3,733,264, 5-15-73, Cl. 210-7.000.

Spector, Samuel. Toilet with disposable receptacle. 3,772,711, 11-20-73, Cl. 4-78.000.

Spector, Sidney, to Hoffmann-La Roche Inc. Opium alkaloid antigens and antibodies specific therefor. 3,709,868, 1-9-73, Cl. 260-121.000.

Spector, Sidney, to Hoffmann-La Roche Inc. Barbituric acid antigens and antibodies specific therefor. 3,766,162, 10-16-73, Cl. 260-112.00r.

Spector, Sidney; and Parker, Charles W., said Spector assor. to said Hoffmann-La Roche Inc. Opium alkaloid antigens and antibodies specific therefor. 3,775,536, 11-27-73, Cl. 424-1.000.

Spectra-Mat, Inc.: *See—*
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Spectra-Physics, Inc.: *See—*
Offner, Franklin F., 3,743,965.

Spectral Data Corporation: *See—*
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Yost, Edward F., Jr., 3,715,962.
Yost, Edward F., Jr., 3,720,146.
Yost, Edward F., Jr., 3,739,700.
Yost, Edward F., Jr., 3,768,898.

Spectral Dynamics Corporation of San Diego: *See—*
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Spectral Imaging Inc.: *See—*
Harwit, Martin, 3,720,469.

SpectraMetrics, Incorporated: *See—*
Elliott, William G., 3,752,585.

Spectrex Company: *See—*
Hoyte, John M.; and Hollenbeck, Keith E., 3,754,829.

Spectrol Electronics Corporation: *See—*
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Spectrospin AG: *See—*
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Keller, Toni, 3,781,650.
Keller, Toni W.; Laukien, Gunther R.; and Tschopp, Werner H., 3,720,816.
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Spectrotherm Corporation: *See—*
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Dickson, Colin G.; and Wickersheim, Kenneth A., 3,740,011.
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Spectrum Medical Industries, Inc.: *See—*
Eddleman, Roy T.; and Schmitz, Richard L., 3,779,415.

Spedden, Henry Rush, to Kennecott Copper Corporation. Process for recovering volatilized rhenium oxides and sulfur oxides from gas streams. 3,723,595, 3-27-73, Cl. 423-50.000.

Spedden, Henry Rush; Richards Kenneth J.; and Schlitt, William J., III, to Kennecott Copper Corporation. Dry cyclic process utilizing





a maganous oxide absorbent for removal of dilute sulfur values

Speirs, Kenneth K.; and Weinstein, Martin, to Chromalloy American

a maganous oxide absorbent for removal of dilute sulfur values from gas streams. 3,723,598, 3-27-73, Cl. 423-244.000.
Speece, Richard E.: *See—*
Buss, Keen W.; and Speece, Richard E., 3,756,197.
Speed Caulking, Inc.: *See—*
Deeb, Fred E., 3,726,440.
Speed Cut, Inc.: *See—*
Thorsell, Roland H., 3,756,619.
Speed Fastener, Inc.: *See—*
Kissane, Richard W., 3,708,238.
Speed, Russell H., to Standard Pneumatic Motor Company. Clamping device or chuck. 3,762,732, 10-2-73, Cl. 279-102.000.
Speed-O-Print Business Machines Corporation: *See—*
Hyosaka, Alfred M., 3,760,616.
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Samuels, Abe; and Wiggerman, Roger A., 3,769,896.
Speedcheck Systems, Inc.: *See—*
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Speedco, Inc.: *See—*
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Speedcranes Limited: *See—*
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Speedfam Corporation: *See—*
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Speedine Partnership: *See—*
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King, Leonard Tony, 3,771,433.
Speedrack Inc.: *See—*
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Speedriver Tool Corporation: *See—*
Miller, Leslie T., 3,769,862.
Speer, Eugene. Motor vehicle automatic impact braking system. 3,752,250, 8-14-73, Cl. 180-92.000.
Speer, Eugene M. Automotive vehicle impact energy reducing bumper. 3,752,522, 8-14-73, Cl. 293-60.000.
Speer, Lawrence, to Vyna-Chem, Inc. Method for patching materials. 3,713,926, 1-30-73, Cl. 156-98.000.
Speer, Philip C., to Tekmar Corporation. Liquid waste treating means for incinerator toilets. 3,725,963, 4-10-73, Cl. 4-131.000.
Speeter, Winfried: *See—*
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Speetjens, Joseph T.: *See—*
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Speheger, Stevan W.: *See—*
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Speicher, Charles A.: *See—*
Magill, Peter J.; McCurry, Robert E.; and Speicher, Charles A., 3,715,762.
Speicher, Edwin W., to Cunningham, M. E., Company. Portable marking tool. 3,762,484, 10-2-73, Cl. 173-119.000.
Speicher, Paul L., to Cyclone Seeder Company, The. Metering device for securement to the hopper or container of a distributor of seeds and other fluent material. 3,738,546, 6-12-73, Cl. 222-561.000.
Speickhoff, Lester T., 1/2 to Simpson, Arthur G. Vehicle electronic security device. 3,777,306, 12-4-73, Cl. 340-64.000.
Speidel, Blasius. Membrane-breastpiece for stethoscopes and method of manufacturing same. 3,765,503, 10-16-73, Cl. 181-24.000.
Speidel, Elbert O., to MHI, Inc. Building structure. 3,769,766, 11-6-73, Cl. 52-73.000.
Speidel, John A. Seat and back structure for chairs. 3,746,394, 7-17-73, Cl. 297-458.000.
Speier, John L.: *See—*
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Speier, John L., to Dow Corning Corporation. Organosilicon cinnamates. 3,767,690, 10-23-73, Cl. 260-448.20n.
Speigel, Kenneth: *See—*
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Speigel, Kenneth; and Wilson, Robert F., to GTE Sylvania Incorporated. Phosphor suspension for dip-coating metallic segments. 3,763,051, 10-2-73, Cl. 252-301.30r.
Speight, James G.: *See—*
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Speight, Wesley Y., to Southern Pacific Transportation Company. Pneumatically-operated toggle yarn switch. 3,708,660, 1-2-73, Cl. 246-393.000.
Speirs, Kenneth K.; Weinstein, Martin; and Blize, Roy L., to Chromalloy American Corporation. Magnesium-based coating for the sacrificial protection of metals. 3,748,172, 7-24-73, Cl. 117-135.100.
Speirs, Kenneth K.; and Weinstein, Martin, to Chromalloy American Corporation. Diffusion coating of metals. 3,762,885, 10-2-73, Cl. 29-196.200.
Speirs, Kenneth K.; and Weinstein, Martin, to Chromalloy American Corporation. Diffusion coating of metals. 3,764,373, 10-9-73, Cl. 117-107.20p.
Speiser, Helmut, to SKF Kugellagerfabriken GmbH. Spinning and twisting apparatus. 3,742,694, 7-3-73, Cl. 57-132.000.
Speiser, Jeffrey M.: *See—*
Whitehouse, Harper John; and Speiser, Jeffrey M., 3,757,256.
Whitehouse, Harper John; and Speiser, Jeffrey M., 3,770,949.
Speiser, Jeffrey M.; and Whitehouse, Harper John, to United States of America, Navy. Surface wave multiplex transducer device with gain and side lobe suppression. 3,723,916, 3-27-73, Cl. 333-30.000.
Speizmin Industries, Inc.: *See—*
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Spelha, David J.; and Kreuser, Marvin J., to Nuclear-Chicago Corporation. Radiation detecting apparatus. 3,723,735, 3-27-73, Cl. 250-71.50r.
Speliotis, Dennis E.: *See—*
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Spell, Perry W. Agricultural implement. 3,739,858, 6-19-73, Cl. 172-59.000.
Speller, John Rueben Thomas: *See—*
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Spellman, Francis T., Jr., to Symons Corporation. Hydraulic turntable. 3,743,223, 7-3-73, Cl. 248-2.000.
Spellman, Francis T., Jr., to Symons Corporation. Distributing conveyor system for a rotary concrete mixing or other truck. 3,768,784, 10-30-73, Cl. 259-169.000.
Spellman, Patrick J.; Oltman, John E.; and Sanden, Gerald, to ESB Incorporated. Battery having gas pervious, liquid impervious member sealed over hole in top. 3,741,812, 6-26-73, Cl. 136-107.000.
Spellman, Robert D.: *See—*
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Spellman, Vernon C., to Optical Coating Laboratory, Inc. Method for evaporating aluminum. 3,776,535, 12-4-73, Cl. 266-34.00r.
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Spenadel, Lawrence; and Longwell, John P., to Esso Research and Engineering Company. Liquid oxidizers containing $NF_2$ groups thickened with polymeric compounds. 3,741,832, 6-26-73, Cl. 149-109.000.
Spence, David Hugh; and Topham, Arthur, to Imperial Chemical Industries Limited. Dispersions. 3,728,301, 4-17-73, Cl. 260-33.60r.
Spence, Douglas Roy, to Girling Limited. Hydraulic braking systems in vehicles. 3,770,325, 11-6-73, Cl. 303-10.000.
Spence, Floyd G.: *See—*
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Foster, Harold M.; Rees, Thomas C.; and Spence, Floyd G., 3,726,923.
Spence, Gerald D.: *See—*
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Spence, Hilton W.: *See—*
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Spence, Jack E., to Durfold, Inc. Convertible furniture construction. 3,767,258, 10-23-73, Cl. 297-111.000.
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Spence, John H.; Yang, Tung Han; and Anderson, Steven A., to Pullman Incorporated. Deflector for railway car cushioning unit. 3,710,952, 1-16-73, Cl. 213-43.000.
Spence, John R., to North American Rockwell Corporation. Clamp circuit for bootstrap field effect transistor. 3,714,466, 1-30-73, Cl. 307-237.000.
Spence, John R., to North American Rockwell Corporation. Two-clock memory cell. 3,744,037, 7-3-73, Cl. 340-173.0ca.
Spence, Larry A. Orally operated electronic musical instrument. 3,730,046, 5-1-73, Cl. 84-1.040.
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Snyder, Robbie L.; Spencer, Ambrose; and Butts, Harlan, 3,778,102.
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Spencer, Calvin D., to Rax Corporation. Support rack for camper bodies. 3,715,100, 2-6-73, Cl. 254-49.000.
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Helms, Horace H.; Rozner, Alexander G.; and Spencer, Dana E., 3,713,636.
Spencer, David R.: *See—*
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Spencer, Denzil Reginald Frank, to Steetley (Mfg.) Ltd. Refractory substance. 3,770,467, 11-6-73, Cl. 106-58.000.
Spencer, Donald B., to McGraw-Edison Company. Jet spray treating machine. 3,717,015, 2-20-73, Cl. 68-18.00f.
Spencer, Donald J.; Durran, Donald A.; and Bixler, Henry A., to United States of America, Air Force. Tunable optical cavity for chemical laser. 3,731,221, 5-1-73, Cl. 331-94.500.
Spencer, Donald J. Plastic breaker strip. 3,768,687, 10-30-73, Cl. 220-9.00r.
Spencer, Duane Robert, to United States of America, Navy. Variable area injector for rocket engine. 3,722,219, 3-27-73, Cl. 60-39.74a.
Spencer, Floyd G.: *See—*
Foster, Harold M.; Rees, Thomas C.; and Spencer, Floyd G., 3,711,552.
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Spisak, Steve, to TRW Inc. Stud welding tool and stud loading device therefor. 3,758,742, 9-11-73, Cl. 219-98.000.
Spisak, Steve, to TRW Inc. Clutch mechanism for welding tools. 3,758,744, 9-11-73, Cl. 219-98.000.
Spisak, Steve, to TRW Inc. Chucking means for large flanged studs when automatically feeding studs thru rear of chuck. 3,774,005, 11-20-73, Cl. 219-98.000.
Spiteri, Joseph, to Rem Research, Inc. Marker light and lens. 3,711,704, 1-16-73, Cl. 240-106.100.
Spiteri, Joseph. Dual voltage drop light. 3,761,862, 9-25-73, Cl. 339-28.000.
Spitfire Tool & Machine Co., Inc.: *See—*
Day, Lawrence, 3,762,053.
Spitsbergen, James C.: *See—*
Loewrigkeit, Peter; and Spitsbergen, James C., 3,733,305.
Spitsbergen, James C.; and Kim, Young Kwon, to Witco Chemical Company, Inc. Styrene soluble chemically resistant polyester. 3,758,639, 9-11-73, Cl. 260-870.000.
Spittle, Walter: *See—*
Foss, Richard C.; and Spittle, Walter, 3,769,525.
Spitz, David A.: *See—*
Hickman, Richard W.; Rocheleau, Antoni A.; and Spitz, David A., 3,731,520.
Spitzer, Cary R.; and Stainback, Jerry D., to United States of America, National Aeronautics and Space Administration. Exposure interlock for oscilloscopy camera. 3,757,659, 9-11-73, Cl. 95-42.000.
Spitzer, Donald Paul: *See—*
Castellion, George Augustus; and Spitzer, Donald Paul, 3,712,710.
Spitzer, Ernst L.T.M.: *See—*
Campen, Jan P.; Spitzer, Ernst L.T.M.; Senden, Wilhelmus A. A.; and Hill, Jeffrey S., 3,758,594.
Spitzer, Henry W. Desk moving device. 3,768,676, 10-30-73, Cl. 214-392.000.
Spitzer, James Edward: *See—*
Humphreys, Robert Lee; and Spitzer, James Edward, 3,765,785.
Spitzner, Erich A., to Regal Games Mfg., Co. Game card assembly. 3,732,629, 5-15-73, Cl. 35-9.00e.
Spitzner, Klaus Juergen: *See—*
Notte, Angelo Joseph; Hold, Peter; and Spitzner, Klaus Juergen, 3,727,892.
Spitzy, Hans: *See—*
Schreiber, Bernhard; Knapp, Gunter; and Spitzy, Hans, 3,753,655.
Spivack, John D.: *See—*



Dexter, Martin; Spivack, John D.; and Steinberg, David H., 3,708,520.
Dexter, Martin; Spivack, John D.; and Steinberg, David H., 3,723,489.
Dexter, Martin; Spivack, John D.; and Steinberg, David Herbert, 3,723,503.
Dexter, Martin; Spivack, John D.; and Steinberg, David H., 3,779,945.
Spivack, John D., to Ciba-Geigy Corporation. Bis-(hindered phenol)-alkylene diphosphonates and phosphonoacetates. 3,714,300, 1-30-73, Cl. 260-932.000.
Spivack, John D., to Ciba-Geigy Corporation. Metal complexes of N,N-dialkyl esters of ethylenedinitriolotetraacetic acid and compositions stabilized thereby. 3,751,440, 8-7-73, Cl. 260-439.00r.
Spivack, John D., to Ciba-Geigy Corporation. Polyol esters of alkylated-4-hydroxybenzyl phosphinic acids. 3,769,372, 10-30-73, Cl. 260-928.000.
Spivack, John D., to Ciba-Geigy Corporation. Compositions stabilized with bis-(hindered phenol)-alkylene diphosphonates and phosphono-acetates. 3,776,884, 12-4-73, Cl. 260-45.85b.
Spivack, John Denon: *See—*
Dexter, Mertin; Spivack, John Denon; and Steinberg, David Herbert, 3,763,166.
Spivack, John Denon, to Ciba-Geigy Corporation. Phosphinic acids and esters of alkylated p-hydroxyphenylalkanes. 3,742,096, 6-26-73, Cl. 260-953.000.
Spivack, John Denon, to Ciba-Geigy Corporation. Phosphine oxide and phosphonyl dichlorides of alkylated p-hydroxyphenylalkanes. 3,746,758, 7-17-73, Cl. 260-543.00p.
Spivak, Boris Volkovich: *See—*
Konovalov, Boris Leonidovich; Spivak, Boris Volkovich; Ugrjumov, Leonid Vasilievich; Chigirinsky, Alexandr Abramovich; Glider, Evgeny Khaimovich; Gradov, Oleg Borisovich; and Karpman, David Bentsionovich, 3,753,015.
Zorev, Nikolai Nikolaevich; Chernykh, Viktor Vasilievich; Stanislavsky, Lazar Yankelevich; Timofeev, Mikhail Mikhailovich; Kudryavtsev, Ivan Vasilievich; Isaev, Alexei Ilich; Grinchenko, Nikolai Grigorievich; Spivak, Boris Volkovich; Belov, Vladimir Alexanrovich; Kozik, Adolf Efimovich; Shavrin, Adolf Ivanovich; and Sobolev, Jury Vasilievich, 3,780,428.
Spivak, David. Sandglass. 3,707,842, 1-2-73, Cl. 58-144.000.
Spivey, Gordon L.: *See—*
Swisher, George W., Jr.; Smith, Don W.; and Spivey, Gordon L., 3,735,818.
Spivey, Joseph W., to Mercy-Lift, Inc., mesne. Invalid lift apparatus. 3,750,199, 8-7-73, Cl. 5-63.000.
Splain, Walter E.: *See—*
Lombardo, Daniel F.; and Splain, Walter E., 3,746,862.
Splatt, Kenneth W.: *See—*
Penner, Bruce W.; and Splatt, Kenneth W., 3,711,117.
Splettstoeszer, Wallace G.: *See—*
Thyberg, Paul D.; and Splettstoeszer, Wallace G., 3,724,402.
Splingaerd, John Peter. Safety switch with hinge type interlocking mechanism for operating switch contacts or preventing actuation thereof. 3,781,495, 12-25-73, Cl. 200-50.00a.
Splinter, Simon, to N.V. Industrieele Handelscombinatie Holland. Locking device. 3,762,235, 10-2-73, Cl. 74-422.000.
SPO Incorporated: *See—*
Young, Lester C., 3,726,335.
Spoel, Han, to Alcan Research and Development Limited. Recovery of metal from glass cloth filters and the like. 3,752,662, 8-14-73, Cl. 75-10.00r.
Spoelder, Johan: *See—*
Christiansen, Paal; and Spoelder, Johan, 3,755,226.
Spoelder, Johannes; and Schonbachler, Max, to Dow Chemical Company, The. Curing agent for epoxy resins to impart excellent solvent resistance. 3,753,917, 8-21-73, Cl. 252-182.000.
Spoerke, Roger W., to Goodyear Tire & Rubber Company, The. Dehydrogenation of olefins. 3,751,510, 8-7-73, Cl. 260-680.00r.
Spoerl, Hans, 20% to Lee, Raymond, Organization, Inc., The. Live bait dispenser. 3,755,956, 9-4-73, Cl. 43-55.000.
Spofa, United Pharmaceutical Works: *See—*
Protiva, Miroslav; Pelz, Karel; and Metysova, Jirina, 3,725,409.
Semonsky, Miroslav; and Kucharczyk, Norbert, 3,732,231.
Semonsky, Miroslav; Zikan, Viktor; and Jelinek, Vaclav, 3,754,023.
Spofford, Walter Richardson, Jr.: *See—*
Donald, Raymond George; Spofford, Walter Richardson, Jr.; and Pomerantz, Daniel Ira, 3,742,259.
Spohn, Eberhard. Process for the treatment of decomposable raw material. 3,764,290, 10-9-73, Cl. 71-9.000.
Spohr, Albert R.: *See—*
Waters, Robert S.; and Spohr, Albert R., 3,714,411.
Waters, Robert S.; and Spohr, Albert R., 3,720,851.
Spohr, Rolf: *See—*
Hunicke, Wolfgang; Spohr, Rolf; Schranz, Karl-Wilhelm; Busch, Josef; Schon, Erwin; and Frick, Hans-Dieter, 3,714,883.
Spolair Engineering Systems AG: *See—*
Tailor, Framodkumar Chhaganlal, 3,777,806.
Spomer, Roland J.: *See—*
Pugh, Donald W.; Spomer, Roland J.; Wolfenberger, Charles J.; Palmer, William H.; and Horney, Robert W., 3,756,996.
Sponcel Limited: *See—*
Jones, David Thomas; Jowett, George Edward; and Webster, Edward Ernest, 3,729,537.
Spong, Fred William: *See—*
Gorog, Istvan; and Spong, Fred William, 3,740,111.
Spongberg, Gillis. Trolling device. 3,760,762, 9-25-73, Cl. 114-235.00r.
Sponseller, Harold P., to Owens-Illinois, Inc. Elastic melt extruder and method of operation. 3,756,573, 9-4-73, Cl. 259-192.000.
Spontelli, Leonard P., to Crawford Fitting Company. Ferrule setter with indicating means. 3,722,064, 3-27-73, Cl. 29-237.000.
Spontelli, Leonard P., to Crawford Fitting Company. Apparatus for swaging and testing ferrules. 3,728,771, 4-24-73, Cl. 29-237.000.
Spooner, Frederick Ernest, to Brentford Electric Limited. Electrical filters. 3,761,797, 9-25-73, Cl. 321-10.000.
Spooner, Roy Cowieson: *See—*
Cooke, William Ernest; Cote, Jacques Francois; Innes, Robert Arthur; Spooner, Roy Cowieson; and Kellermann, Walter Maria Eduard, 3,718,547.
Spoor, Herbert; and Demmler, Kurt, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. System hardenable by ionizing radiation. 3,770,491, 11-6-73, Cl. 117-93.310.
Spoor, Herbert; and Demmler, Kurt, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of coatings by curing with ionizing radiation. 3,773,547, 11-20-73, Cl. 117-93.310.
Spoor, Paul A.: *See—*
Ashley, Eugene; Jarvis, Francis L.; Clark, Burton P.; Kontis, George E.; and Spoor, Paul A., 3,733,960.
Ashley, Eugene; Jarvis, Francis L.; Clark, Burton P.; Kontis, George E.; and Spoor, Paul A., 3,776,416.
Spoormaker, Hendrik J., to Anlihema (Proprietary) Limited. Air conditioning terminal units. 3,732,799, 5-15-73, Cl. 98-38.000.
Sporck, Claus L., to Hitco. High speed tube mill. 3,753,370, 8-21-73, Cl. 72-214.000.
Sporer, Michael, to Honeywell Information Systems, Inc. Memory bank addressing. 3,737,860, 6-5-73, Cl. 340-172.500.
Sporer, Michael, to Honeywell Information Systems, Inc. Memory control system adaptive to different access and cycle times. 3,753,232, 8-14-73, Cl. 340-172.00s.
Sporlan Valve Company: *See—*
Leimbach, John George, 3,742,722.
Spors, James A., to Briggs & Stratton Corporation. Electrical terminal connector. 3,739,323, 6-12-73, Cl. 339-275.000.
Spors, James A., to Briggs & Stratton Corporation. Brusher holder for dynamoelectric machine. 3,745,393, 7-10-73, Cl. 310-239.000.
Sposato, Frank J.: *See—*
Basse, Philip; and Sposato, Frank J., 3,710,274.
Nardin, Roy; and Sposato, Frank J., 3,753,142.
Spot-O-Gold Corporation: *See—*
Siedman, Jack, 3,773,328.
Spotholz, Clifford H.: *See—*
Fioriti, Joseph A.; Stahl, Howard D.; Sims, Rex J.; and Spotholz, Clifford H., 3,717,474.
Makwinski, John A.; Rehman, Warren C.; and Spotholz, Clifford H., 3,770,457.
Spotnails, Inc.: *See—*
Keck, Robert H.; Diehl, Werner K.; Kovich, Robert P.; and Goode, James K., Jr., 3,756,391.
Spotnils, Inc.: *See—*
Perkins, Garry R.; and Mitschelen, Laurel I., 3,771,710.
Spoto, Victor T. Combination vial and test tube rack. 3,744,665, 7-10-73, Cl. 220-21.000.
Spotts, J. Willard, to McGraw-Edison Company. Camp stove. 3,714,938, 2-6-73, Cl. 126-38.000.
Spotts, J. Willard, to McGraw-Edison Company. Portable convertible mantle-lantern, camp stove. 3,773,458, 11-20-73, Cl. 431-156.000.
S.P.Q.R. Engineering Limited: *See—*
Sturges, Frederick William, 3,717,053.
Spra-Con Company, The: *See—*
Harrison, John, 3,776,344.
Spracklen, Stanford B.: *See—*
Ruegg, Frank A.; Spracklen, Stanford B.; and Cheatham, Burton L., II, 3,757,771.
Spradley, Lewis Harold: *See—*
Behane, David; Spradley, Lewis Harold; Cahill, Lysle D.; and Marshall, William W., 3,723,646.
Spradlin, Erdman O. Apparatus for recording and processing credit transaction data. 3,762,316, 10-2-73, Cl. 101-45.000.
Spradlin, Louis W., to General Electric Company. Computer controlled rolling mill. 3,713,313, 1-30-73, Cl. 72-8.000.
Spragg, Robert Claude; and Whitehouse, David John, to Rank Organisation Limited, The. Method of measurement and apparatus therefor. 3,720,818, 3-13-73, Cl. 235-151.320.
Spraggins, Robert L., to Alza Corporation. Method for inhibiting blood platelet aggregation. 3,755,565, 8-28-73, Cl. 424-101.000.
Spraggins, Thomas C. Fishing reel. 3,711,036, 1-16-73, Cl. 242-84.10r.
Sprague Electric Company: *See—*



Alwitt, Robert S., 3,733,291.
Alwitt, Robert S., 3,779,877.
Spreitzhofer, Ernst, to Bodenseewerk Perkin-Elmer & Co., GmbH. Multi-range signal intergrator with changes range only at specific



Sproule, Robert Stanley, to Dominion Engineering Works, Limited. Hydraulic machine, crown operation. 3,724,966, 4-3-73, Cl. 415-
Leonard, James H., 3,723,940.

Alwitt, Robert S., 3,733,291.
Alwitt, Robert S., 3,779,877.
Fabricius, John H.; and Maher, John P., 3,760,321.
Heron, John B., 3,710,210.
Herzig, Robert W., 3,710,225.
Herzig, Robert W.; Clemont, Warren J.; and Zauds, Juris, 3,755,728.
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Reynolds, John H., 3,755,026.
Ross, Sidney D.; and Finkelstein, Manuel, 3,740,625.
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Sears, Noel C.; and Remillard, Roland G., 3,716,135.
Shirn, George A.; Miller, Norman Carlile; and Patterson, William L., 3,751,723.
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Stross, Hans A., 3,747,045.
Vail, Atlee G., 3,714,528.
Walters, Gordon E., 3,750,973.

Sprague, Frederick L., to Rockwell International Corporation. Weft control mechanism for shuttleless looms. 3,780,775, 12-25-73, Cl. 139-122.000.

Sprague, James M.: *See*—
Ziegler, Carl; and Sprague, James M., 3,709,917.
Ziegler, Carl; and Sprague, James M., 3,729,508.

Sprague, James M.; and Ziegler, Carl, to Merck & Co., Inc. Sulfonylphenoxyalkanoic acids. 3,720,709, 3-13-73, Cl. 260-519.000.

Sprague, James W.; and Valus, Ronald J., to Standard Oil Company, The. Process for producing benzyl ketones. 3,773,837, 11-20-73, Cl. 260-590.000.

Sprague, Lindol H.: *See*—
Wilson, Fred A.; and Sprague, Lindol H., 3,722,549.

Sprague, Richard L.; and Dennis, David S., to General Motors Corporation. Electronic shift control for a transmission. 3,719,096, 3-6-73, Cl. 74-752.00d.

Sprague, Robert A.: *See*—
Ruckle, Duane L.; and Sprague, Robert A., 3,713,207.
Ruckle, Duane L.; Sprague, Robert A.; and Smith, Michael P., 3,748,194.

Sprague, Robert E., to Thornton, F. C., Co., The. Welding and cutting apparatus. 3,746,238, 7-17-73, Cl. 228-9.000.

Sprague, Robert H.: *See*—
Keller, Juergen H. H.; and Sprague, Robert H., 3,764,319.

Sprague, Robert H., to Itek Corporation. Free-radical dye-transfer photographic process. 3,764,320, 10-9-73, Cl. 96-29.00d.

Sprague, Robert W.: *See*—
Cromwell, Thomas M.; and Sprague, Robert W., 3,749,792.

Sprague, Theodore S., to Babcock & Wilcox Company, The. Once-through vapor generator. 3,724,532, 4-3-73, Cl. 165-1.000.

Sprague, Theodore S.; Schlicting, John; and McDonald, Bertrand N., to Babcock & Wilcox Company, The. Vapor generator control. 3,771,497, 11-13-73, Cl. 122-32.000.

Spraker, Dick; and Baker, Paul E., to Envir-O-Tab, Inc. Retainable tear-away tab for container. 3,768,693, 10-30-73, Cl. 220-54.000.

Sprando, Anthony E.: *See*—
Holland, Kenneth C.; and Sprando, Anthony E., 3,719,788.

Sprankle, Roger S. Electrical power generating system. 3,751,673, 8-7-73, Cl. 290-52.000.

Spransy, Brower C.: *See*—
Spransy, John H.; and Spransy, Brower C., 3,747,928.

Spransy, Brower C.; and Spransy, George Brower. Amusement and exercise device. 3,758,984, 9-18-73, Cl. 46-220.000.

Spransy, George Brower: *See*—
Spransy, Brower C.; and Spransy, George Brower, 3,758,984.

Spransy, John H.; and Spransy, Brower C. Elastically tethered ball and target rings. 3,747,928, 7-24-73, Cl. 273-98.000.

Spratt, Brendan J.: *See*—
Shear, Wayne G.; Spratt, Brendan J.; and McClure, Benton J., 3,781,803.

Spraying Systems Co.: *See*—
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Spreadbury, Robert J.; and Malarkey, Terence D., to Westinghouse Electric Corporation. High integrity alternating current power supplies. 3,745,365, 7-10-73, Cl. 307-64.000.

Sprecher & Schuh AG: *See*—
Amsler, Joachim, 3,773,993.
Morva, Tibor, 3,715,532.
Stephanides, Viktor Herbert, 3,732,385.

Sprecher, Nathan; and Cotter, John Thomas, to Esso Research and Engineering Company. Isomerization-fractionation process. 3,758,604, 9-11-73, Cl. 260-677.00a.

Spreckels, Charles C.: *See*—
Carpenter, John J.; and Spreckels, Charles C., 3,754,153.

Sprecker, Donald H. Pack and fastener. 3,734,365, 5-22-73, Cl. 224-8.00r.

Spreitzhofer, Ernst: *See*—
Gut, Jurgen; and Spreitzhofer, Ernst, 3,754,232.

Spreitzhofer, Ernst, to Bodenseewerk Perkin-Elmer & Co., GmbH. Peak integrator. 3,742,202, 6-26-73, Cl. 235-183.000.

Spreitzhofer, Ernst, to Bodenseewerk Perkin-Elmer & Co., GmbH. Multi-range signal intergrator with changes range only at specific times. 3,774,018, 11-20-73, Cl. 235-183.000.

Spremulli, Paul F.: *See*—
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Sprenger, Gerhard E.: *See*—
Caplick, Daniel J.; Marra, Frank; and Sprenger, Gerhard E., 3,759,809.
Nass, Gerald I.; and Sprenger, Gerhard E., 3,763,224.

Sprenger, Herbert Alfred. Method for making a bridoon. 3,745,743, 7-17-73, Cl. 54-8.000.

Sprenger, Manfred: *See*—
Lang, Willi; and Sprenger, Manfred, 3,724,358.

Sprick, Walter F.; and Meller, Oscar W., to Goodyear Aerospace Corporation. Container door latch. 3,752,520, 8-14-73, Cl. 292-148.000.

Spridco, Jack P., to Koehring Company. Hydrostatic transmission. 3,775,980, 12-4-73, Cl. 60-462.000.

Spriet, Roger Alois: *See*—
Thiers, Robrecht Julius; Willems, Jozef Frans; and Spriet, Roger Alois, 3,716,361.

Spriggs, Frank A., to Pneumo Dynamics Corporation. Rotary cutting tool. 3,733,665, 5-22-73, Cl. 29-105.00r.

Spriggs, Robert G., to Automated Optics, Inc. Method and means for monitoring lens machining. 3,738,204, 6-12-73, Cl. 82-1.00c.

Sprigings, Howard Charles: *See*—
McIntyre, Robert John; and Sprigings, Howard Charles, 3,714,491.

Sprincl, Ladislav: *See*—
Lim, Draholav; Sprincl, Ladislav; and Kopecek, Jindrich, 3,774,615.

Spring Associates, Inc.: *See*—
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Spring, William L. Key-operated coin-controlled bicycle rack. 3,762,569, 10-2-73, Cl. 211-5.000.

Springer, Alois H.: *See*—
Hooper, Gilman S.; and Springer, Alois H., 3,723,055.

Springer Company, Inc.: *See*—
Gramig, Harry A., 3,731,718.

Springer, Earl W. Altitude alerting system. 3,713,340, 1-30-73, Cl. 73-384.000.

Springer, Gilbert D., to United Medical Laboratories, Inc. Image transfer printing method. 3,740,265, 6-19-73, Cl. 117-235.000.

Springer, Hans-Werner, to Behrens, Joh. Friedrich. Joint fastener package. 3,726,397, 4-10-73, Cl. 206-56.0df.

Springer, Hartmut: *See*—
Meininger, Fritz; and Springer, Hartmut, 3,781,310.

Springer, Reinhard; Drescher, Kurt; and Jahn, Eberhard, to Arbeitsstelle fur Molekularelektronik. Method and electronic circuit arrangement for producing photomasks. 3,716,296, 2-13-73, Cl. 355-53.000.

Springman, Arthur, to Doering, A. L., Mfg. Corporation. Folding stool. 3,709,167, 1-9-73, Cl. 108-128.000.

Springs Mills, Inc.: *See*—
Flowers, Thad T.; and Stuart, William I., 3,722,772.
Flowers, Thad T.; and Stuart, William I., 3,731,479.
Lee, Roy Leon; and Aldrop, Lanneau Frazier, 3,722,956.
Walker, Odie Edward, Jr., 3,718,163.

Sprinkle, James K.; and Misitano, Santi F. Hot topping. 3,769,046, 10-30-73, Cl. 106-38.220.

Sprinter Pack AB: *See*—
Nilsson, Jan Ingemar, 3,763,823.
Persson, Karl Rune, 3,738,564.
Wingardh, Uno, 3,717,274.

Sprinter System of America, Ltd.: *See*—
Person, Rune, 3,743,169.

Sprinzak, Yair, to Yeda Research and Development Co., Ltd. Esters of α-hydroperoxy-bis-p-halo-phenylacetic acids. 3,773,811, 11-20-73, Cl. 260-469.000.

Sprocket Properties Limited: *See*—
Hibbert, Sydney George, 3,745,940.

Sproul, David Douglas, to Chicago Bridge & Iron Company. Jacket cooled header air distribution system for fluidized bed reactor. 3,752,224, 8-14-73, Cl. 165-47.000.

Sproul, Fred C., Sr. Football sighting and measuring device. 3,738,014, 6-12-73, Cl. 33-289.000.

Sproul, Fred C., Sr. Traffic signal with directional indicator. 3,740,716, 6-19-73, Cl. 340-107.00r.

Sproul, Fred C., Sr. Combination valance and conditioned air admission duct. 3,779,150, 12-18-73, Cl. 98-40.00d.

Sproul, Merrill F.: *See*—
Robinson, Charles C.; Graf, Robert E.; Young, Robert W.; and Sproul, Merrill F., 3,711,264.

Sproule, C. G., and Associates, Inc.: *See*—
Sproule, Charles G., Jr.; and Wagner, Herbert F., Jr., 3,740,240.

Sproule, Charles G., Jr.; and Wagner, Herbert F., Jr., to Sproule, C. G., and Associates, Inc. Ingot mold hot top heat insulation board and method of preparing same. 3,740,240, 6-19-73, Cl. 106-38.250.





Sproule, Robert Stanley, to Dominion Engineering Works, Limited. Hydraulic machine crown aeration. 3,724,966, 4-3-73, Cl. 415-1.000.

Sproule, Robert Stanley, to Dominion Engineering Works, Limited. Seal manufacturing and assembly. 3,743,435, 7-3-73, Cl. 415-163.000.

Sproull, Reavis C.: *See*—
Kusterer, James E., Jr.; and Sproull, Reavis C., 3,771,958.

Sprowls, Christopher R. Method and apparatus for teaching. 3,774,319, 11-27-73, Cl. 35-37.000.

Spruce, Brian: *See*—
Coast, Geoffrey; Prince, Kenneth; Spruce, Brian; and Morgan, Vernon, 3,713,972.

Spruiell, Walter L. Elastomer seal with a plurality of annular ribs for a rotating shaft of a centrifugal pump or the like. 3,731,940, 5-8-73, Cl. 277-12.000.

Sprunck, Emile: *See*—
Leroy, Pierre; Gombert, Marcel; Queuleu, Metz; and Sprunck, Emile, 3,779,534.

Sprung, Douglas L., to International Portable Pipe Mills Ltd. Milling machine. 3,762,273, 10-2-73, Cl. 90-15.000.

Sprung, Douglas L., to International Portable Pipe Mills Ltd. Portable pipe mill. 3,762,624, 10-2-73, Cl. 228-15.000.

Sprung, Hartwig: *See*—
Becker, Klaus; and Sprung, Hartwig, 3,760,737.

Sprung, Philip D., Jr. Demountable building. 3,780,477, 12-25-73, Cl. 52-86.000.

Spry, Douglas O.: *See*—
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Spry, Douglas O.; and Wright, Ian G., to Lilly, Eli, and Company. Process for acetylation. 3,715,347, 2-6-73, Cl. 260-239.100.

Spuhl AG: *See*—
Spuhl, Walter, 3,722,056.

Spuhl, Walter, to Spuhl AG. Knot setting device in a feed mechanism for helicoidal wire springs. 3,722,056, 3-27-73, Cl. 29-200.00a.

Spurgeon, Richard C. Texturing yarns by false twisting. 3,777,469, 12-11-73, Cl. 57-140.00r.

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Stache, Ulrich; Fritsch, Werner; Haede, Werner; and Radscheit, Kurt, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of pregnane-20-one-3 beta-, beta-14 beta, 21-tetrol. 3,732,210, 5-8-73, Cl. 260-239.5r.

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Stachel, Adolf; deceased (by Stachel, Ingeburg Lydia Katharina; heiress); Beyerle, Rudi; Nitz, Rolf-Eberhard; Resag, Klaus; and Schraven, Eckhard. 3-(Alpha-substituted amino-beta-alkoxybenzoxy-propyl)-6,7- or 6,7,8-alkoxy-1,2,3- benzotriazine-4(3H)-ones. 3751,413, 8-7-73, Cl. 260-248.0as.

Stachel, Adolf; deceased (by Stachel, Ingeburg Lydia Katharina; heiress-at-law); Beyerle, Rudi; Nitz, Rolf-Eberhard; Resag, Klaus; and Schraven, Eckhard, said Beyerle, said Nitz, said Schraven assors. to Cassella Farbwerke Mainkur Aktiengesellschaft. 3-(Alha-substituted amino-beta-alkoxybenzoxypropyl)-6,7- or 6,7,8-alkoxy-1,2,3-benzotriazine-4(3H)-ones. 3,757,019, 9-4-73, Cl. 260-248.0as.

Stachel, Adolf; deceased (by Stachel, Ingeburg Lydia Katharina; widow); Beyerle, Rudi; Nitz, Rolf-Eberhard; Resag, Klaus; and Schraven, Eckhard, said Beyerle, Nitz and Schraven assors. to Cassella Farbwerke Mainkur Aktiengesellschaft. 3-Gamma-substituted aino-beta-alkoxybenzoxy-propyl) -6,7,8-alkoxy-1,2,3-benzotriazine-4(3H)-ones. 3,759,907, 9-18-73, Cl. 260-248.0as.

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Stade, Kurt H., to Union Carbide Corporation. Kneading elements for extruders. 3,729,178, 4-24-73, Cl. 259-192.000.

Stadelmann, Joachim P., to Chrysler Corporation. Switch responsive to brake pedal movement. 3,766,342, 10-16-73, Cl. 200-61.890.

Stader, Richard O. Walking device. 3,780,728, 12-25-73, Cl. 128-83.500.

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Stadler, Hubert; and Spanyar, Horst, to Vereinigte Metallwerke Ranshofen-Berndorf Aktiengesellschaft. Joint for endless belts. 3,728,066, 4-17-73, Cl. 425-471.000.

Stadler, Karl, to Patent-Treuhand-Gesellschaft fur Elektrische Gluhlampen m.b.H. Quartz glass pinch seal of increased compressive strength. 3,780,335, 12-18-73, Cl. 313-318.000.

Stadler, Paul; and Hofmann, Albert, to Sandoz Ltd.; a/k/a Sandoz AG. Process for preparing ergot alkaloids. 3,755,328, 8-28-73, Cl. 260-268.0pe.

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Stagnitto, Frank Vincent. Non-reclosable closure. 3,735,889, 5-29-73, Cl. 215-41.000.

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Staheli, Paul, to Rieter Machine Works, Ltd. Method and apparatus for detecting weight variations of a sliver on spinning preparatory machines. 3,722,260, 3-27-73, Cl. 73-37.700.

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Stahl, Roland E., to Du Pont de Nemours, E. I., and Company. Tufted carpet. 3,770,558, 11-6-73, Cl. 161-65.000.

Stahl, Roland Edgar, to Du Pont de Nemours, E. I., and Company. Dispersion for water-repellent coatings. 3,756,973, 9-4-73, Cl. 260-28.50r.

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Stahle, Helmut; Koppe, Herbert; Kummer, Werner; and Santleben, Hans-Wolfgang, to Boehringer Ingelheim G.m.b.H. Substituted N-aminoalkyl-arylamino-imidazolines-(2). 3,752,810, 8-14-73, Cl. 260-247.50r.
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Stahmer, Bernhardt. Pleated extensible carriage for conveying flowable energy therealong. 3,721,260, 3-20-73, Cl. 137-355.160.
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Stander, Cornelius Marthinus; and Hughes, David Owen, to African Explosives and Chemical Industries Limited. Catalysts. 3,737,491, 6-5-73, Cl. 264-43.000.

Stander, Cornelius Marthinus; and Hughes, David Owen, to African Explosives and Chemical Industries Limited. Method of preparing a porous catalyst-containing alkaline earth metal aluminate or titanate body. 3,737,492, 6-5-73, Cl. 264-43.000.

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Stander, Jurgen, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Circuit arrangement for attenuating a broadband background noise level and interfering signals superimposed thereupon. 3,737,799, 6-5-73, Cl. 330-126.000.

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Stanek, Milan; and Mostecky, Jiri, to Valcovny Plechie, Narodni podnik. Descaling method and composition of alkali metal hydroxide. 3,721,626, 3-20-73, Cl. 252-81.000.

Stanfield, Trevelyan A., to Becton, Dickinson and Company. Fractional-fill pipette assembly. 3,741,732, 6-26-73, Cl. 73-425.40p.

Stanfill, Gary L., to Midway Fishing Tool Company. Refuse container handling device. 3,750,810, 8-7-73, Cl. 214-314.000.

Stanford, Charles O., to Fedders Corporation. Pressure compensating door catch assembly. 3,780,904, 12-25-73, Cl. 220-55.300.

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Stanford, James R.; and Vogelsang, Paul G., Jr., to Nalco Chemical Company. Phosphated mixed esters of oxyalkylated polyols and monohydric surface active compounds. 3,728,420, 4-17-73, Cl. 260-950.000.

Stanford, James R.; and Watson, James D., to Nalco Chemical Company. Removal of orthophosphates from organic phosphate esters. 3,739,046, 6-12-73, Cl. 260-990.000.

Stanford, James R.; and Vogelsang, Paul G., Jr., to Nalco Chemical Company. Removal of orthophosphoric acid from organic phosphate esters. 3,739,047, 6-12-73, Cl. 260-990.000.

Stanford, James R.; and Vogelsang, Paul G., Jr., to Nalco Chemical Company. Phosphate esters of oxypropylated amines. 3,755,503, 8-28-73, Cl. 260-929.000.

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Stange, Karl; Jenne, Helmut; and Koenig, Ulrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Laminates of styrene polymers and polyphenylene oxide. 3,781,186, 12-25-73, Cl. 161-253.000.

Stange, Klaus K., to Honeywell Information Systems Inc., mesne. Pneumatic accessing of tape bands. 3,723,981, 3-27-73, Cl. 340-174.10c.

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Stankewich, Michael Joseph, Jr., to Union Carbide Corporation. Nitrification of BOD-containing water. 3,764,523, 10-9-73, Cl. 210-5.000.

Stanley, Alexander J., to Nabisco, Inc. Tape applying apparatus. 3,728,199, 4-17-73, Cl. 156-554.000.

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Stanley, Lester N.; and Farris, Russell E., Jr., to GAF Corporation. Azo dyestuffs containing as the terminal coupling component a pyrrolidonoaniline. 3,776,898, 12-4-73, Cl. 260-156.000.
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Stanley, Thomas R.; and Mascia, Carmen T., to Continental Can Company, Inc. Dispensing valve assembly for pressurized container. 3,759,427, 9-18-73, Cl. 222-402.200.
Stanley, Vayden F., to Vicra Sterile, Inc. Digit manipulable quick release cannula insertion device. 3,714,945, 2-6-73, Cl. 128-214.400.
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Stanton, Stephen; Varholy, Edward; and Verwey, William, to Precision Industries, Inc., mesne. Electronically controlled stitching machine. 3,747,827, 7-24-73, Cl. 227-100.000.
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Stapfer, Christian H.; and D'Andrea, Richard W., to Carlisle Chemical Works, Inc. Cobalt II halide hydrazine complexes. 3,715,328, 2-6-73, Cl. 260-22.0ca.
Stapfer, Christian H.; and D'Andrea, Richard W., to Cincinnati Milacron Chemicals Inc. Cobalt II halide hydrazine complexes. 3,728,087, 4-17-73, Cl. 423-413.000.
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Stapleford, Gary N.; and Tellier, Robert E., to Sanders Associates, Inc. Magnetic drum storage apparatus. 3,768,082, 10-23-73, Cl. 340-174.10c.
Stapleford, Stuart H., to Owens-Corning Fiberglas Corporation. Roof structure. 3,712,832, 1-23-73, Cl. 156-321.000.
Stapler, W. Mead. Turbine-type flow responsive device. 3,771,363, 11-13-73, Cl. 73-231.00r.





Staples, Crawford E., to Westinghouse Air Brake Company. Jointless coded alternating current track circuits. 3,781,540, 12-25-73, Cl. 246-34.0ct.
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Stapleton, Peter L.; and Le Vesconte, Ivor J. R., to USM Corporation. Apparatus for temporarily attaching insoles. 3,772,721, 11-20-73, Cl. 12-1.00r.
Stapleton, Robert E.; Weinbrecht, John F.; Ferdinand, Edward O.; and Hayden, James J., to United States of America, Atomic Energy Commission. Filament support structure for large electron guns. 3,745,401, 7-10-73, Cl. 313-272.000.
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Stapley, Derek E., to Sundstrand Corporation. Bearing pack. 3,758,176, 9-11-73, Cl. 308-6.00c.
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Stapp, Paul R., to Phillips Petroleum Company. Catalytic alkylation of aromatic compounds. 3,714,280, 1-30-73, Cl. 260-668.00c.
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Starp, Franz W. R., to Prontor-Werk Alfred Gauthier G.m.b.H. Automatic shutter controlling device particularly for photographic and moving picture apparatus. 3,709,137, 1-9-73, Cl. 95-64.00d.

Starr, Anthony J.; Shindel, Gustave A.; and Keith, Harry G., Jr., to Container Corporation of America. Rotational moulding machine with inner and outer mold edges rotating about intersecting axes. 3,778,215, 12-11-73, Cl. 425-435.000.

Starr, Anthony J., to Container Corporation of America. Package structure. 3,780,930, 12-25-73, Cl. 229-14.0be.

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Starr, Carrol Dean; Steinitz, Robert; and Wang, Teh Po, to Driver, Wilbur B., Company. Electrical resistance alloys. 3,749,569, 7-31-73, Cl. 75-170.000.

Starr, Carrol Dean; and Wang, Teh Po, to Driver, Wilbur B., Company. Thermocouple with nickel-silicon-magnesium alloy negative element. 3,776,781, 12-4-73, Cl. 136-239.000.

Starr, Eugene W., to PPG Industries, Inc. High temperature apparatus for conditioning glass. 3,771,988, 11-13-73, Cl. 65-337.000.

Starr, John H. Shock absorbing safety line. 3,762,507, 10-2-73, Cl. 188-65.100.

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Stauff, Emile; Maree, Michel; and Roze des Ordons, Jacques, to Societe Nationale Industrielle Aerospatiale. Safety device for locking a missile on its launcher or in its container in either the transport or the launching position. 3,721,155, 3-20-73, Cl. 8-1.807.

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Stegmaier, Wilhelm R., to Daimler-Benz Aktiengesellschaft. Instrument panel of a motor vehicle. 3,774,713, 11-27-73, Cl. 180-90.000.
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Stegmeier, William J. Swimming pool seal structure. 3,708,930, 1-9-73, Cl. 52-98.000.
Stegmeier, William J. Connector structure for mold forms and the like. 3,753,545, 8-21-73, Cl. 249-219.00r.
Stegmeier, William J. Form structure. 3,778,019, 12-11-73, Cl. 249-189.000.
Stegmuller, Charles D. Method and device for straightening beams. 3,722,562, 3-27-73, Cl. 144-309.000.
Stehle, Peter Fallon; Wu, Chan K.; Loshaek, Samuel; and Dickstein, Jack, to Borden Inc. Adhesive latexes of vinyl acetate/ethylene/N-methylolacrylamide terpolymers. 3,714,105, 1-30-73, Cl. 260-29.6wa.
Stehle, Peter Fallon; Dickstein, Jack; and Loshaek, Samuel, to Borden, Inc. Stable vinyl acetate N-methylolacrylamide latex with fully-hydrolyzed polyvinyl alcohol. 3,730,933, 5-1-73, Cl. 260-29.6wb.
Stehle, Randall G.; and Oesterling, Thomas O., to Upjohn Company, The. Stable composition for dispensing PGE. 3,749,800, 7-31-73, Cl. 424-318.000.
Stehlik, Richard C. Raised seat platform. 3,742,529, 7-3-73, Cl. 5-118.000.
Stehlin, Robert A.; and Spence, Hilton W., to Texas Instruments, Incorporated. Switched amplification system having radiation compensation circuitry. 3,716,727, 2-13-73, Cl. 307-243.000.
Stehlin, Robert A., to United States of America, Air Force. Radiation hardening read preamplifier. 3,743,955, 7-3-73, Cl. 330-22.000.
Stehlin, Robert A., to Texas Instruments, Incorporated. Triggered bistable multivibrator circuits utilizing complementary transistor pairs. 3,767,944, 10-23-73, Cl. 307-288.000.
Stehlin, Robert A.; Spence, Hilton W.; and Matzen, Walter T., to United States of America, Air Force. Differential method of photocurrent measurement. 3,781,680, 12-25-73, Cl. 324-123.00r.
Steibel, James P., 1/2 to Ashelford, Samuel J. Power feed for the table of a machine tool or the like. 3,718,071, 2-27-73, Cl. 90-21.500.
Steiber, Theodore E. Safe. 3,724,400, 4-3-73, Cl. 109-53.000.
Steidel, Charles Archibald: *See—*
Hensler, Donald Henry; Ross, Alexander Robert; Steidel, Charles Archibald; Trudel, Murray Lawrence; and Zuber, Theodore Wallace, Jr., 3,775,278.
Steidinger, Donald J., to Wallace Business Forms, Inc. Stuffed sealed envelope assembly and method. 3,777,971, 12-11-73, Cl. 229-68.00r.
Steidl, Dieter: *See—*
Muller, Fritz; Stendenbach, Karl-Heinz; Dany, Franz-Josef; Steidl, Dieter; Weizenkor, Horst Heinrich; and Forst, Willi, 3,731,882.
Steidle, Walter: *See—*
Goerlich, Bruno; Kubinyi, Hugo; and Steidle, Walter, 3,743,633.
Steigelman, Edward F.; and Hughes, Robert D., to Standard Oil Company. Method of separating aliphatically unsaturated hydrocarbons by contacting said hydrocarbons with a solid, water-insoluble, semi-permeable film membrane. 3,770,842, 11-6-73, Cl. 260-677.0a.
Steigelman, Herman A., to Owens-Illinois, Inc. Lubricious, label-accepting glass surface coating. 3,712,829, 1-23-73, Cl. 117-54.000.
Steigelmann, Edward F.: *See—*
Hughes, Robert D.; and Steigelmann, Edward F., 3,758,605.
Steigelmann, Edward F.; and Hughes, Robert D., to Standard Oil Company. Process for separation of unsaturated hydrocarbons. 3,758,603, 9-11-73, Cl. 260-677.00a.
Steigenberger, Hasso: *See—*
Jaskulke, Gerhard; Mayer, Max; Lampe, Bernst; Giebler, Fritz; and Steigenberger, Hasso, 3,717,723.
Steiger, Anton, to Sulzer Brothers Limited. Piston machine having radially disposed pistons. 3,744,380, 7-10-73, Cl. 92-61.000.
Steiger, Anton, to Sulzer Brothers Limited. Hydraulic piston machine having radially disposed pistons. 3,765,252, 10-16-73, Cl. 74-49.000.
Steiger, Edward L.: *See—*
Dietrich, Heinz J.; and Steiger, Edward L., 3,742,054.
Dietrich, Heinz J.; and Steiger, Edward L., 3,743,681.
Dietrich, Heinz J.; and Steiger, Edward L., 3,751,467.
Dietrich, Heinz J.; and Steiger, Edward L., 3,769,313.
Dietrich, Heinz J.; and Steiger, Edward L., 3,769,327.
Steiger, Edward L.; and Dietrich, Heinz J., to Owens-Illinois, Inc. Mesomorphic preparation. 3,742,053, 6-26-73, Cl. 260-566.00f.
Steiger, Edward L.; and Dietrich, Heinz J., to Owens-Illinois, Inc. Alkyl-stilbene liquid-crystal compounds. 3,742,067, 6-26-73, Cl. 260-613.00a.
Steiger, Edward L.; and Dietrich, Heinz J., to Owens-Illinois, Inc. N(p-n-alkoxycarbonyloxybenzylidene)-p'-n-butoxyaniline liquid-crystal compounds. 3,769,314, 10-30-73, Cl. 260-463.000.
Steiger, Klaus: *See—*
Gruniger, Fritz; Muller, Gunther; and Steiger, Klaus, 3,778,005.
Steigerwald, Conrad J., to Honeywell Information Systems, Inc. Wire-twisting apparatus. 3,750,720, 8-7-73, Cl. 140-149.000.
Steigerwald, Karl Heinz. Device, particularly a cigarette, for smoking a cord of smokable material. 3,774,622, 11-27-73, Cl. 131-9.000.
Steigerwald, Karl-Heinz. Method and device for friction welding. 3,732,613, 5-15-73, Cl. 29-470.300.
Steigerwald, Karl-Heinz, to Steigerwald Strahltechnik GmbH. Pressure lock system for a chamber. 3,756,435, 9-4-73, Cl. 214-17.00b.
Steigerwald, Robert L., to General Electric Company. Constant duty cycle control of induction cooking inverter. 3,781,505, 12-25-73, Cl. 219-10.490.
Steigerwald Strahltechnik GmbH: *See—*
Baumgartner, Siegfried; and Kindler, Hubert, 3,745,320.
Ruge, Jurgen; and Eggers, Heiner, 3,752,952.
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Sennewald, Kurt; Hauser, Alfred; Gehrmann, Klaus; Steil, Karl-Heinz; and Lork, Winfried, 3,717,675.
Steil, William W., to Production Stamping Corporation. Pulley-and shaft assembly for rotary lawn mowers and method of manufacturing the same. 3,727,475, 4-17-73, Cl. 74-230.300.
Steil, William W.; and Domin, Bryan E., to Production Stamping Corporation. Pulley and shaft assembly for rotary lawn mower. 3,762,230, 10-2-73, Cl. 74-230.300.
Steiman, Wolf: *See—*
Beres, Steven W.; and Steiman, Wolf, 3,744,678.
Steiman, Wolf; and Beres, Steven W., to VCA Corporation. Aerosol valve construction for dispensing two fluids. 3,767,086, 10-23-73, Cl. 222-136.000.
Steimel, Richard. Centrifuge. 3,765,600, 10-16-73, Cl. 233-20.00r.



Steimer, Robert G., to Mesta Machine Company. Work roll sensing and/or balancing arrangements. 3,733,875, 5-22-73, Cl. 72-237.000.
Stein, Alfred: *See—*
Baumer, Wilhelm; Schmitt, Dieter; and Stein, Alfred, 3,770,379.
Helger, Roland; Hartel, Arnold; Stein, Alfred; and Baumer, Wilhelm, 3,759,374.
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Wenz, Adolf; Stein, Alfred; and Schmitt, Dieter, 3,715,192.
Stein, Alfred H.: *See—*
Sulfaro, Andrew N.; and Stein, Alfred H., 3,715,308.
Stein, Arno; Owens, Alan R.; and Wright, William L., to Picker Electronics, Inc. Synchronized ultrasonic diagnostic for internal organ function testing. 3,744,479, 7-10-73, Cl. 128-2.00s.
Stein, Bernard: *See—*
Deschamps, Nicholas H.; Stein, Bernard; and Mayo, Kenneth E., 3,716,099.
Stein, Bert: *See—*
Jonas, Hans; and Stein, Bert, 3,749,900.
Stein, Brooks M.: *See—*
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Stein, Charles R.: *See—*
Antonson, Arvid L.; Bigelow, John E.; Stein, Charles R.; and Van Horn, James W., 3,737,212.
Stein, Charles R., to Instructional Industries, Inc., mesne. Response card and qualitative response analyzer and method. 3,735,505, 5-29-73, Cl. 35-48.000.
Stein, Ernest W.: *See—*
Kaufman, Harold B., Jr.; Stein, Ernest W.; and Schiffmann, Robert F., 3,754,464.
Stein, George: *See—*
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Stein, Herbert S.: *See—*
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Burckhardt, Manfred H.; Florus, Hans-Jorg; Grossner, Horst; Krohn, Hellmut; and Stein, Hermann, 3,779,331.
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Stein Industries: *See—*
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Pouderoux, Pierre, 3,732,922.
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Stein Industries, mesne: *See—*
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Stein, Ira S.: *See—*
Carreira, Leonard M.; Stein, Ira S.; and Tulagin, Vsevolod, 3,711,196.
Stein, Jay A.; and Swift, Roderick, to American Science & Engineering Inc. Radiant energy imaging with scanning pencil beam. 3,780,291, 12-18-73, Cl. 250-363.000.
Stein, John L.: *See—*
Martin, Daniel W.; and Stein, John L., 3,718,747.
Stein, Joseph L.: *See—*
Staut, Ronald; and Stein, Joseph L., 3,736,161.
Stein, Julian. Fish attracting means. 3,708,906, 1-9-73, Cl. 43-100.000.
Stein, Karl-Ulrich, to Siemens Aktiengesellschaft. Stack arrangement of semiconductor chips. 3,746,934, 7-17-73, Cl. 317-101.0cm.
Stein, Karl-Ulrich; and Sihling, Aarne, to Siemens Aktiengesellschaft. Semiconductor memory having single transistor storage elements and a flip-flop circuit for the evaluation and regeneration of information. 3,774,176, 11-20-73, Cl. 340-173.00r.
Stein, Lawrence, to United States of America, Atomic Energy Commission. Atmosphere purification of radon and radon daughter element. 3,778,499, 12-11-73, Cl. 423-210.000.
Stein, Leon J. Fish line restrainer. 3,771,741, 11-13-73, Cl. 242-84.20g.
Stein, Leonard, to General Electric Company. Method of providing polycrystalline silicon regions in monolithic integrated circuits. 3,730,765, 5-1-73, Cl. 117-212.000.
Stein, Maria: *See—*
Luthman, Paul A.; Stein, Maria; and Fischer, Thomas R., 3,713,661.
Stein, Michel Guy Pierre, to Telecommunications Radioelectriques et Telephoniques T.R.T. Receiver for data signals, including an automatic line correction circuit. 3,778,722, 12-11-73, Cl. 325-414.000.
Stein, Nathan; and Jones, Lloyd G., to Mobil Oil Corporation. Well completion in friable sands. 3,756,318, 9-4-73, Cl. 166-278.000.
Stein, Phillip C.: *See—*
Andrews, Harry N.; Frisch, Erling; Singleton, Norman R.; and Stein, Phillip C., 3,720,222.
Stein, Reinhardt P.: *See—*
Husbands, George E. M.; and Stein, Reinhardt P., 3,734,935.
Stein, Reinhardt P., to American Home Products Corporation. Biologically active 17 alpha-ethynyl-16, 17-dihydroxy-13-alkylgon-4-en-3-ones. 3,763,149, 10-2-73, Cl. 260-239.550.
Stein, Reinhardt P., to American Home Products Corporation. Biologically active 17 alpha-ethynyl-16,17-dihydroxy -13-alkylgona-1,3,5(10)-trienes. 3,763,194, 10-2-73, Cl. 260-397.500.
Stein, Reinhardt P.; Smith, Herchel; and Smith, Robert C., to American Home Products Corporation. 17-Acetylgonanes and process therefor. 3,775,443, 11-27-73, Cl. 260-397.400.
Stein, Robert George; and Nordeen, Carl William, to Abbott Laboratories. Method of preparing 2,3-dihydro-1H-pyrido[2,3-b][1,4]-thiazin-2-ones. 3,749,715, 7-31-73, Cl. 260-243.00r.
Stein, Sam, Associates, Inc.: *See—*
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Stein, Volkhard: *See—*
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Plapper, Jurgen; Stein, Werner; and Baumann, Horst, 3,765,833.
Umbach, Wilfried; Mehren, Rainer; and Stein, Werner, 3,755,463.
Stein, Werner; Plapper, Jurgen; and Willmund, Wolf-Dieter, to Henkel & Cie G.m.b.H. Fat-liquoring agents for leather and skins. 3,724,999, 4-3-73, Cl. 8-94.230.
Stein, William B., to Warner & Swasey Company, The. Cutoff tool. 3,758,927, 9-18-73, Cl. 29-96.000.
Stein, William B., to Warner & Swasey Company, The. Reversible blade-like cuttoff tool. 3,760,474, 9-25-73, Cl. 29-95.00r.
Stein, William H., to Anonda Plastics Inc. Rotatable pipe coupling. 3,762,684, 10-2-73, Cl. 251-148.000.
Stein, Wolfgang J.; Ainsworth, Richard; and Berkner, Horst D., to Avco Corporation. Gas turbine engine having a horizontal accessory gear box. 3,714,779, 2-6-73, Cl. 60-39.310.
Stein, Wolfgang J., to Avco Corporation. Gas turbine engine lubrication system. 3,722,212, 3-27-73, Cl. 60-39.080.
Stein, Wolfgang J.; and Melconian, Jerry O., to Avco Corporation. Variable geometry combustors. 3,738,106, 6-12-73, Cl. 60-39.230.
Stein, Wolfgang J., to Avco Corporation. Drive assembly with compensation for misalignment. 3,757,535, 9-11-73, Cl. 64-9.00r.
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Steinbeck, Hermann: *See—*
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Hofmeister, Helmut; Steinbeck, Hermann; and Wiechert, Rudolf, 3,729,494.
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Steinberg, Adalberto. Buckle. 3,737,957, 6-12-73, Cl. 24-188.000.
Steinberg, Adalberto Sussman. Buckle for shoes and the like. 3,777,337, 12-11-73, Cl. 24-191.000.
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Steinberg, David R.; and Sutton, William T., to Corning Glass Works. Means for securing planar member to cathode ray tube faceplate. 3,727,087, 4-10-73, Cl. 313-91.000.
Steinberg, David R.; and Sutton, William T., to Corning Glass Works. Stepped supports between glass plate display screen and cathode ray tube faceplate. 3,732,451, 5-8-73, Cl. 313-91.000.
Steinberg, David Ronald, to Corning Glass Works. Cathode ray storage tube having target with photochromic memory device. 3,737,700, 6-5-73, Cl. 313-65.00r.

Steinberg, George M.; Lieske, Claire N.; Ash, Arthur B.; and Blumbergs, Peter, to Ash Stevens, Inc. Use of certain methylphosphonate diester compounds as insecticides. 3,729,558, 4-24-73, Cl. 424-214.000.

Steinberg, Martin, to General Motors Corporation. Multichannel exhaust gas analyzer. 3,743,426, 7-3-73, Cl. 356-96.000.

Steinberg, Max; Elian, Arthur; Verrone, Louis; and Klingenberg, Roger, to Apex Photoletter Composing, Inc. Photo-compositor. 3,738,235, 6-12-73, Cl. 95-4.500.

Steinberg, Morris: *See*—
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Steinberg, Morris; and Libow, Mitchell, said Libow assor. to said Steinberg, Morris. Guillotine chopper arrangement. 3,776,079, 12-4-73, Cl. 83-225.000.

Steinberg, Norman Richard: *See*—
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Steinberger, Siegfried; Nagel, Erich; and Von Stein, Werner, to Agfa-Gevaert Aktiengesellschaft. Photographic copying apparatus with illumination correction. 3,768,903, 10-30-73, Cl. 355-38.000.

Steinbock, Fred C., to Kendall Company, The. Display tray. 3,756,385, 9-4-73, Cl. 206-44.00r.

Steinbrenner, Hans; Elorus, Hans-Jorg; and Grossner, Horst, to Daimler-Benz Aktiengesellschaft. Installation for the control of the brakes of a vehicle. 3,711,162, 1-16-73, Cl. 303-21.00r.

Steinbrink, Charles F., Jr.: *See*—
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Steindler, Umberto: *See*—
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Steinemann, Samuel, to Institut Dr. Ing. Reinhard Straumann A.G. Strainable members exposed to temperature variations and materials therefor. 3,735,971, 5-29-73, Cl. 267-182.000.

Steinemann, Samuel, to Institut Dr. Ing. Reinhard Straumann AG. Metallic sound conductor or sound radiator. 3,752,664, 8-14-73, Cl. 75-134.00n.

Steinemann, Samuel; and Peter, Martin, to Institut Dr. Ing. Reinhard Straumann A.G. Construction element having strongly negative temperature coefficients of elasticity moduli. 3,773,570, 11-20-73, Cl. 148-32.500.

Steinemann, Samuel G., to Institut Dr. Ing. Reinhard Straumann A.G. Tension band. 3,777,346, 12-11-73, Cl. 29-180.000.

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Steinen, Karl-Heinz; and Trohler, Paul. Storage apparatus. 3,746,188, 7-17-73, Cl. 214-16.1cc.

Steinen, Wm., Mfg. Co.: *See*—
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Steiner, Adolf; and Rinnergschwentner, Hans, to Daimler-Benz Aktiengesellschaft. Steering spindle for motor vehicles, especially for commercial-type vehicles. 3,757,885, 9-11-73, Cl. 180-89.00a.

Steiner American Corporation: *See*—
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Bahnsen, Erwin B., 3,728,001.
Bahnsen, Erwin B., 3,729,174.
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Bahnsen, Erwin B., 3,761,032.
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Steiner, Daniel; and Blochlinger, Ernst, to Schweezerische Industrie Gesellschaft. Vehicle with passenger seats. 3,759,567, 9-18-73, Cl. 296-63.000.

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Steiner, Hubert, to Steiner, H., Limited. Attachments for vehicles. 3,780,891, 12-25-73, Cl. 214-138.00c.

Steiner, Irving. Optical framing device for photographic cameras. 3,774,992, 11-27-73, Cl. 350-236.000.

Steiner, Louis Kent: *See*—
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Steiner, Peter: *See*—
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Steiner, Robert H., to Mobil Oil Corporation. Coating composition and plastic articles coated therewith. 3,753,769, 8-21-73, Cl. 117-122.00h.

Steiner, Rudolf. Electric switch. 3,743,980, 7-3-73, Cl. 335-205.000.

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Steiner, Walter. Can opener with magnetic cutting chip catcher. 3,766,647, 10-23-73, Cl. 30-9.000.

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Steingroever, Erich, to Elektro-Physick, Hans Nix & Dr.-Ing. E. Steingroever KG. Low saturation pole piece for a magnetic thickness gauge. 3,761,804, 9-25-73, Cl. 324-34.0tk.

Steinhagen, Carl A.: *See*—
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Steinhagen, Horst G., to Twin Disc, Incorporated. Torque limiting coupling. 3,722,644, 3-27-73, Cl. 192-56.00r.

Steinhagen, Horst G., to Irvin Disc, Incorporated. Torque limiting coupling. 3,774,738, 11-27-73, Cl. 192-56.00r.

Steinhards, Arnolds: *See*—
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Steinhardt, Frank J. Gear desurring device. 3,714,740, 2-6-73, Cl. 51-33.000.

Steinhardt, Hartley. Sectional picture frame. 3,721,030, 3-20-73, Cl. 40-155.000.

Steinhardt, Richard A., to University of California, The Regents of the. Ion-selective microelectrode. 3,743,591, 7-3-73, Cl. 204-195.001.

Steinhauer, Alfred F.: *See*—
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Steinicke, Darrell B.: *See*—
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Steiniger, Herman W., to Bauer Bros. Co., The. Pulp refining system and apparatus. 3,765,613, 10-16-73, Cl. 241-251.000.

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Steinke, Leo: *See*—
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Steinle, John T.; and Brooks, Carl H., to Heinz, H. J., Company. Apparatus and method for removing and storing paste-like material from containers. 3,749,264, 7-31-73, Cl. 214-302.000.





Steinmaier, Walter: *See*—
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Steinmaier, Walter, to U.S. Philips Corporation. Method of producing IGFET devices having outdiffused regions and the product thereof. 3,767,487, 10-23-73, Cl. 148-191.000.

Steinman, Abraham. Saw-table construction. 3,727,502, 4-17-73, Cl. 83-471.300.

Steinman, Bernard, to Mueller Steam Specialty; division of SOS Consolidated Inc. Valve and filter assembly. 3,735,874, 5-29-73, Cl. 210-430.000.

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Steinman, Martin, to Schering Corporation. 1-Polyfluoroalkyl benzodiazepines. 3,723,414, 3-27-73, Cl. 260-239.0bd.

Steinman, Martin, to Schering Corporation. Bicyclic benzhydrylidene derivatives. 3,760,007, 9-18-73, Cl. 260-619.00r.

Steinmann, Helmut; and Burger, Karl Heinz, to Bosch, Robert, G.m.b.H. Safety arrangement for powered vehicle windows, sunroofs and the like. 3,727,348, 4-17-73, Cl. 49-28.000.

Steinmann, Helmut, to Bosch, Robert, G.m.b.H. Speed control arrangement for DC motors. 3,748,559, 7-24-73, Cl. 318-341.000.

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Steinstrasser, Ralf, to Merck Patent Gesellschaft mit beschrankter Haftung. Substituted azoxy benzene compounds. 3,773,747, 11-20-73, Cl. 260-143.000.

Steinwand, Paul J., to Union Oil Company of California. Emulsion copolymerization. 3,759,859, 9-18-73, Cl. 260-29.70t.

Steinwart, Johannes, to Audi NSU Auto Union Aktiengesellschaft and Wankel G.m.b.H. Rotor for a rotary combustion engine. 3,743,449, 7-3-73, Cl. 418-39.000.

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Steisslinger, Kurt; Weidenbach, Willi; and Lutz, Ernst, to Eastman Kodak Company. Stand for photographic apparatus. 3,747,884, 7-24-73, Cl. 248-181.000.

Steitz, Richard Ralph, to RCA Corporation. Method of joining solder balls to solder bumps. 3,719,981, 3-13-73, Cl. 29-423.000.

Steitz, William R.; Bradley, Robert O.; and Waterworth, Thomas H., to Toledo Engineering Co., Inc. and Elemelt Limited. Electric glass furnace structure. 3,757,020, 9-4-73, Cl. 13-6.000.

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Stejskal, Ladislav M., to Boeing Company, The. High temperature vacuum creep forming fixture. 3,739,617, 6-19-73, Cl. 72-63.000.

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Stelber Industries Inc.: *See*—
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Stelitano, Salvatore. Tobacco pipe construction. 3,709,233, 1-9-73, Cl. 131-176.000.

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Steller, Arthur H. Wire clip closure machine. 3,728,774, 4-24-73, Cl. 29-243.570.

Stelling, William. Prefabricated highway system. 3,712,187, 1-23-73, Cl. 94-4.000.

Stelling, William. Water-jet propulsion and steering system for a multi-section prime-mover ship. 3,742,893, 7-3-73, Cl. 115-12.00r.

Stelling, William. Retractable water jet for a water jet/steering and propulsion system. 3,780,691, 12-25-73, Cl. 115-12.00r.

Stellmach, Dieter, to Walther Buromaschinen GmbH. Wire matrix printer heads. 3,759,359, 9-18-73, Cl. 197-1.00r.

Stellman, Gerald B. Litter device. 3,757,359, 9-11-73, Cl. 5-81.000.

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Stelter, Manfred Karl Georg. Ground fault detector and method of ground fault detection. 3,754,221, 8-21-73, Cl. 340-255.000.

Steltner, Hermanna R. Dynamically effective oil-guide-boom and method for purifying water employing the same. 3,779,382, 12-18-73, Cl. 210-83.000.

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Steltz, Douglas C., to Portec, Inc. Power-operated tail gate and a packer plate for refuse dump trucks. 3,756,438, 9-4-73, Cl. 214-83.300.

Steltz, Douglas C., to Portec, Inc. Device for fluidizing stored material. 3,773,297, 11-20-73, Cl. 259-1.000.

Stelzer, Adolf. Piston machine. 3,753,631, 8-21-73, Cl. 418-3.000.

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Stelzer, Robert A.; and Gunyou, Lyman J., to Avco Corporation. Corn sheller and separator. 3,763,867, 10-9-73, Cl. 130-6.000.

Stelzer, Werner, to Rieker, Justus, Messrs. Dr., & Co. Ski boot. 3,729,842, 5-1-73, Cl. 36-2.5al.

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Stemmer, Adolf. Process for texturizing synthetic yarns. 3,774,383.





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Stemmer, Adolf. Process for texturizing synthetic yarns. 3,774,383, 11-27d73, Cl. 57-34.0hs.
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Stendig, Joseph L.; and Davis, Claude A. Condition responsive receptacles. 3,781,857, 12-25-73, Cl. 340-420.000.
Stenfeldt, Jan-Olof. Tool gripping and guiding device for tool exchanger for punching and nibbling machines. 3,765,291, 10-16-73, Cl. 83-563.000.
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Stengelin, Johann Conrad. Trickling filter plant. 3,777,891, 12-11-73, Cl. 210-150.000.
Stenger, Hanns G. Adaptor for tape transport truck and the like. 3,713,716, 1-30-73, Cl. 312-107.000.
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Stenger, Richard E.; and Richey, John M., to General Electric Company. Fuel distribution system. 3,775,975, 12-4-73, Cl. 60-39.320.
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Stenner, Gustav H. Peristaltic pump. 3,756,752, 9-4-73, Cl. 417-477.000.
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Stepan, William E., to GTE Automatic Electric Laboratories, Incorporated. Mated connector apparatus for printed wiring boards. 3,760,329, 9-18-73, Cl. 339-18.00c.
Stepan, William E., to GTE Automatic Electric Laboratories, Incorporated. Method and apparatus for forming holes in a material. 3,768,351, 10-30-73, Cl. 83-55.000.
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Stepanek, Frank E.; and Winters, Francis G., to American Home Products Corporation. Merchandising fixture. 3,746,295, 7-17-73, Cl. 248-226.00a.
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Sishkina, Irina Mikhailovna. Process for the recovery of iodine. 3,726,937, 410-73, Cl. 260-681.50r.
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Stephens, Donald L.; and Penzotti, Roger Paul, to Pacific Car and Foundry Company. Tilt hood assist spring. 3,754,613, 8-28-73, Cl. 180-69.00c.
Stephens, Donald S.; and Banic, James M., Jr., to Westinghouse Electric Corporation. Regulating and filtering transformer. 3,708,744, 1-2-73, Cl. 323-60.000.
Stephens, Edward John; Hart, Ernest Vader; and Vandandaigue, Andre Maurice, to Emhart Corporation. Foreign particle inspection machine. 3,765,533, 10-16-73, Cl. 209-73.000.
Stephens, Harvey. Air brake release. 3,716,277, 2-13-73, Cl. 303-70.000.
Stephens, James H.; and Grunert, Richard D. Case for golf tool. 3,744,542, 7-10-73, Cl. 150-52.00r.
Stephens, James M. Stabilizer for vehicle. 3,767,226, 10-23-73, Cl. 280-150.500.
Stephens, James R., to Standard Oil Company. Amide-imide copolymers. 3,748,304, 7-24-73, Cl. 260-47.0cp.
Stephens, Leonard W., to Palmer Fluid Controls, Inc. Sluice gate. 3,768,773, 10-30-73, Cl. 251-147.000.
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Stephens, Raymond E., Jr. Internal tri-lock bicycle locking system. 3,774,421, 11-27-73, Cl. 70-234.000.
Stephens, Richard J. Apparatus for securing a plurality of cards in a holder. 3,772,754, 11-20-73, Cl. 29-200.00b.
Stephens, Robert D.; and Kray, William C., Jr., to Shell Oil Company. Poly(phenylenecarbides). 3,749,700, 7-31-73, Cl. 160-80.00p.
Stephens, Robert Melling. Icebreaker oil tankers. 3,768,427, 10-30-73, Cl. 114-41.000.
Stephens, Verlin C., to Lilly, Eli, and Company. Propoxyphene salts. 3,728,379, 4-17-73, Cl. 260-490.000.
Stephens, William I.: *See—*
Albinson, Don C.; and Stephens, William I., 3,730,378.
Stephens, William K., Jr., to Morris, Philip, Incorporated. Cigarette with coated wrapper ventilation flaps. 3,739,785, 6-19-73, Cl. 131-9.000.
Stephens, William K., Jr., to Morris, Philip, Incorporated. Cigarette with controlled smoking profile. 3,773,053, 11-20-73, Cl. 131-9.000.
Stephensen, Allan P., to Appleton Electric Company. Directional mounting for area lighting. 3,714,415, 1-30-73, Cl. 240-44.260.
Stephenson, Andrew N. Inertially-stabilized optical system for missiles. 3,729,152, 4-24-73, Cl. 244-3.160.
Stephenson, Charles F.; Van Dyck, Kenneth A.; and Wyatt, James B., to Gillette Company, The. Razor head. 3,708,879, 1-9-73, Cl. 30-61.000.
Stephenson, Charles M., to Texas Instruments, Incorporated. Combined digital multiplication summation. 3,761,698, 9-25-73, Cl. 235-164.000.
Stephenson, Donald K.: *See—*
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Stephenson, Earle W., to Kennametal Inc. Earthworking tool. 3,737,199, 6-5-73, Cl. 299-89.000.
Stephenson, Earle W.; Newberry, James G.; and Hazzard, Robert C., to Kennametal Inc. and International Minerals & Chemical Corporation. Case mill having outwardly tapering flow path. 3,771,734, 11-13-73, Cl. 241-187.000.
Stephenson, Fred J., to Butler Manufacturing Company. Valley closure for a roof construction. 3,735,596, 5-29-73, Cl. 51-14.000.
Stephenson, Fred J., to Butler Manufacturing Company. Sub-dividing secondary support grid for a ceiling fixture. 3,736,706, 6-5-73, Cl. 52-28.000.
Stephenson, George M.: *See—*
Stephenson, George M.; and Frangos, John (said Frangos assor. to said), 3,728,269.
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Stephenson, Herman P., to Thiem Corporation. Package for transporting and storing liners for foundry risers. 3,718,254, 2-27-73, Cl. 206-65.00s.
Stephenson, James L.: *See—*
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Stephenson, John, to United Kingdom Atomic Energy Authority. Particle separation in a gaseous fluid. 3,724,658, 4-3-73, Cl. 209-143.000.
Stephenson, John Edward. Research teaching tool. 3,780,449, 12-25-73, Cl. 35-1.000.
Stephenson, John L.; and Gaven, Joseph V., Jr. Food additive composition of squalene oleyl alcohol and oleic and linoleic acid. 3,723,130, 3-27-73, Cl. 99-2.00f.
Stephenson, Kenrick O., Jr.; Telepko, George D.; and Strakosch, C. Philip, to Digital Data Systems Corporation. Method of and apparatus for credit verification. 3,727,186, 4-10-73, Cl. 340-149.00a.
Stephenson, Kermit Quinten, to Research Corporation. Transplanter using pivotal cutter chains. 3,736,882, 6-5-73, Cl. 37-2.00r.
Stephenson, Lee P., to California Research Corporation. Method for processing surface detected seismic data to plotted representations of subsurface directional seismic data. 3,766,519, 10-16-73, Cl. 340-15.5ds.
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Stephenson, Orlando W., III; and Schmidt, John E., to BASF Wyandotte Corporation. Bipolar electrode seal at barrier sheet. 3,752,757, 8-14-73, Cl. 204-256.000.
Stephenson, Paul A., to Xerox Corporation. Document stacker apparatus. 3,729,188, 4-24-73, Cl. 271-64.000.
Stephenson, Robert L., to Allied Chemical Corporation. Vehicle passenger restraint system. 3,733,088, 5-15-73, Cl. 280-150.0ab.
Stephenson, Robert L., to Allied Chemical Corporation. Detonator holder. 3,746,214, 7-17-73, Cl. 222-3.000.



Stephenson, Robert L.; and Radke, Donald G., to Allied Chemical
Schulenberg, John W., 3,711,513.

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Stephenson, Robert L.; and Loomba, Yogendra S., to Allied Chemical Corporation. Seat belt buckle plunger type switch and housing containing belt latch mechanism. 3,781,497, 12-25-73, Cl. 200-61.58b.
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Stephenson, Stephen David; and Richards, John Rees Morgan, to National Research Development Corporation. Process for reducing iron oxide fume formation during refining of steel. 3,749,567, 7-31-73, Cl. 75-60.000.
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Steppan, Hartmut; Maar, Herbert; and Klupfel, Kurt-Walter, to Kalle Aktiengesellschaft. Light-sensitive copying compositions. 3,732,106, 5-8-73, Cl. 96-115.00r.
Steppi, Hubert, to Agfa-Gevaert Aktiengesellschaft. Cinematographic apparatus. 3,768,895, 10-30-73, Cl. 352-166.000.
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Sterling, Henley Frank; and Bush, Eric Langley, to International Standard Electric Corporation. Electrolytic capacitor electrode comprising semiconductor with film-forming metal coating. 3,708,728, 1-2-73, Cl. 317-230.000.
Sterling, Henly Frank, to ITT Industries, Inc. Apparatus for producing fine powder by plasma sublimation. 3,764,272, 10-9-73, Cl. 23-273.0sp.
Sterling Laboratories; division of Sterling Scientific Industries: *See—*
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Sterling, Walter S., to Pneumatic Scale Corporation. Closure handling and orienting apparatus. 3,722,658, 3-27-73, Cl. 198-33.0aa.
Sterling, Walter S., to Pneumatic Scale Corporation. Separating and sorting apparatus. 3,724,656, 4-3-73, Cl. 209-73.000.
Sterling, Walter S., to Pneumatic Scale Corporation. Closure handling apparatus. 3,726,385, 4-10-73, Cl. 198-33.0aa.
Sterlini, Jacques, to Societe Anonyme: Compagnie Electro-Mecanique. Method and apparatus for intimately contacting a gas and a liquid. 3,730,494, 5-1-73, Cl. 261-21.000.
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Stern, Arthur M.; and Gasner, Lawrence L., 1/2 to Betz Laboratories, Inc. Treatment of pulp mill wastes. 3,737,374, 6-5-73, Cl. 195-9.000.
Stern, Arthur M.; and Gasner, Lawrence L., to Betz Laboratories, Inc. Mass transfer device. 3,764,014, 10-9-73, Cl. 210-220.000.
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Stern, David, to Combined Optical Industries, Limited. Rear-view mirror with reflective inclined prism surfaces. 3,708,222, 1-2-73, Cl. 350-303.000.
Stern, David, to Combined Optical Industries Limited. Antiglare mirror attachments. 3,740,122, 6-19-73, Cl. 350-281.000.
Stern, David, to Combined Optical Industries Limited. Antiglare mirror with one reflecting face formed of an array of prisms. 3,741,632, 6-26-73, Cl. 350-281.000.
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Stern, Gerhard; Muller, Walter; and Weinrotter, Ferdinand, to Osterreichische Stickstoffwerke Aktiengesellschaft. Process for the production of a straight-chain aliphatic-alpha-hydroxycarboxylic acid. 3,766,228, 10-16-73, Cl. 260-413.000.
Stern, Hansjoerg, to General Electric Company. Fluidic gaging device. 3,728,894, 4-24-73, Cl. 73-37.500.
Stern, Howard R.; Marshall, James E.; and Sloane, Thomas E., Jr., to Mattel, Inc. Indexing apparatus. 3,738,195, 6-12-73, Cl. 74-819.000.
Stern, Howard S.: *See—*
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Stern, Theodore J. Cardiac pacer and heart pulse monitor. 3,742,938, 7-3-73, Cl. 128-2.05t.
Sternad, William A. Railroad car handling and classification apparatus. 3,756,159, 9-4-73, Cl. 104-48.000.
Sternad, William A. Railroad car switching game. 3,767,202, 10-23-73, Cl. 273-132.000.
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Ning, Robert Ye-Fong; and Sternbach, Leo Henryk, 3,781,353.
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Sternberg, George P. Dough making method. 3,713,844, 1-30-73, Cl. 99-91.000.
Sternberg, Herbert B., to Automated Reference Corporation. Vehicle identification apparatus and identing method and mandrel. 3,768,185, 10-30-73, Cl. 40-2.200.
Sternberg, Howard W. Method and aid for the automated sorting of mail by zip code. 3,774,758, 11-27-73, Cl. 209-111.700.
Sternberg, Moshe, to Miles Laboratories, Inc. Purification of lactase. 3,737,377, 6-5-73, Cl. 195-66.00r.
Sternberger, Ludwig A.; Cuclis, John J.; and Meyer, Howard G., to United States of America, Army. Soluble antigen-antibody complexes. 3,773,625, 11-20-73, Cl. 195-99.000.
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Sterner, John Franklin; and Hanchett, George Draper, to RCA Corporation. Dual-gate MOS-FET oscillator circuit with amplitude stabilization. 3,723,905, 3-27-73, Cl. 331-109.000.
Sterner, Russell L., to Kidde, Walter, & Company, Inc., mesne. Trapezoidal telescoping crane boom. 3,708,937, 1-9-73, Cl. 52-118.000.
Sterner, Russell L., to Kidde, Walter, & Company, Inc., mesne. Crane boom having universally swiveled wear pads. 3,719,404, 3-6-73, Cl. 308-3.000.
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Sterner, Russell L., to Kidde, Walter, & Company, Inc., mesne. Four-section fully hydraulically operated crane boom having three individually supported single piston rams contained within fly section. 3,736,710, 6-5-73, Cl. 52-115.000.
Sterner, Russell L., to Kidde, Walter, & Company Inc., mesne. Adjustable and replaceable lateral guides for telescopic crane boom. 3,748,807, 7-31-73, Cl. 52-632.000.
Sterner, Russell L.; and Lowe, William L., to Kidde, Walter, & Company, Inc., mesne. Safe load control system for telescopic crane booms. 3,757,066, 9-4-73, Cl. 200-87.00r.
Sternius, Alf Tommy, to Kommandilbolaget T. Sternius Aktiebolag & Co. Ornamental lighting means. 3,714,414, 1-30-73, Cl. 240-10.00r.
Sterns, Robert B.; and McGuire, Richard, to Sun Chemical Corporation, mesne. Control of process according to registration indicia on material being processed. 3,774,016, 11-20-73, Cl. 235-151.000.
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Stetson, Harold Wilbur; and Gyurk, Warren Joseph, to Western Electric Company, Incorporated. Use of menhaden oil to defloccculate dry ground alumina in manufacture of substrates. 3,780,150, 12-18-73, Cl. 264-63.000.
Stetson, Karl A.; and Grant, Ralph M., to GCOptronics, Inc. Holographic method for interferometric measurement of material corrosion and erosion on arbitrary surfaces. 3,744,911, 7-10-73, Cl. 356-109.000.
Stetten, Kenneth J.; and Mayer, Rollin P., to Mitre Corporation, The. Video display system. 3,746,780, 7-17-73, Cl. 178-6.60a.
Stetter, Karl; and Korbanka, Helmut, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the preparation of oxidation products of ethylene polymers. 3,756,999, 9-4-73, Cl. 260-88.250.
Stettler, Christian, to Greiner Electronic AG. Fluid metering pump. 3,720,353, 3-13-73, Cl. 222-380.000.
Stettler, Hans, to Sandoz Ltd.; a/k/a Sandoz AG. Filterability of water suspended masses. 3,753,902, 8-21-73, Cl. 210-54.000.
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Stettner, Joseph C., to Novar Electronics Corporation. Burglar deterrent timing switch. 3,713,126, 1-23-73, Cl. 340-258.00d.
Stettner, Joseph C.; and Ott, James H., to Novar Electronics Corporation. Burglar deterrent timing switch. 3,761,912, 9-25-73, Cl. 340-276.000.
Stettner, Joseph C., to Novar Electronics Corporation. Electronic switch for timed load energization after trigger signal. 3,764,832, 10-9-73, Cl. 307-293.000.
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Steudel, Goetz Wolfgang, to RCA Corporation. Reference voltage generator and regulator. 3,743,923, 7-3-73, Cl. 323-22.00r.
Steudel, Goetz Wolfgang, to RCA Corporation. Circuit for driving frequency standard such as tuning fork. 3,743,960, 7-3-73, Cl. 331-1.00a.
Steudler, Frederick W., Jr., to Vallorbs Jewel Company, The. Quick connect-disconnect coupler. 3,730,565, 5-1-73, Cl. 285-158.000.
Steuer, Herbert, to Reimers Getriebe A.G. Bearing of the conical discs of an infinitely variable cone pulley transmission. 3,722,308, 3-27-73, Cl. 74-230.17m.
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Stevely, Robert Reid; and Webster, William Snodgrass, to Imperial Chemical Industries Limited. Propellent charge comprising nitrocellulose. 3,779,820, 12-18-73, Cl. 149-2.000.
Steven, Gary; and Pinnow, Kenneth E., to Crucible Inc. Steel mold and method for producing the same. 3,720,545, 3-13-73, Cl. 148-2.000.
Steven, Gary, to Crucible Inc., mesne. Lead-bearing steel and method of manufacture. 3,729,293, 4-24-73, Cl. 29-182.500.
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Stevens, Arthur William; and Tappy, Ronald Alan. Mount. 3,763,582, 10-9-73, Cl. 40-104.180.
Stevens, Calvin E.: *See—*



Ash, Arthur B.; Stevens, Calvin E.; and Markovac, Anica,



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Stevens, Charles R. Machine and method for wrapping three dimensional rectangular objects. 3,750,361, 8-7-73, Cl. 53-32.000.

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Stevens, Chester U.; and Selke, William A., to Kimberly-Clark Corporation. Smoking product with improved flavor and method of making it. 3,729,009, 4-24-73, Cl. 131-17.000.

Stevens, Clarence L., to Archer, W. Gary. Water repellent sand. 3,731,493, 5-8-73, Cl. 61-35.000.

Stevens, Clifford A., to Texaco Inc. Cleaning aluminum heat exchange surfaces. 3,714,979, 2-6-73, Cl. 165-1.000.

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Stevens, Curtis E., to Bertea Corporation. Acoustic control system. 3,753,221, 8-14-73, Cl. 340-15.000.

Stevens, Daryl, to Clark Equipment Company. Hydraulic steering system. 3,752,248, 8-14-73, Cl. 180-79.20r.

Stevens, Don L.: *See*—
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Stevens, Elbert M. Anchor. 3,760,760, 9-25-73, Cl. 114-206.00r.

Stevens, Emerson W., to United States of America, Air Force. V/STOL aircraft-by-pass engine having a double, thrust diverter valve assembly. 3,747,875, 7-24-73, Cl. 244-53.00r.

Stevens, Emerson W., to United States of America, Air Force. Bypass engine having a single, thrust diverter valve mechanism for a V/stol aircraft. 3,769,797, 11-6-73, Cl. 60-226.00r.

Stevens, Frederick F., Jr., to Hoff-Stevens, Inc. Rotary selector valve mechanism. 3,741,248, 6-26-73, Cl. 137-627.000.

Stevens, George S. Electronic weight monitor. 3,778,808, 12-11-73, Cl. 340-282.000.

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Smith, George A.; Stevens, Harrison; Walker, Robert R.; and Boyd, Gilbert D., 3,716,649.

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Stevens, Harry S.; Karr, Jerry W.; Miller, Dennis D.; and Ballinger, Forrest H., to Harmon Electronics, Inc. Elapsed time and terminal speed computer for automotive vehicles. 3,748,580, 7-24-73, Cl. 324-178.000.

Stevens, Henry C.: *See*—
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Stevens, Hugh Dexter; and Muller, Thomas Emery, to International Telephone and Telegraph Corporation. Process for producing high performance crimped rayon staple fiber. 3,720,743, 3-13-73, Cl. 264-168.000.

Stevens, J. P., & Co., Inc.: *See*—
Carman, Alexander J., 3,771,330.
Duckworth, Lenoward K., 3,760,611.
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Stevens, Jacques; and George, Michel, to Solvay & Cie. Catalysts and process for the polymerization of olefins. 3,718,636, 2-27-73, Cl. 260-94.90d.

Stevens, James A.: *See*—
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Stevens, Joe E.: *See*—
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Stevens, John H., to United States of America, Navy. Incendiary grenade. 3,731,632, 5-8-73, Cl. 102-65.000.

Stevens, John H., to United States Steel Corporation. Gas turboblower apparatus for generating and delivering combustion gases and reduction gases to a blast furnace. 3,778,045, 12-11-73, Cl. 266-29.000.

Stevens, John H., to United States Steel Corporation. Jet engine powered blower for supplying combustion blast gas and reducing gas to a blast furnace. 3,778,046, 12-11-73, Cl. 266-29.000.

Stevens, John H., to United States Steel Corporation. Apparatus for generating and delivering combustion gases and reduction gases to a blast furnace. 3,778,047, 12-11-73, Cl. 266-29.000.

Stevens, Keith B., Sr.: *See*—
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Stevens, Kenneth, to Foster Wheeler John Brown Boilers Limited. Arc welding torches for tube plate welding. 3,780,257, 12-18-73, Cl. 219-125.00r.

Stevens, Kenneth L.: *See*—
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Stevens, Laurence G.; Miller, Marilyn; and Goeller, Leonhard A., to Universal Oil Products Company. Hydrometallurgical recovery of metal values. 3,772,423, 11-13-73, Cl. 423-144.000.

Stevens, Laurence G.; Miller, Marilyn; and Goeller, Leonhard A., to Universal Oil Products Company. Hydrometallurgical recovery of metal values. 3,772,424, 11-13-73, Cl. 423-144.000.

Stevens, Louis D.: *See*—
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Stevens, Milton J. Method of constructing a ferrule unit for fishing rods. 3,718,967, 3-6-73, Cl. 29-458.000.

Stevens, Ray C.; and Stevens, Joe E. Vehicle mounted chocker cable storage means. 3,752,342, 8-14-73, Cl. 214-450.000.

Stevens, Richard C.: *See*—
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Stevens, Richard W., to Milwaukee Boiler Manufacturing Company. Machine for sinking vertical shafts. 3,779,322, 12-18-73, Cl. 175-162.000.

Stevens, Robert. Racket with string tension adjusting means. 3,724,850, 4-3-73, Cl. 273-73.00e.

Stevens, Roy. Grain cleaner for auger-equipped elevators. 3,727,759, 4-17-73, Cl. 209-283.000.

Stevens, Roy W., Jr.: *See*—
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Stevens, Samuel S. Paper making machine pick-up device including an inflatable member pressing an apron uniformly against the web. 3,729,376, 4-24-73, Cl. 162-306.000.

Stevens, Samuel S. Adjustable slice for cylindrical roll former. 3,730,831, 5-1-73, Cl. 162-321.000.

Stevens, Simon, to U.S. Philips Corporation. Stretcher. 3,724,005, 4-3-73, Cl. 5-81.00r.

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Stevens, Thad: *See*—
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Stevens, Walter Chandler, Jr.: *See*—
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Stevens, Walter Chandler, Jr.; and More, Philip M., to Universal Refrigeration, Inc. Pilot clamp and shield. 3,723,050, 3-27-73, Cl. 431-191.000.

Stevenson, Billy E.; and Rumsey, Thomas R., to Royal Industries, Inc. Motor vehicle security system and security method. 3,770,324, 11-6-73, Cl. 303-9.000.

Stevenson, Calvin Leo, to Deltech, Inc. Process for reclamation of flue dust. 3,756,804, 9-4-73, Cl. 75-25.000.

Stevenson, Elbert H., 50% interest to Rehm, Frederick H. Method of joining the ends of multi-layer printing forms. 3,776,795, 12-4-73, Cl. 156-157.000.

Stevenson, George Earley. Integrated circuits for multiplexing. 3,728,691, 4-17-73, Cl. 340-172.500.

Stevenson, George Michael: *See*—
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Stevenson, Graham T.; and Johnston, Charles, to Dow Chemical Company, The. Poultry cage floor and poultry cage. 3,771,495, 11-13-73, Cl. 119-17.000.





Stevenson, Howard Jackson. Self-cleaning animal enclosure structure. 3,718,119, 2-27-73, Cl. 119-28.000.

Stevenson, James Gray, to Dobson, Gullick, Limited. Mine roof supports. 3,732,699, 5-15-73, Cl. 61-45.00d.

Stevenson, John E.: *See*—
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Stevenson, John W.; and Trask, Warren T., to Mallinckrodt Chemical Works. Manufacture of aluminum tribromide. 3,723,075, 3-27-73, Cl. 423-495.000.

Stevenson, Joseph Eugene, to Stauffer Chemical Company, mesne. Primer composition for heat curable silicone rubbers. 3,769,253, 10-30-73, Cl. 260-33.6sb.

Stevenson, Karl F. Method for repairing craters in the surface of a concrete runway. 3,717,328, 2-20-73, Cl. 259-148.000.

Stevenson, Lloyd E.: *See*—
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Stevenson, Norman A. Brazing method for carbide tipped saw blades. 3,733,934, 5-22-73, Cl. 76-112.000.

Stevenson, Robert L. Urinal structure. 3,742,522, 7-3-73, Cl. 4-10.000.

Stevenson, Robert L. Wood heater with viewing window. 3,757,766, 9-11-73, Cl. 126-60.000.

Stevenson, Robert W.: *See*—
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Stevenson, Timothy John; and Scarrott, Gordon George, to International Computers limited. Actuator systems employing energy recovery techniques. 3,729,663, 4-24-73, Cl. 318-135.000.

Stevenson, William H., III. Rehydration apparatus. 3,760,716, 9-25-73, Cl. 99-536.000.

Stevenson, William J. Motorized sled type vehicle. 3,750,776, 8-7-73, Cl. 180-6.00r.

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Stevers, Roger F.: *See*—
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Steves, Leon F. Launching device for boat trailers. 3,712,488, 1-23-73, Cl. 214-82.000.

Stevko, Phillip J.; Petrella, Joseph L.; and Dissauer, Gerald A., to Addressograph-Multigraph Corporation. Exposure control for electrostatic copiers. 3,728,023, 4-17-73, Cl. 355-83.000.

Stevko, Phillip J., to Bailey Meter Company. Digitally controlled linear actuator. 3,762,237, 10-2-73, Cl. 74-479.000.

Steward, Campbell: *See*—
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Steward, Collins W.; and Pruitt, Ronnie M., to Dow Chemical Company, The. Highly resilient flexible polyurethane foams having improved tear strength. 3,772,222, 11-13-73, Cl. 260-2.50a.

Steward, Jerry H., to Multifastener Corporation. Pierce nut installation head. 3,718,965, 3-6-73, Cl. 29-211.00d.

Steward, John H.: *See*—
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Steward, Robert L., to Hewlett-Packard Company. Solid state displays. 3,719,849, 3-6-73, Cl. 313-109.500.

Stewart, Andrew W.; Britzman, Gilbert J.; Bauer, Dale M.; and Britzman, Bruce E., to Meridian Interprises, Inc. Retractable fountain assembly. 3,722,816, 3-27-73, Cl. 239-17.000.

Stewart, Arthur, Jr. Identification plate. 3,769,725, 11-6-73, Cl. 40-10.00r.

Stewart, Aubrey P., Jr.; and Dreier, Clarence R., Jr., to Allied Chemical Corporation. Preparation of a fruit pudding. 3,770,461, 11-6-73, Cl. 426-380.000.

Stewart, Carrington H., to United States of America, National Aeronautics and Space Administration. Apparatus for statistical time-series analysis of electrical signals. 3,732,405, 5-8-73, Cl. 235-151.310.

Stewart, Charles G. Shear construction. 3,736,661, 6-5-73, Cl. 30-192.000.

Stewart, David Bruce; Newtyle, Angus; Main, John; Kettins, Angus; and Duncan, Maurice, to Stewart, Wm. R., & Sons (Hacklemakers) Limited. Method of fixing pins in a matrix. 3,730,802, 5-1-73, Cl. 156-98.000.

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Stewart, David Gordon; Ball, William John; and Jenkins, Rowland Harris, to BP Chemicals Limited. Oxidation catalysts. 3,769,241, 10-30-73, Cl. 252-469.000.

Stewart, Donald F., to Allied Chemical Corporation. Powder feeding device. 3,718,164, 2-27-73, Cl. 141-1.000.

Stewart, Donald F., to Allied Chemical Corporation. Prevention of gauge bands in rolls of film. 3,737,030, 6-5-73, Cl. 206-59.00e.

Stewart, Donald Fergusson: *See*—
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Stewart, Donald T.; and McAlpine, Ian, to British Aluminum Company Limited, The. Stabilized zirconium salts. 3,741,782, 6-26-73, Cl. 106-162.000.

Stewart, Duncan: *See*—
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Stewart, Floyd D.; and Schollenberger, Charles S., to Goodrich, B. F., Company, The. Thermoplastic polyurethane foam. 3,769,245, 10-30-73, Cl. 260-2.5am.

Stewart, George E. Breakaway step for high-clearance vehicles. 3,758,134, 9-11-73, Cl. 280-163.000.

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Stewart, James A., to GTE Automatic Electric Laboratories, Incorporated. Battery charging circuit for subscriber carrier equipment. 3,771,039, 11-6-73, Cl. 320-2.000.

Stewart, James A., to GTE Automatic Electric Laboratories, Incorporated. Automatic disconnect circuit for reducing dial pulse distortion caused by subscriber carrier equipment. 3,780,228, 12-18-73, Cl. 179-16.00a.

Stewart, James B.; and Lutts, Carlton G., to USM Corporation. Adjustable work pick-up device. 3,747,919, 7-24-73, Cl. 271-19.000.

Stewart, James Edward. Mailing tube. 3,756,497, 9-4-73, Cl. 229-22.000.

Stewart, James M., to Stewart Research, Inc. Drill chuck. 3,718,340, 2-27-73, Cl. 279-57.000.

Stewart, James M., to Stewart Research, Inc. Combination aspirator and fluid delivering surgical instrument. 3,749,090, 7-31-73, Cl. 128-240.000.

Stewart, James M., to Stewart Research Inc. Dental handpiece. 3,763,664, 10-9-73, Cl. 64-4.000.

Stewart, James M., to Stewart Research, Inc. Pressure relief valve for a sphygmomanometer. 3,779,236, 12-18-73, Cl. 128-2.05g.

Stewart, John Kenneth, to Tamper Inc. Mobile track tamper. 3,710,721, 1-16-73, Cl. 104-12.000.

Stewart, John Kenneth, to Canron, Inc. Tie tamper. 3,714,901, 2-6-73, Cl. 104-12.000.

Stewart, John Kenneth, to Canron, Inc. Self-propelled tie destroying machine. 3,776,153, 12-4-73, Cl. 110-10.000.

Stewart, John L., to PPG Industries, Inc. Electrically heated multiple glazed window having an iridescence masking film. 3,710,074, 1-9-73, Cl. 219-203.000.

Stewart, John L.; and Bowser, Goerge H., to PPG Industries, Inc. Multiple-glazed breather windows. 3,771,276, 11-13-73, Cl. 52-172.000.

Stewart, John Stewart Simpson. Physiotherapy control device. 3,735,101, 5-22-73, Cl. 235-92.00t.

Stewart, Joseph B. Convertible sofa-bed without integral support structure. 3,766,577, 10-23-73, Cl. 5-12.000.

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Stewart, Maurice Z., to Dubuque Packing Company. Process of preparing sliced canned ham. 3,753,741, 8-21-73, Cl. 99-187.000.

Stewart, Merrick W.; and Marks, Gerard J. Reading pacer device. 3,721,021, 3-20-73, Cl. 35-35.00b.

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Stewart, Robert C., Jr., to United Aircraft Corporation. Fuel cell. 3,743,544, 7-3-73, Cl. 136-86.00r.
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Stewart, Victor E., Jr., to McGraw-Edison Company. Apparatus for measuring electrical energy consumption. 3,725,774, 4-3-73, Cl. 324-142.000.
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Stibbs, Donald; Brown, Clifford Gordon; and Thompson, Raymond, to United States Borax & Chemical Corporation. Cold-pressed compositions. 3,749,571, 7-31-73, Cl. 75-204.000.
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Stich, Frederick A., to GTE Automatic Electric Laboratories Incorporated. Electronic scanpoint matrix with switch monitoring. 3,713,104, 1-23-73, Cl. 340-166.00r.
Stich, Frederick A., to Allis-Chalmers Corporation. Capacitive position sensor. 3,760,392, 9-18-73, Cl. 340-200.000.
Stich, Willi L.: *See—*
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Stickel, Malcolm. Air filtering screen. 3,755,995, 9-4-73, Cl. 55-481.000.
Sticker, Charles W., Jr., to Gray Tech Industries, Inc. Method and apparatus for preventing erosion and for conveying. 3,733,831, 5-22-73, Cl. 61-4.000.
Sticker, Gerd: *See—*
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Stickler, Charles F. Device for deburring plastic pipes. 3,754,832, 8-28-73, Cl. 408-227.000.
Stickler, Charles W., Jr. Portable mold for erecting concrete or plastic shelters. 3,734,670, 5-22-73, Cl. 425-405.00a.
Stickler, Charles W., Jr., to Gray Tech Industries, Inc. Method of making a cast concrete house having integral walls and roof using mobile interior forms. 3,742,102, 6-26-73, Cl. 264-32.000.
Stickler, Roland: *See—*
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Stickney, Fernald S., to Instrument Specialties Company, Inc. Grips for holding specimens. 3,715,916, 2-13-73, Cl. 73-103.000.
Stickney, Harold. Jig box for holding a switch box to a wall stud. 3,751,026, 8-7-73, Cl. 269-97.000.
Stickney, William A.; Hunter, Willard L.; Elger, Gerald W.; and Rhoads, Stanley C., to United States of America, Interior. Manufacture of synthetic rutile. 3,739,061, 6-12-73, Cl. 423-610.000.
Stickney, William W.: *See—*
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Stidham, James Richard; and Thelemaque, Louis Emanuel, to Bell Telephone Laboratories, Incorporated. Operator positions having both dedicated and shared loop facilities. 3,777,058, 12-4-73, Cl. 179-27.000.
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Stiegemeier, Jean R. Progressive display screen. 3,715,716, 2-6-73, Cl. 340-23.000.
Stiegler, Theodore Donald; and Learn, Clyde George, Sr., to Du Pont de Nemours, E. I., and Company. Plastic film made by a film casting article. 3,752,731, 8-14-73, Cl. 161-164.000.
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Stieler, Alfred Otto Hugo; and Billmann, Gerhard Leonhard Emil, to Bunker Ramo Corporation, The. Closure for a connector box. 3,777,926, 12-11-73, Cl. 220-29.000.
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Stiff, Bernard G.; and Finelli, Thomas M., to Avco Corporation. Method of making a radial bearing containing end-loaded filaments. 3,722,051, 3-27-73, Cl. 29-149.500.
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Stiglitz, Martin R.; and Sethares, James C., to United States of America, Air Force. Multi-frequency microstrip filter-detector. 3,742,390, 6-26-73, Cl. 333-6.000.
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Stiles, Alvin B., to Du Pont de Nemours, E. I., and Company. Zirconia-silica-promoted cobalt oxide catalyst. 3,752,774, 8-14-73, Cl. 252-462.000.
Stiles, Alvin B., to Du Pont de Nemours, E. I., and Company. Process for reduction of $SO_2$. 3,755,550, 8-28-73, Cl. 423-564.000.
Stiles, Charles Wesley, Jr., to Motorola, Inc. Microwave integrated circuit. 3,768,050, 10-23-73, Cl. 333-97.00s.
Stiles, Claude J.; and Fischer, Joseph, to National Distillers and Chemical Corporation. Free flowing wax coated particulate ethylene vinyl acetate copolymers. 3,779,785, 12-18-73, Cl. 117-4.000.
Stiles, Donald J., to International Business Machines Corporation. Back printer print line visibility control. 3,752,069, 8-14-73, Cl. 101-93.00c.
Stiles, John C.; Tuffias, Robert H.; and Blakely, Roger W., Jr., to Litton Systems, Inc. Ferrohydrodynamic low-friction bearing. 3,746,407, 7-17-73, Cl. 308-36.300.
Stiles, S. Robert, to Pullman Incorporated. Lautering process. 3,772,036, 11-13-73, Cl. 426-417.000.
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Still, Michael: *See—*
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Stillbert, Leonard R. Time controlled automatic programming device with adjustable pins on programming drum and adjustable contact array. 3,735,063, 5-22-73, Cl. 200-38.0ca.
Stille, John K. Laminated products bonded together with a quinoxaline polymer. 3,734,818, 5-22-73, Cl. 161-213.000.
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Stillhard, Bruno J.; and Scheifele, Fredy Z. Apparatus for the injection molding of plastic objects. 3,728,053, 4-17-73, Cl. 425-4.000.
Stillhard, Bruno J., to Gebruder Buhler AG. Method and apparatus for the temperature control of molding machines. 3,735,805, 5-29-73, Cl. 165-12.000.
Stillings, Robert A., to Kimberly-Clark Corporation. Composite cellulosic laminate and method of forming same. 3,726,750, 4-10-73, Cl. 161-57.000.
Stillions, Frederick K. Combination combustible gas generator-burner. 3,761,221, 9-25-73, Cl. 431-18.000.
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Stillman, Albert H., Jr. Swimming pool coping. 3,777,318, 12-11-73, Cl. 4-172.210.
Stillman, Donald W.; and Bagheri, Mansour A. H., to Long-Lok Fasteners Corporation, mesne. Method of fabricating screw fasteners. 3,728,750, 4-24-73, Cl. 10-10.000.
Stillman, Harold W., Jr., to Sears, Roebuck and Co. Anchor means for tubular post. 3,727,357, 4-17-73, Cl. 52-154.000.
Stillman, Robert H. Carrying and dispensing device for box-contained wire. 3,765,619, 10-16-73, Cl. 242-129.500.
Stillwagon, George B., Jr., to Gardner-Denver Company. Magnetic fastener driving tool. 3,707,894, 1-2-73, Cl. 81-125.000.
Stiltner, Marshall A. Control valve. 3,763,891, 10-9-73, Cl. 137-625.180.
Stiltner, Marshall A. Valve seal. 3,776,276, 12-4-73, Cl. 137-625.180.
Stilwell, Daisy D. Collapsible picture frame. 3,757,445, 9-11-73, Cl. 40-154.000.
Stilwell, George R.; and Weiss, Alfred, to International Business Machines Corporation. Parallel tone multiplexer-receiver. 3,773,981, 11-20-73, Cl. 179-75.0ba.
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Stimler, Morton, to United States of America, Navy. Low light level laser imaging system. 3,735,140, 5-22-73, Cl. 250-213.0vt.
Stimpel, Thomas. Electrostatic processor for ores. 3,773,174, 11-20-73, Cl. 209-131.000.
Stimson, Ronald M., to Eastman Kodak Company. Magnetic recording member with binder therefor. 3,713,887, 1-30-73, Cl. 117-235.000.
Stimson, Ronald M., to Eastman Kodak Company. Photographic film with magnetic recording layer. 3,729,317, 4-24-73, Cl. 96-84.00r.
Stinchcomb, Raymond G., to United States of America, Army. Seismic inhibit circuit for RF mine sensor. 3,780,653, 12-25-73, Cl. 102-19.200.
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Stine, Laurence O., to Universal Oil Products Company. High octane gasoline production. 3,714,023, 1-30-73, Cl. 208-62.000.
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Stine, Richard L., to Stromberg DatagraphiX, Inc. Slide changer. 3,721,494, 3-20-73, Cl. 353-103.000.





Stine, Roy L., to Phillips Petroleum Company. Oxidative Stobb, Aston R.; Stobb, Ronald J.; Grant, Stobb, Walter

Stine, Roy L., to Phillips Petroleum Company. Oxidative dehydrogenation. 3,725,493, 4-3-73, Cl. 260-680.00e.
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Stinnes, Mathias Ludwig, to Du Pont of Canada, Limited. Preformed building panel with weather-proof seal. 3,740,909, 6-26-73, Cl. 52-302.000.
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Stirk, Sidney E., to Improved Machinery, Inc. Vibrating separating apparatus having adjustable material advancing rate. 3,762,547, 10-2-73, Cl. 209-326.000.
Stirland, Meade A.; and Kalinowski, John A., to United States of America, Atomic Energy Commission, mesne. Alignment system. 3,723,013, 3-27-73, Cl. 356-152.000.
Stirling, Harold James; Williams, Roger Morley; Hampson, Peter Samuel; and Price, James Kenneth, to Plessey Handel und Investments A.G. Shift-register re-entry scanner with confirmation scan for detected disparity. 3,715,515, 2-6-73, Cl. 179-18.0ff.
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Stitt, James R., to Electronic Communications, Inc. High precision circulating digital correlator. 3,717,756, 2-20-73, Cl. 235-181.000.
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Stobb, Anton R.; Stobb, Rudolph C.; and Stobb, Walter J. Apparatus for feeding signatures. 3,718,217, 2-27-73, Cl. 214-8.50a.
Stobb, Anton R. Apparatus for bundling, transporting, and feeding sheets. 3,739,924, 6-19-73, Cl. 214-6.00h.
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Stobo, James J., to Glacier Metal Company Limited, The. Method of making a fibre-reinforced plain bearing. 3,709,797, 1-9-73, Cl. 204-16.000.
Stocchi, Virgilio; Cavraro, Antonio; Morsiani, Carlo; and Vio, Dario, to Montecatini Edison S.p.A. Process for scrubbing gases. 3,731,457, 5-8-73, Cl. 55-4.000.
Stock, Alvin L.; Wittig, Herman H.; and Sangiorgio, Louis, to Westinghouse Electric Corporation. Multi-casing turbine. 3,746,463, 7-17-73, Cl. 415-136.000.
Stock, Arthur, to Rohm & Haas Company. Flameproof device for introduction or removal of fluid contents of a container. 3,739,937, 6-19-73, Cl. 220-86.000.
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Stock, David K., to FMC Corporation. Apparatus for making thermoplastic handle bags. 3,720,141, 3-13-73, Cl. 93-33.000.
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Stockinger, Walter, to Concast AG. Method of protecting butt joints of plate molds for continuous casting. 3,736,977, 6-5-73, Cl. 164-14.000.
Stockl, Erich, to Poligrat Corporation. Vibratory conveyor for the continuous electrochemical treatment of mass-produced parts. 3,769,191, 10-30-73, Cl. 204-201.000.
Stocklein, Franz, to Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V. Electrical high voltage apparatus equipped with a movable air lick device for exchanging the filament of an electron gun. 3,723,791, 3-27-73, Cl. 313-237.000.
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Stockmann, Hans H.; and Ray-Chaudhuri, Dilip K., to National Starch and Chemical Corporation. Process of making paper containing chain extended polyamine resin compositions and paper made therefrom. 3,748,221, 7-24-73, Cl. 162-164.000.
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Stockton, Thomas R., to Ford Motor Company. Reversely drivable fluidic device. 3,741,693, 6-26-73, Cl. 418-15.000.
Stockwell, Aubrey B. Freight-skid tow bar. 3,727,966, 4-17-73, Cl. 294-82.00r.
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Stoddard, Darrell D., to Sierracin Corporation, The. Acyloxy end-blocked 3-α-acylamidopropyl or 3-α-haloacylamido-propyl trisiloxanes and process therefor. 3,720,699, 3-13-73, Cl. 260-448.80r.
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Stoeberl, Helmut. Plastic sailboat body and keel assembly. 3,747,550, 7-24-73, Cl. 114-39.000.
Stoeck, Georg; Budka, Heinz-Gunter; Topfmeier, Fritz; and Gradel, Wolf-Dietrich, to Boehringer Mannheim Gesellschaft mit beschrankter Haftung. Preparation of L-3,4-dihydroxy-phenylalanine. 3,725,465, 4-3-73, Cl. 260-501.110.
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Stoffel, Charles R. Spring type leg exercise device. 3,749,400, 7-31-73, Cl. 272-83.00r.
Stoffel, James C.; and Brock, John L., to Xerox Corporation. Toner meter device. 3,722,471, 3-27-73, Cl. 118-637.000.
Stoffel, John F.; and Fuehrer, Charles, to Stoffel Seals Corporation. Plastic seal with hinge. 3,717,369, 2-20-73, Cl. 292-321.000.
Stoffel, Paul J., to Monsanto Company. Trifluoromethyl substituted benzanilides. 3,746,762, 7-17-73, Cl. 260-558.00p.
Stoffel, Robert W. Seat belt buckle. 3,772,744, 11-20-73, Cl. 24-230.00a.
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Stoffey, Donald G.; and Lee, Henry L., Jr., to Lee Pharmaceuticals, mesne. Thermosetting acrylic resins and their use as binders in dental filling compositions. 3,721,644, 3-20-73, Cl. 260-41.00a.
Stoffey, Donald G.; and Lee, Henry L., Jr., to Lee Pharmaceuticals. Certain low viscosity thermosetting acrylic resins and their use as binders in dental filling compositions. 3,730,947, 5-1-73, Cl. 260-47.0va.
Stoffey, Donald G.; and Lee, Henry L., Jr., to Lee Pharmaceuticals, mesne. Triglycidyl ether of trihydroxy bisphenyl ester of acrylic acid. 3,755,420, 8-28-73, Cl. 260-486.00r.
Stoffey, Donald G.; and Lee, Henry L., Jr. Thermosetting acrylic resins and their use as binders in dental filling compositions. 3,774,305, 11-27-73, Cl. 32-15.000.
Stoffler, Albert, to Henkel & Cie G.m.b.H. Spreader assembly for adhesive containers. 3,756,732, 9-4-73, Cl. 401-202.000.
Stoffregen, Karl Heinz, to Schmalbach-Lubeca-Werke Aktiengesellschaft. Packaging container. 3,720,347, 3-13-73, Cl. 220-46.00r.
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Stohlquist, Roger H., to Anderson Bros. Mfg. Co. Article transfer apparatus. 3,770,096, 11-6-73, Cl. 198-21.000.
Stohr, Christian; Grohmann, Klaus; and Wagner, Siegbert O., to Rayette-Faberge, Inc. Brush and method of manufacture. 3,743,557, 7-3-73, Cl. 156-72.000.
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Stokes, Herbert Joseph. Device for negotiating inclined surfaces. 3,726,028, 4-10-73, Cl. 36-2.50d.

Stokes, John J., Jr.; Cargnel, Robert A.; and Geiger, Robert C., to Aluminum Company of America. Method of soldering. 3,716,909, 2-20-73, Cl. 29-504.000.

Stokes, John J., Jr.; Cargnel, Robert A.; and Geiger, Robert C., to Aluminum Company of America. Lead-bismuth alloy for soldering aluminum. 3,769,007, 10-30-73, Cl. 75-166.00b.

Stokes, Lyle S., to Hughes Aircraft Company. Coherent CATV transmission system. 3,778,716, 12-11-73, Cl. 325-49.000.

Stokes, Roy E., to General Electric Company. RF matching system for high frequency relays. 3,764,939, 10-9-73, Cl. 333-7.000.

Stokes, Stanley L., to Wagner Electric Corporation. Control valve. 3,738,709, 6-12-73, Cl. 303-6.00c.

Stokes, William E., to Motivated Images, Inc. Telephone bracket. 3,748,409, 7-24-73, Cl. 179-149.000.

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Stolfa, Frank, to Universal Oil Products Company. Hydrogenative thermal cracking. 3,773,655, 11-20-73, Cl. 208-107.000.

Stoliman, Donald D., to General Motors Corporation. Throttle pedal actuated throttle return. 3,757,758, 9-11-73, Cl. 123-198.0db.

Stoll, Donald F., to El Paso Natural Gas Company. Spoked electrode for monitoring earth currents. 3,735,249, 5-22-73, Cl. 324-9.000.

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Stoll, Martin, to Giroflex-Entwicklungs-AG. Chair. 3,712,666, 1-23-73, Cl. 297-61.000.

Stoll, Milton. Method and apparatus for sealing. 3,711,939, 1-23-73, Cl. 29-494.000.

Stoll, Russell F.; Reed, Alan B.; and Buzek, Vernon T., to Woodhead, Daniel, Inc. Pawl and ratch switch with flexible U-shaped pawl member. 3,749,871, 7-31-73, Cl. 200-156.000.

Stoll, Wolfgang; and Kroll, Hartmut, to NUKEM Nuklear-Chemie und- Metallurgie Gesellschaft mit beschrankter Haftung. Production of porous UO containing fuel. 3,755,513, 8-28-73, Cl. 264-.500.

Stoll, Wolfgang, to ALKEM GmbH. Method for the manufacture of plutonium-containing nuclear fuel. 3,778,885, 12-18-73, Cl. 29-527.200.

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Stoller, Frederick L., to Phillips Petroleum Company. Laminate structure suitable for carpet use and method of making. 3,733,226, 5-15-73, Cl. 156-72.000.

Stoller, Milton, to Scan-Optics, Inc., mesne. Optical character recognition system. 3,723,970, 3-27-73, Cl. 340-146.3ma.

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Stoltman, Donald D., to General Motors Corporation. Gas turbine fuel control. 3,777,480, 12-11-73, Cl. 60-39.28r.

Stoltze, Asbjorn; Larsen, Knud; and Houghton-Larsen, Erik, to Aktieselskabet Niro Atomizer. Apparatus for extracting soluble matter from a comminuted material. 3,726,209, 4-10-73, Cl. 99-289.000.

Stoltze, Morton. Binocular spectacles. 3,741,634, 6-26-73, Cl. 351-57.000.

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Stolzer, Claus; Homeyer, Bernhard; and Hammann, Ingeborg, to Bayer Aktiengesellschaft. O-alkyl N monoalkyl-S-(N-acyl-carbamylmethyl)-thionothiolphosphoric acid ester amides. 3,752,871, 8-14-73, Cl. 260-938.000.

Stolzer, Claus; Hammann, Ingeborg; Unterstenhofer, Gunter; and Homeyer, Bernhard, to Bayer Aktiengesellschaft. O, N-Di-aliphatic hydrocarbon-S-(N-monoalkylicarbamyl-methyl)-thionothiolphosphoric acid ester amides. 3,758,644, 9-11-73, Cl. 260-940.000.

Stolzer, Claus; and Hammann, Ingeborg, to Bayer Aktiengesellschaft. 5-6(-Alkoxycarbonybenzyl)-dithiophosphoric acid ester amides. 3,773,887, 11-20-73, Cl. 260-941.000.

Stolzer, Paul, to Stolzer, Anna; d/b/a Stolzer, Karl, Firma. Bow saw machine. 3,760,678, 9-25-73, Cl. 83-776.000.

Stolzmann, Hans; and Stolzmann, Hans-Joachim. Device for removing packaging bags in stacks from a collector located downstream of the delivery drum of a packaging bag machine. 3,777,906, 12-11-73, Cl. 214-1.0bd.

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Stone, Allan U.; and Martin, Francis J., to Safetech, Inc. Tamperproof solenoid operated valve. 3,727,633, 4-17-73, Cl. 137-382.000.

Stone, Allan V.; and Martin, Francis J. Shut off device. 3,779,273, 12-18-73, Cl. 137-460.000.

Stone, Bernard; and Knife, Dennis H., to Syncro-System Corporation. Picture film and sound film synchronizer. 3,771,860, 11-13-73, Cl. 352-12.000.

Stone, Bruce M.: *See—*
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Stone, Charles W., to Zimmerman, D. W., Mfg., Inc. Safety interlock for fluidloperated, load-handling apparatus. 3,734,325, 5-22-73, Cl. 214-658.000.

Stone, Charles W., to Zimmerman, D. W., Mfg. Inc. Apparatus for handling objects. 3,756,563, 9-4-73, Cl. 254-168.000.

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Stone, David T., to Allis-Chalmers Corporation. Electrical bushing having means for lowering the power factor. 3,767,843, 10-23-73, Cl. 174-142.000.

Stone, David W., to Harnischfeger Corporation. Digital to analog converter. 3,713,137, 1-23-73, Cl. 340-347.0da.

Stone, David W., to Harnischfeger Corporation. Reactive power compensation control system. 3,754,184, 8-21-73, Cl. 323-102.000.

Stone, David W.; and Hansen, Manfred A., to Harnischfeger Corporation. Control means for high speed hoist. 3,772,579, 11-13-73, Cl. 318-203.00r.

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Stone, Eliot; and Patel, Pravin K., to Control Data Corporation, mesne. High recording density magnetic-media with square B-H loop. 3,738,818, 6-12-73, Cl. 29-194.000.

Stone, Frank E.; and Saubestre, Edward B., to Enthone, Incorporated. Electroless copper plating. 3,736,156, 5-29-73, Cl. 106-1.000.

Stone, Guthrie B.; and Tertinek, Christian T., to Stone Construction Equipment, Inc. Lifting device for cement mixers and the like. 3,761,058, 9-25-73, Cl. 254-94.000.

Stone, Harris E. Cap for carpet roll core. 3,763,619, 10-9-73, Cl. 53-3.000.

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Stone, Hilton F., Jr., to United Aircraft Corporation. Method of making a composite blade with an integrally attached root thereon. 3,731,360, 5-8-73, Cl. 29-156.80b.

Stone, Hilton F., Jr., to United Aircraft Corporation. Method for bonding opposed parts of a hollow article together. 3,736,638, 6-5-73, Cl. 29-156.800.

Stone Industrial Corporation: *See—*
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Stone, Irving Charles: *See—*
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Stone, Irwin M., to Baxter Laboratories, Inc. Chillproofing fermented malt beverages. 3,749,582, 7-31-73, Cl. 99-48.000.

Stone, Irwin M., to Baxter Laboratories, Inc. Chillproofing of fermented malt beverages. 3,770,454, 11-6-73, Cl. 426-12.000.

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Stone, James M., Jr. Mole exterminator. 3,736,692, 6-5-73, Cl. 43-77.000.

Stone, James N., to Continental Can Company, Inc. Process for preparing metal salts of tall oil. 3,719,654, 3-6-73, Cl. 260-97.500.

Stone, James S., to Sanitary Disposal Systems, Inc. Domestic sewage treatment plant. 3,731,812, 5-8-73, Cl. 210-199.000.

Stone, James S., to Collins Radio Company. Electrical fault monitoring with memory. 3,746,981, 7-17-73, Cl. 324-73.00r.

Stone, John G., to Parker-Hannifin Corporation. Sealing ring with retaining means. 3,746,348, 7-17-73, Cl. 277-11.000.

Stone, John M., to Copolymer Rubber & Chemical Corporation. Method and apparatus for controlling reaction rate. 3,730,928, 5-1-73, Cl. 260-29.70r.

Stone, Joseph J., to Dick, A. B., Company. Ink jet printing system using ion charging of droplets. 3,769,627, 10-30-73, Cl. 346-75.000.

Stone, Joseph S.: *See—*
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Stone, Julian; and Walrafen, George Edouard, to Bell Telephone Laboratories, Incorporated. Method utilizing an optical fiber raman cell. 3,770,350, 11-6-73, Cl. 356-75.000.

Stone, Kenneth F., to United States of America, Atomic Energy Commission. High current cable engagement tool. 3,777,348, 12-11-73, Cl. 29-203.00p.

Stone, Louis Earl; and Romano, Roberto, to Texas Instruments, Incorporated. Sliding furnace boat apparatus. 3,747,562, 7-24-73, Cl. 118-415.000.

Stone, Morris Denor, to Wean United, Inc. Control system and method for concurrent automatic gage and crown control of a rolling mill. 3,714,805, 2-6-73, Cl. 72-8.000.

Stone, Morris Denor, to Wean United Inc. Centrifugal casting of bimetal rolls. 3,754,593, 8-28-73, Cl. 164-95.000.

Stone, Norman L. Cabinets and kits for making same. 3,748,009, 7-24-73, Cl. 312-263.000.

Stone, Orison W., to Jones, R. A., & Company, Inc. Viewing window in carton with pill package inserter. 3,756,384, 9-4-73, Cl. 206-42.000.

Stone, Orison W., 14% to Schovee, John R. and 6% to Boston, Thomas R. Multi-container carrier carton. 3,760,978, 9-25-73, Cl. 220-115.000.

Stone, Raymond E.; and Wing, Aubrey E., to Industrial Construction Co., Inc. Control system for a waste wood burner. 3,730,114, 5-1-73, Cl. 110-18.00r.

Stone, Richard F.: *See—*
Madigan, Thomas S.; Stone, Richard F.; Dunn, David C.; Holzer, William F.; and Sweet, Robert H., 3,728,025.

Stone, Richard S.; Sullivan Donald L.; and Von Thuna, Peter C., to Little, Arthur D., Inc. Motion stabilized gravity gradiometer. 3,727,462, 4-17-73, Cl. 73-382.000.

Stone, Robert F., to General Electric Company. Narrow band television system. 3,769,452, 10-30-73, Cl. 178-6.000.

Stone, Roger Geoffrey, to Apt Controls Limited. Fee computing systems. 3,729,617, 4-24-73, Cl. 235-61.70r.

Stone, Thomas W., to Franklin Electric Co., Inc., mesne. Bearing support and oil retainer for dynamo-electric machines. 3,728,563, 4-17-73, Cl. 310-90.000.

Stone, Wayne B., Jr.: *See—*
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Stone, Wayne B., Jr. Torque limiting threaded fastener. 3,709,087, 1-9-73, Cl. 85-61.000.

Stone, Wilfred S.: *See—*
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Stone, Wilfred S.; and Walker, Robert L., to Stone, Wilfred S. Illuminatable crystal assembly. 3,754,130, 8-21-73, Cl. 240-6.430.

Stoneback, David N.: *See—*
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Stoneburner, George Robert: *See—*
Joyce, Ronald Stone; and Stoneburner, George Robert, 3,748,829.

Stoneburner, Jerry L. Hot coil rack. 3,724,675, 4-3-73, Cl. 211-13.000.

Stoneburner, Jerry L. Ingot carrying vehicle. 3,744,839, 7-10-73, Cl. 296-1.00r.

Stoneburner, Jerry L. Ingot carrying trailer. 3,751,102, 8-7-73, Cl. 296-3.000.

Stonefelt, Ronald D.: *See—*
Hatcher, Arthur L., Jr.; and Stonefelt, Ronald D., 3,717,516.

Stoneham, Jeffrey R.: *See—*
Dierks, James J.; and Stoneham, Jeffrey R., 3,736,015.
Kamp, Leonard F.; and Stoneham, Jeffrey R., 3,780,632.
Poweska, Joseph V.; and Stoneham, Jeffrey R., 3,780,283.

Stoneham, Jeffrey R.; and Adams, Benjamin B., III, to Eastman Kodak Company. Apparatus for receiving a battery holder. 3,742,832, 7-3-73, Cl. 95-11.00r.

Stoneham, Jeffrey R., to Eastman Kodak Company. Film metering mechanism for cameras. 3,757,658, 9-11-73, Cl. 95-31.0fm.

Stonehocker, Van Tassel: *See—*
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Stoneman, William C.: *See—*
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Stoner, Elizabeth J. Eye glasses. 3,773,407, 11-20-73, Cl. 351-41.000.

Stoner, Glenn E., to Research Corporation. Electrochemical inactivation of pathogens. 3,725,226, 4-3-73, Cl. 204-149.000.

Stonestrom, Donald M., to ICI America Inc. Sensor-detonator module. 3,742,858, 7-3-73, Cl. 102-70.20r.

Stonham, Frederick Ryan. Ignition support system. 3,780,343, 12-18-73, Cl. 315-211.000.

Stonner, Alfred; Schneider, August; and Konig, Wolfgang. Apparatus for the measurement of dust content in a gas stream. 3,771,472, 11-13-73, Cl. 110-101.00r.

Stoody Company: *See—*
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Stookey, Kenneth W., to Torrax Systems, Inc. Tap system for molten materials. 3,741,136, 6-26-73, Cl. 110-165.00r.

Stookey, Lawrence L.; Conetta, Aldo; and Zehnder, Hans. Automated determination of milkfat in milk. 3,746,511, 7-17-73, Cl. 23-231.000.
Stookey, Lawrence L., to Hach Chemical Company. Ferroin reagent and method of making same. 3,770,735, 11-6-73, Cl. 260-248.0as.
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Stoppard, William E.: *See—*
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Stoppard, William E., to Leesona Corporation. Strand handling apparatus and method. 3,708,134, 1-2-73, Cl. 242-18.00r.
Stopper, Herbert, to Burroughs Corporation. Logic circuit using a current switch to compensate for signal deterioration. 3,746,885, 7-17-73, Cl. 307-218.000.
Stora, Guy Daniel: *See—*
Caruel, Jacques Emile Jules; Cantaloube, Bernard Andre; Stora, Guy Daniel; Bedue, Jean Robert; Gastebois, Philippe Marc Denis; and Guillevere, Herve Alain, 3,757,522.
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Carpentier, Anthony L.; and Rodriguez, Juan A., 3,744,023.
Laatt, Richard G.; and Rodriguez, Juan A., 3,731,208.
Olmsted, Dennis R., 3,777,074.
Storch, Bernard. Safety fence. 3,733,054, 5-15-73, Cl. 256-59.000.
Storch, Robert H. Transfer mechanism. 3,754,667, 8-28-73, Cl. 214-1.0bb.
Storck, Eckhard; and Ost, Joachim, to Siemens Aktiengesellschaft. Holographic alignment system. 3,723,012, 3-27-73, Cl. 356-152.000.
Storck, Harold A. Omniological filter and process. 3,723,304, 3-27-73, Cl. 210-11.000.
Storck, Herder; and Erhard, Werner, to Koppers-Wistra-Ofenbau Gesellschaft mit beschrankter Haftung. Walking beam furnace. 3,722,865, 3-27-73, Cl. 198-313.000.
Stord Bartz Industri A/S: *See—*
Onarheim, Thor; and Solberg, Per, 3,769,900.
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Store, Elsa. Suspension clip for textiles or the like. 3,737,943, 6-12-73, Cl. 16-87.200.
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Storer, John E., Jr., to General Motors Corporation. Friction drive establishing device clearance control mechanism. 3,747,729, 7-24-73, Cl. 192-70.280.
Storey Brothers and Company Limited: *See—*
Fenton, Sidney Desmond, 3,774,968.
Fenton, Sydney Desmond, 3,770,318.
Storey, Edwin C.: *See—*
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Storey, James S., 1/2 to Berger, Phill. Securing device for two-wheeled vehicles. 3,766,757, 10-23-73, Cl. 70-18.000.
Storey, Owen, to Societe Industrielle d'Electronique et d'Informatique. Ionization-type flow meter. 3,750,469, 8-7-73, Cl. 73-194.00f.
Storey, William Arthur. Pulse capture unit and apparatus for controlling the blending of two flowable substances. 3,777,935, 12-11-73, Cl. 222-16.000.
Storey, William H., Jr.; and Montalvo, Daniel A., to United States of America, Army, mesne. Sample spinning cell for NMR of flowing systems. 3,746,971, 7-17-73, Cl. 324-.50r.
Storfer, Stanley T., to Esso Production Research Company. Chemically modified organic polymers. 3,741,894, 6-26-73, Cl. 252-8.50c.
Stork Amsterdam N.V.: *See—*
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Anselrode, Lodewijk, 3,772,055.
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Smorenburg, Johannes Jacobus, 3,751,544.
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Winter, Werner; Thiel, Max; Stach, Kurt; Schmidt, Felix Helmut; and Stork, Harald, 3,736,334.
Witt, Ernst-Christian; Stach, Kurt; Thiel, Max; Schmidt, Felix Helmut; and Stork, Harald, 3,781,328.
Stork, Harald; and Schmidt, Felix Helmut, to Boehringer Mannheim Gesellschaft mit beschrankter Haftung. Process for the quantitative determination of tri-, di- and monoglycerides. 3,759,793, 9-18-73, Cl. 195-103.50r.
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Dorschner, Oskar; Storkebaum, Christoph; Carduck, Franz Josef; and Janfeld, Johannes, 3,713,590.
Storm, Elmar; Joerg, Hans; and Vogel, Christian, to Ciba-Geigy Corporation. 1-(Alkenylthiocarbonyl)-decahydroquinolines. 3,776,912, 12-4-73, Cl. 260-283.00s.
Storm, Lester F. M., to Sterilizer Control Royalties. Disposable colorimetric indicator device for measuring the concentration of chlorine in water. 3,768,974, 10-30-73, Cl. 23-253.00r.
Storm, Nelson. One wheeled front drive unit. 3,738,440, 6-12-73, Cl. 180-13.000.
Storm Products Company: *See—*
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Storreh, Rolf, to Von Roll AG. Electric current collector shoe. 3,767,868, 10-23-73, Cl. 191-49.000.
Storrs, Bertrand L.; and Hoag, Eric J., to Du Pont de Nemours, E. I., and Company. Reformer catalyst. 3,759,678, 9-18-73, Cl. 48-214.000.
Storti, Giancarlo. Ribbon-type composite sawing device. 3,780,609, 12-25-73, Cl. 83-420.000.
Story, Anne W., to United States of America, National Aeronautics and Space Administration. System for indicating direction of intruder aircraft. 3,708,671, 1-2-73, Cl. 250-209.000.
Story, Anne W., to United States of America, National Aeronautics and Space Administration. Display system. 3,714,624, 1-30-73, Cl. 340-27.00r.
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Teumac, Fred N.; and Cline, Charles D., 3,753,941.
Story, Eugene. Marine transportation analysis computation. 3,711,862, 1-16-73, Cl. 444-1.000.
Story, Kenneth E.: *See—*
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Story, Laurence A., to SCM (Canada) Ltd. Vacuum coating apparatus. 3,745,971, 7-17-73, Cl. 118-50.000.
Story, Laurence A., to SCM (Canada) Ltd. Anti-stain treatment for lumber in transit. 3,756,850, 9-4-73, Cl. 117-147.000.
Story, Laurence A., to SCM (Canada) Ltd. Composition for anti-stain treatment for lumber in transit. 3,756,975, 9-4-73, Cl. 260-29.60r.
Story, Paul H., to Research Corporation. Method for macrocylic lactones. 3,776,926, 12-4-73, Cl. 260-343.000.
Story, Paul R.; and Busch, Peter, to Story Chemical Corporation. Method of preparing tricyclohexylidene peroxide. 3,781,303, 12-25-73, Cl. 260-338.000.
Story, Thomas A.; and Cadou, Peter B., to General Motors Corporation. Track roller assembly. 3,773,393, 11-20-73, Cl. 305-14.000.
Story, William K., to Plasteel Industries Incorporated, mesne. Integrated reinforced plastic unit and method and apparatus for making the same. 3,710,733, 1-16-73, Cl. 108-51.000.
Storz, Gunther, to Schering Corporation. Flocculated pharmaceutical suspensions. 3,733,408, 5-15-73, Cl. 424-243.000.
Storz, Peter, to Bosch, Robert, G.m.b.H. D-C power supply system fed from an A-C generator. 3,771,045, 11-6-73, Cl. 322-28.000.
Stosberg, Herbert; Fleischmann, Horst; Reinhards, Gunter; and Engels, Siegfried, to Tente-Rollen Gesellschaft mit beschrankter Haftung Companie. Swivel castors, particularly for shopping trolleys. 3,751,757, 8-14-73, Cl. 16-35.000.
Stosberg, Herbert; Reinhards, Gunter; Engels, Siegfried; and Sauer, Hans-Jurgen, to Firm Tente-Rollen Gesellschaft mit beschrankter Haftung Compagnie. Castors, particularly in the form of swivel castors. 3,772,733, 11-20-73, Cl. 16-35.000.
Stotesbery, Gerald L. Protective device for snowmobiles. 3,743,316, 7-3-73, Cl. 280-150.000.



Stothart, David C., to Gulf Research & Development Company. Digital encoder for mechanical counters. 3,721,806, 3-20-73, Cl. 235-61.0pd.
Stothart, David C., to Gulf Research & Development Company. Incremental rotational drive. 3,747,848, 7-24-73, Cl. 235-94.00r.
Stothert & Pitt Limited: *See—*
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Stott, Barbara A.; and Sbrocca, Dino A., to United States of America, Navy. Plastic-bonded explosive compositions and the preparation thereof. 3,728,170, 4-17-73, Cl. 149-19.000.
Stott, Ronald A., to General Electric Company. Non-rectifying composite contact for semiconductor devices. 3,715,234, 2-6-73, Cl. 117-217.000.
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Stott, Thomas H. Optical display. 3,735,113, 5-22-73, Cl. 240-6.40g.
Stotz, Erich, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Wheel suspension for individually suspended vehicle wheels. 3,771,813, 11-13-73, Cl. 280-124.00a.
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Stout, David J.: *See—*
Kennedy, C. Trowbridge; Stout, David J.; and Dodds, Harold E., Jr., 3,779,799.
Stout, Don R.; and Klein, Jorge, to Case, J. I., Company. Earth working implement. 3,720,338, 3-13-73, Cl. 214-776.000.
Stout, Gilbert T.: *See—*
Krause, Walter J.; and Stout, Gilbert T., 3,708,042.
Stout, Gilbert T., to Bendix Corporation, The. Friction disc for disc brake. 3,747,712, 7-24-73, Cl. 188-73.200.
Stout, James T., to Mead Corporation, The. Article carrier. 3,757,991, 9-11-73, Cl. 220-113.000.
Stout, John C., to Irrigation Accessories Co. Spigot member for bell and spigot joint in irrigation pipe. 3,752,505, 8-14-73, Cl. 285-5.000.
Stout, Lilburn G.: *See—*
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Stout, Lilburn G., Jr.; Butler, Robert F.; and Smith, Thomas S., to United States of America, Navy. Electronic ignition delay for 5""/38 and 5""/54 rocket assisted projectiles. 3,713,391, 1-30-73, Cl. 102-70.20a.
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Stout, Robert K. Method for making cast-in-place concrete structures. 3,728,838, 4-24-73, Cl. 52-742.000.
Stout, Roy F.: *See—*
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Stout, Thomas C.; and Kaiser, Andrew J., to Brunswick Corporation. Apparatus for providing composite sheathed element. 3,754,697, 8-28-73, Cl. 228-17.000.
Stout, Thomas M.; Smith, Edward J.; and Hiestand, John H., to Bunker-Ramo Corporation, The. Computer control of parallel paper mill refiners for controlling the freeness of stock by controlling the stock temperature rise through each refiner. 3,711,687, 1-6-73, Cl. 235-151.100.
Stout, Thomas M.; Smith, Edward J.; and Hiestand, John H., to Bunker-Ramo Corporation, The. Computer control of paper machine in which basis weight is controlled through control of stock flow. 3,711,688, 1-16-73, Cl. 235-151.100.
Stout, William A., to Portco Corporation. Irrigation connection. 3,734,545, 5-22-73, Cl. 285-5.000.
Stoutenberg, Carl C.: *See—*
Ketchpel, Paul A., Jr.; Stoutenberg, Carl C.; and Johnson, Edward J., 3,774,302.
Stoutenberg, Carl Christian, to Stanley Works, The. Drill guide. 3,775,020, 11-27-73, Cl. 408-115.000.
Stoutmeyer, Ronald G., to United States of America, Navy. Ultrasonic angle measurement system. 3,777,305, 12-4-73, Cl. 340-16.00r.
Stover, Harris A., to Collins Radio Company. Secondary phase modulated communications service via AM broadcast stations. 3,714,375, 1-30-73, Cl. 179-2.00e.
Stover, Harris A., to Collins Radio Company. ILS receiver for aircraft with distortion warning or elimination. 3,716,864, 2-13-73, Cl. 343-108.00r.
Stover, Harris A., to Collins Radio Company. Wide band multiplexing system. 3,718,766, 2-27-73, Cl. 179-15.0bm.
Stover, Harris A., to Collins Radio Company. False VOR bearing indication monitor. 3,718,928, 2-27-73, Cl. 343-106.00r.
Stover, Harris A., to Collins Radio Company. VOR receiver immune to false bearing indication stemming from adjacent channel modulation components. 3,739,284, 6-12-73, Cl. 325-468.000.
Stover, Harris A., to Collins Radio Company. Detector of false VOR direction indication. 3,745,465, 7-10-73, Cl. 325-363.000.
Stover, Harris A., to Collins Radio Company. Self-monitoring of radio receivers. 3,755,741, 8-28-73, Cl. 325-363.000.
Stover, Harris A., to Collins Radio Company. Digital means for improving the signal to noise ratio of repetitive morse code-type signals. 3,757,226, 9-4-73, Cl. 325-323.000.
Stover, Harris A., to Collins Radio Company. Code transmission system. 3,772,597, 11-13-73, Cl. 325-38.00r.
Stover, Harris A., to Collins Radio Company. Means for extending the identification range of radio equipments using repetitive coded identification signals. 3,780,279, 12-18-73, Cl. 235-164.000.
Stover, Jordan H., III, to Rockford Screw Products Company. Self-locking bolt. 3,763,909, 10-9-73, Cl. 151-14.00r.
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Stovers, Bessie T.; and Ehnert, Richard E. Newspaper vending machine. 3,749,281, 7-21-73, Cl. 221-2.980.
Stow, Robert H.; and Groff, Gaylord L., to Minnesota Mining and Manufacturing Company. Small-particle-loaded electrically conductive adhesive tape. 3,762,946, 10-2-73, Cl. 117-227.000.
Stow, Robert H., to Minnesota Mining and Manufacturing Company. Tape. 3,778,306, 12-11-73, Cl. 117-226.000.
Stowasser, William P.; and Miller, Keith A., to Air Products and Chemicals, Inc. Water cooling method and apparatus. 3,771,718, 11-13-73, Cl. 239-133.000.
Stowe, Gordon N.: *See—*
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Stoy, Arthur, to Ceskoslovenska akademie ved. Polymers containing silver and copper derived from cyano and sulfonic containing monomers. 3,734,897, 5-22-73, Cl. 260-79.3mu.
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Stoy, Artur, to Ceskoslovenska akademie ved. Porous hydrogels and method of manufacturing same. 3,709,842, 1-9-73, Cl. 260-2.50r.
Stoy, Artur; and Urbanova, Renata, to Ceskoslovenska akademie ved. Method of protecting glass against fogging. 3,779,792, 12-18-73, Cl. 117-72.000.
Stoy, Franz, to Metabowerke KG Closs, Rauch & Schnizler. Method and apparatus for treating of workpieces. 3,755,969, 9-4-73, Cl. 51-32.000.
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Strabruken AB: *See—*
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Stracek, Robert J., to Chemetron Corporation. Electrical grounding system. 3,714,517, 1-30-73, Cl. 317-123.000.
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Swordy, Robert; and Herring, William Peter, 3,738,268.
Taig, Alistair Gordon, 3,760,723.
Strachan, Richard W., to Texas Instruments, Incorporated. Motor control system. 3,737,752, 6-5-73, Cl. 318-471.000.
Strachan, Richard W., to Texas Instruments, Incorporated. Apparatus for controlling the energization of a load. 3,740,613, 6-19-73, Cl. 317-13.00c.
Strack, Friedhelm; Keuper, Erich; and Frenken, Klaus, to Mannesmann Aktiengesellschaft. Mold for continuous casting of slab ingots. 3,717,197, 2-20-73, Cl. 164-273.000.
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Strack, Hans A., to Ford Motor Company. Method of making a composite brake drum. 3,744,600, 7-10-73, Cl. 188-218.xl.
Strack, Hans A., to Ford Motor Company. Composite brake drum. 3,744,601, 7-10-73, Cl. 188-218.xl.
Strack, Hans A., to Ford Motor Company. Composite brake drum. 3,744,602, 7-10-73, Cl. 188-218.xl.
Strack, Hans A., to Ford Motor Company. Composite brake drum. 3,744,603, 7-10-73, Cl. 188-218.xl.
Strack, Hans A., to Ford Motor Company. Composite brake drum. 3,744,604, 7-10-73, Cl. 188-218.xl.
Strack, Hans A., to Ford Motor Company. Composite brake drum. 3,744,605, 7-10-73, Cl. 188-218.xl.
Strack, Hans A., to Ford Motor Company. Composite brake drum. 3,744,606, 7-10-73, Cl. 188-218.xl.
Strack, Hans A., to Ford Motor Company. Composite brake drum. 3,744,607, 7-10-73, Cl. 188-218.xl.
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Strack, Hans A., to Ford Motor Company. Composite brake drum. 3,744,618, 7-10-73, Cl. 188-218.xl.
Strack, Hans A., to Ford Motor Company. Composite brake drum. 3,744,619, 7-10-73, Cl. 188-218.xl.
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Strack, Hans A., to Ford Motor Company. Composite brake drum. 3,744,621, 7-10-73, Cl. 188-218.xl.
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Strack, Hans A., to Ford Motor Company. Composite brake drum. 3,744,623, 7-10-73, Cl. 188-218.xl.
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Strack, Hans A., to Ford Motor Company. Composite brake drum. 3,744,720, 7-10-73, Cl. 188-218.xl.
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Strack, Hans A., to Ford Motor Company. Composite brake drum. 3,744,723, 7-10-73, Cl. 188-218.xl.
Strack, Hans A., to Ford Motor Company. Composite brake drum. 3,744,724, 7-10-73, Cl. 188-218.xl.
Strack, Hans A., to Ford Motor Company. Composite brake drum. 3,744,725, 7-10-73, Cl. 188-218.xl.

Cox, Ronald H.; and Strack, Hans A., 3,765,880.
Stracke, Fred H.; and Mascenik, John, to Esso Research and Engineering Company. Cargo transfer system for a floating storage vessel and offtaker moored in tandem. 3,766,938, 10-23-73, Cl. 137-355.160.
Strader, George C.: *See—*
Goldfarb, Adolph E.; and Strader, George C., 3,721,442.
Strader, George C.; and Goldfarb, Adolph E., to Mattel, Inc. Game apparatus. 3,708,168, 1-2-73, Cl. 273-1.00r.
Strader, James W., to Strader, Jim, Capt., Inc. Fishing lure. 3,757,455, 9-11-73, Cl. 43-42.140.
Strader, Jim, Capt., Inc.: *See—*
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Stradley, James G.; and Sease, John D., to United States of America, Atomic Energy Commission. Manufacture of bonded-particle nuclear fuel composites. 3,763,292, 10-2-73, Cl. 264-.500.
Stradley, Norman H.; and Dunegan, Harry C., to American Lava Corporation. Refractory articles and method of manufacture. 3,717,497, 2-20-73, Cl. 117-169.00r.
Straight, David M., to United States of America, National Aeronautics and Space Administration. Gas turbine exhaust nozzle. 3,780,827, 12-25-73, Cl. 181-43.000.
Straight, Frank W. Flintlock mechanism. 3,744,169, 7-10-73, Cl. 42-69.00r.
Strain, Franklin: *See—*
Hess, Roland H.; Hoekje, Howard H.; Creasey, Jack R.; and Strain, Franklin, 3,768,537.
Strain, Robert Allen, to International Telephone and Telegraph Corporation. Waterproof high voltage connection apparatus. 3,725,846, 4-3-73, Cl. 339-61.00r.
Strain, William E. Flexible coupling. 3,733,066, 5-15-73, Cl. 267-148.000.
Strait, Bernard S., Jr.: *See—*
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Straitwell, Harold L., Jr. Board game apparatus. 3,759,520, 9-18-73, Cl. 273-134.0ad.
Straitz, John F., III, to Combustion Unlimited, Incorporated. Vent seal. 3,730,673, 5-1-73, Cl. 431-278.000.
Strak, Michael G.: *See—*
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Straka, Emil R., to Varian Associates. Method for fabrication of precision miniature glass circuits. 3,771,983, 11-13-73, Cl. 65-31.000.
Strakosch, C. Philip: *See—*
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Weaver, Max A.; Wallace, David J.; and Straley, James M., 3,772,362.
Straley, James M.; and Wallace, David J., to Eastman Kodak Company. Phenyl-azo-naphthal compounds. 3,737,424, 6-5-73, Cl. 260-204.000.
Stranahan, John J.; and Hollier, John C. L., to Texaco Inc. Smokeless gas flare with specific gravity gas analyzer for reducing noise. 3,771,940, 11-13-73, Cl. 431-4.000.
Stranberg Engineering Laboratories, Inc.: *See—*
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Stranch, James G.: *See—*
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Strand, Jack W. Tick-tack-toe-like light game with color changeable squares. 3,778,063, 12-11-73, Cl. 273-130.0ab.
Strand, Leon D.: *See—*
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Strand, Lewis. Lifting yoke for transport containers. 3,712,661, 1-23-73, Cl. 294-67.0da.
Strand, Robert C.; Marion, Donald L.; and Anderson, Dennis G., to Sinclair Oil Corporation. Graft polymers of low molecular weight styrene-maleic anhydride resins and heterocyclic compounds and water-soluble salts thereof. 3,766,113, 10-16-73, Cl. 260-28.5r.
Strand, Walter L. Safety stabilizer and shock absorber system. 3,779,535, 12-18-73, Cl. 267-64.000.
Strandberg, Bengt Sigurd Lennart; and Strandberg, Maj, to Hiab-Foco Aktiengesellschaft. Loading tool having a loading fork. 3,709,394, 1-9-73, Cl. 214-750.000.
Strandberg, Charles F., Jr.; Strandberg, Robert C.; and Gee, James M., to Stranberg Engineering Laboratories, Inc. Automatic thread counter and controller for fabric processing apparatus. 3,721,809, 3-20-73, Cl. 235-92.0pd.
Strandberg, Charles F., Jr.; and Strandberg, Robert C., to Strandberg Engineering Laboratories, Inc. Moisture measuring and control apparatus. 3,732,435, 5-8-73, Cl. 307-118.000.
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Strande, Carl S. Device for taking samples of the contents of capillary tubes. 3,763,705, 10-9-73, Cl. 73-423.00a.
Strandell, Per-Olof; and Ridderstrale, Carl-Erik, to HJO Mekaniska Verkstak K&V Smedberg. Arrangement in and relating to high speed impact cold planar flow shearing appratus. 3,735,656, 5-29-73, Cl. 83-198.000.
Strandell, Per-Olof. Punching apparatus. 3,777,601, 12-11-73, Cl. 83-160.000.
Strandine, Eldon J.: *See—*
Hartman, Robert H.; and Strandine, Eldon J., 3,709,699.
Strandskov, Frede B., to Schaefer, F. & M., Brewing Co., The. Preservation of beer. 3,751,264, 8-7-73, Cl. 99-48.000.
Strandskov, Frede B.; and Ziliotto, Henry L., to Schaefer, F. & M., Brewing Co., The. Preservation of beer. 3,764,342, 10-9-73, Cl. 426-151.000.
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Strang, Aart; and Robinson, Isaac C. H., to Shell Oil Company. Hydrocarbon fuel compositions. 3,753,670, 8-21-73, Cl. 44-72.000.
Strang, Donald E. Saddle horn wrap. 3,707,827, 1-2-73, Cl. 54-46.000.
Strang, Elmer J.; and Scott, Ray A., to Coats Company, Inc., The. Tire bead seating and inflating apparatus. 3,736,975, 6-5-73, Cl. 157-1.100.
Strang, Herman D. Eggshell opener. 3,721,180, 3-20-73, Cl. 99-571.000.
Strang, William John; and Goldsmith, Hugh Arthur, to British Aircraft Corporation. Propulsion power plant for aircraft. 3,765,179, 10-16-73, Cl. 60-262.000.
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Strange, John P.; Freilino, Ray S.; and McConnaughey, Paul W., to Mine Safety Appliances Company. Determination of crystalline silica and other material dusts in air. 3,736,421, 5-29-73, Cl. 250-43.50r.
Stranger, Donald Arthur; Yates, Frank; and Senior, Jack, to R. W. Transmissions Limited. Worm gears. 3,710,640, 1-16-73, Cl. 74-425.000.
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Stranicky, Fedor. Flexible respirator with inflatable frame. 3,750,665, 8-7-73, Cl. 128-146.600.
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Strantz, Chester L.: *See—*
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Strashok, Donald T., to Amoco Production Company. Flare windshield. 3,729,287, 4-24-73, Cl. 431-202.000.
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Straslicka, William A., to Carrier Corporation. Steam turbine governor valve actuating mechanism. 3,768,776, 10-30-73, Cl. 251-231.000.
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Strassle, Marcel Rudolf. Building construction. 3,715,849, 2-13-73, Cl. 52-646.000.
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Strathaman, Lyle R., to Collins Radio Company. Cathode ray tube stroke writing using digital techniques. 3,775,760, 11-27-73, Cl. 340-324.00a.
Strathaus, John. Roasting pan. 3,777,654, 12-11-73, Cl. 99-419.000.
Stratman, Jerome F.; and Novak, John, to Tappan Company, The. Trash compactor. 3,741,108, 6-26-73, Cl. 100-229.00a.
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Stratta, Julius J.; Frank, Carl W.; and Barrere, John A., Jr., to Union Carbide Corporation. Drag reducing formulations. 3,736,288, 5-29-73, Cl. 260-33.40r.
Stratton, Andrew, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Air traffic control systems. 3,742,503, 6-26-73, Cl. 343-112.0tc.
Stratton, Craig A. Airplane kite. 3,758,057, 9-11-73, Cl. 244-154.000.
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Strauss, Edmar; Foth, Seigfried; and Kaltschmidt, Hans-Jurgen, to Licentia Patent-Verwaltungs-G.m.b.H. Insulated coils for electrical machines. 3,758,706, 9-11-73, Cl. 174-120.0sr.
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Strimel, Robert S., to Tinius Olsen Testing Machine Co., Inc. Extensometer. 3,776,030, 12-4-73, Cl. 73-93.000.
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Stringer, Myron Scott; Smith, Daniel W.; Mac Ivergan, Robert G.; and Eldenbaum, Robert W., to Kellwood Company. Folding apparatus. 3,750,916, 8-7-73, Cl. 223-37.000.
Stringer, Peter Jack Eldon Crawford; Knight, Richard Langhiam Castle; and Wayne, Donald Gordon, to Consolidated Paper (Bahamas) Limited. Paper machine tension tester. 3,718,037, 2-27-73, Cl. 73-144.000.
Stringer, Robert Kenneth; McKinnon, Neil Alexander; and Williams, Lloyd Stuart. Molybdenum silicide bonded boron carbide. 3,772,042, 11-13-73, Cl. 106-43.000.
Stringham, Robert R.; and Taplin, William H., III, to Dow Chemical Company, The. Alkali metal/sulfur battery having a cathodic current collector coated with molybdenum disulfide. 3,749,603, 7-31-73, Cl. 136-6.000.
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Stripling, William W.; and Hunter, Joe S., to United States of America, Army. Linear scanning seeker with single axis rotation. 3,752,998, 8-14-73, Cl. 250-234.000.
Strippoli, Francois; and Combet, Guy, to Merlin Gerin, Societe Anonyme. Pressure equalization means between compartments in a puffer circuit interrupter. 3,733,452, 5-15-73, Cl. 200-148.00a.
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Strnad, Emil. Oxy-acetylene cutting torch-holder and guide. 3,713,635, 1-30-73, Cl. 266-23.0hh.
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Strobel, Albert, to ITE Imperial Corporation. Multi-pole latch system having means to defeat single pole latching. 3,742,401, 6-26-73, Cl. 335-9.000.
Strobel, Albert, to I-T-E Imperial Corporation. Auxiliary mechanism for operating handle of circuit breaker. 3,752,947, 8-14-73, Cl. 200-172.00a.
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Strobel, Albert, to I-T-E Imperial Corporation. Interpole trip system for multi-pole circuit breaker. 3,771,081, 11-6-73, Cl. 335-9.000.
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Strobel, Rudolf G.K.; and Smith, James P., to Procter & Gamble Company, The. Process for the treatment of unchlorinated cake flour. 3,711,297, 1-16-73, Cl. 99-93.000.
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Strobl, Gustav Lorenz. Bulletproof baffle arrangement. 3,749,028, 7-31-73, Cl. 109-58.500.
Stroble, Howard G., to National Cash Register Company, The. Couplet transparency manufacturing process. 3,708,323, 1-2-73, Cl. 117-36.700.
Strocker, Gunter, to Schade, Gustav, Maschinenfabrik. Device for removing bulk material from storage. 3,708,056, 1-2-73, Cl. 198-36.000.
Stroehhmer, Frank J. Thematically illustrated icosahedron assemblage and method of assembly. 3,728,201, 4-17-73, Cl. 161-14.000.
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Stroh, Alvin L. Adjustable shelving structure. 3,730,108, 5-1-73, Cl. 108-10.000.
Stroh, Bernhard, to Cordeurop Establishment Vaduz. Non-rotating rope with spiral strands. 3,729,921, 5-1-73, Cl. 57-145.000.
Stroh, Emerson L. Filling device for use with liquids. 3,732,125, 5-8-73, Cl. 136-162.000.
Stroh, Robert Roy, to Burroughs Corporation. Terminal alignment and connection device for conductors of a multiconductor cable. 3,710,481, 1-16-73, Cl. 29-203.00b.
Strohecker, John W., to United States of America, Atomic Energy Commission. Apparatus for removing oil and other floating contaminants from a moving body of water. 3,779,385, 12-18-73, Cl. 210-154.000.
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Stroke, George Wilhelm. Storage and reconstitution of microphotographic images. 3,772,976, 11-20-73, Cl. 95-36.000.
Strole, John C.; Szerenyi, Laszlo I.; and Moreines, Harold, to Bendix Corporation, The. Three wire digital synchronizer. 3,740,653, 6-19-73, Cl. 328-150.000.
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Strom, Sven B., to American Pulverizer Company. Grate for reduction mill. 3,722,805, 3-27-73, Cl. 241-73.000.
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Stromblad, Ingemar; and Hogland, Rolf, to Allmanna Svenska Elektriska Aktiebolaget. Method of manufacturing copper tubes by means of hydrostatic extrusion and press equipment for carrying out the method. 3,774,431, 11-27-73, Cl. 72-60.000.
Stromer, Joseph R., to General Motors Corporation. Shock absorber with welded piston. 3,724,615, 4-3-73, Cl. 188-322.000.
Stromin, Boris Alexandrovich; and Baranov, Boris Konstantinovich. Method for control of a brushless motor. 3,780,362, 12-18-73, Cl. 318-254.000.
Strommer, Palmer K., to General Mills, Inc. Continuously puffing finely-divided particulate food materials utilizing opposing steam forces. 3,730,729, 5-1-73, Cl. 99-26.000.
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Strommer, Palmer K., to General Mills, Inc. Method of texturizing protein. 3,778,522, 12-11-73, Cl. 426-511.000.
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Strong, Jerry G., to Mobil Oil Corporation. 3-(4-Methyl-3-cyclohexenyl)-butyl esters of organic acids. 3,773,824, 11-20-73, Cl. 260-484.00r.
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Strong, Philip L.; Hunter, Don L.; and LeFevre, Cecil W., to United States Borax & Chemical Corporation. Alkoxy trifluoromethylaniline compounds. 3,716,585, 2-13-73, Cl. 260-574.000.
Strong, Philip L.; Hunter, Don L.; and Le Fevre, Cecil W., to United States Borax & Chemical Corporation. N-Substituted-2,6-dinitro-3-(alkoxy or alkylthio)-4-substituted-aniline compounds. 3,764,624, 10-9-73, Cl. 260-574.000.
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Stroterhoff, Howard L., to United States of America, Army. Chemical spot test system. 3,740,196, 6-19-73, Cl. 23-253.0tp.
Stroterhoff, Howard L., to United States of America, Army. Arsenic sampler. 3,741,727, 6-26-73, Cl. 23-230.00r.
Strother, Fred P.; and Blackstone, James O., Jr., to West Point-Pepperell, Inc. Digital pattern control apparatus for textile machinery. 3,722,434, 3-27-73, Cl. 112-79.00a.
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Stroud, Ray D. Container and safty lid therefor. 3,773,204, 11-20-73, Cl. 215-9.000.
Stroud, Stanley G.; and Estes, James D., to N L Industries, Inc. Selective firing indicator and recorder. 3,773,120, 11-20-73, Cl. 175-4.550.
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Strumbos, William P. Multiple heat range spark plug. 3,743,877, 7-3-73, Cl. 313-11.500.
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Stuart, Douglas E., to Simmonds Precision Products, Inc. Fuel management system. 3,739,635, 6-19-73, Cl. 73-194.00m.
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Stuart, Ronald Sangster, to Imperial Chemical Industries Limited. Siloxane-oxyalkylene co-polymers containing si-si bonds. 3,717,665, 2-20-73, Cl. 260-448.20d.
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Stumpf, Robert J., to Kimberly-Clark Corporation. Method of manufacturing high-loft, nonwoven fabric. 3,720,554, 3-13-73, Cl. 156-62.600.
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Sugimura, Nobuyuki. Air pressure actuator. 3,779,135, 12-18-73, Cl. 91-45.000.
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Sumiyoshi, Masaharu; Sakakibara, Shigeru; Ito, Osamu; and Wakamatsu, Hisato, to Toyota Jidosha Kogyo Kabushiki Kaisha and Nippondenso Kabushiki Kaisha. Automatic transmission. 3,710,648, 1-16-73, Cl. 74-731.000.

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Sumiyoshi, Masaharu; Ito, Osamu; and Kato, Takaaki, to Nippondenso Co., Ltd. and Toyota Jidosha Kogyo Kabushiki Kaisha. Constant speed control system for vehicles. 3,766,367, 10-16-73, Cl. 235-150.200.

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Suzuki, Masaru; Sagarieuil, Katumasa; Yoshiikyoto, Toshiya; Saito, Yasuo; Fosayama, Takeo; and Hasimoto, Takeshi, to Toray Industries, Inc. Electrical capacitor. 3,761,772, 9-25-73, Cl. 317-258.000.
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Suzuki, Minoru, to Kabushiki Kaisha Ricoh. Ink supply device for mimeographing machine. 3,749,009, 7-31-73, Cl. 101-22.000.
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Taburinsky, Grigory Semenovich; Kholodenko, Petr Iosifovich; Lisitsyn, Konstantin Mikhailovich; Kinyaev, Boris Alexeevich; Krichevsky, Lev Abramovich; Novozhilov, Nikolai Fedorovich; Sverdlik, Naum Borisovich; and Poplavsky, Vladislav Iosifovich, 3,747,665
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Svetlichny, Oleg, to Geosystems, Inc. Computer-aided laser-based airborne measurement system. 3,741,653, 6-26-73, Cl. 356-141.000.
Svidler, Jury Ruvimovich: *See—*
Sholk, Semen Fedorovich; Svidler, Jury Ruvimovich; Seleznev, Viktor Petrovich; and Komova, Zinaida Petrovna, 3,773,030.
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Swaim, Jessie E.: *See—*
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Swain, Allan L.: *See—*
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Swain, Arthur D.: *See—*
Guthrie, David E.; and Swain, Arthur D., 3,772,501.
Swain, C. Winston; and Dailey, Louis E., Jr., to Dailey Irrigation Co., Inc. Tobacco harvesting. 3,719,293, 3-6-73, Cl. 214-83.100.
Swain, Carl E., to General Electric Company. Insulatingly covered dynamoelectric machine. 3,780,323, 12-18-73, Cl. 310-43.000.
Swain, Kenneth W.: *See—*
DiMarco, Bernard; Kussy, Frank W.; and Swain, Kenneth W., 3,781,607.
Swain, Kenneth W., said Swain assor. to said Chase-Shawmut Company, The and said Klein assor. to said General Electric Company. Polyphase fuse with blown fuse indicator in each phase. 3,764,949, 10-9-73, Cl. 337-244.000.
Swain, William H. Method of making electret transducers. 3,748,727, 7-31-73, Cl. 29-592.000.
Swain, William H. Means for measuring magnitude and direction of a direct current or permanent magnet, including clip-on direct current sensing inductor. 3,768,011, 10-23-73, Cl. 324-117.00r.
Swain, William W.; and Hathaway, Richard A., to Avco Corporation, mesne. Reel-over-reel video tape cartridge and transport apparatus with sliding pivot. 3,781,487, 12-25-73, Cl. 179-100.20z.
Swaisgood, Ralph H., to Storm Products Company. Machine for circumferential color coding wire. 3,766,883, 10-23-73, Cl. 118-44.000.
Swalheim, Donald Arthur: *See—*
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Swalley, Everett L.: *See—*
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Swaminathan, Krishnaiyer: *See—*
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Swan Corporation: *See—*
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Swan, David W., to Minnesota Mining and Manufacturing Company. Photoconductive compositions containing ferrocene-containing aldehyde polymers. 3,751,247, 8-7-73, Cl. 96-1.500.
Swan, David W.; and Duffin, George F., to Minnesota Mining and Manufacturing Company. Azodicarbonamides as photographic bleaching agents. 3,772,018, 11-13-73, Cl. 96-60.00r.
Swan, John C.: *See—*
McLean, Byron R.; Shriner, Donald R.; and Swan, John C., 3,757,084.
Swan, Neil O. Fowl dressing tool. 3,722,033, 3-27-73, Cl. 17-11.000.
Swan-Gett, Clifford S.; Despain, Richard R.; and Jacobsen, Stephen C. Tooth isolating shield. 3,772,790, 11-20-73, Cl. 32-34.000.
Swanberg, Melvin E., to Xerox Corporation. Linear actuator. 3,777,578, 12-11-73, Cl. 74-89.000.
Swander, Kenneth D., Jr.: *See—*
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Swander, Kenneth D., Jr.; and Wilkins, Ronald D., to Certain-Teed Products Corporation. Internal air assisted brake actuator. 3,712,181, 1-23-73, Cl. 92-63.000.



Swander, Kenneth D., Jr., to Certain-Teed Saint Gobain Insulation



Swanson, Harold N., to FMC Corporation. Dirt seal ring for pipe

Swander, Kenneth D., Jr., to Certain-Teed Saint Gobain Insulation Corporation. Double diaphragm brake operator improvements. 3,730,056, 5-1-73, Cl. 92-48.000.

Swaneck, Anthony J., Jr., to Westinghouse Electric Corporation. Air control for fresh food compartment quick chill operation. 3,759,053, 9-18-73, Cl. 62-157.000.

Swanekamp, James E.; and Malloy, John H., to United States of America, Navy. Shielded balanced microwave analog multiplier. 3,737,686, 6-5-73, Cl. 235-194.000.

Swanepoel, Lourens Petrus, to Anglo American Corporation of South Africa Limited. Magnetic sensor for detecting breaks in a steel rope including multiplier for eliminating noise. 3,714,558, 1-30-73, Cl. 324-37.000.

Swaney, C. Barnett, to International Business Machines Corporation. Method adapted for continually updating information on a magnetic tape. 3,740,720, 6-19-73, Cl. 340-172.500.

Swaney, C. William, Jr., to Philco-Ford Corporation. Aluminum brazing. 3,747,199, 7-24-73, Cl. 29-494.000.

Swaney, Larry R.: *See—*
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Swaney, Omer William, Jr., to Philco-Ford Corporation. Treatment of metal articles. 3,768,149, 10-30-73, Cl. 29-527.200.

Swank, George: *See—*
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Swank, Thomas F., to Cabot Corporation. Pigmented resin compositions. 3,770,470, 11-6-73, Cl. 106-193.00j.

Swanke, Raymond R.: *See—*
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Swanke, Roy L.; and Leonard, Robert M., to Dynamics Corporation of America. Method of making a motor stator. 3,768,152, 10-30-73, Cl. 29-596.000.

Swann, Clifford, to Arcata Graphics. Paster control target. 3,771,737, 11-13-73, Cl. 242-58.100.

Swann, David John: *See—*
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Swann, Edwin G., to United States of America, Navy. Method and apparatus for suppression of antiaircraft fire. 3,727,861, 4-17-73, Cl. 244-3.150.

Swann, Hal R., Jr.: *See—*
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Swann, Jimmie R., to Cosden Oil & Chemical Company. Plastic cutting apparatus. 3,735,658, 5-29-73, Cl. 83-433.000.

Swann, Richard C. G.: *See—*
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Swann, Richard C. G.; and Penton, Jack I., to International Telephone and Telegraph Corporation. Production of silicon insulated gate and ion implanted field effect transistor. 3,749,610, 7-31-73, Cl. 148-1.500.

Swanquist, Wesley W., to All-Steel Equipment Inc. Device for attaching electrical boxes to metal studding. 3,730,466, 5-1-73, Cl. 248-216.000.

Swanson, Alfred B. Postoperative lumbrical bar and brace. 3,769,970, 11-6-73, Cl. 128-77.000.

Swanson, Alfred B. Prosthetic joint. 3,772,709, 11-20-73, Cl. 3-1.000.

Swanson, Allen K., to Hamton Engineering Associates Inc. Projector slide advance timer. 3,770,979, 11-6-73, Cl. 307-141.000.

Swanson, Alta S. Brush. 3,760,449, 9-25-73, Cl. 15-206.000.

Swanson, Colin John, to Imperial Smelting Corporation (Alloys) Limited, mesne. Heat-treatment of zinc/aluminium alloys. 3,753,791, 8-21-73, Cl. 148-11.50r.

Swanson, Dale A.; and Blackaby, Wilmur B. Archery target having pressure sensitive score indicating bags. 3,729,197, 4-24-73, Cl. 273-102.20r.

Swanson, David B.; and Miller, Barry S., to Engelhard Minerals & Chemicals Corporation. Pigment for pressure sensitive record material. 3,723,174, 3-27-73, Cl. 117-155.00a.

Swanson, Davis A. Webbing clip. 3,752,209, 8-14-73, Cl. 160-327.000.

Swanson, Donald F.: *See—*
Johnson, Robert E.; Swanson, Donald F.; and Westergren, George A., 3,739,422.

Swanson, Donald F., to Whirlpool Corporation. Harvest auger for ice maker. 3,779,033, 12-18-73, Cl. 62-354.000.

Swanson, Elmer G.; and Hughes, Walter R., to Hoerner-Waldorf Corporation. Dispensing container. 3,756,502, 9-4-73, Cl. 229-51.00d.

Swanson, George J.: *See—*
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Swanson, Glenda A.: *See—*
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Swanson, H. Damon; and Swanson, Glenda A. Organism growth chamber and process. 3,769,936, 11-6-73, Cl. 119-15.000.

Swanson, Harold E. Minnow dipper and holder. 3,753,308, 8-21-73, Cl. 43-4.000.

Swanson, Harold N., to FMC Corporation. Dirt seal ring for pipe swivel joints. 3,727,950, 4-17-73, Cl. 285-13.000.

Swanson, Harold V.: *See—*
Needham, Lyle L.; Shulick, Robert J.; and Swanson, Harold V., 3,726,252.

Swanson, Harold V., to Interpace Corporation. Pipe to manhole seal. 3,759,280, 9-18-73, Cl. 137-363.000.

Swanson, Harry Gustav: *See—*
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Swanson, Harry Roger: *See—*
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Swanson, Ian N.; and Wagner, Wayne M., to Donaldson Company, Inc. Air intake silencer. 3,712,416, 1-23-73, Cl. 181-35.00a.

Swanson, John G., to Westinghouse Electric Corporation. Electronic components having improved ionic stability. 3,710,205, 1-9-73, Cl. 317-234.00r.

Swanson, John J.: *See—*
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Swanson, John W., to Cities Service Oil Company. Electric discharge machining fluid. 3,708,422, 1-2-73, Cl. 252-49.600.

Swanson, Kenneth B.: *See—*
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Swanson, Kermit E., to Donnelley, R. R., & Sons Company. Signature gathering machine with disc separator. 3,768,804, 10-30-73, Cl. 271-101.000.

Swanson, Linwood B., to Cushman Industries, Incorporated. Chuck of high-low operation. 3,730,539, 5-1-73, Cl. 279-4.000.

Swanson, Linwood B., to Cushman Industries, Incorporated. Chuck with centering and compensating jaws. 3,751,053, 8-7-73, Cl. 279-119.000.

Swanson, Morris A.: *See—*
Grgurich, William A.; and Swanson, Morris A., 3,768,248.

Swanson, Philip E.; and Tor, Charles J., to Smith, A. O., Corporation. Temperature compensation of a liquid flowmeter. 3,745,827, 7-17-73, Cl. 73-233.000.

Swanson, Richard Maurice: *See—*
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Swanson, Robert R., to Western Electric Company, Incorporated. Apparatus for straightening axial leaded components. 3,739,819, 6-19-73, Cl. 140-147.000.

Swanson, Roger I., to Dake Corporation. Apparatus for mounting tension indicators. 3,729,988, 5-1-73, Cl. 73-133.000.

Swanstrom, John E., Jr. Tools and machine parts and methods from inverse draft forging. 3,739,664, 6-19-73, Cl. 81-414.000.

Swapceinski, John Peter: *See—*
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Swarbrick, John Atkinson; and Thornbury, Vaclav Puta, to Stanger & Co., Ltd. Fuse links for dropout explosion fuses. 3,735,315, 5-22-73, Cl. 337-290.000.

Swarner, William G.; and Prettyman, Clinton E., to United States of America, Navy. Optical spatial filter for modification of received energy VS range. 3,712,985, 1-23-73, Cl. 250-216.000.

Swart, Jerry E.; and Bennett, Homer Braudice, Jr. Fish hook separating, orientation, feeding and grouping apparatus. 3,774,806, 11-27-73, Cl. 221-162.000.

Swart, Louis Maarten: *See—*
Weijland, Willem Paul; Gerlach, Hans Georg; van den Beld, Antonius Joannes Maria; and Swart, Louis Maarten, 3,751,703.

Swart, Louis Maarten, to U.S. Philips Corporation. Deflection coil system, in particular for a camera tube. 3,774,070, 11-20-73, Cl. 315-27.0xy.

Swarthout, Gerald M. Self-righting fish lure. 3,745,685, 7-17-73, Cl. 43-42.340.

Swarts, James J.: *See—*
Blakey, Alexander G.; Adams, Jack S.; and Swarts, James J., 3,711,929.
Blakey, Alexander G.; Adams, Jack S.; and Swarts, James J., 3,722,360.
Blakey, Alexander G.; Adams, Jack S.; and Swarts, James J., 3,723,927.
Blakey, Alexander G.; Adams, Jack S.; and Swarts, James J., 3,723,928.

Swartwout, Richard J., to Dunham-Bush Inc. Field installed low ambient damper for outdoor rooftop condenser installation. 3,769,810, 11-6-73, Cl. 62-183.000.

Swartz, Clarence J. Bicycle passenger foot support. 3,773,355, 11-20-73, Cl. 280-291.000.

Swartz, Dorian J., to Hyer Hardware Mfg. Company. Push button latch mechanism. 3,737,184, 6-5-73, Cl. 292-170.000.

Swartz, George A. Simulated ball game apparatus. 3,715,124, 2-6-73, Cl. 273-93.00r.

Swartz, George Allan, to RCA Corporation. Semiconductor assembly. 3,753,053, 8-14-73, Cl. 317-234.00r.

Swartz, Henry D., to General Heat Sealing Corporation. Thermoplastic heat sealing apparatus. 3,729,357, 4-24-73, Cl. 156-380.000.





Swartz, Horace M.: *See—*
Rosenberger, Chester A., Jr.; and Swartz, Horace M., 3,714,903.

Swartz, Horace M., to FMC Corporation. Rear trolley dog for power and free push through transfer. 3,726,233, 4-10-73, Cl. 104-172.00s.

Swartz, Horace M., to FMC Corporation. Switching apparatus. 3,769,915, 11-6-73, Cl. 104-172.0bt.

Swartz, Jerome: *See—*
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Swartz, Jerome; and Wilson, Donald K., to Special Optics Inc. System of polarizing optical energy and transmitting the same through media. 3,720,457, 3-13-73, Cl. 350-157.000.

Swartz, Richard L.: *See—*
Dillard, John W.; Tringali, Dominick; Swartz, Richard L.; and Hinson, Ernest M., Jr., 3,767,113.

Swartz, William. Litter container for automobiles. 3,771,754, 11-13-73, Cl. 248-311.000.

Swasey, Joyce A. Laminated structure having a renewable tacky surface. 3,734,816, 5-22-73, Cl. 161-167.000.

Swaters, Pieter D.: *See—*
Havinga, Reginoldus; and Swaters, Pieter D., 3,719,692.

Swaters, Pieter Dirk: *See—*
Havinga, Reginoldus; and Swaters, Pieter Dirk, 3,756,983.

Swatty, Eugene E., to Fluid Controls, Inc. Regenerative rapid stroke reciprocating hydraulic pressure converter. 3,737,254, 6-5-73, Cl. 417-403.000.

Swatty, Eugene E., to Fluid Controls, Inc. Restrictive flow regulating valve and control circuit employing same. 3,780,765, 12-25-73, Cl. 137-613.000.

SWD Co.: *See—*
Walker, Bert A., 3,747,252.

Swearingen, Charles C.; and Sheptak, Nicholas, to Dow Chemical Company, The. Joining of plastic/metal foil laminates. 3,762,028, 10-2-73, Cl. 29-470.100.

Swearingen, Charles C.; and Sheptak, Nicolas, to Dow Chemical Company, The. Cable shielding tape. 3,770,570, 11-6-73, Cl. 161-216.000.

Swearingen, Dean E. Hydraulic corrosion monitoring coupon injector. 3,718,034, 2-27-73, Cl. 73-86.000.

Swearingen, Judson S. Cryogenic process. 3,747,358, 7-24-73, Cl. 62-12.000.

Sweat, James C.: *See—*
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Sweeney, David F., to Singer Company, The. Printer carrier drive. 3,757,922, 9-11-73, Cl. 197-49.000.

Sweeney, Donald E., Jr.: *See—*
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Sweeney, Donald E., Jr., to Texaco Inc. Means and method for achieving an optimum operating condition for an alkylation unit. 3,778,603, 12-11-73, Cl. 235-151.120.

Sweeney, Earl G.: *See—*
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Sweeney, James A.: *See—*
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Sweeney, James S.; Dyers, George A., Sr.; and Johnson, Ronald G., to Rockwell International Corporation. Element position detector system. 3,771,325, 11-13-73, Cl. 66-50.00r.

Sweeney, John W. Time delay switching system with improved twenty-four hour controller. 3,714,457, 1-30-73, Cl. 307-141.000.

Sweeney, Josephine T., 50% to Huff, Warren C. Garment pattern making device and method. 3,745,656, 7-17-73, Cl. 33-14.000.

Sweeney, Maxwell Patrick, to Energy Transmission Corporation. Carburetor apparatus and method. 3,745,983, 7-17-73, Cl. 123-119.00r.

Sweeney, Ralph B.; Vaught, John M.; and Verdouw, Albert J., to General Motors Corporation. Combustion liner. 3,751,910, 8-14-73, Cl. 60-39.650.

Sweeney, Richard F.: *See—*
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Anello, Louis G.; Sweeney, Richard F.; and Litt, Morton H., 3,754,009.
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Sweeney, Richard P.: *See—*
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Sweeney, Thomas E.: *See—*
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Sweeney, Thomas E.; Condit, Philip M.; Ormiston, Robert A.; and Nixon, Walter Barry, to Sweeney, Thomas E. Semi-rigid airfoil for airborne vehicles. 3,743,218, 7-3-73, Cl. 244-36.000.

Sweeney, William A.: *See—*
Straus, Alan E.; Sweeney, William A.; House, Ralph; and Sharman, Samuel H., 3,721,707.

Sweeney, William A., to Chevron Research Company. 2-Olefin sulfonate for liquid detergents. 3,708,437, 1-2-73, Cl. 252-555.000.

Sweeny, Edward J. Scoring system for athletic events. 3,737,889, 6-5-73, Cl. 340-323.000.

Sweeny, Keith H.; and Fischer, James R., to United States of America, Interior. Decomposition of halogenated organic compounds using metallic couples. 3,737,384, 6-5-73, Cl. 210-59.000.

Sweeny, Keith H.; and Fischer, James R., to United States of America, Interior. Self-destructing pesticidal formulations and methods for their use. 3,767,782, 10-23-73, Cl. 424-2.000.

Sweeny, Keith H.; Fischer, James R.; and Lung, Charles A., to United States of America, Interior. Self-destructing pesticidal formulations and methods for their use. 3,767,783, 10-23-73, Cl. 424-2.000.

Sweet, Bill M.; Hundeby, Gary T.; and Baldwin, Charles R., to Minnesota Mining and Manufacturing Company. Foldable barricade and sign. 3,740,880, 6-26-73, Cl. 40-125.000.

Sweet, Douglas W.: *See—*
Van Ostrom, David L.; Sweet, Douglas W.; and Beyerlein, David G., 3,709,567.

Sweet, Douglas W.; and Beyerlein, David G., to General Motors Corporation. Anti-lock brake control system with front to rear interlock. 3,740,103, 6-19-73, Cl. 303-21.0eb.

Sweet, James B., to Dart Industries, Inc. Egg separator. 3,749,001, 7-31-73, Cl. 99-499.000.

Sweet, John R., III: *See—*
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Sweet, Larrie H., to Carborundum Company, The. Adjustable anchor device for furnace walls. 3,771,467, 11-13-73, Cl. 110-1.00a.

Sweet, Richard G., to Varian Associates. Bacterial colony counting method and apparatus. 3,736,432, 5-29-73, Cl. 250-222.0pc.

Sweet, Richard Gordon: *See—*
Brown, Paul Merrill; Davis, Donovan Chester; Gross, James Edward; and Sweet, Richard Gordon, 3,769,591.

Sweet, Robert H.: *See—*
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Sweet, Roger L., to Ross Operating Valve Company. Safety control valve system for fluid actuated devices. 3,757,818, 9-11-73, Cl. 137-596.600.

Sweetheart Plastics, Inc.: *See—*
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Davis, Paul, 3,724,710.
Davis, Paul, 3,749,276.
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MacDaniel, Gene D., 3,739,976.

Sweger, Russell P., to Barber-Colman Company. Servo control. 3,717,803, 2-20-73, Cl. 318-471.000.

Sweger, Russell P. Anticipating thermostatic transmitter. 3,767,936, 10-23-73, Cl. 307-117.000.

Sweger, Theodore J., to Illinois Railway Equipment Company. Container securing means for a transport carrier with latch variably pivoted to accommodate different clearances. 3,774,551, 11-27-73, Cl. 105-366.00c.

Swehla, Raymond J., to Joslyn Mfg. and Supply Co. Electrical disconnect. 3,711,818, 1-16-73, Cl. 339-60.00c.

Sweigart, David J.: *See—*
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Sweigart, Jon L., to United States of America, Navy. Spring actuated liquid propellant gun system. 3,712,171, 1-23-73, Cl. 89-7.000.

Sweitzer, Stanley E., to Western Electric Company, Incorporated. Coating apparatus including conveyor-mask. 3,738,315, 6-12-73, Cl. 118-49.500.

Swemco Limited: *See—*
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Swenck, George F.: *See—*
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Vickstrom, Donald E.; and Swenck, George F., 3,721,215.
Vickstrom, Donald E.; and Swenck, George F., 3,722,473.

Swengel, Robert Charles, Sr., to AMP Incorporated. Wiring device for interconnecting module circuit units. 3,715,629, 2-6-73, Cl. 317-101.00r.

Swengel, Robert Charles, Sr.; Reyner, Emerson Marshall, II; and Crumley, J. A. Electrical terminal structure. 3,740,202, 6-19-73, Cl. 29-191.600.

Swengel, Robert Charles, Sr.; and Crumley, J. A., to AMP Incorporated. Welding method and means using foil electrode. 3,747,051, 7-17-73, Cl. 339-275.00t.

Swenney, Donald E., Jr.: *See—*





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Swick, George W., Jr.; Priest, Robert A.; and Trimble, Jerry R., to Cornelius Company, The. Hand cart for stacking goods in interlocking relationship. 3,746,358, 7-17-73, Cl. 280-36.00

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Swenson, Paul F., Sr., to Great Lakes Sports Mfg. Co. Metal forming method and apparatus. 3,742,745, 7-3-73, Cl. 72-54.000.
Swenson, Paul F., Sr., to Great Lakes Sports Mfg. Co. Boat and method of forming same. 3,760,439, 9-25-73, Cl. 9-6.000.
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Swenson, Richard F.; and Gryga, John J., Jr., to Swenson Corporation. Vehicle seat having resilient suspension and constant acting damping means. 3,727,974, 4-17-73, Cl. 297-399.000.
Swenson, Richard F.; and Hisey, Claude B., to Swenson Corporation. Adjustable seat assembly for vehicle. 3,740,014, 6-19-73, Cl. 248-373.000.
Swenson, Robert W. Tie rack device. 3,777,894, 12-11-73, Cl. 211-13.000.
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Swett, Leo Ralph, to Abbott Laboratories. 4,6-Dihydro-1,3-dimethyl-8-phenyl-4-propargyl-pyrazolo [4,3-e] diazepin-5 (1H) one in treating inflammation. 3,764,688, 10-9-73, Cl. 424-274.000.
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Swick, George E., Jr.; and Danielson, Ellsworth H., to Cornelius Company, The, mesne. Display apparatus. 3,766,863, 10-23-73, Cl. 108-111.000.
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Swindell, E. LeRoy. Switchrack for electric motor starters and controls. 3,760,232, 9-18-73, Cl. 317-99.000.
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Swinehart, Carl F.; and Sfiligoj, Marko, to Kewanee Oil Company. Crystalline materials. 3,766,080, 10-16-73, Cl. 252-300.000.
Swinehart, Frank, to Johnson, E. F., Company. Microphone having improved piezoelectric transducer supports. 3,710,040, 1-9-73, Cl. 179-110.00a.
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Swithenbank, Joshua; Taylor, David Shaw; and Bulion, Michael Stuart, to Gunson's Colorplugs Limited. Internal combustion engines with infra-red detection. 3,754,139, 8-21-73, Cl. 250-340.000.
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Sylvest, Karl Jens, to Smidth, F. L., & Co. Apparatus and method for drying or pre-heating pulverulent material. 3,717,938, 2-27-73, Cl. 34-168.000.

Sylvest, Karl Jens, to Smidth, F. L., & Co. Method and apparatus for providing heat exchange. 3,741,715, 6-26-73, Cl. 432-16.000.

Sylvester, Earl Oliver; Sylvester, Ronald; and Sylvester, Richard. Latch and release mechanism for harpoon and fishhook combination. 3,772,814, 11-20-73, Cl. 43-6.000.

Sylvester, Edward C.: *See—*
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Sylvester, Richard: *See—*
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Sylvester, Ronald: *See—*
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Sylvester, Rowland L.: *See—*
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Sylvester, Willard G.; Boynton, Ira D.; and Bode, Robert H., to Lee, H. D., Company, Inc., The. Web alignment device. 3,709,418, 1-9-73, Cl. 226-17.000.

Sylwester, Alfred V., to United States of America, Navy. Elliptical warhead. 3,720,168, 3-13-73, Cl. 102-67.000.

Symaniec, Leonides; Pepin, Christian; and Skenderoff, Claude, to Thomson-CSF. Spectrum analysis systems using optical correlation techniques particularly useful in pulse modulated doppler radar systems. 3,732,565, 5-8-73, Cl. 343-9.000.

Symbionics, Inc.: *See—*
Craig, Dwin R., 3,713,720.
Craig, Dwin R., 3,744,917.

Symbroski, Alex P.: *See—*
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Symer, Orten Henry; and Bearce, Winfield Scott, to Orwin Associates Inc. Voltage-on-demand deflection amplifier. 3,739,223, 6-12-73, Cl. 315-27.70d.

Symmank, William D., to Case, J. I., Company. Shoe for track chain assembly. 3,764,185, 10-9-73, Cl. 305-47.000.

Symon, Ted, to Universal Oil Products Company. Dimerization of olefinic compounds. 3,714,284, 1-30-73, Cl. 260-677.00r.

Symonds, James A.: *See—*
Beach, Richard G.; Stultz, Harry, Jr.; and Symonds, James A., 3,722,373.

Symoniak, Martin F.; and Lee, Max N. Y., to Union Carbide Corporation. Isothermal process for olefin separation. 3,721,064, 3-20-73, Cl. 55-62.000.

Symons Corporation: *See—*
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Maynem, James D., 3,754,729.
Pipala, Dennis R., 3,771,756.
Schimmel, Vernon R.; and Shoemaker, James C., 3,751,081.
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Spellman, Francis T., Jr., 3,743,223.
Spellman, Francis T., Jr., 3,768,784.

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Symons, Frank W., Jr.: *See—*
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Symons, James D., to General Motors Corporation. Self-energizing face seals. 3,738,667, 6-12-73, Cl. 277-96.000.

Symons, Michael W. Connecting means for joining structural frame members. 3,774,344, 11-27-73, Cl. 49-504.000.

Symons, Philip C., to Oxy Metal Finishing Corporation. Process for electrical energy using solid halogen hydrates. 3,713,888, 1-30-73, Cl. 136-6.000.

Synalloy Corporation: *See—*
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Syncom Incorporated: *See—*
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Syncro Corporation: *See—*
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Gynn, George E., 3,745,442.
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Syncro-System Corporation: *See—*
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Syndent Corporation: *See—*
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Synectron, Inc.: *See—*
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Halpern, Alfred; and Sasmor, Ernest J., 3,772,442.

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Synetix Industries: *See—*
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Synvar Associates: *See—*
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Syria, Ronald L., to Borg-Warner Corporation. Electronic accelerometer system. 3,776,044, 12-4-73, Cl. 73-516.0lm.

Syrjanen, Ahti, to Yhtyneet Paperitehtaat Osakeyhtio Jylhavaara. Pressure straining device. 3,759,392, 9-18-73, Cl. 210-415.000.

Syrjanen, Eero; and Reijonen, Olavi, to MKT-tehtaat Oy. Device for manufacturing cheese of cheddar type. 3,707,769, 1-2-73, Cl. 99-460.000.

Syron Corporation: *See—*
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Syster, Gerald T., to Zenith Radio Corporation. Charged particle removal apparatus for an image display device. 3,712,699, 1-23-73, Cl. 316-2.000.

Systomation Incorporated: *See—*
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Sytko, Thomas H., to General American Transportation Corporation. Flag plug for vessel openings. 3,768,849, 10-30-73, Cl. 292-327.000.

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Syverson, Martelle J., to Fountain Industries, Inc. Beverage dispensing machine. 3,709,408, 1-9-73, Cl. 222-129.400.

Syverson, Martelle J., to Fountain Industries, Inc. Mounting base assembly for product cartridges. 3,744,865, 7-10-73, Cl. 312-35.000.

Szablowski, Teofil, to General Motors Corporation. Pressure responsive switch. 3,718,791, 2-27-73, Cl. 200-85.00a.

Szabo, Andras I.: *See—*
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Szabo, Andras I., to Westinghouse Electric Corporation. Numerical contouring control system. 3,740,535, 6-19-73, Cl. 235-151.110.

Szabo, Andras I.; Zitelli, William E.; and Tarli, Dan V., to Westinghouse Electric Corporation. Analog to pulse rate converter. 3,778,794, 12-11-73, Cl. 340-174.10a.

Szabo, Bela G. Burstable seamed hypodermic applicators. 3,736,933, 6-5-73, Cl. 128-216.000.

Szabo, Georges: *See—*
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Szabo, John, to Electrohome Limited. Network for varying current through a load. 3,715,623, 2-6-73, Cl. 315-194.000.

Szabo, Josef; and Szucs, Laszlo, to Magyar Hajo-es Darugyar. Heat exchange apparatus for the utilisation of the heat content of exhaust gases. 3,749,158, 7-31-73, Cl. 165-96.000.

Szabo, Karoly; and Brady, John Gary, to Stauffer Chemical Company. 0-Alkyl-s-phthalimidomethyl alkyldithiophosphonates as insecticides and miticides. 3,719,755, 3-6-73, Cl. 424-200.000.

Szabo, Karoly, to Esso Research and Engineering Company. Alkoxyalkyl phosphonates. 3,733,379, 5-15-73, Cl. 260-950.000.

Szabo, Lajos: *See—*
Szantay, Csaba; Szabo, Lajos; Kalaus, Gyorgy; and Simonidesz, Vilmos, 3,755,333.

Szabo, Louis. Boot tree. 3,729,759, 5-1-73, Cl. 12-114.400.

Szabo, Louis R.: *See—*
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Szabo, Marton; and Bush, George W. Handle construction. 3,737,944, 6-12-73, Cl. 16-110.000.





Szabo, Marton J., to Philadelphia Handle Company, Inc. Sheathed soft-feel handle and method of making same. 3,758,360, 9-11-73,

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Sztamler, Bernard; Diskin, Mordechai Haim; and Vilensky, Alex-

Tabata, Yoneho; and Kojima, Gen, to Asahi Glass Company Ltd.

Szabo, Marton J., to Philadelphia Handle Company, Inc. Sheathed soft-feel handle and method of making same. 3,758,360, 9-11-73, Cl. 156-273.000.
Szabo, Marton T., to Philadelphia, Handle Company, Inc. Sheathed soft-feel handle and method of making same. 3,736,621, 6-5-73, Cl. 16-116.000.
Szabo, Miklos Tamas; Boothe, Jerry Emile; Sharpe, Andrew Jackson, Jr.; and Martin, Fred David, to Calgon Corporation. Secondary oil recovery process. 3,744,566, 7-10-73, Cl. 166-275.000.
Szabo, Nicholas S., to Singer Company, The. Interactive photographic transparency display device. 3,775,005, 11-27-73, Cl. 353-42.000.
Szabo, Ted T., to Union Carbide Corporation. Devolatilization method. 3,773,740, 11-20-73, Cl. 260-93.50a.
Szabrak, Robert H.; and Smith, Richard A., to Stein, Sam, Associates, Inc. Food broiler. 3,721,178, 3-20-73, Cl. 99-386.000.
Szabrak, Robert H.; and Stubblebine, Warren, to Stein, Sam, Associates, Inc. Deep fat fryer feeding apparatus. 3,757,672, 9-11-73, Cl. 99-404.000.
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Szanny, Roy G., to General Motors Corporation. Detachable fastening clip. 3,718,881, 2-27-73, Cl. 338-22.000.
Szantay, Csaba; Szabo, Lajos; Kalaus, Gyorgy; and Simonidesz, Vilmos, to Richter Gedeon Vegyeszeti Gyar R.T. Process for the preparation of vincamine. 3,755,333, 8-28-73, Cl. 260-293.530.
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Szatkowski, Richard R., to Continental Can Company, Inc. Sinter molding apparatus. 3,744,951, 7-10-73, Cl. 425-259.000.
Szatmari, Franz, to Fischer, Georg, A.G. Method of and device for continuous preparation of granular material, such as foundry sand. 3,712,593, 1-23-73, Cl. 259-148.000.
Szatmari, Franz; and Wernli, Max, to Fisher, George, Aktiengesellschaft. Apparatus for automatic regulation of the moisture content of granular material. 3,724,821, 4-3-73, Cl. 259-149.000.
Szczepanek, Alfred: *See—*
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Szczepanski, Harry. Automatic spray-painting machine. 3,716,022, 2-13-73, Cl. 118-326.000.
Szczepanski, Harry. Masking fixture for spray painting. 3,741,154, 6-26-73, Cl. 118-503.000.
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Sze, Morgan C.; and Kafes, Nicholas C., to Lummus Company, The. Pyrolysis of hydrotreated feedstocks. 3,720,729, 3-13-73, Cl. 260-683.00r.
Sze, Morgan C.; Schindler, Harvey D.; and Riegel, Herbert, to Lummus Company, The. Production of propylene. 3,763,263, 10-2-73, Cl. 260-683.30r.
Sze, Morgan Chuan-Yuan; and Reilly, James William, to Lummus Company, The. Production of jet fuel. 3,767,562, 10-23-73, Cl. 208-57.000.
Sze, Morgan Chuan-Yuan, to Lummus Company, The. Production of jet fuel. 3,775,291, 11-27-73, Cl. 208-57.000.
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Szego, Peter. Inflatable crib. 3,763,506, 10-9-73, Cl. 5-93.000.
Szegvari, Andrew. Treatment of dispersions. 3,720,379, 3-13-73, Cl. 241-20.000.
Szekely, Andrew G., to Union Carbide Corporation. Method of treating ferrous metals with oxygen containing a non-gaseous fluidized fuel. 3,746,534, 7-17-73, Cl. 75-60.000.
Szekely, Andrew Geza, to Union Carbide Corporation. Apparatus and process for refining molten aluminum. 3,743,263, 7-3-73, Cl. 266-34.00a.
Szekely, George. Automatic dispensing device for particulate material. 3,762,374, 10-2-73, Cl. 119-51.110.
Szekely, Laszlo; and Pigache, Claude, to SUBEM. Apparatus for driving and stopping a machine, particularly a sewing machine. 3,757,181, 9-4-73, Cl. 318-150.000.
Szekessy, Istvan, to Rexroth und Szekessy Entwicklung GmbH. Circuit system for brake lights. 3,740,715, 6-19-73, Cl. 340-72.000.
Szeler, Zbigniew: *See—*
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Szentes, John F.: *See—*
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Szepesi, Zoltan P. J., to Westinghouse Electric Corporation. Storage amplifier screen. 3,711,719, 1-16-73, Cl. 250-213.00r.
Szepesy, Laszlo: *See—*
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Szerenyi, Laszlo I.: *See—*
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Szettler, Ernst; and Goebels, Siegmund E. Automatic film processing machine. 3,769,897, 11-6-73, Cl. 95-94.00r.
Szeverenyi, Nikolaus A., to GTE Sylvania Incorporated. Temperature compensated level sensor. 3,772,673, 11-13-73, Cl. 340-244.00r.
Szigety, Paul. Theatrical screen for combining live action and projected pictures. 3,754,756, 8-28-73, Cl. 272-21.000.
Szilagy, Paul J., to Enthone, Incorporated. Alkaline bright zinc electroplating. 3,751,348, 8-7-73, Cl. 204-55.00y.
Szilagyi, Dezso: *See—*
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Szilagyi, Paul J.; and Hajdu, Juan, to Enthone, Incorporated. Alkaline bright zinc electroplating. 3,745,099, 7-10-73, Cl. 204-55.00r.
Szilas, A. Pal; Bognar, Janos; Mating, Bela; and Bajoczky, Laszlo, to Nagyalfoldi Koolaj-es Foldgaztermelo Vallalat. Device for intermittent gas-lift exploitation of oil wells. 3,732,035, 5-8-73, Cl. 417-143.000.
Szinai, Stephen Slomo; and Chakrabarti, Jiban Kumar, to Lilly, Eli, and Company. 2-Hydrazono-1-adamantane acetic acids. 3,766,262, 10-16-73, Cl. 260-518.00r.
Szirmay, Leslie V., 10% to Oldham, Edwin W. and 10% to Oldham, Vern L. Process for the separation a gaseous mixture. 3,727,376, 4-17-73, Cl. 55-60.000.
Szita, Frank. Holder and manipulator for refuse bags. 3,733,099, 5-15-73, Cl. 294-55.000.
Szklarz, Eugene G.: *See—*
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Szmuszkovicz, Jacob; and Cerda, Elisabeth S., to Upjohn Company, The. 7-(1-pyrrolidinyl)-endo-7-norcaranol and its method of preparation. 3,714,186, 1-30-73, Cl. 260-326.50r.
Szohatsky, Zoltan L. Ski binding mounting apparatus. 3,778,048, 12-11-73, Cl. 269-10.000.
Szoke, Abraham: *See—*
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Szostak, Noland; Hartwig, Karl; and Maurischat, Gunter, to Agfa-Gevaert Aktiengesellschaft. Electrostatic copying apparatus. 3,734,604, 5-22-73, Cl. 355-14.000.
Szostak, Roland; Hartwig, Karl; Maurischat, Gunter; Schnall, Gunter; and Vossnacke, Jurgen, to Agfa-Gevaert Aktiengesellschaft. Developing unit for electrostatic copying apparatus. 3,721,209, 3-20-73, Cl. 118-2.000.
Szostak, Roland; and Krueger, Wilm, to Agfa-Gevaert Aktiengesellschaft. Electrostatic copying apparatus with means for preventing contamination of transfer material. 3,751,156, 8-7-73, Cl. 355-3.000.
Szpak, Anthony D.; and Graves, Howard K., to Phonocopy, Inc. Light pipe illuminated scan reader. 3,726,998, 4-10-73, Cl. 178-7.600.
Szpak, Anthony D., to Avnet, Inc., mesne. Record changer spindle. 3,771,796, 11-13-73, Cl. 274-10.00s.
Szpakowski, Bronislaw Tadeusz, to Bell Canada-Northern Electric Research Limited. Trigger comparator circuit. 3,760,195, 9-18-73, Cl. 307-235.000.
Szpur, Roman, to NDM Corporation, mesne. Pickup electrode with rigid electrolyte cup. 3,713,435, 1-30-73, Cl. 128-2.06e.



Sztamler, Bernard; Diskin, Mordechai Haim; and Vilensky, Alexander, to Technion Research and Development Foundation Limited and Elmedix Limited. Apparatus for detecting urinary bladder outflow. 3,754,220, 8-21-73, Cl. 340-239.000.
Sztankay, Zoltan G.; Holland, Richard J.; and Swirczynski, John P., to United States of America, Army. High intensity light limiting device. 3,734,592, 5-22-73, Cl. 350-17.000.
Sztari, Charles. Sewing machine conversion assembly. 3,765,350, 10-16-73, Cl. 112-122.000.
Szucs, Attila: *See—*
Boros, Andor; Helm, Laszlo; Marton, Zsolt; and Szucs, Attila, 3,771,569.
Helm, Laszlo; Kosa Gyrogy; and Szucs, Attila, 3,739,775.
Szucs, Laszlo: *See—*
Szabo, Josef; and Szucs, Laszlo, 3,749,158.
Szumachowski, Edwin R.: *See—*
De Long, William T.; and Szumachowski, Edwin R., 3,769,491.
Delong, William T.; Szumachowski, Edwin R.; and Heverly, Harold R., 3,769,099.
Szupillo, Raymond E., to Corning Glass Works. Chromium film microcircuit mask. 3,715,244, 2-6-73, Cl. 148-31.500.
Szur, Alex J.: *See—*
Leeds, Morton W.; and Szur, Alex J., 3,760,086.
Terrell, Ross C.; and Szur, Alex J., 3,761,524.
Szura, Adam, Jr.: *See—*
Anderson, Andrew W.; and Szura, Adam, Jr., 3,750,357.
Szwolkon, Henry E. Fish hook and lure assembly. 3,758,976, 9-18-73, Cl. 43-42.240.
Szyferblatt, Morris, to Optimetric Systems, Inc. Lens edging machine. 3,738,064, 6-12-73, Cl. 51-93.000.
Szymanski, Chester D., to National Starch and Chemical Corporation. Food product containing a novel converting starch. 3,748,151, 7-24-73, Cl. 99-144.000.
Szymanski, Chester D.; and Heimstetter, Gerald J., to National Starch and Chemical Corporation. Dextrin-extended gelatin compositions. 3,758,323, 9-11-73, Cl. 106-129.000.
Szymanski, Earl Thaddeus: *See—*
Pearson, Whitney Lombard; Banford, John Alexander; and Szymanski, Earl Thaddeus, 3,748,209.
Szymanski, Edward R.: *See—*
Bates, Darwin S.; and Szymanski, Edward R., 3,736,867.
Szymanski, John. Carpet stretcher. 3,747,157, 7-24-73, Cl. 16-5.000.
Szymanski, Richard; and Murphy, Patrick J., to Brunswick Corporation. Cluster ball rack with ball director. 3,753,561, 8-21-73, Cl. 273-49.000.
Szymber, Oleg, to GAF Corporation. Random selection system for slide projectors and the like. 3,733,122, 5-15-73, Cl. 353-103.000.
Szymber, Oleg, to GAF Corporation. Video reproduction system for photographic and other images. 3,745,234, 7-10-73, Cl. 178-5.20r.
Szymber, Oleg, to GAF Corporation. Video reproduction system for photographic and other images. 3,770,882, 11-6-73, Cl. 178-5.20a.
Szynka, Peter, to Lohmann & Stolterfoht Aktiengesellschaft. Fluid pressure clutch with emergency screw operator. 3,708,048, 1-2-73, Cl. 192-83.000.
Szypulski, Raymond W.: *See—*
Kruse, Howard W.; Breslow, Bertram A.; and Szypulski, Raymond W., 3,726,728.
T. O. Plastics, Inc.: *See—*
Engler, Joseph P.; and Paulsen, Glen E., 3,724,719.
Tabana, Minoru; Okumura, Takuzo; and Yasuno, Kiyoshi, to Sumitomo Chemical Company, Ltd. Modified polyphenylene oxide composition containing a fatty acid bisamide either alone or in admixture with a metal salt of a fatty acid. 3,751,388, 8-7-73, Cl. 260-2300s.
Tabasso, Giovanni: *See—*
Michellone, Giancarlo; Palazzetti, Mario; and Tabasso, Giovanni, 3,709,566.
Michellone, Giancarlo; Palazzetti, Mario; and Tabasso, Giovanni, 3,713,705.
Tabata, Hisanobu; Tabata, Norimasa; and Nakajima, Rokuro. $MgCO_3$ addition to $CaSO_4$ containing sea water to prevent corrosion. 3,766,019, 10-16-73, Cl. 203-7.000.
Tabata, Junichi. Apparatus for mounting low temperature liquid storage tanks. 3,767,150, 10-23-73, Cl. 248-146.000.
Tabata, Kazuki: *See—*
Kusunoki, Sigeru; Murakami, Yoshitsugu; Tashiro, Yutaka; and Tabata, Kazuki, 3,730,245.
Tabata, Masaaki; Susami, Kozo; and Edagawa, Hiroshi, to Toray Industries, Inc. Spun yarn and its doubled yarn and the process for manufacturing the same. 3,768,246, 10-30-73, Cl. 57-156.000.
Tabata, Norikazu: *See—*
Ito, Toshio; Nomaguchi, Tamotsu; and Tabata, Norikazu, 3,709,473.
Tabata, Norimasa: *See—*
Tabata, Hisanobu; Tabata, Norimasa; and Nakajima, Rokuro, 3,766,019.
Tabata, Toshikazu: *See—*
Kondo, Seigo; Tabata, Toshikazu; and Horiuchi, Jiro, 3,714,166.
Tabata, Yoneho: *See—*
Kojima, Gen; and Tabata, Yoneho, 3,723,270.
Tabata, Yoneho; and Kojima, Gen, to Asahi Glass Company Ltd. Process for producing a cross-linked copolymer of tetrafluoroethylene and propylene using high energy ionizing radiation. 3,718,558, 2-27-73, Cl. 205-159.200.
Tabb, Durbin C., to Research Corporation. Method for hatching and growing marine organisms. 3,709,195, 1-9-73, Cl. 119-2.000.
Tabbert, George F., 10% to Lee, Raymond, Organization, Inc., The. Post for rural type mail boxes. 3,762,672, 10-2-73, Cl. 248-146.000.
Taber, David; and Raphaelian, Leo A., to Armour-Dial, Inc. Synergistic antiseptic compositions. 3,720,620, 3-13-73, Cl. 252-107.000.
Taber, David. Synergistic antiseptic compositions containing a halogenated anilide of thiophene carboxylic acid. 3,741,952, 6-26-73, Cl. 252-107.000.
Taber, Robert C.: *See—*
Webster, Frank G.; and Taber, Robert C., 3,725,398.
Tabet, Michael A. Hand truck. 3,762,739, 10-2-73, Cl. 280-47.370.
Tabickman, Maurice L: *See—*
Thomassen, Erwin A.; and Tabickman, Maurice L, 3,712,363.
Tabiichi, Yukio; Yamazaki, Yuichi; Saito, Takao; and Kaiaoka, Toshimitsu, to Nippon Telegraph and Telephone Public Corporation and Anritsu Electric Company, Ltd. Coin discriminating apparatus. 3,749,220, 7-31-73, Cl. 194-100.00a.
Tabler, Charles P. Connector for flexible belts. 3,737,954, 6-12-73, Cl. 24-31.00c.
Tabler, Charles P., to Kornylak Corporation. Boltless adjustable fitting. 3,744,610, 7-10-73, Cl. 193-35.00r.
Tabler, Charles P., to Kornylak Corporation. Convertible roller way conveyor. 3,768,614, 10-30-73, Cl. 193-37.000.
Tabler, Donald C.: *See—*
Johnson, Marvin M.; and Tabler, Donald C., 3,711,422.
Johnson, Marvin M.; and Tabler, Donald C., 3,743,684.
Johnson, Marvin M.; Tabler, Donald C.; and Nowack, Gerhard P., 3,767,718.
Tabler, Donald C., to Phillips Petroleum Company. Dehydrogenation of cyclohexane or mono- or polyalkylcyclohexanes. 3,720,724, 3-13-73, Cl. 260-668.00d.
Tabler, Donald C., to Phillips Petroleum Company. Catalyst and process for double bond isomerization. 3,770,660, 11-6-73, Cl. 252-467.000.
Tabone, Donald J. Surgical sterilization method. 3,779,707, 12-18-73, Cl. 21-58.000.
Tabor, Charles A. Seismic pulse generating apparatus. 3,712,407, 1-23-73, Cl. 181-.5bm.
Tabor, Edward J.; and French, Floyd R., to Dow Chemical Company, The. Method of inhibiting corrosion. 3,770,413, 11-6-73, Cl. 71-116.000.
Tabor, Joseph A.: *See—*
Dahl, Norman C.; and Tabor, Joseph A., 3,757,372.
Tabor, Patrick M. Open enclosure for explosive charge. 3,739,731, 6-19-73, Cl. 109-49.500.
Tabor, Paul C., to Meter Research Limited. Expandable fastener. 3,710,674, 1-16-73, Cl. 85-84.000.
Tabor, Paul C., to Meteor Research Limited. Closure counterbalance. 3,711,892, 1-23-73, Cl. 16-76.000.
Taborne, Michael T. Planter. 3,724,128, 4-3-73, Cl. 47-33.000.
Tabroff, William: *See—*
Crowell, Douglas H.; Tadcliffe, Milton R.; and Tabroff, William, 3,762,262.
Tabuchi, Keizo: *See—*
Heinouchi, Yosiaki; Tabuchi, Keizo; and Tatsumi, Tetsuo, 3,729,639.
Taburinsky, Grigory Semenovich; Kholodenko, Petr Iosifovich; Lisitsyn, Konstantin Mikhailovich; Kinyaev, Boris Alexeevich; Krichevsky, Lev Abramovich; Novozhilov, Nikolai Fedorovich; Sverdlik, Naum Borisovich; and Poplavsky, Vladislav Iosifovich. Sand-blowng machine. 3,747,665, 7-24-73, Cl. 164-200.000.
Tac House, Inc.: *See—*
Cvijanovic, Alex; and Firnkas, Sepp, 3,780,480.
TAC Industries, Inc., mesne: *See—*
Senecal, Eugene G., 3,755,655.
Taccone, Russell W., to Bangor Punta Operations, Inc. Molding machine. 3,709,282, 1-9-73, Cl. 164-187.000.
Taccone, Russell W., to Bangor Punta Operations, Inc. Mold forming apparatus with flask having opposed shoulder portions. 3,736,978, 6-5-73, Cl. 164-187.000.
Tacconelli, Edmond Andrew: *See—*
Rothman, Julius; Tacconelli, Edmond Andrew; and Buzzetta, Frank Vincent, 3,755,648.
Tache, Arthur De Gaspe: *See—*
Liebergott, Norman; Clayton, David W.; and deMontigny, Raimbault M. A. T., 3,740,311.
Tachibana, Kan-Ichi; and Nishioka, Michihiro, to Mitsubishi Mining & Cement Company, Ltd. Non-linear resistors. 3,764,951, 10-9-73, Cl. 338-20.000.
Tachihara, Norifumi; and Yamaguchi, Hiroshi, to Kabushiki Kaisha Koparu. Photoconductive cell. 3,753,197, 8-14-73, Cl. 338-19.000.
Tachikawa Blind Kogyo Kabushiki Kaisha: *See—*



Tachikawa, Takeyoshi, 3,758,988.



Tado, Hiroshi; and Morimoto, Teruo, to Yanmar Diesel Engine Co.

Tachikawa, Takeyoshi, 3,758,988.
Tachikawa, Kyoji; and Inoue, Kiyoshi, to National Research Institute for Metals, The Director of. Alloy for superconductive magnet. 3,761,254, 9-25-73, Cl. 75-134.00v.
Tachikawa, Ryuji; Takagi, Hiromu; Miyadera, Tetsuo; Kamioka, Toshiharu; Fukunaga, Mitsunobu; and Kawano, Yoichi, to Sankyo Company Limited. Process for the preparation of benzodiazepine compounds. 3,755,300, 8-28-73, Cl. 260-239.30t.
Tachikawa, Ryuji; Takagi, Hiromu; Kamioka, Toshiharu; Miyadera, Tetsuo; Fukunaga, Mitsunobu; and Kawano, Yoichi, to Sankyo Company Limited. Benzodiazepine derivatives and process for preparing the same. 3,772,371, 11-13-73, Cl. 260-562.00n.
Tachikawa, Takeyoshi, to Tachikawa Blind Kogyo Kabushiki Kaisha. Blind. 3,758,988, 9-18-73, Cl. 49-85.000.
Tachimoto, Kazuo: *See—*
Morisaki, Toshikazu; and Tachimoto, Kazuo, 3,725,044.
Tachisto Inc.: *See—*
Chase, Charles Elroy, Sr., 3,778,636.
Taciuk, William. Drill stem shock absorber. 3,746,330, 7-17-73, Cl. 267-137.000.
Tack, Carl E., to Amsted Industries Incorporated. Process for assembling a snubbing arrangement in a railway truck. 3,716,903, 2-20-73, Cl. 29-173.000.
Tack, Carl E.; and Rodgers, Loyal J., to Amsted Industries Incorporated. Mounting for pin bearing block. 3,721,482, 3-20-73, Cl. 308-72.000.
Tack, Carl E. Resiliently frictionally sway stabilized railway car. 3,731,638, 5-8-73, Cl. 105-199.00a.
Tacken, Jan Mathieu Marie: *See—*
Noord, Jacobus Andrianus Johannes Maria Van; Rapmund, Leonard Henry; and Tacken, Jan Mathieu Marie, 3,765,744.
Tackett, Edd; and Broscoff, Mary Elizabeth. Glazier tool. 3,768,363, 10-30-73, Cl. 90-61.00r.
Tackman, Norbert E., to United States of America, Navy. Frequency translating repeater (boomerang) using single-sideband techniques. 3,750,173, 7-31-73, Cl. 343-17.700.
Taco, Inc.: *See—*
Thompson, Frank R., 3,744,313.
T.A.D. Avanti Inc.: *See—*
Bonsky, Elmer C.; and Curtis, Lawrence A., 3,728,488.
Bonsky, Elmer C.; and Curtis, Lawrence A., 3,729,589.
Bonsky, Elmer C.; and Curtis, Lawrence A., 3,757,049.
Curtis, Lawrence A.; and Bonsky, Elmer C., 3,723,656.
Tada, Haruhiko: *See—*
Sawa, Yoshiro; Maeda, Ryozo; and Tada, Haruhiko, 3,738,989.
Tada, Kenichi: *See—*
Kohzuma, Sadao; Hasuo, Shigetsuyo; Tada, Kenichi; and Itoh, Takayuki, 3,713,113.
Tada, Kiichiro, to Hoshidenki-Seizo Kabushiki-Kaisha. Solenoid operated plunger device. 3,713,059, 1-23-73, Cl. 335-259.000.
Tada, Kiichiro, to Hoshidenki-Seizo Kabushiki-Kaisha. Solenoid operated plunger device. 3,728,654, 4-17-73, Cl. 335-234.000.
Tada, Minoru, to Kabushiki Kaisha Chuogoraku Kenkyusha. Occupant propelled rotatable seesaw. 3,758,108, 9-11-73, Cl. 272-30.000.
Tada, Satoshi: *See—*
Sakurai, Tooshi; Tada, Satoshi; and Kazama, Kazuo, 3,740,119.
Tada, Takashi: *See—*
Sakomura, Toshio; Kisaki, Hisashi; Tada, Takashi; and Mabuchi, Shunsuke, 3,720,704.
Tada, Takeo: *See—*
Imaoka, Yasuo; Tada, Takeo; Ishikawa, Takashi; and Uehori, Tatsuo, 3,770,500.
Tada, Tetsuya. Sprayer. 3,762,647, 10-2-73, Cl. 239-321.000.
Tada, Tetsuya. Single hand operated sprayer. 3,770,206, 11-6-73, Cl. 239-349.000.
Tadaki, Ralph T.: *See—*
Langlois, Leo L.; Tadaki, Ralph T.; Ellis, John R., Jr.; Stevens, Roy W., Jr.; and Leech, Robert H., 3,735,668.
Tadakuma, Susumu: *See—*
Inagaki, Junpei; and Tadakuma, Susumu, 3,740,628.
Tadano, Nobuo, to Suzuki Iron Works Company. Automatic fishing machine. 3,710,499, 1-16-73, Cl. 43-6.500.
Tadao, Isono, to Bell & Howell Japan, Ltd. Focus adjusting device for camera or cine camera. 3,765,767, 10-16-73, Cl. 356-8.000.
Tadataka, Narumi: *See—*
Shiomi, Masano; and Tadataka, Narumi, 3,724,603.
Tadcliffe, Milton R.: *See—*
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Tadini, Constantino: *See—*
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Tadini, Costantino: *See—*
Ullmann, Werner; Rabian, Laszlo; Mattei, Silvano; Sieg, Arno; Suter, Peter; Tadini, Costantino; Panschow, Rudolf; Suhr, Volker; and Meyer, Wolfgang, 3,731,044.
Ullmann, Werner; Rabian, Laszlo; Mattei, Silvano; Sieg, Arno; Suter, Peter; Tadini, Costantino; Panschow, Rudolf; Suhr, Volker; and Meyer, Wolfgang, 3,731,045.
Tado, Hiroshi; and Morimoto, Teruo, to Yanmar Diesel Engine Co., Ltd. Compound diesel engine of rotary-piston type. 3,732,689, 5-15-73, Cl. 60-15.000.
Tadokoro, Kinya, to Kabushiki Kaisha Sunpak. Electronic flash circuits. 3,781,602, 12-25-73, Cl. 315-241.00p.
Tadokoro, Shiunichi. Hem forming construction of garments, particularly trousers and skirts. 3,766,566, 10-23-73, Cl. 2-275.000.
Taeffner, Klaus: *See—*
Luhrig, Hermann; Taeffner, Klaus; Pohl, Gunther; Schmitz, Gerhard; and Kreit, Rudolf, 3,765,290.
Taeffner, Klaus; and Luhrig, Hermann, to Agfa-Gevaert Aktiengesellschaft. Apparatus for slitting and adhesively joining parallel webs of material. 3,773,598, 11-20-73, Cl. 156-505.000.
Tafel, Kenneth B.: *See—*
Abrams, Martin; and Tafel, Kenneth B., 3,728,020.
Taft, Andrey D.: *See—*
Riley, Jack C., 3,776,274.
Taft, Barrett L. Apparatus for semi-automatic, high production die casting. 3,739,838, 6-19-73, Cl. 164-309.000.
Taft Broadcasting Corporation, mesne: *See—*
Covington, Morris T., 3,760,280.
Taft, David D.; and Shepler, Terry H. Hot melt compositions. 3,758,431, 9-11-73, Cl. 260-27.000.
Taft, David D., to Ashland Oil, Inc. Curable epoxidized fatty compound/polyester coating composition. 3,770,675, 11-6-73, Cl. 260-22.0ep.
Taft Electrosystems, Inc.: *See—*
Russell, Taft Birch; and Gracie, John, 3,720,872.
Taft, John R. Tissue paper moistening. 3,776,773, 12-4-73, Cl. 134-6.000.
Taft, Philip Augustus, to Girling Limited. Brake control apparatus. 3,781,064, 12-25-73, Cl. 303-21.00f.
Taft, Russell E.: *See—*
Riley, Jack C., 3,776,274.
Taft, William G.; Schiff, Rein; and Iredale, A. John, to Westinghouse Electric Corporation. Nuclear reactor condenser support structure. 3,726,759, 4-10-73, Cl. 176-37.000.
Tag-A-Tron, Inc., mesne: *See—*
Kono, Harry W., 3,756,896.
Tag-Along Corporation: *See—*
Puckett, George W., 3,711,112.
Taga, Jun. Apparatus for molding thermoplastic materials. 3,773,452, 11-20-73, Cl. 425-220.000.
Tagada S.A.: *See—*
Menil, Raymond Louis, 3,754,298.
Tagarie, Frederic Louis Joseph; Bernard, Albert; and Saint-Aubin, Georges Gilbert, to Etat Francais represente par le Ministre Charge de la Defense Nationale Delegation, Ministerielle pour l'Armement. Device for breaking a launching rack-to-missile umbilicl cord. 3,780,617, 12-25-73, Cl. 89-1.811.
Tagashira, Hiroshi; and Saito, Katsutoshi, to Nittan Company, Limited. Ionization smoke detector. 3,775,616, 11-27-73, Cl. 250-381.000.
Tagawa, Katsuhiro; and Kurosawa, Takuzo, to Nissan Motor Company, Limited. Air-pollution preventive system. 3,779,224, 12-18-73, Cl. 123-136.000.
Tagawa, Susumu: *See—*
Kubota, Yasuharu; and Tagawa, Susumu, 3,717,833.
Tagawa, Susumu; and Kubata, Yasuharu, to Sony Corporation. Color television camera. 3,754,097, 8-21-73, Cl. 178-5.4st.
Taggart, Josh B. Alarm system. 3,760,397, 9-18-73, Cl. 340-258.00b.
Taggart, Lewis W.: *See—*
Scherer, John G.; and Taggart, Lewis W., 3,739,456.
Taggart, Robert. Method and apparatus for cargo transfer system. 3,754,581, 8-28-73, Cl. 141-279.000.
Tagh, Inc.: *See—*
Cooksley, Ralph D., 3,759,230.
Tagliaferri, Giovanni: *See—*
Barba, Diego; Liuzzo, Giuseppe; and Tagliaferri, Giovanni, 3,763,014.
Tagliafferri, Giovanni: *See—*
Barba, Diego; Liuzzo, Giuseppe; Tagliafferri, Giovanni; and Germana, Antonino, 3,735,808.
Tagnon, Luc A., to Societe des Lunetiers. Machine for trimming and bevelling the edges of ophthalmic lenses. 3,738,065, 6-12-73, Cl. 51-101.0lg.
Tagnon, Luc Andre. Aberration corrected ophthalmic progressive power lenses. 3,711,191, 1-16-73, Cl. 351-169.000.
Tagnon, Luc Andre Marcel. High toric power ophthalmic lenses. 3,722,986, 3-27-73, Cl. 351-176.000.
Tagomori, Katsumi: *See—*
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Taguchi, Ismau: *See—*
Kammori, Ohiko; and Taguchi, Ismau, 3,756,400.
Taguchi, Kenichi: *See—*
Koyanagi, Shunichi; Kitamura, Hajime; Ogawa, Kinya; and Taguchi, Kenichi, 3,753,966.
Koyangi, Shunichi; Ogawa, Kinya; and Taguchi, Kenichi, 3,775,395.
Taguchi, Masahiko: *See—*



Inoue, Isaburo; Endo, Takaya; Matsuo, Syunji; Taguchi, Masahiko; and Yamamoto, Toshihiko, 3,730,722.
Taguchi, Masahiro; and Sasaki, Tetsuo, to Algoship International Limited. Grab bucket operating apparatus. 3,774,954, 11-27-73, Cl. 294-70.000.
Taguchi, Masayoshi: *See—*
Chono, Masazumi; Nakajima, Hitoshi; Taguchi, Masayoshi; and Matsuo, Noriaki, 3,781,336.
Nakajima, Hitoshi; Chono, Masazumi; Taguchi, Masayoshi; Sakurai, Tokio; and Matsuo, Noriak, 3,721,705.
Taguchi, Masayuki: *See—*
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Taguchi, Mitsuru: *See—*
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Taguchi, Namio: *See—*
Kobayashi, Yoshihiro; and Taguchi, Namio, 3,756,972.
Taguchi, Naoyoshi. Semiconductor gas detecting device. 3,732,519, 5-8-73, Cl. 338-34.000.
Taguchi, Nobuo; and Ono, Takehiko, to Tokyo Shibaura Electric Co., Ltd. Positioning control apparatus. 3,777,243, 12-4-73, Cl. 318-621.000.
Taguchi, Seiichi: *See—*
Tezuka, Sigeru; Tanaka, Shinichi; and Taguchi, Seiichi, 3,720,360.
Taguchi, Seiichi; Tezuka, Sigeru; Tomotsu, Takeshi; and Mizuki, Eiichi, to Fuji Photo Film Co., Ltd. Dye tranfer apparatus with stain preventing device. 3,750,567, 8-7-73, Cl. 101-181.000.
Taguchi, Seiichi; Kido, Keishiro; Kimura, Akinori; Tomotsu, Takeshi; and Mizuki, Eiichi, to Fuji Photo Film Co., Ltd. Method for correction of color images. 3,756,817, 9-4-73, Cl. 96-12.000.
Taguchi, Seiichi; Tezuka, Sigeru; Tomotsu, Takeshi; and Mizuki, Eiichi, to Fuji Photo Film Co., Ltd. Means for mounting a dye-transfer matrix to a plate cylinder. 3,772,991, 11-20-73, Cl. 101-415.100.
Taguchi, Tetsuya: *See—*
Ogiso, Mitsutoshi; and Taguchi, Tetsuya, 3,746,892.
Uchiyama, Takashi; and Taguchi, Tetsuya, 3,744,393.
Taguchi, Tetsuya, to Canon Kabushiki Kaisha. Self-timer circuit and self timer-device incorporating said self timer circuit. 3,745,902, 7-17-73, Cl. 95-53.300.
Taguchi, Toshihiko: *See—*
Tanaka, Jun; Taguchi, Toshihiko; and Watanabe, Mikio, 3,723,160.
Tanaka, Jun; Taguchi, Toshihiko; and Nishibori, Yoshihiro, 3,733,687.
Tague, Patrick W. Calibrated variable neutral density filter for a camera. 3,732,793, 5-15-73, Cl. 95-1.00r.
Tahara, Akira; Ohtsuka, Yasuo; Nakata, Tadashi; and Takada, Shoichi, to Rikagaku Kenkyusha Saitama-Ken. Hydrofluorene dicarboxylic acid derivatives and process for preparing the same. 3,734,966, 5-22-73, Cl. 260-515.00p.
Tahara, Goro R.: *See—*
Mees, James G.; Lubarsky, Andre, Jr.; and Tahara, Goro R., 3,778,556.
Tahara, Hisayoshi; Sakurai, Mituo; and Yamada, Hayatoshi, to Tokyo Shibaura Electric Co., Ltd. Centrifugal gas separator with electric motor drive. 3,780,937, 12-25-73, Cl. 233-24.000.
Tahara, Tadasu: *See—*
Katsumura, Tatsuo; Matsunaga, Tetsuya; Tahara, Tadasu; and Suzuki, Reiichi, 3,745,183.
Taher, Mohammed Amin El; Balogh, Erno; and Boltrck, Henry, to Westinghouse Electric Corporation. Transportation device having movable handrails. 3,779,360, 12-18-73, Cl. 198-16.00r.
Tahitian Products Co., Inc.: *See—*
Horner, Robert D., 3,725,086.
Tai, Akira: *See—*
Adachi, Kazuo; Tai, Akira; and Higashi, Fukuji, 3,733,303.
Adachi, Kazuo; Tai, Akira; Higashi, Fukuji; and Shibata, Katsuya, 3,746,684.
Taig, Alistair Gordon, to Strachan & Henshaw Limited. Inking mechanism with adjustment for ductor roll oscillation. 3,760,723, 9-25-73, Cl. 101-350.000.
Taihei Industries, Co., Ltd.: *See—*
Kitaguchi, Katuhiko, 3,758,154.
Taiho Pharmaceutical Company Limited: *See—*
Hashimoto, Sadao; Okada, Katsushi; Sakakibara, Ryuji; and Fujii, Setsuro, 3,737,443.
Tailor, Framodkumar Chhaganlal, to Spolair Engineering Systems AG. Climatization plant. 3,777,806, 12-11-73, Cl. 165-19.000.
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Talasz, Johann, to Voit, J. M., GmbH. Mold closing unit. 3,734,671, 5-22-73, Cl. 425-450.000.
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Talbert, Wayne Mason, to Union Carbide Corporation. Close clearance viscous fluid seal system. 3,742,822, 7-3-73, Cl. 92-86.000.
Talbert, William Lewis, to Canton Company of Baltimore. Pallet-type shipping containers. 3,712,499, 1-23-73, Cl. 217-12.000.
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Tallarida, Ronald J., to University Creations, Inc. Game utilizing mathematical base systems. 3,770,192, 11-6-73, Cl. 235-88.000.
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Talley, Robert E., to Bucyrus-Erie Company. Excavator steering mechanism. 3,735,829, 5-29-73, Cl. 180-9.440.
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Tallman, Charles V., to Sanders Associates, Inc. Gas impermeable expansion diaphragm. 3,781,779, 12-25-73, Cl. 340-8.00r.
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Talmo, Robert Eugene, to International Telephone and Telegraph Corporation. Pulse generator. 3,725,665, 4-3-73, Cl. 250-205.000.
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Tamada, Kazumi; and Takase, Tadayoshi, to Rinnai Kabushiki Kaisha. Hot air cooking oven. 3,710,775, 1-16-73, Cl. 126-21.00a.
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Tamasi, Nick J., to Douglas Machinery Co. Engine heater monitor and control system. 3,744,046, 7-3-73, Cl. 340-253.00r.
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Tanaka, Tetsuro; and Bansho, Kiyoshi, to Shigeru Kakubari. Low frequency oscillator employing a pair of U-shaped mechanical vibrators. 3,710,275, 1-9-73, Cl. 331-37.000.
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Tanaka, Yukio. Electric heater assembly. 3,749,881, 7-31-73, Cl. 219-352.000.
Tanaka, Yushiyuki. Emergency stop switch means for a snowmobile or the like. 3,758,736, 9-11-73, Cl. 200-157.000.
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Tanara, Giovanni, to Foodice Engineering Italiana S.p.A. Cake icing machine. 3,751,198, 8-7-73, Cl. 425-100.000.
Tanasawa, Yasushi; Inoue, Tokuta; Nohira, Hidetaka; and Yamada, Mitsumasa, to Toyota Jidosha Kogyo Kabushiki Kaisha. Afterburner for an internal combustion engine. 3,744,250, 7-10-73, Cl. 60-303.000.
Tanasawa, Yasusi; Inoue, Tokuta; and Ishiguro, Kenji, to Nippondenso Co., Ltd., Toyota Jidosha Kogyo Kabushiki Kaisha and Kabushiki Kaisha Toyota Chuo Kenkyusho. Exhaust gas purifying device for internal combustion engines. 3,724,220, 4-3-73, Cl. 60-303.00.
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Tandon, Tej Narayan; Lal, Saneja Iundar; and Bhan, Sharma Chandra. Universal automatic coupler. 3,774,776, 11-27-73, Cl. 213-100.00w.
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Tange, Fumiko; and Isuda, Kiichi. Delivery and cutting apparatus for tape. 3,754,491, 8-28-73, Cl. 83-277.000.
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Tanguay, Jean Paul, to Placements Jean Paul Tanguay Limitee, mesne. Heel boom construction. 3,709,390, 1-9-73, Cl. 214-147.0as.
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Tanguy, Denis R.; and Kishel, Joseph F., to Schlumberger Technology Corporation. Apparatus for determining the gas content of drilling muds. 3,731,530, 5-8-73, Cl. 73-153.000.
Tanguy, Pierre; Carre, Pierre; and Le Boulbouech, Jean. Machine for cooking eggs and minced meats. 3,714,888, 2-6-73, Cl. 99-355.000.
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Taniguchi, Kenji; and Imaizumi, Ichiro, to Hitachi, Ltd. Current switch circuit. 3,758,791, 9-11-73, Cl. 307-215.000.

Taniguchi, Kenji; Hayasaka, Akio; Masaki, Akira; Chiba, Tsuneyo; and Kaji, Tadao, to Hitachi, Ltd. Semiconductor integrated circuit. 3,760,200, 9-18-73, Cl. 307-303.000.

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Taniguchi, Naonori, to Aida Engineering Ltd. Zigzag blanking device in a press. 3,762,260, 10-2-73, Cl. 83-560.000.

Taniguchi, Naonori, to Aida Engineering, Ltd. Blank feed device in a transfer press. 3,768,632, 10-30-73, Cl. 198-218.000.

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Taninecz, Demetro. Vehicle bumper. 3,764,174, 10-9-73, Cl. 293-98.000.

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Tannenbaum, Steven R.; Sinskey, Anthony J.; and Maul, Stephen B., to Massachusetts Institute of Technology. Process of reducing the nucleic acid content in yeast. 3,720,585, 3-13-73, Cl. 195-98.000.

Tannenberger, Helmut: *See—*
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Tanner, Ernest E. Shore line boat anchor. 3,774,361, 11-27-73, Cl. 52-162.000.

Tanner, Ernst; and Sides, James R., to Celanese Corporation. Casing and propellant of nitrocellulose filaments and nitrocellulose fibers. 3,745,927, 7-17-73, Cl. 102-103.000.

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Tanner, Howard C., to International Business Machines Corporation. System for controlling output lines with limited storage capacity. 3,760,376, 9-18-73, Cl. 340-172.500.

Tanner, James C., Jr. Barbed suture. 3,716,058, 2-13-73, Cl. 128-337.000.

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Tanner, Robert G., to Arundale Manufacturers, Inc. Plastic spring lock. 3,750,238, 8-7-73, Cl. 24-1.810.

Tanner, Robert L.: *See—*
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Tanner, Robert L. Extended aperture log-periodic and quasi-log-periodic antennas and arrays. 3,765,022, 10-9-73, Cl. 343-797.500.

Tanner, Roy E. Material-holding device. 3,712,521, 1-23-73, Cl. 223-107.000.

Tannert, Karl. Positive thread feeder for circular knitting machines with a plurality of knitting points. 3,709,444, 1-9-73, Cl. 242-47.040.

Tanney, Oliver Morley, to Goodren Products Corporation. Display arrangement. 3,774,328, 11-27-73, Cl. 40-10.00r.

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Tanoue, Toyosuke; and Akamatsu, Kyoichi, to Sumitomo Metal Industries, Ltd. Rotary drum type continuous refining furnace. 3,743,265, 7-3-73, Cl. 266-36.00h.

Tansky, John L.: *See—*
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Tantam, Donald Harry, to British Oxygen Company Limited, The. Vacuum-insulated pipeline. 3,765,705, 10-16-73, Cl. 285-47.000.

Tantilinger, Keith W., to Rohr Corporation. Vehicle window structure. 3,744,186, 7-10-73, Cl. 49-463.000.

Tantillo, Sylvia. Holder for articles. 3,711,021, 1-16-73, Cl. 248-330.000.

Tantlinger, Keith W., to Rohr Industries, Inc. Stainless steel clad aluminum strakes and panels. 3,708,938, 1-9-73, Cl. 52-471.00.

Tantlinger, Keith W., to Fruehauf Corporation. Method and apparatus for loading and unloading air cargo. 3,722,716, 3-27-73, Cl. 214-38.00b.

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Taplin, Lael B., to Bendix Corporation, The. Fluidic fuel injection system having pulse extender. 3,756,211, 9-4-73, Cl. 123-119.00r.

Taplin, Lael B., to Bendix Corporation, The. Multi-condition responsive fluidic pulse generator for fluidic fuel injection system. 3,760,846, 9-25-73, Cl. 137-820.000.

Taplin, Lael B., to Bendix Corporation, The. Fluidic fuel injection system having transient engine condition responsive means to controllably effect the quantity of fuel injected. 3,771,505, 11-13-73, Cl. 123-119.00r.

Taplin, Ronald H., to Airco Inc. Oxygen control system with blood oxygen saturation sensing means and method for closed system breathing. 3,734,091, 5-22-73, Cl. 128-142.000.

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Taplin, William H., III; Lindblom, Robert O.; and Caskey, Terry L., to Dow Chemical Company, The. Battery having a molten alkali metal polysulfide catholyte and carbon coated metallic electrode for use therein. 3,765,944, 10-16-73, Cl. 136-83.00r.

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Tapper, Donald N.; and Fieglein, James M., to Westinghouse Electric Corporation. Overspeed protection system for a turbo-generator unit. 3,750,395, 8-7-73, Cl. 60-73.000.

Tapper, William R., to Litton Systems, Inc. Door latch assembly for a microwave cooking oven. 3,777,098, 12-4-73, Cl. 219-10.550.

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Tarabocchia, Martin, to RCA Corporation. Apparatus for and method of correcting a defective photomask. 3,748,975, 7-31-73, Cl. 95-1.00r.

Taralli, Claudio; and Stefani, Elio, to Carle & Montanari S.p.A. Apparatus for the impregnation treatment and eventual sterilization of coca seeds or beans with water or alkaline solutions. 3,754,466, 8-28-73, Cl. 99-348.000.

Taralli, Claudio; and Stefani, Elio, to Carle & Montanari S.p.A. Process for the impregnation treatment and eventual sterilization of cocoa seeds or beans with water or alkaline solutions. 3,778,519, 12-11-73, Cl. 426-352.000.

Tarani, Gustav: *See—*
Lamor, Kurt; Grunau, Dietrich; and Tarani, Gustav, 3,753,572.

Taranko, Lubomyr B.: *See—*
Morrell, Charles E.; and Taranko, Lubomyr B., 3,767,688.

Taranko, Lubomyr B.; and Perry, Robert H., Jr., to Esso Research and Engineering Company. Alkylation of acctonitriles. 3,755,412, 8-28-73, Cl. 260-465.00r.

Tarantino, Rocco J.; and Yeiser, John O. Cassette for strip chart recorders. 3,743,201, 7-3-73, Cl. 242-67.300.

Tarao, Akira: *See—*
Ooya, Junichiro; Kuwana, Kazutaka; Hida, Takashi; Takayama, Katuki; and Tarao, Akira, 3,744,854.

Tarasova, Valentina Mikhailovna: *See—*
Nikolsky, Boris Petrovich; Shults, Mikhail Mikhailovich; Pisarcvsky, Alexandr Moiseevich; Beljustin, Anatoly Alexandrovich; Bolkhontseva, Sofia Konstantinovna; Dolidze, Vladimir Alexandrovich; Tarasova, Valentina Mikhailovna; Karachentseva, Julia Mikhailova; and Dolmazova, Liana Iosifovna, 3,773,642.

Taratukhina, Galina Petrovna: *See—*
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Tarazi, David S.: *See—*
Hiser, Lelend L.; Boldt, Clarence A., Jr.; Tarazi, David S.; and Saenz, Oscar, Jr., 3,773,469.

Tarbox, John W.; and Zimmermann, Wilfried, to Hughes Aircraft Company. Pin alignment apparatus. 3,742,987, 7-3-73, Cl. 140-147.000.

Tarbox, Willis; Dolan, Vincent; and Harman, Ralston L., to Hardinge Brothers, Inc. Workpiece stop for a collet. 3,779,566, 12-18-73, Cl. 279-15.000.

Tarchalski, Edward, to Heinemann Electric (South Africa) Limited. Earth leakage detector for operating circuit interrupting means. 3,737,726, 6-5-73, Cl. 317-18.00d.

Tarczy-Hornoch, Zoltan, to Zeta Research, Inc. Digital graphic display apparatus, system and method. 3,735,389, 5-22-73, Cl. 340-324.00a.

Tardos, Laszlo: *See—*
Harsanyi, Kalman; Nador, Karoly; Takacs, Kalman; Korbonits, Dezso; Kiss, Pal; Simay, Antal; Bodrogi, Istvan; Tardos, Laszlo; and Leszkovszky, Gyorgy, 3,775,409.

Tardoskegyi, Louis V.; and Elliott, Donald A., to Electrovert Manufacturing Co. Ltd. Wiper means for liquid flux applying apparatus. 3,710,759, 1-16-73, Cl. 118-123.000.

Tareau, Georges. Stay for brassiere cups. 3,747,606, 7-24-73, Cl. 128-472.000.

Tarhan, Mehmet Orhan, to Bethlehem Steel Corporation. Gas desulfurization process. 3,709,976, 1-9-73, Cl. 423-224.000.

Tariel, Henri; Guyon, Roger; Gagneux, Yves; Muller, Franck; and Louis, Yves, to L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude. Thermal insulation of receptacles for cryogenic fluids. 3,769,118, 10-30-73, Cl. 156-1.000.

Tarizzo, Quinto: *See—*
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Tarjan, Mario G.: *See—*
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Tarjany, Michael; and Strier, Murray P., to Hooker Chemical Corporation. Decreasing the metallic content of liquids by an electrochemical technique. 3,755,114, 8-28-73, Cl. 204-114.000.

Tarjanyi, Michael; and Strier, Murray P., to Hooker Chemical Corporation. Decreasing hexavalent chromium content of liquids by an electrochemical technique. 3,728,238, 4-17-73, Cl. 204-149.000.

Tarjanyi, Michael; Strier, Murray P.; and Siegerman, Howard D., to Hooker Chemical Corporation. Decreasing the phenolic content of liquids by an electrochemical technique. 3,730,864, 5-1-73, Cl. 204-149.000.

Tarjanyi, Michael; and Strier, Murray P., to Hooker Chemical Corporation. Decreasing cyanide content by an electrochemical technique. 3,764,497, 10-9-73, Cl. 204-149.000.

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Tarkan, Stuart E.: *See—*
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Mal, M. Kumar; and Tarkan, Stuart E., 3,725,016.
Prill, Arnold L.; and Tarkan, Stuart E., 3,713,788.
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Tarman, Paul B.: *See—*
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Tarney, Robert Edward; and Verban, John J., to Du Pont de Nemours, E. I., and Company. Elastomer having improved building tack. 3,709,924, 1-9-73, Cl. 260-47.0op.

Tarnoff, Fleurette: *See—*
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Tarnoff, Mark: *See—*
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Tarnoff, Sherwin S., to Air Balance, Inc. Fire damper with smoke seal. 3,729,043, 4-24-73, Cl. 160-1.000.

Tarnopol, Milton S.; and Snyder, Thomas P., to PPG Industries, Inc. Applying electroconductive heating circuits to glass. 3,721,594, 3-20-73, Cl. 156-89.000.







Tatara, Seiji; Morita, Yasuo; Doomori, Yoshiki; Kumoda, Masaei; Tatsu, Hoshuo; Hi

Tarnopol, Milton S.; and Snyder, Thomas P., to PPG Industries, Inc. Applying electroconductive heating circuits to glass. 3,721,595, 3-20-73, Cl. 156-89.000.
Tarnopol, Milton S.; Twells, Robert G.; deceased (by Twells, Dolores A.; administratrix); and Rigby, Ronald R., to PPG Industries, Inc. Image plane plate. 3,732,792, 5-15-73, Cl. 95-1.00r.
Tarnopol, Milton S.; and Snyder, Thomas P., to PPG Industries, Inc. Applying electroconductive heating circuits to glass. 3,772,075, 11-13-73, Cl. 117-211.000.
Tarnopolsky, Igor Rafailovich; and Akimtsev, Gennady Vasilievich. Graphics teaching machine. 3,729,837, 5-1-73, Cl. 35-9.00r.
Tarnopolsky, Igor Rafailovich; and Akimtsev, Gennady Vasilievich. Encoder for a teaching machine. 3,760,512, 9-25-73, Cl. 35-48.00r.
Tarnow, Horst; Sasse, Klaus; and Homeyer, Bernhard. Methanesulfonic acid esters of 4-trifluoromethyl-phenols. 3,772,344, 11-13-73, Cl. 260-456.00p.
Tarokh, Mahmoud: *See—*
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Tarr, Lloyd A.: *See—*
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Tarr, Lloyd A., to GTE Automatic Electric Laboratories Incorporated. Digital tone generator. 3,719,897, 3-6-73, Cl. 331-51.000.
Tarrant, Donald R. Sequence identification apparatus. 3,758,971, 9-18-73, Cl. 40-64.00r.
Tarrant, John, to Bofors (Great Britain) Company, Limited. Excavator bucket with detachable side cutter. 3,748,762, 7-31-73, Cl. 37-141.00t.
Tarrson Company: *See—*
Keces, Mervyn L., 3,736,697.
Tarrson, Emanuel B. Carton. 3,730,335, 5-1-73, Cl. 206-45.310.
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Tarshis, Lemuel A.: *See—*
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Tarshis, Lemuel A.; and Walker, James L., to General Electric Company. Grain size of metal castings. 3,725,057, 4-3-73, Cl. 75-170.000.
Tarshis, Lemuel A.; Walker, James L.; and Berry, Thomas F., to General Electric Company. Superalloy eutectic braze. 3,748,107, 7-24-73, Cl. 29-194.000.
Tarshis, Lemuel A., to General Electric Company. Multicomponent eutectics for high temperature applications. 3,767,479, 10-23-73, Cl. 148-32.000.
Tartaglla, Peter: *See—*
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Tartakoff, Alexander: *See—*
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Tartarini, Cesare. Machine for vacuum packaging various products, in particular for vacuum packaging food products. 3,745,742, 7-17-73, Cl. 53-112.00a.
Tartary, Daniel M.: *See—*
Remy, Maurice A.; and Tartary, Daniel M., 3,720,780.
Tarui, Tasuo; and Komiya, Yoshio, to Kogyo Gijutsuin. Integrated circuits comprising lateral transistors and process for fabrication thereof. 3,766,446, 10-16-73, Cl. 317-235.00r.
Tarui, Yasuo: *See—*
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Komiya, Yoshio; Moll, John L.; and Tarui, Yasuo, 3,714,522.
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Tarumi, Noriyoshi: *See—*
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Tarver, Loyd E., Jr.: *See—*
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Tarves, Robert J., Jr. Method of repairing damaged holes in a boiler drum. 3,740,820, 6-26-73, Cl. 29-401.000.
Tarvin, Edward M. Detachable folding camper steps. 3,716,254, 2-13-73, Cl. 280-166.000.
Tary, Orville L.: *See—*
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Tarzian, Harry J. Hose clamp. 3,747,172, 7-24-73, Cl. 24-282.000.
Tasaka, Masao: *See—*
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Tasca, Dante M.; Harnden, John D., Jr.; and Martzloff, Francois D., to General Electric Company. Surge suppression transmission means. 3,711,794, 1-16-73, Cl. 333-96.000.
Taschenberg, Emil Frederick: *See—*
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Nakanishi, Michio; De, Takanori; and Tashiro, Chiaki, 3,770,729.
Tashiro, Donald K., to International Harvester Company. Harvester drive system. 3,780,506, 12-25-73, Cl. 56-14.000.
Tashiro, Donald K., to International Harvester Company. Harvester platform suspension. 3,780,508, 12-25-73, Cl. 56-208.000.
Tashiro, Donald R.: *See—*
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Tashiro, Isao: *See—*
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Tashiro, Kenichi; Furuto, Yoshio; Shigihara, Takeji; Ikawa, Kazuo; and Okano, Yukimitsu, to Furukawa Electric Company Limited, The and Stanley Electric Co., Ltd. Smoke detector in which air entrance and egress are located in oppositely disposed surfaces whch are shaped to cause an air velocity differential. 3,708,675, 1-2-73, Cl. 250-218.000.
Tashiro, Matsuru: *See—*
Ichikawa, Mitsuo; Takeuchi, Yasumasa; Harita, Yoshiyuki; Endo, Masayuki; Yamaguchi, Nobuo; Tashiro, Matsuru; and Kogure, Akira, 3,717,613.
Tashiro, Mitsuhiko: *See—*
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Tashjian, Artin. Combined soldering gun support and tip cleaner. 3,765,047, 10-16-73, Cl. 15-118.000.
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Garland, Newton C.; Scanlon, James D.; Meier, Otto H.; Tassie, Douglas P.; Clark, Burton P.; and Backus, Lester F., 3,720,301.
Tassie, Douglas P.; and Clark, Burton P., to General Electric Company. Machine gun feeding means. 3,722,356, 3-27-73, Cl. 89-9.000.
Tassie, Douglas P., to General Electric Company. Bolt locking system. 3,772,959, 11-20-73, Cl. 89-12.000.
Tassie, Douglas Pray, to General Electric Company. High rate of flow port for spool valves. 3,763,739, 10-9-73, Cl. 89-7.000.
Tassin de Montaigu, Rene Cesar Alexandre; and Stock, Rene. Autogyros, especially permitting the use of these devices as economical air-ground vehicles. 3,771,923, 11-13-73, Cl. 416-143.000.
Tasso, Joseph N. Information store system having data block shift registers. 3,735,361, 5-22-73, Cl. 340-172.500.
Tassone, Frank. Harvester. 3,760,574, 9-25-73, Cl. 56-330.000.
Tassone, George A.: *See—*
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Tassoney, Joseph P.; and Schlinger, Warren G. Multi-hydrotorting of coal. 3,715,195, 2-6-73, Cl. 48-197.00r.
Tassoney, Joseph P.; and Schlinger, Warren G., to Texaco Inc. Multi-hydrotorting of coal. 3,715,301, 2-6-73, Cl. 208-8.000.
Tassoney, Joseph P.; and Dille, Roger M., to Texaco Inc. Pollution abatement process for refinery waste water. 3,725,270, 4-3-73, Cl. 210-63.000.
Tassoney, Joseph R.: *See—*
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Tata, Raymond V.: *See—*
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Kapolyi, Laszlo; Lazar, Ferenc; Galauner, Bela; Dzsida, Laszlo; Vamos, Gyorgy; Wagner, Laszlo; and Pogany, Alfred, 3,776,717.
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Tatara, Seiji; Morita, Yasuo; Doomori, Yoshiki; Kumoda, Masasi; Iwaki, Yoshikazu; and Fujishima, Teruyuki, to Nippon Soda Co., Ltd. Process for producing calcium hypochlorite. 3,767,775, 10-23-73, Cl. 423-474.000.
Tatara, Seizo. Vitamin $B_{12}$-enriched foods transformed from seed germs and endocermis. 3,751,261, 8-7-73, Cl. 99-11.000.
Tatch-A-Cleat Products: *See—*
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Tate, David Paul; Halasa, Adel Farhan; and Kyker, Gary Stephen, to Firestone Tire & Rubber Company, The. Process for separating oligomers from ($NCP1_2$) rubber. 3,755,537, 8-28-73, Cl. 423-300.000.
Tate, Donald P.; and Steiner, Louis Kent, to Control Data Corporation. Iterative binary divider utilizing multiples of the devisor. 3,733,477, 5-15-73, Cl. 235-146.000.
Tate, George W., Jr.: *See—*
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Tate, Groton Bryce E.: *See—*
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Tate, Jack F., to Texaco Inc. Secondary recovery method. 3,719,229, 3-6-73, Cl. 166-271.000.
Tate, Jack F., to Texaco Inc. Method for stimulating well production. 3,720,265, 3-13-73, Cl. 166-307.000.
Tate, Jack F., to Texaco Inc. Secondary recovery method. 3,724,544, 4-3-73, Cl. 166-271.000.
Tate, Jack F., to Texaco Inc. Secondary recovery process. 3,749,169, 7-31-73, Cl. 166-271.000.
Tate, Jack F., to Texaco Inc. Method for controlling unconsolidated sand in an oil well with permeable cement. 3,768,561, 10-30-73, Cl. 166-281.000.
Tate, James E. Extendible retractable vehicular hitch assembly. 3,738,683, 6-12-73, Cl. 280-478.00r.
Tate, John E., to American Air Filter Company, Inc. Fluid treating filter. 3,724,671, 4-3-73, Cl. 210-484.000.
Tate, John E.; and Scholl, Howard O., to American Air Filter Company, Inc. Fluid treating filter. 3,759,393, 9-18-73, Cl. 210-491.000.
Tate, Sherman E.: *See—*
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Tatebe, Masaharu, to Kurashiki Boseki Kabushiki Kaisha; a/k/a Kurabo Industries Ltd. Screen printer with ink level sensing and control. 3,779,161, 12-18-73, Cl. 101-123.000.
Tateishi, Kohshi: *See—*
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Tateisi, Hiromiti; and Tamura, Mituo, to Toyo Bearing Manufacturing Company Limited. Apparatus for widthwise clamping workpieces in machine tools and the like. 3,754,747, 8-28-73, Cl. 269-20.000.
Tatem, Bemis Caldwell, Jr.; and Moehring, John Theodore, to General Electric Company. Combined variable angle stator and windmill control system. 3,779,665, 12-18-73, Cl. 415-123.000.
Tatematsu, Kenzo; Hosono, Hiroo; Katagiri, Toshio; Nishikiori, Akira; and Minato, Takashi, to Matsushita Electric Industrial Co., Ltd. Automatic telephone diales utilizing magnetic tape storage with improved indexing means. 3,716,676, 2-13-73, Cl. 179-90.0b.
Tateno, Haruo; and Ichimiya, Torao, to Rikagaku Kinkyusho. Plasma Jet generator. 3,770,935, 11-6-73, Cl. 219-121.00p.
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Tateno, Keiji, to Nihon Kohden Kogyo, Ltd. Brain wave measuring apparatus. 3,732,859, 5-15-73, Cl. 128-2.10b.
Tateo, Vito; and Galli, Guido, to Fabbrica Italiana Magneti Marelli S.p.A. Direct supply control device for a traction motor of vehicles, particularly for electric lifting trucks. 3,729,665, 4-24-73, Cl. 318-139.000.
Tateo, Vito; and Galli, Guido, to Fabbrica Italiana Magneti Marelli S.p.A. Electronic position transducer for control members. 3,748,558, 7-24-73, Cl. 318-341.000.
Taterzynski, Sylvester R.; and Raeburn, George Dand. Spark gap devices and methods and apparatus for making same. 3,720,560, 3-13-73, Cl. 156-268.000.
Tates, Donald W.: *See—*
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Tatge, Harlan H. Helical plow. 3,735,817, 5-29-73, Cl. 172-532.000.
Tatge, Robert B.: *See—*
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Tatge, Robert B.; and Wells, Richard J., to United States of America, Army. Bearing deviation indicator. 3,763,465, 10-2-73, Cl. 340-16.00r.
Tatham, James P., to Continental Can Company, Inc. Control circuitry for direct current. 3,708,687, 1-2-73, Cl. 307-202.000.
Tatian, Berge, to Itek Corporation. Lens system having at least one thin, highly deformed plate with aspherical surfaces. 3,778,133, 12-11-73, Cl. 350-2.000.
Tatkishi, Mataji, to Mitsubishi Jukogyo Kabushiki Kaisha. Fuel injection pump construction. 3,773,440, 11-20-73, Cl. 417-490.000.
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Tatsuguchi, Kazoo, to Victor Company of Japan, Limited. Capstan phase matching system in an electronic editing mode for magnetic recording and reproducing apparatus. 3,772,468, 11-13-73, Cl. 179-100.20b.
Tatsukawa, Keizo: *See—*
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Tatsumi, Setsuo, to Nippon Kokan Kabushiki Kaisha. Method for automatically controlling thickness of a workpiece in a rolling mill. 3,709,010, 1-9-73, Cl. 72-8.000.
Tatsumi, Tetsuo: *See—*
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Tatsumi, Toshio; Kitani, Hideo; and Maruoka, Hideo, to Matsushita Electric Industrial Co., Ltd. Variable condenser. 3,739,244, 6-12-73, Cl. 317-253.000.
Tatsuno, Hiyoshi. Pipe coupling with safety valve. 3,741,521, 6-26-73, Cl. 251-149.700.
Tatsuno, Hiyoshi. Price register for fluid dispensing apparatus. 3,749,305, 7-31-73, Cl. 235-94.00r.
Tatsunori, Shikada, to Kanegafuchi Boseki Kabushiki Kaisha. Aqueous coagulation of salt containing polyurethane to form porous sheet. 3,714,307, 1-30-73, Cl. 264-49.000.
Tatsuta Electric Wire & Cable Co., Ltd.: *See—*
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Tatsuta, Mitsuo: *See—*
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Tatsuta, Sumitaka; and Ueno, Wataru, to Fuji Photo Film Co., Ltd. Method for the production of a photographic element. 3,723,159, 3-27-73, Cl. 117-47.00a.
Tatsutomi, Yasuo: *See—*
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Taylor, James L., to Sargent & Greenleaf, Inc. High security padlock for railroad switch locking mechanism. 3,754,419, 8-28-73, Cl. 70-52.000.

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Taylor, Jonathan Todd, to Combustion Engineering, Inc. Ionic flame monitor. 3,740,574, 6-19-73, Cl. 307-117.000.

Taylor, Joseph W., to Container Corporation of America. Heavy duty container. 3,744,701, 7-10-73, Cl. 229-23.00r.

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Taylor, Kenneth Roy; and Tovey, Stanley Wallace, to Aeroquip (U.K.) Limited. Fluid seal assembly. 3,761,100, 9-25-73, Cl. 277-65.000.

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Taylor, Lawrence A. Stool specimen collector. 3,754,287, 8-28-73, Cl. 4-1.000.

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Taylor, Lloyd D., to Polaroid Corporation. Neutralizing layers in diffusion transfer photographic film. 3,754,910, 8-28-73, Cl. 96-3.000.

Taylor, Lloyd D., to Polaroid Corporation. Polymeric mordant in color diffusion transfer image receiving layer. 3,770,439, 11-6-73, Cl. 96-77.000.

Taylor Lock Company: *See—*
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Taylor, Lou, Inc.: *See—*
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Taylor, Louis N., to Taylor, Lou, Inc. Patterned composite material. 3,728,203, 4-17-73, Cl. 161-39.000.

Taylor, Lynn J., to Owens-Illinois, Inc. Polymer and process for producing same from an epoxy monomer and a silicon containing co-reactant. 3,758,423, 9-11-73, Cl. 260-2.0ec.

Taylor, Lynn J.; and Grier, John D., to Owens-Illinois, Inc. Process for applying multiple microelectronic layers to substrate. 3,779,807, 12-18-73, Cl. 117-215.000.

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Taylor, Marvin, to AMBAC Industries, Incorporated. Gyrocompass. 3,780,444, 12-25-73, Cl. 33-327.000.

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Taylor, Marvin A.; and Taylor, Janet Louise. Enviromental playground for handicapped children. 3,737,161, 6-5-73, Cl. 272-60.000.

Taylor, Marvin A.; Johnson, Glenn H.; and Becker, H. Jack, 1/3 each to Taylor, Marvin A., Johnson, Glenn H. and Becker, H. Jack. Variable density contour chair. 3,751,111, 8-7-73, Cl. 297-456.000.

Taylor, Melvin L.; and Ronzio, Nelson J., to American Metal Climax, Inc. Treatment of nickel leach liquor. 3,720,749, 3-13-73, Cl. 423-141.000.

Taylor, Melvin L. Process for the selective recover of chromium from chromium containing materials and solutions. 3,772,422, 11-13-73, Cl. 423-56.000.

Taylor, Mildred L.: *See—*
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Dutro, Orville V.; and Hewson, Sherman H., 3,772,972.

Taylor, Morris C.; and Rhodes, John R., to United States of America, Atomic Energy Commission. Neutron activation analysis system. 3,781,556, 12-25-73, Cl. 250-302.000.

Taylor, Murland L. Weight scale for bag packer. 3,732,937, 5-15-73, Cl. 177-68.000.

Taylor, Nathan Eldred. Internal surface drum memory. 3,747,080, 7-17-73, Cl. 340-174.10e.

Taylor, Paul H. Fluid amplified liquid spring shock absorbers with improved piston heads. 3,722,640, 3-27-73, Cl. 188-316.000.

Taylor, Paul H. Fluid amplified liquid spring shocks and/or shock absorbers. 3,726,368, 4-10-73, Cl. 188-316.000.

Taylor, Percey Ronald, to Monsanto Chemicals Limited. Production of moulds. 3,747,663, 7-24-73, Cl. 164-25.000.

Taylor, Peter Graham, to Cambridge Scientific Instruments Limited. Disengageable nut and screw arrangement. 3,757,591, 9-11-73, Cl. 74-89.150.

Taylor, Philip. Register pin for vacuum frame. 3,771,870, 11-13-73, Cl. 355-91.000.

Taylor, Philip Thomas. Bale carrying and stacking apparatus. 3,746,186, 7-17-73, Cl. 214-6.00b.

Taylor, Philip W., to Taylor Industries, Inc. Sectional assembly of insulating enclosures for fuses. 3,742,413, 6-26-73, Cl. 337-201.000.

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Taylor, Richard Alan, to Birmingham Small Arms Company Limited, The. Method of producing silicon nitride articles. 3,778,231, 12-11-73, Cl. 423-290.000.

Taylor, Richard C.: *See—*
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Taylor, Richard F.; and Dimitriou, Christos, to Anglo-Transvaal Consolidated Investment Company, Limited. Control mechanism for rock cutting equipment. 3,778,106, 12-11-73, Cl. 299-1.000.

Taylor, Richard F., to Anglo-Transvaal Consolidated Investment Company, Limited. Rock breaking equipment. 3,778,113, 12-11-73, Cl. 299-86.000.

Taylor, Richard Francis, to Anglo-Transvaal Consolidated Investment Company Limited. Rotary driven rock cutting equipment. 3,743,033, 7-3-73, Cl. 173-4.000.

Taylor, Richard Francis, to Anglo-Transvaal Consolidated Investment Company Limited. Rock boring machine with swinging hammers and steering. 3,749,448, 7-31-73, Cl. 299-62.000.

Taylor, Richard Francis, to Anglo-Transvaal Consolidated Investment Company Limited. Rock boring machine having driven rotors with swinging hammers. 3,765,725, 10-16-73, Cl. 299-56.000.

Taylor, Richard P., to Mead Corporation, The. Multiple jet channel. 3,714,928, 2-6-73, Cl. 118-624.000.

Taylor, Richard P.; Van Brimmer, Russell H.; and Culp, Fred E., to Mead Corporation, The. Image construction system using multiple arrays of drop generators. 3,717,945, 2-27-73, Cl. 40-106.250.

Taylor, Robert A. Storage container for granular materials. 3,735,901, 5-29-73, Cl. 222-196.000.

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Taylor, Roland, to United Kingdom Atomic Energy Authority. Filters. 3,733,792, 5-22-73, Cl. 55-488.000.

Taylor, Roland S., to General Motors Corporation. Choke vacuum break unit. 3,773,023, 11-20-73, Cl. 123-119.00f.

Taylor, Ronald C., to Airway Industries, Inc. Luggage case. 3,763,973, 10-9-73, Cl. 190-49.000.

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Taylor, Samuel K., to Acme-Cleveland Corporation. Abrasive cleaning. 3,729,871, 5-1-73, Cl. 51-17.000.

Taylor, Stanford E.; and Harbor, Lloyd. Controlled reading device. 3,757,432, 9-11-73, Cl. 35-35.00b.

Taylor, Stanley E., to Cenco Medical/Health Supply Corporation. Suture dispenser package and method of making. 3,749,238, 7-31-73, Cl. 206-63.300.

Taylor, Ted R.; and Fergason, James L., to International Liquid Xtal Company. Temperature indicator using the Smectic C phase of a liquid crystal. 3,723,346, 3-27-73, Cl. 252-408.000.

Taylor, Ted R.; and Fergason, James L., to International Liquid Xtal Company. Liquid crystal memory, system utilizing the memory and methods of constructing and operating such a memory. 3,775,757, 11-27-73, Cl. 340-173.01s.

Taylor, Thomas B., to Anthes Eastern Limited. Device for preventing sediment build-up in gas water heaters. 3,762,395, 10-2-73, Cl. 126-350.00r.

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Taylor, Vincent J.; and Robison, Leslie P., to United States of America, Navy. Rocket launcher. 3,748,954, 7-31-73, Cl. 89-1.807.

Taylor, Ward T. Hand exerciser. 3,747,593, 7-24-73, Cl. 128-26.000.

Taylor, Warren I., to Burroughs Corporation. Method and apparatus for providing alternate storage areas on a magnetic disk pack. 3,771,143, 11-6-73, Cl. 340-172.500.

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Taylor, William D., to Rubbermaid Sales Corporation. Foldable plate and cup rack. 3,763,790, 10-9-73, Cl. 108-30.000.

Taylor, William Eric, to Turnock, George, Limited and Shelton, Henry Charles. Unitary insulating housing for rocker switches. 3,732,388, 5-8-73, Cl. 200-168.00c.

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Taylor, William S., to FIC Industries, Inc. Precision level measurement and control apparatus. 3,729,667, 4-24-73, Cl. 318-482.000.

Taylor, William W. Servomechanism. 3,759,145, 9-18-73, Cl. 91-459.000.

Taylor, Willis H., III, to United States of America, Army. Method and apparatus for extracting lodged projectiles. 3,750,262, 8-7-73, Cl. 29-427.000.

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Tazaki, Kimio; Yamamoto, Hajine; Hinoshita, Shigehiko; and Hagiwara, Shoji, to Nippon Telegraph and Telephone Public Corporation. Multilevel signal transmission system. 3,733,550, 5-15-73, Cl. 325-38.00a.

Tazaki, Kimio; Yamamoto, Hajime; Hinoshita, Shigehiko; and Hagiwara, Shoji, to Nippon Telegraph and Telephone Public Corporation and Fujitsu Limited. Multilevel signal transmission system. 3,761,818, 9-25-73, Cl. 325-38.00a.

Tazaki, Michiharu, to Kyoeikogyo Kabushikikaisha. Drawer suspension apparatus. 3,743,366, 7-3-73, Cl. 308-3.800.

Tazome, Masaru, to SKB Arms Company. Gas-operated cartridge feeding system for tubular magazine firearms. 3,709,092, 1-9-73, Cl. 89-191.000.

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Te Velde, Ties Siebolt, to U.S. Philips Corporation. Method of manufacturing a radiation-sensitive electronic device. 3,729,342, 4-24-73, Cl. 117-217.000.

Te Velde, Ties Siebolt, to U.S. Philips Corporation. Method of manufacturing electronic devices. 3,736,476, 5-29-73, Cl. 317-234.00r.

te Velde, Ties Siebolt, to U.S. Philips Corporation. Method for making electrical monograin layer. 3,764,325, 10-9-73, Cl. 96-38.400.

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Teach, Eugene G., to Stauffer Chemical Company. Anilide dithiolanes and dithianes. 3,772,334, 11-13-73, Cl. 260-327.00m.

Teach, Eugene G.; and Menn, Julius J., to Stauffer Chemical Company. Acylate anilide carbamate anthelmintic compositions and methods of using the same. 3,777,035, 12-4-73, Cl. 424-300.000.

Teach, Eugene G., to Stauffer Chemical Company. Phenoxy acetals. 3,780,104, 12-18-73, Cl. 260-562.00r.

Teach, Eugene G., to Stauffer Chemical Company. Substituted ureido dioxolanes and dioxanes and their utility as herbicides. 3,781,305, 12-25-73, Cl. 260-340.900.

Teach, Eugene G., to Stauffer Chemical Company. Meta-carbanilate ethers. 3,781,327, 12-25-73, Cl. 260-471.00c.

Teaff, Miriam M. Collapsible coiffure covering. 3,708,803, 1-9-73, Cl. 2-198.000.

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Teagno, Wladimiro; and Trevisiol, Franco, to AMP Incorporated, mesne. PCB surface connector. 3,744,009, 7-3-73, Cl. 339-128.000.

Teagno, Wladimiro; and Campari, Luigi. Strain relieved thin wire two part connector. 3,764,958, 10-9-73, Cl. 339-105.000.

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Teller, Aaron J., to Teller Environmental Systems, Inc. Process for recovery of acid gases. 3,721,066, 3-20-73, Cl. 55-71.000.
Teller, Aaron J., to Teller Environmental Systems, Inc. Process for cooling liquids by cross current contact with gases. 3,759,496, 9-18-73, Cl. 261-94.000.





Teller, Aaron J., to Wellman-Lord, Inc. Process for recovering gaseous HF from gaseous effluents. 3,773,633, 11-20-73, Cl. 204-
Temple, Michael D.: *See—*
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Teller, Aaron J., to Wellman-Lord, Inc. Process for recovering gaseous HF from gaseous effluents. 3,773,633, 11-20-73, Cl. 204-67.000.

Teller, Daniel M.: *See—*
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Tellerman, Edward M., to Stop-Motion Devices Corporation. Control means for textile producing machines. 3,710,595, 1-16-73, Cl. 66-157.000.

Tellerman, Edward M.; Kashden, Richard Paul; Schussel, Edward W.; and Vossen, Robert J., to Wesco Industries Corporation. Yarn feeding and storage device for textile producing machine. 3,737,112, 6-5-73, Cl. 242-47.010.

Tellier, Andre. Candle with optical lens insert. 3,773,460, 11-20-73, Cl. 431-289.000.

Tellier, Jacques C. T.; and De Boer, Henri G. J., to GAF Corporation. Electrophotographic reproduction material. 3,721,552, 3-20-73, Cl. 96-1.500.

Tellier, Jacques C. T., to GAF Corporation. Liquid electrophotographic developers. 3,776,849, 12-4-73, Cl. 252-62.500.

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Teman, Zale E., to GTE Automatic Electric Laboratories, Incorporated. Shielded right-angle panel mount coaxial connector. 3,750,090, 7-31-73, Cl. 339-130.00c.

Temco Contact Ltd.: *See—*
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Temes, Gabor C., to Collins Radio Company. Asymmetrical loss-pole mechanical filter. 3,725,828, 4-3-73, Cl. 333-71.000.

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Tempel, Albert; and Kolman, Hendrik, to North American Philips Co., Inc. 2-Thiocyanomethylsulfonyl benzothiazole. 3,753,999, 8-21-73, Cl. 260-306.60r.

Tempel, Fred, to Westinghouse Air Brake Company. Automatic air hose connector. 3,731,953, 5-8-73, Cl. 285-12.000.

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Temple, Ernest E., to Mine Safety Appliances Company. Water pressure actuated electric switch for cable cutter. 3,739,673, 6-19-73, Cl. 83-639.000.

Temple, Ernest E.; and Giebel, Joseph L., to Mine Safety Appliances Company. Explosively actuated underwater anchor line cutter. 3,760,674, 9-25-73, Cl. 83-370.000.

Temple, Ernest E., to Mine Safety Appliances Company. Explosively operated deep water tool. 3,763,738, 10-9-73, Cl. 89-1.000.

Temple, Fred: *See—*
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Temple, Ralph E.; and Gooding, William T., Jr., to Diamond Shamrock Corporation. Preparation of expanded silicate-based aggregates. 3,719,510, 3-6-73, Cl. 106-40.000.

Temple, Robert; Temple, Ernest E.; and Giebel, Joseph L., to Mine Safety Appliances Company. Signal flare for floating mines. 3,755,837, 9-4-73, Cl. 9-8.30r.

Temple, Robert D.: *See—*
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Temple, Robert D., to Procter & Gamble Company, The. Oligomeric quaternary ammonium antibacterial agents. 3,719,711, 3-6-73, Cl. 260-567.60p.

Temple, Sidney J., to Emerson Electric Co. Electric heating assembly. 3,772,498, 11-13-73, Cl. 219-336.000.

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Templeton, John Glenn; and Seitz, Calvin W., to Rospatch Corporation. Label package assembly. 3,709,402, 1-9-73, Cl. 221-33.000.

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Templeton, William E. Cutter bar assembly. 3,722,196, 3-27-73, Cl. 56-298.000.

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Templin, Gail H., to TCT Engineering, Inc. Adjustable fixture means for maintaining wooden truss members in proper position during fabrication of a truss. 3,749,391, 7-31-73, Cl. 269-321.00f.

Templin, Gail H. Apparatus for pre-fabricating wood structures. 3,757,681, 9-11-73, Cl. 100-214.000.

Templin, Jackson R., to General Motors Corporation. Gas turbine system with regenerator bypass only during starting. 3,717,994, 2-27-73, Cl. 60-39.50r.

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Ten Haaf, Johannes Josephus; and Heuts, Louis Bernard, to Oce-van der Grinten N.V. Planographic diazo printing plate. 3,756,823, 9-4-73, Cl. 96-75.000.

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Tenenholtz, Robert, to Microwave Associates, Inc. Noise limiters for electronic high-frequency oscillators. 3,718,867, 2-27-73, Cl. 331-91.000.

Teng, James; Rha, Chokyun; Scallet, Barry L.; and Stubits, Marcella C., to Anheuser-Busch, Incorporated. Hydrocarbons and non-polar solvents gelled with a lipophilic polymeric carbohydrate derivative. 3,730,693, 5-1-73, Cl. 44-7.00b.

Teng, James; Rha, Chokyun; Scallet, Barry L.; and Stubits, Marcella C., to Anheuser-Busch, Incorporated. Process of making powered cellulose laurate. 3,732,205, 5-8-73, Cl. 260-224.000.

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Tenkumo, Shohei; and Egawa, Takeshi, to Minolta Camera Kabushiki Kaisha. Lens shutter control mechanism for a single lens reflex camera. 3,715,964, 2-13-73, Cl. 95-42.000.





Tenkumo, Shohei; and Egawa, Takeshi, to Micro Mega S.A. Interchangeable lens type camera. 3,747,495, 7-24-73, Cl. 95-53.0ca.

Tenkumo, Shohei, to Minolta Camera Kabushiki Kaisha. Control apparatus for varying camera exposure conditions. 3,762,285, 10-2-73, Cl. 95-10.0ce.

Tenn, James: *See—*
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Tennis, Francis H., to Hydraulic Industries, Inc. Pressure compensated control valve. 3,722,543, 3-27-73, Cl. 137-596.120.

Tennis, Francis H., to Hydraulic Industries, Inc. Control valve means for fluid motors. 3,730,219, 5-1-73, Cl. 137-596.000.

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Tenniswood, David M.; Arnold, John E.; Kaptur, Robert E.; Tonchev, Toncho G.; and Franke, Herbert J., to Gemco Electric Company. Adjustable control switching mechanism. 3,757,135, 9-4-73, Cl. 307-139.000.

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Teoli, Anthony. Railway car. 3,713,400, 1-30-73, Cl. 105-406.00r.

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ter Veen, William B., to Scovill Manufacturing Company. Intercommunication system. 3,728,493, 4-17-73, Cl. 179-37.000.





Ter Veen, William B., to Scovill Manufacturing Company. Intercommunication and remote unit selection system employing a

Terasaki, Richard M., to United States of America, Air Force. Vehicle attitude sensor. 3,749,914, 7-31-73, Cl. 250-394.000





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Theis, James V., Jr., to Hollymatic Corporation. Speed governed rotary device. 3,733,143, 5-15-73, Cl. 415-80.000.
Theis, James V., Jr. Kite. 3,735,949, 5-29-73, Cl. 244-155.00a.



Theis, James V., Jr.; and Davis, Lynn M., to Hollymatic Corporation. Variable speed governor. 3,767,320, 10-23-73, Cl. 415-30.000.
Theodore, Paris, to Seventrees, Ltd. Secure holster for revolvers. 3,777,952, 12-11-73, Cl. 224-2.00b.
Theodore, Paris, to Seventrees, Ltd. Cartridge pouch. 3,777,964, 12-11-73, Cl. 224-39.000.



Therond, Jean-Francois: *See—*

Theis, James V., Jr.; and Davis, Lynn M., to Hollymatic Corporation. Variable speed governor. 3,767,320, 10-23-73, Cl. 415-30.000.

Theisen, Dieter: *See—*
Graulich, Wilhelm; Beck, Manfred; Marwede, Gunter; and Theisen, Dieter, 3,769,369.
Hombach, Rudolf; and Theisen, Dieter, 3,763,067.
Schon, Nikolaus; Pampus, Gottfried; Witte, Josef; and Theisen, Dieter, 3,753,928.

Theisen, Dieter; Haas, Friedrich; and Beck, Manfred, to Bayer Aktiengesellschaft. Mixtures of ethylene-propylene rubbers and polypentenamers. 3,732,338, 5-8-73, Cl. 260-897.000.

Theisen, John W. Prefabricated stackable stair unit. 3,720,024, 3-13-73, Cl. 52-185.000.

Theiss, Armin: *See—*
Schmidt, Gunther; Theiss, Armin; Dederra, Carl-Helmut; and Kaiser, Leonnard, 3,729,793.

Theissen, Ferdinand: *See—*
Lussling, Theodor; Theissen, Ferdinand; and Wolfgang, Offenbach, 3,714,251.
Lussling, Theodor; Theissen, Ferdinand; and Weigert, Wolfgang, 3,729,499.
Schreyer, Gerd; Theissen, Ferdinand; and Weiberg, Otto, 3,737,519.
Schreyer, Gerd; Theissen, Ferdinand; Wieberg, Otto; and Weigert, Wolfgang, 3,761,580.

Theissen, Robert J., to Mobil Oil Corporation. Halophenoxy benzoic acid herbicides. 3,776,715, 12-4-73, Cl. 71-111.000.

Theissen, Robert J., to Mobil Oil Corporation. 2-Substituted 4-nitrophenyl halophenyl ethers. 3,776,961, 12-4-73, Cl. 260-613.00r.

Thelander, Ernst Georg: *See—*
Rasmusson, Stig Arne Rasmus; Dahlstrom, Leif Key Tommy; and Thelander, Ernst Georg, 3,719,284.

Thelemaque, Louis Emanuel: *See—*
Romero, Roderic; and Thelemaque, Louis Emanuel, 3,745,259.
Stidham, James Richard; and Thelemaque, Louis Emanuel, 3,777,058.

Thelen, Alfred, to Balzers Patent- und Beteiligungs-Aktiengesellschaft. Interference filter reflecting a certain wave length band within a given wave length range while letting pass other wave length bands of the range. 3,759,604, 9-18-73, Cl. 350-166.000.

Thelen, Jerome P. Combination camperstep, tire carrier and trailer hitch. 3,779,580, 12-18-73, Cl. 280-164.000.

Thelen, Johannes, to Walther & Cie Aktiengesellschaft. Process and apparatus for preheating powder. 3,738,794, 6-12-73, Cl. 432-14.000.

Thelford Corporation: *See—*
Riedel, Rogers; and Lepore, Anthony, 3,755,827.

Thelin, Karl Hugo: *See—*
Delin, Per Staffan; Ekstrom, Bertil Ake; Nathorst-Westfelt, Lars Solve; Sjoberg, Berndt Olof Harald; and Thelin, Karl Hugo, 3,736,230.

Thellman, Edward L., to Gould Inc., mesne. Bimetal fastener. 3,762,266, 10-2-73, Cl. 85-37.000.

Thelin, William, to Bell Telephone Laboratories, Incorporated. Switched oscillator clock pulse generator. 3,769,607, 10-30-73, Cl. 331-2.000.

Thellufsen, Jorn, to GNT Automatic A/S. Braking systems for an intermittent driving mechanism. 3,765,516, 10-16-73, Cl. 188-85.000.

Them, Edward G., to Therm-O-Disc, Incorporated. Thermal fuse. 3,715,697, 2-6-73, Cl. 337-157.000.

Them, Edward G.; and Wharton, Gerald R., to Therm-O-Disc Incorporated. Thermostat with multi-position sensing element. 3,732,518, 5-8-73, Cl. 337-394.000.

Theml, Horst, to Licentia Patent-Verwaltungs-G.m.b.H. Method for filling orders with a sorting conveyor. 3,771,679, 11-13-73, Cl. 214-152.000.

Theml, Oskar: *See—*
Bock, Erwin; and Theml, Oskar, 3,778,897.

Thentham Corporation: *See—*
Frye, Elroy E.; and Trentham, Harold L., 3,767,777.

Theobald, Paul R.; and Bailey, Joseph T., to American Lava Corporation. Alumina palladium composite. 3,723,176, 3-27-73, Cl. 117-212.000.

Theobald, Reiner, to Vereinigte Deutsche Metallwerke AG. Method of effecting a pipe coupling. 3,729,791, 5-1-73, Cl. 29-157.00r.

Theodore, Ares N.: *See—*
Labana, Santokh S.; and Theodore, Ares N., 3,758,632.
Labana, Santokh S.; Chang, Yun Feng; and Theodore, Ares N., 3,758,635.

Theodore, Ares N.; and Labana, Santokh S., to Ford Motor Company. Powdered coating compositions containing glycidyl methacrylate copolymers with anhydride crosslinking agents and flow control agent. 3,781,379, 12-25-73, Cl. 260-836.000.

Theodore, Paris. Grips for handguns. 3,758,978, 9-18-73, Cl. 42-71.00p.

Theodore, Paris. Gunsight. 3,777,380, 12-11-73, Cl. 42-1.008.

Theodore, Paris, to Seventrees, Ltd. Secure holster for revolvers. 3,777,952, 12-11-73, Cl. 224-2.00b.

Theodore, Paris, to Seventrees, Ltd. Cartridge pouch. 3,777,954, 12-11-73, Cl. 224-19.000.

Theodorides, Irene. Hair curling implement. 3,779,255, 12-18-73, Cl. 132-41.00a.

Theodorides, Vassilios J.: *See—*
Actor, Philip P.; Parish, Roger C.; and Theodorides, Vassilios J., 3,716,641.

Theodosopoulos, James; and MacKay, Stanley, to Sylvania Electric Products, Inc. Dark coated meater for vacuum tube cathode. 3,737,714, 6-5-73, Cl. 313-337.000.

Therachemie Chemisch Therapeutische Gesellschaft: *See—*
Schrader, Dieter, 3,775,044.

Therator Pumps, Inc.: *See—*
McGurk, William L., 3,756,578.

Theriault, Robert John; Fager, Earl Elmer; and Wideburg, Norman Earl, to Abbott Laboratories. 2-Hydroxy-2-carboxyethyl-N-(7- or 8-chloro-4 quinolinyl)anthranilate. 3,764,603, 10-9-73, Cl. 260-287.000.

Therm-O-Disc, Incorporated: *See—*
Bletz, Howard W., 3,735,319.
Gerich, Anton J., 3,739,643.
Gerich, Anton J., 3,748,888.
Them, Edward G., 3,715,697.
Them, Edward G.; and Wharton, Gerald R., 3,732,518.

Therma-Ray, Inc.: *See—*
Brasky, Joseph L., 3,751,630.

Thermal Hydraulics Corporation: *See—*
Staschke, Marvin A.; and Kryczko, Henry, 3,712,052.

Thermal Laminating Corporation: *See—*
Levitan, Maurice D., 3,737,359.

Thermal Reduction Corporation: *See—*
Mullarkey, Thomas W., 3,772,958.

Thermal Research & Engineering Corporation: *See—*
Santoleri, Joseph J., 3,738,353.

Thermal Transfer Corporation: *See—*
Krause, Wilhelm, 3,708,599.

Thermann, Hans-Christof: *See—*
Postulka, Simon; Vorderbrugge, Hermann; and Thermann, Hans-Christof, 3,737,963.

Thermark Corporation: *See—*
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Thermasan Corporation: *See—*
Sargent, Charles L.; and Hoffman, John A., 3,731,490.
Sargent, Charles L., 3,740,773.

Thermatool Corporation, mesne: *See—*
Oppenheimer, Edgar D., 3,763,342.

Thermex, Inc.: *See—*
Flingler, Josef P., 3,739,642.
Klingler, Josef F.; Braverman, Theodore; and Klingler, Charles E., 3,717,035.

Thermex, Inc., mesne: *See—*
Klingler, Josef F., 3,727,461.

Thermo Electron Corporation: *See—*
Doyle, Edward F.; and Le Feuvre, Thomas, 3,740,057.
Kitrilakis, Sotiris S., 3,721,509.
LeFeuvre, Thomas, 3,727,406.
Lieb, David P., 3,763,877.
Morgan, Dean T., 3,734,402.
Pezaris, Constantine D.; and Trame, Paul J., 3,748,966.
Vasilakis, Andrew D.; and Bonk, Stanley P., 3,726,633.

Thermo King Corporation: *See—*
Howland, Leland L., 3,708,683.
Howland, Leland L., 3,726,104.
Martin, Robert L.; Howland, Leland L.; and Eichinger, Le Roy J., 3,720,842.

Thermo Weave, Inc.: *See—*
Miller, Paul L., 3,767,495.

Thermo-Chem Corporation: *See—*
Lewis, Jesse M., 3,756,618.

Thermo-Chem Systems, Inc.: *See—*
Cettin, Edward J.; Pappas, Jimmy P.; and Lager, Sam E., 3,709,203.

Thermo-Couple Products Company, Inc.: *See—*
Finney, Philip F., 3,728,660.

Thermo-Electronics, Inc.: *See—*
Ehrens, Henry; and Slocum, Charles W., 3,725,757.

Thermo-Products, Inc.: *See—*
Pugh, Hubert M., 3,758,086.

Thermocycle, Inc.: *See—*
Citrin, Yale; and Imperatore, Thomas, 3,726,364.

Thermoseal Glass Corporation: *See—*
Newman, Irvin; and Strengholt, Roy, 3,760,157.

Thermotech Inc.: *See—*
Whittaker, Harold F., 3,774,817.

Thermotics, Inc.: *See—*
Kimmel, J. D.; and Clark, George M., 3,710,448.
Kimmel, J. D., 3,732,920.

Thermovatic Sverre K. Jenssen AB: *See—*
Jenssen, Sverre Knut, 3,719,227.





Therond, Jean-Francois: *See—*
Barret, Jean-Pierre; Therond, Jean-Francois; and Harbonn, Jacques, 3,745,518.

Therres, John J. Fishing line float. 3,757,453, 9-11-73, Cl. 43-43.140.

Therwil, Juerg Merz, to Ciba-Geigy AG. Process for the manufacture of tertiary butylates. 3,772,355, 11-13-73, Cl. 260-429.00r.

Thetford Corporation: *See—*
Miller, Marshall W., 3,727,242.
Sargent, Charles L.; Miller, Marshall W.; and Adiska, Gary R., 3,751,735.
Sargent, Frank T., 3,727,784.
Sargent, Frank T.; and Andersen, James M., 3,747,130.
Vanden Broek, Christiaan J. H., 3,779,509.

Thetto, Raghulinga R., to Xerox Corporation. Wicking apparatus. 3,745,972, 7-17-73, Cl. 118-261.000.

Thettu, Raghulinga R., to Xerox Corporation. Oil dispensing apparatus. 3,718,116, 2-27-73, Cl. 118-266.000.

Theuer, Werner: *See—*
Von Bonin, Wulf; Honig, Hans Ludwig; and Theuer, Werner, 3,726,822.

Theuerer, Henry C.; and Turner, Paul A., to Bell Telephone Laboratories, Incorporated. Method for reducing interdiffusion rates between thin film components. 3,751,293, 8-7-73, Cl. 117-217.000.

Theurer, Josef: *See—*
Plasser, Franz; and Theurer, Josef, 3,722,423.
Plasser, Franz; and Theurer, Josef, 3,735,708.
Plasser, Franz; and Theurer, Josef, 3,744,428.
Plasser, Franz; Theurer, Josef; and Schweinhammer, Manfred, 3,751,815.
Plasser, Franz; and Theurer, Josef, 3,768,168.
Plasser, Franz; and Theurer, Josef, 3,769,715.
Plasser, Franz; and Theurer, Josef, 3,779,170.

Theurer, Josef; and Benda, Ekkehardt, to Plasser, Franz, Bahnbaumaschinen-Industriegesellschaft m.b.H. Mobile track tamper. 3,719,150, 3-6-73, Cl. 104-12.000.

Theurer, Josef, to Plasser, Franz, Bahnbaumaschinen-Industriegesellschaft m.b.H. Mobile machine for depositing and storing used rail fastening means parts in receptacles. 3,731,455, 5-8-73, Cl. 53-391.000.

Theurer, Josef, to Plasser, Franz, Bahnbaumaschinen-Industriegesellschaft m.b.H. Mobile track working machine. 3,747,536, 7-24-73, Cl. 104-47.00r.

Theurer, Josef, to Plasser, Franz, Bahnbaumaschinen- Industriegesellschaft m.b.H. Pallet for transporting track ties. 3,752,332, 8-14-73, Cl. 214-10.50r.

Theurer, Josef, to Plasser, Franz, Bahnbaumaschinen- Industriegesellschaft m.b.H. Impact socket wrench tool. 3,759,334, 9-18-73, Cl. 173-22.000.

Theurer, Josef; Praschl, Wilhelm; and Bock, Gernot, to Plasser, Franz, Bahnbaumaschinen-Industriegesellschaft m.b.H. Mobile track working machine. 3,762,333, 10-2-73, Cl. 104-12.000.

Thevenaz, Louis, to Bolex International S.A. Cinematographic projector. 3,751,148, 8-7-73, Cl. 352-123.000.

Thevenin, Claude Gabriel Jean: *See—*
Vincent, Jean Gabriel; and Thevenin, Claude Gabriel Jean, 3,766,429.

Thevenot, Henry. Electric travelling powered maintenance scaffold. 3,752,263, 8-14-73, Cl. 182-148.000.

Thevis, Paul; Schneider, Adolf; and Jakubaschk, Horst, to Olympia Werke AG. Rockable impression device for a printing machine. 3,721,186, 3-20-73, Cl. 101-297.000.

Thexton, Graham Spencer: *See—*
Morton, John; Stevens, Keith Drummond; and Thexton, Graham Spencer, 3,737,821.
Morton, John; Stevens, Keith Drummond; and Thexton, Graham Spencer, 3,764,870.

Thexton Manufacturing Company: *See—*
Stoakes, Donald S.; and Brock, Kenneth D., 3,746,974.

Theysohn, Helmuth. Extruder control system. 3,728,056, 4-17-73, Cl. 425-142.000.

Thibaudon, Dominique: *See—*
Paris, Rene A.; Thibaudon, Dominique; Roubin, Marc P.; and Paris, Jacques M., 3,732,091.

Thibault, Claude: *See—*
Donche, Alain; Thibault, Claude; Arretz, Emmanuel; and Pfister, Alain, 3,725,394.

Thibault, Jacques P. Electrical heating envelopes. 3,772,500, 11-13-73, Cl. 219-535.000.

Thibault, Jean-Jacques: *See—*
Boissin, Jean-Claude; and Thibault, Jean-Jacques, 3,769,806.

Thibeault, Joseph G. Lace tightener. 3,771,699, 11-13-73, Cl. 223-113.000.

Thibert, John N. Oral implant stabilizer and denture support. 3,748,739, 7-31-73, Cl. 32-10.00a.

Thicthener, Edward P., to Savin Business Machines Corporation. Electrostatic charging apparatus. 3,758,779, 9-11-73, Cl. 250-325.000.

Thiebaut, Albert: *See—*
Leroy, Marcel; and Thiebaut, Albert, 3,760,777.

Thiegs, Bernard J.: *See—*
Stavropoulos, William, S.; and Thiegs, Bernard J., 3,711,250.

Thiel, Alfons W. Method for producing thermoplastic articles having thin double walls. 3,767,501, 10-23-73, Cl. 156-199.000.

Thiel, Anton: *See—*
Gilles, Martin; and Thiel, Anton, 3,776,094.
Gilles, Martin; and Thiel, Anton, 3,776,571.

Thiel, Max: *See—*
Kampe, Wolfgang; Fauland, Erich; Thiel, Max; Dietmann, Karl; and Juhran, Wolfgang, 3,781,273.
Wiedemann, Fritz; Thiel, Max; Stach, Kurt; Roesch, Egon; and Hardebeck, Klaus, 3,749,724.
Winter, Werner; Thiel, Max; Stach, Kurt; Schmidt, Felix Helmut; and Stork, Harald, 3,736,334.
Witt, Ernst-Christian; Stach, Kurt; Thiel, Max; Schmidt, Felix Helmut; and Stork, Harald, 3,781,328.

Thiele, Edwin R. Board game apparatus. 3,773,326, 11-20-73, Cl. 273-134.00c.

Thiele, Ernst. Valveless oscillating displacement pump. 3,756,748, 9-4-73, Cl. 417-158.000.

Thiele, Geraldine H. Method of treating bone fractures and non-unions. 3,741,204, 6-26-73, Cl. 128-92.00r.

Thiele, Geraldine H. Non-surgical removal of abnormal bone proliferation. 3,767,812, 10-23-73, Cl. 424-315.000.

Thiele, Guenther, to Glasurit-Werke M. Winkelmann GmbH. Flexible laminated package. 3,770,122, 11-6-73, Cl. 206-84.000.

Thiele, Hans Hermann: *See—*
Closse, Annemarie; and Thiele, Hans Hermann, 3,764,671.

Thiele, Heinrich: *See—*
Thiele, Heinrich; and Soehnges, Wilhelm P. (said Soehnges assor. to said), 3,760,045.

Thiele, Heinrich; and Soehnges, Wilhelm P., said Soehnges assor. to said Thiele, Heinrich. Process of preparing shaped optical bodies useful as aids to vision. 3,760,045, 9-18-73, Cl. 264-1.000.

Thiele Kaolin Company: *See—*
Smith, Samuel Joseph, III, 3,744,630.

Thiele, Kurt: *See—*
Posselt, Klaus; and Thiele, Kurt, 3,715,369.

Thiele, Kurt; and von Bebenburg, Walter, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Benzyl amino carbamate substituted pyridines. 3,712,900, 1-23-73, Cl. 260-295.50c.

Thiele, Kurt, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Use of acetoacetylamino diphenyl amines as anti-inflammatory agents. 3,719,762, 3-6-73, Cl. 424-324.000.

Thiele, Kurt; and Posselt, Klaus, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Basic substituted ketosteroids. 3,733,340, 5-15-73, Cl. 260-397.400.

Thiele, Kurt; and Posselt, Klaus, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Basic dithienyl compounds. 3,766,173, 10-16-73, Cl. 260-240.00r.

Thiele, Robert E., to United States Steel Corporation. Panel joint assembly with drainage cavity. 3,759,007, 9-18-73, Cl. 52-533.000.

Thiele, Rudolf, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Signal transmission system. 3,742,437, 6-26-73, Cl. 340-3.00d.

Thiele, Werner: *See—*
Richter, Heinz; and Thiele, Werner, 3,735,236.

Thiele, Wolfgang, to Metallgesellschaft Aktiengesellschaft. Mechanical damping structure. 3,754,746, 8-28-73, Cl. 267-157.000.

Thielemann, Rudolf H.: *See—*
Danesi, Wilbert P.; and Thielemann, Rudolf H., 3,720,509.

Thielen, James E., to Minnesota Mining and Manufacturing Company. Mop frame assembly. 3,778,860, 12-18-73, Cl. 15-174.00a.

Thielking, Roger C., to General Electric Company. Chroma clamping circuit. 3,736,370, 5-29-73, Cl. 178-5.40r.

Thiels, Albert Frans: *See—*
De Belder, Maurice Hector; Bollen, Romain Henri; Stievenart, Emile Frans; and Thiels, Albert Frans, 3,726,034.

Thiem Corporation: *See—*
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Thiem Corporation, mesne: *See—*
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Thieme, Gerhard: *See—*
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Thieme, Klaus-Dietrich: *See—*
Gatermann, Willi; Sorgel, Rolf; Mudder, Hinderk; Thieme, Klaus-Dietrich; Sedlacek, Herbert; Weers, Uwe; and Hermes, Heinz, 3,748,955.

Thien, Gerhard; and Fachbach, Heinz, to List, Hans. Sound-proofing wall-forming structural element. 3,773,141, 11-20-73, Cl. 181-33.00g.

Thierman, Irwin B. Dental floss tooth cleaning tool. 3,734,107, 5-22-73, Cl. 132-92.00a.

Thiermann, William E. Utility service trailer. 3,734,540, 5-22-73, Cl. 280-482.000.





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Thierry, Robert J., to United States of America, as represented by the Secretary of the Navy. Method of making a fiber reinforced composite. 3,772,125, 11-13-73, Cl. 161-93.000.

Thierry, Robert J., to United States of America, as represented by the Secretary of the Navy. Method of making a fiber reinforced composite. 3,772,126, 11-13-73, Cl. 161-93.000.

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Thierry, Robert J., to United States of America, as represented by the Secretary of the Navy. Method of making a fiber reinforced composite. 3,772,128, 11-13-73, Cl. 161-93.000.

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Thierry, Robert J., to United States of America, as represented by the Secretary of the Navy. Method of making a fiber reinforced composite. 3,772,135, 11-13-73, Cl. 161-93.000.

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Thierry, Robert J., to United States of America, as represented by the Secretary of the Navy. Method of making a fiber reinforced composite. 3,772,142, 11-13-73, Cl. 161-93.000.

Thierry, Robert J., to United States of America, as represented by the Secretary of the Navy. Method of making a fiber reinforced composite. 3,772,143, 11-13-73, Cl. 161-93.000.

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Thierry, Robert J., to United States of America, as represented by the Secretary of the Navy. Method of making a fiber reinforced composite. 3,772,153, 11-13-73, Cl. 161-93.000.

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Thomas, Alan; and Heath, Ronald Alfred, to Lucas, Joseph, (Industries) Limited. Fluid pressure transducers. 3,723,926, 3-27-73, Cl. 335-268.000.
Thomas, Alan, to Lucas, Joseph, (Industries) Limited. Fluid pressure transducers. 3,774,451, 11-27-73, Cl. 73-398.00c.
Thomas, Alan; and Heath, Ronald Alfred, to Lucas, Joseph, (Industries) Limited. Fluid pressure transducers. 3,777,570, 12-11-73, Cl. 73-398.00c.
Thomas, Albert J., Jr.: *See—*
Huskins, Chester W.; and Thomas, Albert J., Jr., 3,770,786.
Huskins, Chester W.; and Thomas, Albert J., Jr., 3,781,179.
Thomas, Albert William; Neilson, John Manning Savidge; and Greenberg, Leon Stanley, to RCA Corporation. Integral thyristor-rectifier device. 3,727,116, 4-10-73, Cl. 317-235.00r.
Thomas, Alfred: *See—*
Holzmann, Rainer; Kader, Reiner; and Thomas, Alfred, 3,718,724.
Thomas, Alun: *See—*
Lindsay, Roger; Thomas, Alun; Finlay, Ian C.; and Wilson, John L., 3,763,838.
Thomas, Alvin D., Jr.; and Thornton, Joseph Scott, to Tracor, Inc. Fatigue strain gauges. 3,779,071, 12-18-73, Cl. 73-88.50r.
Thomas, Andre G.; and Fetissoff, Basile, to Etablissements Hutchinson-Compagnie Nationale du Caoutchouc. Inflatable air mattresses and like articles. 3,780,388, 12-25-73, Cl. 5-349.000.
Thomas, Arwyn Theophilus; and Williams, Raymond James. Manufacture of fuze heads. 3,763,783, 10-9-73, Cl. 102-28.00m.
Thomas, Brian Edward Alston, to Porvair Limited. Recovery of dimenthyl formamide by crystallization and distillation. 3,713,991, 1-30-73, Cl. 203-48.000.
Thomas, Carlton E.; and Massey, Norman G., to KMS Industries, Inc. Method and apparatus for recording intelligence on a sheet material. 3,758,187, 9-11-73, Cl. 350-3.500.
Thomas, Carlton E., to KMS Industries, Inc. Method and apparatus for personal identification. 3,781,113, 12-25-73, Cl. 356-71.000.
Thomas, Charles C., to Mississippi State University Development Foundation, Inc. Magnetically attracted bobbins. 3,716,202, 2-13-73, Cl. 242-118.700.
Thomas, Charles D., to Biggar, F. M., Jr. Drive connection between a printing press and a fanfolding machine. 3,762,698, 10-2-73, Cl. 270-20.000.
Thomas, Charles E., to Koppers Company, Inc. Pressure system for expanding shafts. 3,742,714, 7-3-73, Cl. 60-484.000.
Thomas, Charles H. Unitary plastic bed frame. 3,717,887, 2-27-73, Cl. 5-280.000.
Thomas, Charles T., to United States of America, Air Force. Optical receiver with extended source discrimination. 3,781,547, 12-25-73, Cl. 250-203.00r.
Thomas, Chas E., to Sparton Corporation. Method of forming an insulated feed-through seal. 3,734,995, 5-22-73, Cl. 264-322.000.
Thomas Concrete Products Company: *See—*
Sturm, Edward R., 3,779,505.
Thomas, Dalton A. Safety brake system for vehicles. 3,721,310, 3-20-73, Cl. 180-111.000.
Thomas, Dalton A., 30% to Beasley, Hazel A., 20% to Thompson, Woodford R., Jr., 20% to Carter, Hugh and 20% to Murray, William K., mesne. Gear selector for a transmission. 3,780,840, 12-25-73, Cl. 192-48.910.
Thomas, Daniel C., to Lithoplate, Inc. Bisphenol-A-fumarate polyester-cinnamate photopolymer. 3,737,407, 6-5-73, Cl. 260-47.0ua.
Thomas, Daniel Walter; and Giambalvo, Vito Albert, to American Cyanamid Company. Amine treatment of sulfonated phthalocyanines. 3,749,590, 7-31-73, Cl. 106-288.00q.
Thomas, David C.: *See—*
Schroter, Richard C.; and Thomas, David C., 3,739,588.
Thomas, David E.: *See—*
Bornhorst, Kenneth F.; Monroe, Jack L.; Culbertson, Alvin E.; Thomas, David E.; and Drake, Donald E., 3,766,560.
Thomas, David F.: *See—*
Berglund, Harold A.; and Thomas, David F., 3,776,667.
Thomas, David Gilbert: *See—*
Nakada, Yoshinao; and Thomas, David Gilbert, 3,723,690.
Thomas, David Kenneth: *See—*
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Thomas, David Michael, to International Standard Electric Corporation. Conference facilities for a TDM exchange. 3,748,394, 7-24-73, Cl. 179-18.0bc.
Thomas, David W., to NL Industries, Inc. Sweeping composition. 3,723,321, 3-27-73, Cl. 252-88.000.
Thomas, Delmer L., to International Telephone and Telegraph Corporation. Lossless N-port frequency multiplexer. 3,710,281, 1-9-73, Cl. 333-6.000.
Thomas, Donald A.: *See—*
McGrew, Jay L.; Sharp, Richard A.; Mowrey, Eugene C.; Thomas, Donald A.; and Gille, John P., 3,717,005.
Thomas, Douglas W., to American Home Products Corporation. Safety closure device. 3,716,160, 2-13-73, Cl. 215-9.000.



Thomas, Eddie R.: *See—*
Fauran, Claude P.; Eberle, Jeannine A.; Raynaud, Guy M.; Gou-

Thomas, Eddie R.: *See—*
Treharne, Richard W.; Riley, James A.; and Thomas, Eddie R., 3,722,283.

Thomas, Edmond Joseph, to Bell Telephone Laboratories, Incorporated. Echo path delay simulator for use with adaptive echo cancellers. 3,721,777, 3-20-73, Cl. 179-170.200.

Thomas, Edmond Joseph, to Bell Telephone Laboratories, Incorporated. Method for improving the settling time of a transversal filter adaptive echo canceller. 3,735,055, 5-22-73, Cl. 179-170.200.

Thomas, Edward V.; and Longley, Charles S., to United States of America, Navy. Torsional shear damped foundation member. 3,744,782, 7-10-73, Cl. 267-154.000.

Thomas, Edward W.: *See—*
Rapkin, Edward; and Thomas, Edward W., 3,777,144.

Thomas, Edward W.; and Rapkin, Edward, to Intertechnique S.A. Liquid scintillation spectrometry system for sample analysis. 3,715,586, 2-6-73, Cl. 250-71.50r.

Thomas, Edward W.; and Rapkin, Edward, to Intertechnique S.A. Program selection device for use in programing automatic scintillation spectrometry. 3,749,916, 7-31-73, Cl. 250-271.000.

Thomas, Edward W. Rotary type power plant. 3,765,379, 10-16-73, Cl. 123-8.450.

Thomas, Edward Wherry, to Intertechnique S.A., mesne. Liquid scintillation spectrometer with automatic setting of channel limits. 3,717,753, 2-20-73, Cl. 235-151.300.

Thomas Electronics, Inc.: *See—*
Paley, Alfred I.; Newman, Leonard; Seats, Peter; and Waxenbaum, Bernard M., 3,715,618.

Thomas, Ernest G. Internal combustion rotary engine. 3,712,273, 1-23-73, Cl. 123-8.470.

Thomas, George David: *See—*
Winstrom, Willis L.; Engel, John T.; Sigler, Alan D.; and Thomas, George David, 3,708,583.

Thomas, George E.; and Krehel, John J., Jr., to Olin Corporation. Aluminum facing and roofing sheet system. 3,708,943, 1-9-73, Cl. 52-588.000.

Thomas, George I., to Battelle Development Corporation, The, mesne. Method of using an artery-vein shunt applique. 3,713,441, 1-30-73, Cl. 128-214.00r.

Thomas, Gordon A.: *See—*
Alkaitis, Anthony; and Thomas, Gordon A., 3,723,152.
Gleason, C. Roy; and Thomas, Gordon A., 3,766,001.

Thomas, Gordon D.; and Gresham, James T., to Kimberly-Clark Corporation. Non-woven roll towel material. 3,708,383, 1-2-73, Cl. 161-57.000.

Thomas, Gordon D., to Kimberly-Clark Corporation. Heavy-duty wipe and method for producing same. 3,709,764, 1-9-73, Cl. 156-177.000.

Thomas, Gordon D., to Kimberly-Clark Corporation. Piper toweling material and method of combining into multiply products. 3,738,905, 6-12-73, Cl. 161-127.000.

Thomas, Gordon D., to Kimberly-Clark Corporation. Multiple embossed flexible web. 3,775,231, 11-27-73, Cl. 161-57.000.

Thomas, Gordon D.; and Gresham, James Tyson, to Kimberly-Clark Corporation. Non-woven roll towel material and method of producing the same. 3,776,797, 12-4-73, Cl. 156-220.000.

Thomas, Gwylfa; and Jenkins, Brian William, to Imperial Chemical Industries Limited. Process for preparing yarn packages. 3,772,415, 11-13-73, Cl. 264-234.000.

Thomas, Haydon C.: *See—*
Douglas, Alec T.; Thomas, Haydon C.; and Keen, Harry J., 3,728,626.

Thomas, Herbert J., Jr., to Holland Wire Products, Inc. Differentially resilient spring assembly. 3,716,874, 2-20-73, Cl. 5-260.000.

Thomas, Hermann, to Maschinenfabrik Goebel G.m.b.H. Winding machine. 3,759,458, 9-18-73, Cl. 242-67.10r.

Thomas, Howard M.: *See—*
Olszowka, Robert F.; Thomas, Howard M.; and Gong, Ray F., 3,740,448.

Thomas, Hugh, to Imperial Chemical Industries Limited. Pentaerythritol tetranitrate coated with silicone. 3,773,572, 11-20-73, Cl. 149-11.000.

Thomas, Ian M., to Owens-Illinois, Inc. Process for preparing high purity silicon oxide porous beads doped with small quantities of other oxides. 3,709,833, 1-9-73, Cl. 252-448.000.

Thomas, Ian M., to Owens-Illinois, Inc. Liquid double alkoxides. 3,761,500, 9-25-73, Cl. 260-448.0ad.

Thomas, Ian M., to Owens-Illinois, Inc. Production of $P_2O_5$-$SiO_2$. 3,767,432, 10-23-73, Cl. 106-52.000.

Thomas, Ian M., to Owens-Illinois, Inc. Method of preparing $P_2O_5$-$SiO_2$ products. 3,767,434, 10-23-73, Cl. 106-52.000.

Thomas Industries, Inc.: *See—*
Porter, David H.; and Raddatz, Gene R., 3,719,818.
Porter, David H.; Kemmerer, Wayne; and Bray, Douglas, 3,735,123.

Thomas, James C., III: *See—*
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Thomas, Janine M.: *See—*
Fauran, Claude P.; Eberle, Jeannine A.; Raynaud, Guy M.; Gouret, Claude J.; Thomas, Janine M.; and Huguet, Gerard J., 3,726,900.
Fauran, Claude P.; Eberle, Jeannine A.; Raynaud, Guy M.; and Thomas, Janine M., 3,755,314.
Fauran, Claude P.; Raynaud, Guy M.; Douzon, Colette A.; and Thomas, Janine M., 3,755,370.

Thomas, Jean Claude; Fournel, Francis; and Soussan, Lyon, to Produits Chimiques Pechiney-Saint-Gobain. Vinyl chloride polymers and methods of preparing them. 3,759,885, 9-18-73, Cl. 260-92.80r.

Thomas, Jean-Pierre; and Ramond, Jean, to Societe Nationale des Poudres et Explosifs, mesne. Propellant powder charge having finned internal configuration. 3,779,819, 12-18-73, Cl. 149-2.000.

Thomas, Jerome F.: *See—*
Brink, David L.; and Thomas, Jerome F., 3,718,446.
Brink, David L.; and Thomas, Jerome F., 3,761,568.

Thomas, Johann, to Siemens Aktiengesellschaft. Method of determining the actual resistance value of an electrolytic cell. 3,734,841, 5-22-73, Cl. 204-67.000.

Thomas, Johann, to Siemens Aktiengesellschaft. Method for determining the depth of immersion of electrodes in a reduction furnace. 3,749,804, 7-31-73, Cl. 13-13.000.

Thomas, John, to American Air Filter Company, Inc. Damper arrangement. 3,752,439, 8-14-73, Cl. 251-121.000.

Thomas, John, to American Air Filter Company, Inc. Damper seal system. 3,759,486, 9-18-73, Cl. 251-330.000.

Thomas, John D., to Burroughs Corporation. Paper tape loading tool. 3,771,705, 11-13-73, Cl. 226-92.000.

Thomas, John Henry. Suspension devices. 3,751,023, 8-7-73, Cl. 267-64.000.

Thomas, John L.: *See—*
Frank, Gilbert Haven; and Thomas, John L., 3,748,569.

Thomas, Joseph E.: *See—*
Gass, Edward W.; Hammond, Jack; Lorenzino, Paul; and Thomas, Joseph E., 3,748,446.

Thomas, Joseph Edward: *See—*
Srivastava, Gopal Krishna; and Thomas, Joseph Edward, 3,764,734.

Thomas, Joseph John, to Johns-Manville Corporation. System for the formation of pipe fittings by the winding of resin impregnated filaments around a mandrel. 3,765,979, 10-16-73, Cl. 156-173.000.

Thomas, Jozef A.; Klein, Joseph F. M.; and Geurts, Leonardus H., to Stamicarbon N.V. Process of preparing α-cyanobutyraldimines. 3,708,515, 1-2-73, Cl. 260-464.000.

Thomas, Klaus: *See—*
Ost, Walter; Thomas, Klaus; Jerchel, Dietrich; and Appel, Karl-Richard, 3,716,587.
Ost, Walter; Thomas, Klaus; Jerchel, Dietrich; and Appel, Karl-Richard, 3,717,709.
Ost, Walter; and Thomas, Klaus, 3,723,454.
Ost, Walter; Thomas, Klaus; Jerchel, Dietrich; and Appel, Karl-Richard, 3,752,842.

Thomas, Lazarus D.: *See—*
Swift, Howard R.; Soreghy, Ivan L.; Thacker, George N.; Thomas, Lazarus D.; Mattimoe, Paul T.; and Motter, Theodore J., 3,779,878.

Thomas, Lindsay Maitland, to Fairey Stainless Limited. Manufacture of thin-walled containers. 3,729,812, 5-1-73, Cl. 29-471.100.

Thomas, Lucien Antoine Yves Joseph. Locking means. 3,735,835, 5-29-73, Cl. 180-114.000.

Thomas, Malcolm H.: *See—*
Amneus, John S.; and Thomas, Malcolm H., 3,734,280.

Thomas, Manuel A., to Deering Milliken Research Corporation. Textile finishing process and product produced thereby. 3,713,878, 1-30-73, Cl. 117-135.500.

Thomas, Marion L.: *See—*
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Thomas, Martha J. B.: *See—*
Bouchard, Andre C.; Gaudet, Peter W.; and Thomas, Martha J. B., 3,753,759.

Thomas, Martin: *See—*
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Thomas, McKinely B.: *See—*
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Thomas, Michael D.: *See—*
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Thomas, Michael D., to MCD Corporation. Contact lens holder. 3,770,113, 11-6-73, Cl. 206-5.00a.

Thomas, Michael W., to Westinghouse Electric Corporation. Transformer tap selector. 3,725,833, 4-3-73, Cl. 336-140.000.

Thomas, Morton I. Overbed table. 3,715,995, 2-13-73, Cl. 108-10.000.

Thomas, Moses L.: *See—*
Marrs, Oren L.; and Thomas, Moses L., 3,717,617.

Thomas, Otto, to Schneider, Jos., & Co. Optische Werke. Reversing drive with braking for optical components. 3,781,617, 12-25-73, Cl. 318-261.000.

Thomas, Owen F.: *See—*





Lopes, Louis A., Jr.; and Thomas, Owen F., 3,719,922.

Thomas, Paul M., to Thomas 1970 Trust, The. System for lifting and handling panels. 3,765,543, 10-16-73, Cl. 214-1.00h.

Thomas, Paul P., to Winzeler Stamping Company. Extensible table. 3,769,919, 11-6-73, Cl. 108-83.000.

Thomas, Paul W.: *See—*
Cook, Gerald H.; and Thomas, Paul W., 3,742,836.

Thomas, Pierre Robert, to Societe des Fonderies de Pont-A-Mousson. Apparatus for removing parts cast in sand moulds. 3,727,677, 4-17-73, Cl. 164-344.000.

Thomas, Ralph D., to United States of America, National Aeronautics and Space Administration. Thermocouple tape. 3,729,343, 4-24-73, Cl. 136-225.000.

Thomas, Richard A. Educational device. 3,768,177, 10-30-73, Cl. 35-27.000.

Thomas, Richard H.: *See—*
Marschke, Carl R.; and Thomas, Richard H., 3,724,687.

Thomas, Richard R. Fishing lure. 3,735,522, 5-29-73, Cl. 43-42.280.

Thomas, Richard V. Perforated document read head. 3,777,119, 12-4-73, Cl. 235-61.11a.

Thomas, Robert: *See—*
Hadni, Armand; Thomas, Robert; and Weber, Jacques, 3,741,658.
Leyburn, Derek; Ahmad, Khurshid; and Thomas, Robert, 3,739,097.

Thomas, Robert J., to Dow Chemical Company, The. Method of curing polyepoxide compositions using $BF_3$-2-ethyl-2-oxazoline as a normally liquid curing agent. 3,753,947, 8-21-73, Cl. 260-47.0en.

Thomas, Robert M.: *See—*
Hallman, Beverley G.; and Thomas, Robert M., 3,740,719.

Thomas, Robert M., to GTE Automatic Electric Laboratories Incorporated. Electronic ring trip circuit. 3,746,798, 7-17-73, Cl. 179-18.0hb.

Thomas, Robert M., to GTE Automatic Electric Laboratories, Incorporated. Transformer-coupled power converter sampling system. 3,764,881, 10-9-73, Cl. 321-2.000.

Thomas, Roland C.: *See—*
Schaefer, Langdon C.; and Thomas, Roland C., 3,777,848.

Thomas, Roy L., Jr., to Supper, Charles, Company, Incorporated. Fail-safe high-energy radiation shuttering apparatus. 3,721,826, 3-20-73, Cl. 250-105.000.

Thomas, Roy L., Jr., to Charles Supper Company. Method and apparatus for selecting and handling particulate specimens using a vacuum probe. 3,723,006, 3-27-73, Cl. 356-30.000.

Thomas, Roy Leander, Jr., to Supper, Charles, Company. Method and apparatus for eliminating spot doubling in precession X-ray crystallography. 3,731,097, 5-1-73, Cl. 250-51.500.

Thomas, Samuel C., Jr.: *See—*
Cease, Vincent J.; and Thomas, Samuel C., Jr., 3,772,198.

Thomas, Samuel M., Jr.: *See—*
Harden, Phillip L.; and Thomas, Samuel M., Jr., 3,732,560.

Thomas, Sherrill G.: *See—*
Lambert, Joe C.; and Thomas, Sherrill G., 3,745,434.

Thomas, Stephen Edward. Apparatus and process for developing electromagnetic energy from tire flexure. 3,760,351, 9-18-73, Cl. 340-58.000.

Thomas, Telfer L.; and Shetty, Bola Vithal, to Pennwalt Corporation. Preparation of hydrazinoadamantane compounds. 3,719,710, 3-6-73, Cl. 260-563.00p.

Thomas, Trevor Henry: *See—*
Epton, Roger; McLaren, John Vincent; and Thomas, Trevor Henry, 3,761,357.

Thomas, Wilhelm; Oertel, Harald; Rinke, Heinrich; and Bahr, Ulrich, to Farbenfabriken Bayer Aktiengesellschaft. Beta-semicarbazide propionic acid hydrazide. 3,719,708, 3-6-73, Cl. 260-554.000.

Thomas, William Erbie, Jr.: *See—*
Bivens, Donald Bernard; Patton, Leo Wesley; and Thomas, William Erbie, Jr., 3,758,584.

Thomas 1970 Trust, The: *See—*
Thomas, Paul M., 3,765,543.

Thomasian, Harvey A., to Lowell Corporation. Ratchet wrench. 3,732,756, 5-15-73, Cl. 81-62.000.

Thomasian, Harvey A., to Lowell Corporation. Rotation limiting device. 3,777,591, 12-11-73, Cl. 74-576.000.

Thomason, Gary. Filtering system for deep fat cooking vessel. 3,759,388, 9-18-73, Cl. 210-167.000.

Thomassen, Erwin A.; and Tabickman, Maurice L, to United States of America, Air Force. Ballistic door for aircraft protective shelter. 3,712,363, 1-23-73, Cl. 160-113.000.

Thomassen, Hermanus Hendrikus Josephus, 1/2 to Multescreen N.V. Movement suggesting display. 3,745,678, 7-17-73, Cl. 40-106.520.

Thomasset, Andre: *See—*
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Thomasson, David G.; Crosher, Frederick K.; Temple, Michael D.; Bartolmei, Leroy A.; and Seddon, Richard Ian, to Optical Coating Laboratory, Inc. Striped dichroic filter and method for making the same. 3,771,857, 11-13-73, Cl. 350-166.000.

Thomasson, James T.: *See—*
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Thomeer, Johannes H. M.: *See—*
Coles, Roy D., Jr.; Thomeer, Johannes H. M.; and Chase, Curtis A., Jr., 3,709,032.

Thomen, Max. Ultrasonic dishwasher. 3,709,732, 1-9-73, Cl. 134-57.00d.

Thometz, Theodore G.; and Arnerich, Paul J., to Servco Company, The. Expansible drilling tool. 3,712,854, 1-23-73, Cl. 175-269.000.

Thomine-Desmazures, Claude: *See—*
Casse, Robert; Maitre, Bernard; Thomine-Desmazures, Claude; and Thouvenel, Gerard, 3,754,248.

Thominet, Michel Leon, to Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France. Substituted 2-arylalkyloxy benzamides. 3,723,416, 3-27-73, Cl. 260-239.0bf.

Thominet, Michel Leon, to Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France. 3-Alkoxy-thia naphthene-2-carboxamides. 3,745,175, 7-10-73, Cl. 260-326.300.

Thominet, Michel Leon, to Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France. Substituted 2-arylalkyloxy benzamides. 3,766,178, 10-16-73, Cl. 260-243.00b.

Thomley, John W., to Thomley Static Control Systems, Inc. Electrostatic generator. 3,735,160, 5-22-73, Cl. 310-6.000.

Thomley Static Control Systems, Inc.: *See—*
Thomley, John W., 3,735,160.

Thommen, Hans; and Weiser, Harald. Coccidiostatic and growth promoting compositions. 3,737,534, 6-5-73, Cl. 424-229.000.

Thompkins, Johnnie, 30% to Lee, Raymond, Organization, Inc., The. Football helmet. 3,751,728, 8-14-73, Cl. 2-3.00r.

Thompson, Alan M.; and Gregg, Clement V., to Goulder Mikron Limited. Digital processing system. 3,769,496, 10-30-73, Cl. 235-92.0dm.

Thompson, Albert L.: *See—*
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Thompson, Albert N. Curling brooms. 3,716,885, 2-20-73, Cl. 15-210.00r.

Thompson, Alexander David. Sewage treatment vessel. 3,767,051, 10-23-73, Cl. 210-197.000.

Thompson, Alvin E., to Philco-Ford Corporation. Push-button key assembly. 3,739,454, 6-19-73, Cl. 29-407.000.

Thompson, Arthur H., to Syva Corporation. Chalcogenides intercalated with a mixture of an organic nitrogen compound and sulfur. 3,763,043, 10-2-73, Cl. 252-31.000.

Thompson, Benjamin L.: *See—*
Beck, Lloyd; Igarashi, Yoshiya; Thompson, Benjamin L.; and Thurman, Robert V., 3,764,963.

Thompson, Bernard C. Measuring and dispensing device for granulated materials and the like. 3,760,983, 9-25-73, Cl. 222-90.000.

Thompson, Bernard G.: *See—*
Davidge, Ronald V.; Hobgood, George W., Jr.; Queener, Carl A.; Spears, Jesse W.; and Thompson, Bernard G., 3,736,055.

Thompson, Bernard L.: *See—*
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Thompson, Boyce, Institute for Plant Research, Inc.: *See—*
Fentiman, Allison F., Jr.; and Vite, Jean P., 3,755,365.

Thompson, C. Ames; and Cooper, Douglas J. Strainer device for use in drainage receptacles. 3,713,539, 1-30-73, Cl. 210-164.000.

Thompson, C. Sheldon: *See—*
Kramer, Henry H.; Thompson, C. Sheldon; and Cosolito, Frank J., 3,746,871.

Thompson, Charles E., to Esso Research and Engineering Company. Method of preparing a catalyst. 3,719,739, 3-6-73, Cl. 423-213.000.

Thompson, Charles L., to United Aircraft Corporation. Blow-in-door actuation for after burner nozzle. 3,715,079, 2-6-73, Cl. 239-265.170.

Thompson, Charles R.; and Hidalgo, John, to Cutter Laboratories, Inc. Injectable compositions of the (plus)-optical insomer of the alpha racemate of 2-(2-ethyl-2-phenyl-1,-dioxolan-4-yl) piperidine and their use. 3,760,077, 9-18-73, Cl. 424-267.000.

Thompson Chemicals, Inc.: *See—*
Thompson, Henry C., 3,778,304.

Thompson, Chester C., Jr., to Radiation Dynamics, Inc. High voltage power supply. 3,723,846, 3-27-73, Cl. 321-15.000.

Thompson, Chester C., Jr., to Radiation Dynamics, Inc. Optical detector for detecting rectifier tube failures and RF electrical discharges. 3,754,149, 8-21-73, Cl. 307-117.000.

Thompson, Clarence E. Combination household implement. 3,757,368, 9-11-73, Cl. 7-14.250.

Thompson, Clifford E.: *See—*
Glesner, William K.; and Thompson, Clifford E., 3,734,990.

Thompson, Clinton D., to Thiokol Chemical Corporation. Electrically conductive resinous structural material and method for its preparation. 3,728,427, 4-17-73, Cl. 264-101.000.

Thompson, Danny W., to Thompson Roofing Company, Inc. Seam forming machine. 3,771,482, 11-13-73, Cl. 113-55.000.

Thompson, Darrell R., to Celanese Corporation. Method of delustering acrylic fibers. 3,746,672, 7-17-73, Cl. 260-17.00r.

Thompson, Darrell R.; and Ensley, Michael W., to Celanese Corporation. Stabilized polyacrylonitrile compositions and method of forming same. 3,752,782, 8-14-73, Cl. 260-29.6an.

Thompson, Darrell R., to Celanese Corporation. Stabilized polyacrylonitrile compositions with sulfur-phosphorus containing material. 3,755,230, 8-28-73, Cl. 260-29.6an.

Thompson, Darrell R., to Du Pont de Nemours, E. I., and Company. Dispersions containing polyesters with terminal polyhydroxyl groups. 3,775,327, 11-27-73, Cl. 252-62.540.

Thompson, David A.: *See—*
Almasi, George S.; Keefe, George E.; Lin, Yeong S.; and Thompson, David A., 3,716,781.

Thompson, David F.: *See—*
King, Robert E.; and Thompson, David F., 3,719,566.

Thompson, David Harry: *See—*
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Thompson, David L.: *See—*
Nutter, John F.; Haas, Frank C.; and Thompson, David L., 3,709,974.

Thompson, David R., to Rental Equipment Manufacturing Company. Yard maintenance apparatus. 3,758,967, 9-18-73, Cl. 37-43.00e.

Thompson, Don D., to Chevron Research Company. Dielectric constant measurement method. 3,778,706, 12-11-73, Cl. 324-61.00r.

Thompson, Donlin: *See—*
Anderson, Lloyd E.; Alinder, Gilbert L.; and Thompson, Donlin, 3,750,811.
Anderson, Lloyd E.; Thompson, Donlin; and Alinder, Gilbert L., 3,772,793.

Thompson, Donnie H.: *See—*
Thompson, William H.; Thompson, Donnie H.; and Thompson, Kent B., 3,726,346.

Thompson, Duwayne A. Socket wrench retainer and assemblies. 3,726,393, 4-10-73, Cl. 206-16.00d.

Thompson, Earl A., to Thompson, Earl A., Manufacturing Co. Method of forming cashing of different metals. 3,752,212, 8-14-73, Cl. 164-93.000.

Thompson, Earl A., Manufacturing Co.: *See—*
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Thompson, Earl B., Jr., to Industrial Pneumatic Systems, Inc. Convertible rail-highway mine car. 3,717,108, 2-20-73, Cl. 105-215.00c.

Thompson, Earl Clayton. Water distribution system for poultry and small animals. 3,724,425, 4-3-73, Cl. 119-72.000.

Thompson, Einar T. Automatic nailing apparatus. 3,764,053, 10-9-73, Cl. 227-111.000.

Thompson, Eldon K. Portable saw mill. 3,747,457, 7-24-73, Cl. 83-471.200.

Thompson, Emil W.: *See—*
Gaughan, Gerald E.; Buchanan, Earl H.; and Thompson, Emil W., 3,760,731.

Thompson, Emily Herman: *See—*
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Thompson, Francis T.: *See—*
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Reeves, John R.; Dow, Bruce R.; and Thompson, Francis T., 3,720,845.
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Thompson, Francis T.; and Sun, Shan C., to Westinghouse Electric Corporation. Remedial branching teaching system. 3,715,811, 2-13-73, Cl. 35-48.000.

Thompson, Francis T.; and Wavre, Andre, to Westinghouse Electric Corporation. Power regulation system. 3,742,251, 6-26-73, Cl. 307-242.000.

Thompson, Frank C. Method of repairing gear cutter wheels with a welding fixture and grinding fixture therefor. 3,755,877, 9-4-73, Cl. 29-401.000.

Thompson, Frank R., to Taco, Inc. Fluid flow metering device. 3,744,313, 7-10-73, Cl. 73-208.000.

Thompson, Fred W.: *See—*
Sansom, William; and Thompson, Fred W., 3,712,796.

Thompson, Gene C.; Radomski, Joseph W.; and Wilson, David E., to Southworth Machine Company. Sheet winding, turning and aligning method and apparatus. 3,724,089, 4-3-73, Cl. 34-23.000.

Thompson, Gene D.; and Carlton, Louis A., to Esso Production Research Company. Controlling subsurface pressures while drilling with oil base muds. 3,750,766, 8-7-73, Cl. 175-50.000.

Thompson, Geoffrey: *See—*
Marsh, Michael Martin; Thompson, Geoffrey; and Trayner, Brian Thomas, 3,753,538.

Thompson, George H. B., to International Standard Electric Corporation. Laser to optical fiber coupling. 3,760,297, 9-18-73, Cl. 331-94.500.

Thompson, George H. B., to International Standard Electric Corporation. Gallium arsenide lasers. 3,780,358, 12-18-73, Cl. 317-235.00r.

Thompson, George J.; and Dutton, Vance D., to Marion Power Shovel Company, Inc. Boom point sheave assembly. 3,757,959, 9-11-73, Cl. 212-1.000.

Thompson, George M.: *See—*
Thompson, William F.; and Thompson, George M., 3,770,013.

Thompson, George S.: *See—*
Setzer, Henry J.; and Thompson, George S., 3,758,043.

Thompson, Gerald F.; and Ridenour, Richard R., to Rapistan Incorporated. Warehouse apparatus and method with article label printing means. 3,734,311, 5-22-73, Cl. 214-16.40a.

Thompson, Gerhard R., to International Business Machines Corporation. FET dynamic logic circuit and layout. 3,747,064, 7-17-73, Cl. 307-205.000.

Thompson, Grant; and Wall, Bobby M., to Thiokol Chemical Corporation. Method of accelerating the cure of carboxy-terminated polybutadiene. 3,763,133, 10-2-3, Cl. 260-94.70a.

Thompson, Guy P., to United States of America, Army. Hypervelocity missile design to accommodate seekers. 3,762,666, 10-2-73, Cl. 244-3.190.

Thompson, Henry Bryan; and Mautz, Jerry Lee, to Grace, W. R., & Co. Hermetically sealed shipping package and method of preparing same. 3,746,160, 7-17-73, Cl. 206-65.00s.

Thompson, Henry C., to Thompson Chemicals, Inc. Magnesium oxychloride fireproofing. 3,778,304, 12-11-73, Cl. 117-138.000.

Thompson, Herbert L., to Universal Oil Products Company. Aromatic hydrocarbon. 3,763,037, 10-2-73, Cl. 208-313.000.

Thompson, Herbert Lytle, to Universal Oil Products Company. Aromatic hydrocarbon recovery by extractive distillation, extraction and plural distillations. 3,723,256, 3-27-73, Cl. 203-43.000.

Thompson, Herbert M.: *See—*
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Thompson, I. L.: *See—*
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Thompson, Ira Foy: *See—*
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Thompson, Ivam M.: *See—*
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Thompson, James B. Valve actuator. 3,774,462, 11-27-73, Cl. 74-89.150.

Thompson, James C., to United Aircraft Corporation. Cutting torch. 3,741,135, 6-26-73, Cl. 110-22.00r.

Thompson, James E.: *See—*
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Thompson, James L., to Dow Chemical Company, The. Stabilization of water sensitive clays. 3,738,425, 6-12-73, Cl. 166-305.00r.

Thompson, James S. Method of assembling a saw horse and assembly kit therefor. 3,760,903, 9-25-73, Cl. 182-181.000.

Thompson, Jerome B. Baking process and compositions for its practice. 3,777,038, 12-4-73, Cl. 426-19.000.

Thompson, John; and Owen, Michael James, to Midland Silicones Limited. Organosiloxane polyamide block copolymers. 3,723,566, 3-27-73, Cl. 260-824.00r.

Thompson, John, to Midland Silicones Limited. Silicon compounds containing lactam structures. 3,780,025, 12-18-73, Cl. 260-239.30r.

Thompson, John F., to Weaver, W. R., Company. Sealing arrangement for telescopic sights. 3,740,114, 6-19-73, Cl. 350-67.000.

Thompson, John F.; and Porter, Townsend H., to Anderson Development Company. Curing agent. 3,752,768, 8-14-73, Cl. 252-182.000.

Thompson, John H.: *See—*
Nelkin, Arthur; and Thompson, John H., 3,723,954.
Skinner, Dale D.; Thompson, John H.; and Whittaker, Robert H., 3,777,189.

Thompson, John H.; and Sims, David S., to United States of America, Navy, mesne. Polychromatic sonar object identification system. 3,716,823, 2-13-73, Cl. 340-3.00r.

Thompson, John I., & Company: *See—*
Henig, Seymour, 3,754,646.
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Thompson, John L. Portable ski tow and method of operating same. 3,739,728, 6-19-73, Cl. 104-173.000.

Thompson, John, Limited: *See—*
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Thompson, John R. Base for cemetery monuments with urn receiving cavities. 3,726,052, 4-10-73, Cl. 52-103.000.

Thompson, John R.; and Schoenbeck, Robert L., to RCA Corporation, mesne. Channel monitoring system. 3,733,430, 5-15-73, Cl. 178-5.100.

Thompson, John T.: *See—*
Anderson, Karl R., 3,710,046.
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Gillemot, George W.; and Thompson, John T., 3,725,581.
Gillemot, George W.; and Thompson, John T., 3,777,049.

Thompson, John T.; and Gillemot, George W. Protective cable splice assembly and method. 3,725,580, 4-3-73, Cl. 174-38.000.

Thompson, John T.; and Gillemot, George W. Cable end seal, support and grounding assembly. 3,732,354, 5-8-73, Cl. 174-78.000.

Thompson, John T.; and Gillemot, George W. Method and accessory for testing the serviceability of telephone conductors. 3,736,387, 5-29-73, Cl. 179-175.000.

Thompson, John T.; and Gillemot, George W. Method and accessory for testing the serviceability of telephone conductors. 3,736,388, 5-29-73, Cl. 179-175.000.





Thompson, John T.; and Gillemot, George W. Safety package assembly and divides clamp therefor. 3,741,381, 6-26-73, Cl. 206-47.00a.

Thompson, John T.; and Gillemot, George W. Gel encapsulating enclosure and method. 3,752,306, 8-14-73, Cl. 206-47.00a.

Thompson, John T.; and Gillemot, George W. Solderless connector assembly for cable shielding jacket and method of installing the same. 3,753,204, 8-14-73, Cl. 339-14.00r.

Thompson, John T.; and Gillemot, George W. Terminal board for expediting restoration of phone service over a severed communication cable. 3,761,771, 9-25-73, Cl. 317-118.000.

Thompson, John T.; and Gillemot, George W. Cable splice clamping and bonding assembly. 3,771,112, 11-6-73, Cl. 339-244.00b.

Thompson, John T.; and Gillemot, George W. Method of gasketing the mating surface of housing parts and entryways for electrical conductors. 3,775,204, 11-27-73, Cl. 156-53.000.

Thompson, John T.; and Gillemot, George W. Cable splice assembly and method. 3,781,461, 12-25-73, Cl. 174-93.000.

Thompson, Joseph; Hemming, Raymond Charles; Critchley, John Edward; and Morrell, Ronald Joseph, to Northern Electric Company Limited. Post pay telephone paystation circuit. 3,760,104, 9-18-73, Cl. 179-6.30r.

Thompson, Joseph J.: *See—*
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Thompson, Kenneth C., to Electronic Processors, Inc. Rotating magnetic tape head having air cushion support for the tape. 3,725,606, 4-3-73, Cl. 179-100.20p.

Thompson, Kent B.: *See—*
Thompson, William H.; Thompson, Donnie H.; and Thompson, Kent B., 3,726,346.

Thompson, Kermit J.: *See—*
Majeau, Henrie L.; and Thompson, Kermit J., 3,777,278.

Thompson, Larry D.: *See—*
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Thompson, Larry O.; Gilbert, William J.; Thompson, Louis R.; Martin, James W., Jr.; and Clements, William Lamar, to Petersen Industries, Inc. Container-dumping apparatus. 3,713,554, 1-30-73, Cl. 214-147.0hs.

Thompson, Lenore E., to Kimberly-Clark Corporation. Inexpensive cuffs for disposable gowns. 3,727,239, 4-17-73, Cl. 2-123.000.

Thompson, Leon J.; deceased (Thompson, Margaret; voluntary administrator); Kugler, Carl J., Jr.; and Latta, Garland H., to International Business Machines Corporation. Measurement method and system. 3,780,274, 12-18-73, Cl. 235-151.310.

Thompson, Lloyd M., to Frosst, Charles E., & Co. Chemical process. 3,769,401, 10-30-73, Cl. 424-100.000.

Thompson, Louis R.: *See—*
Thompson, Larry O.; Gilbert, William J.; Thompson, Louis R.; Martin, James W., Jr.; and Clements, William Lamar, 3,713,554.

Thompson, Margaret: *See—*
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Thompson, Mason L., Jr.: *See—*
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Thompson, Michael Robert; Pearce, Reginald James; and Howard, David Ernest, to Airoil Burner Company (GB) Limited. Fuel burner assemblies. 3,773,075, 11-20-73, Cl. 137-604.000.

Thompson, Norman D.: *See—*
Allegri, Theodore Henry; Chelin, Charles R.; Evans, Dafydo W.; and Thompson, Norman D., 3,750,814.

Thompson, Norman D.; and Chelin, Charles R., to Towmotor Corporation. Expandable side-handling container attachment. 3,752,346, 8-14-73, Cl. 214-621.000.

Thompson, Norman D.; Chelin, Charles R.; and Liljequist, Lawrence A., to Towmotor Corporation. Self-storing material handling attachment for lift trucks. 3,773,201, 11-20-73, Cl. 214-621.000.

Thompson, Norman W.: *See—*
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Thompson, Palmer B., to United States Gypsum Company. Demountable partition assemblies and the studs therefor. 3,729,883, 5-1-73, Cl. 52-481.000.

Thompson, Peter George: *See—*
Marke, Douglas John Burrows; and Thompson, Peter George, 3,712,220.

Thompson, Philip, Jr. Mowing apparatus. 3,715,872, 2-13-73, Cl. 56-10.400.

Thompson, Purl E. Sawmill game. 3,744,793, 7-10-73, Cl. 273-1.00r.

Thompson, Quenten E. Movement control for pickup-mounted vehicle. 3,751,104, 8-7-73, Cl. 296-23.0mc.

Thompson, Quentin E.: *See—*
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Thompson, Ralph B.; Pappas, Peter G.; and Sandri, Joseph M., to Nalco Chemical Company. Detergent builders. 3,708,436, 1-2-73, Cl. 252-527.000.

Thompson, Ralph F., to Salco, Inc. Liquid distributing system for sprinkler pans. 3,777,988, 12-11-73, Cl. 239-553.300.

Thompson, Ralph N.: *See—*
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Thompson, Ralph N.; and Hoover, Merwin F., to Calgon Corporation. Fluorocarbon containing diallyl ammonium compounds. 3,717,679, 2-20-73, Cl. 260-567.60m.

Thompson Ramo Wooldridge, Inc.: *See—*
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Thompson, Raymond: *See—*
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Thompson, Richard D.: *See—*
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Maez, Philbert Jay; Thompson, Richard D.; and Beeley, Michael G., 3,739,960.

Thompson, Richard E., to United States of America, National Aeronautics and Space Administration. On-film optical recording of camera lens settings. 3,736,849, 6-5-73, Cl. 95-1.100.

Thompson, Richard F., to Husted, Royce Hill and Shiber, Samuel. Power ski. 3,710,881, 1-16-73, Cl. 180-5.00r.

Thompson, Richard G. Propulsion unit for skier. 3,750,777, 8-7-73, Cl. 180-6.00r.

Thompson, Richard J.: *See—*
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Thompson, Richard M., to Hughes Aircraft Company. Waveguide window assembly. 3,781,726, 12-25-73, Cl. 333-98.00p.

Thompson, Richard R.: *See—*
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Thompson, Robert C.: *See—*
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Thompson, Robert C.; and Cohn, Edward S. Hearing tester. 3,745,674, 7-17-73, Cl. 35-9.00r.

Thompson, Robert E.; and Le Breton, Ernest, to Schering Corporation. Inhalation coordinated aerosol dispensing device. 3,732,864, 5-15-73, Cl. 128-173.00r.

Thompson, Robert F.; and McDonell, John W., to Eaton Corporation. Vehicle guidance system. 3,768,586, 10-30-73, Cl. 180-98.000.

Thompson, Robert G., to Briggs & Stratton Corporation. Pumpless fuel system for small engines. 3,738,625, 6-12-73, Cl. 261-68.000.

Thompson, Robert J., 25% to Shoob, Stuart J. Open-end wrench with integral ratcheting means. 3,717,054, 2-20-73, Cl. 81-179.000.

Thompson, Robert M., to Sun Research and Development Co. Process for preparing unsaturated polyester. 3,723,573, 3-27-73, Cl. 260-866.000.

Thompson, Robert M.; and Duling, Irl N., to Sun Research and Development Co. Polysulfone polymers from adamantane bisphenols. 3,738,960, 6-12-73, Cl. 260-49.000.

Thompson, Robert M.; and Duling, Irl N., to Sun Research and Development Co. Polysulfonate polymers from adamantane bisphenols. 3,738,965, 6-12-73, Cl. 260-49.000.

Thompson, Robert M., to Sun Research and Development Co. Alkyladamantane diamine. 3,748,359, 7-24-73, Cl. 260-563.00p.

Thompson, Robert M.; and Duling, Irl N., to Sun Research and Development Co. Polysulfonate polymers from adamantane bisphenols and disulfonyl chlorides of aromatic substituted ethers. 3,753,950, 8-21-73, Cl. 260-49.000.

Thompson, Robert M., to Sun Research and Development Co. Preparation of unsaturated polyesters of isophthalic acid. 3,766,145, 10-16-73, Cl. 260-75.0ep.

Thompson, Robert M., to Sun Research and Development Co. Dialkyladamantane dinitrile. 3,770,794, 11-6-73, Cl. 260-464.000.

Thompson, Ronald E.; and Ryan, Patrick W., to Atlantic Richfield Company. Unsaturated ester group terminated polydienes as unsaturated polyester modifiers. 3,733,370, 5-15-73, Cl. 260-862.000.

Thompson Roofing Company, Inc.: *See—*
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Thompson, Roy E.: *See—*
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Thompson, Royal W.: *See—*
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Thompson, Russell L. Hair treating apparatus and method. 3,726,289, 4-10-73, Cl. 132-9.000.

Thompson, Sheldon L., to Sun Research and Development Co. Preparation of 2,6-dimethylnaphthalene and 2,7-dimethylnaphthalene. 3,775,496, 11-27-73, Cl. 260-668.00f.





Thompson, Sheldon L., to Sun Research and Development Co.

Thomsen, Carl Torben. Device for use in teaching accounting

Thompson, Sheldon L., to Sun Research and Development Co. Preparation of 2,3-dimethylnaphthalene. 3,775,497, 11-27-73, Cl. 260-668.00f.

Thompson, Sheldon L., to Sun Research and Development Co. Preparation of 2,6-dimethylnaphthalene. 3,775,498, 11-27-73, Cl. 260-668.00f.

Thompson, Sheldon L., to Sun Research and Development Co. Preparation of 2,7-dimethylnaphthalene. 3,775,500, 11-27-73, Cl. 260-668.00f.

Thompson, Sheldon L., to Sun Oil Company of Pennsylvania. Stabilizing a hydrocracked lube oil by solvent extraction. 3,781,196, 12-25-73, Cl. 208-96.000.

Thompson, Stanley C. Golf club head with sole plate-keel attachment. 3,761,095, 9-25-73, Cl. 273-174.000.

Thompson, Stanley E. Disposable traction harness. 3,728,999, 4-24-73, Cl. 128-84.00r.

Thompson, Stanley P. Flighting for dehydrator drum. 3,717,937, 2-27-73, Cl. 34-108.000.

Thompson, Stanley P.; and Boyert, David L., to Pyrolyzer Incorporated. Incinerator. 3,745,942, 7-17-73, Cl. 110-8.00r.

Thompson, Stanley P. Crop dehydrator and method. 3,749,382, 7-31-73, Cl. 432-58.000.

Thompson, Thomas F.; and Griffith, Joseph W. Method and apparatus for actuating an electric circuit. 3,740,742, 6-19-73, Cl. 340-280.000.

Thompson, Thomas L. Sandblasting motor stator slots. 3,719,009, 3-6-73, Cl. 51-319.000.

Thompson, Thomas Raymond, to Shell-Mex and B.P. Limited. Data locating device. 3,733,589, 5-15-73, Cl. 340-173.0am.

Thompson, Tom H. Self compensating disc brake apparatus. 3,721,322, 3-20-73, Cl. 188-196.00p.

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Thompson, Tommy Lewis, to Life Support, Inc. Ignition composition initiated by water. 3,725,156, 4-3-73, Cl. 149-81.000.

Thompson, Tommy Lewis, to Life Support, Inc. Rate stabilizers for chemical oxygen generators. 3,749,678, 7-31-73, Cl. 252-187.00r.

Thompson, Vernon F., to Tomco, Inc. Expandable carburetor fitting. 3,768,839, 10-30-73, Cl. 285-15.000.

Thompson, Walter H., Jr.: *See—*
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Thompson, William A., to International Business Machines Corporation. Method of fabricating a coherent superconducting oscillator. 3,778,893, 12-18-73, Cl. 29-599.000.

Thompson, William B.: *See—*
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Thompson, William F.; and Thompson, George M. Valve for use in dewatering system. 3,770,013, 11-6-73, Cl. 137-606.000.

Thompson, William H., to W. & H. M. Goulding Limited. Production of potassium dihydrogen phosphate fertilizers. 3,718,453, 2-27-73, Cl. 71-34.000.

Thompson, William H.; Thompson, Donnie H.; and Thompson, Kent B. Implement hitch. 3,726,346, 4-10-73, Cl. 172-292.000.

Thompson, William Harvey, to Trans-Clean, Inc., mesne. Fluid dispensing system for vehicle washing apparatus. 3,763,822, 10-9-73, Cl. 118-73.000.

Thompson, William Henry: *See—*
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Thompson, William Stanley, to Elkhart Brass Manufacturing Co., Inc. Fire hose rack. 3,736,952, 6-5-73, Cl. 137-355.280.

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Thomsen, Carl Torben. Device for use in teaching accounting. 3,713,229, 1-30-73, Cl. 35-24.00c.

Thomsen, Darrel M., to United States of America, Army. Composite firearm barrel. 3,742,640, 7-3-73, Cl. 42-76.00r.

Thomsen, Donald L.; and Herpers, Ferdinand J., Jr., to Tennant Company. Surface cleaning method. 3,753,777, 8-21-73, Cl. 134-6.000.

Thomsen, Jack W. Filter assembly. 3,746,171, 7-17-73, Cl. 210-234.000.

Thomsen, Jack W.; Nupnau, Arthur E.; Kim, Raymond W. H.; and Cherniavskyj, Jaroslav, to Bell & Howell Company. Motion picture projector. 3,758,047, 9-11-73, Cl. 242-181.000.

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Thomsen, Milton P. Rebne, to United States of America, Army. Arc lamp with magnetic vortex anode. 3,723,782, 3-27-73, Cl. 313-30.000.

Thomsen, Morten, to A/S Cheminova. Organic thiophosphates of improved odor characteristics and process for their production. 3,714,301, 1-30-73, Cl. 260-942.000.

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Thomson, David P., to Chicago Swimming Pool Manufacturing Inc. Prefabricated swimming pools. 3,720,964, 3-20-73, Cl. 4-172.190.

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Thomson, Elihu Craig, to Electronics Corporation of America. Electrical circuitry. 3,710,149, 1-9-73, Cl. 307-310.000.

Thomson, Ely Knox; and Sailors, Clyde A., to Continental Carbon Company. Apparatus for printing bags. 3,771,448, 11-13-73, Cl. 101-334.000.

Thomson, Ian David Mac Knight: *See—*
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Thomson Industries Inc.: *See—*
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Thomson, J. Brent, to Hercules Incorporated. Adhesion promoting agents. 3,715,371, 2-6-73, Cl. 260-349.000.

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Thomson, James K., to Northrop Corporation. Area electron flood gun. 3,769,540, 10-30-73, Cl. 315-12.000.

Thomson, John B., to Thomson Industries Inc. Self-lubricating sleeve bearing. 3,746,415, 7-17-73, Cl. 308-240.000.

Thomson, John H.; and Zagoroff, Dimiter S., to Zagoroff, Dimiter S. Burner. 3,726,634, 4-10-73, Cl. 431-353.000.

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Thomson, Meredith C., to Stoelting Brothers Company. Carriage and drive arrangement for cheese vats and curd tables. 3,735,490, 5-29-73, Cl. 99-452.000.

Thomson, Richard N.; Osmalov, Jerome A.; and Mathe, George L., to Morris, Philip, Incorporated. Forming filled continuous plastic rod such as plastic cigarette filter rod filled with a tow of cellulose acetate. 3,733,246, 5-15-73, Cl. 161-176.000.

Thomson, Richard N.; and Walker, Michael F., to Dunlop Holdings Limited. Flame resistant seals. 3,781,021, 12-25-73, Cl. 277-164.000.

Thomson, Willy; and Carstens, Werner. Advertising-pillar. 3,713,237, 1-30-73, Cl. 40-132.00d.

Thomson-CSF: *See—*
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Thorborg, Kjeld, to Allmanna Svenska Elektriska Aktiebolaget. Inverter for transmitting power between a direct voltage source and an alternating voltage network. 3,768,001, 10-23-73, Cl. 321-27.00r.

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Thorel, John P.; and Anderson, William F., to North American Rockwell Corporation. Nuclear reactor core clamping system. 3,726,761, 4-10-73, Cl. 176-87.000.

Thoren, Karl Oskar Birger, to Thoren, Olof. Tube compressor. 3,737,078, 6-5-73, Cl. 222-192.000.

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Thorn Electrical Industries, Limited: *See—*
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Thorn Heating Limited: *See—*
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Thorn, Herbert, to Ideal Toy Corporation. Doll leg connector. 3,757,458, 9-11-73, Cl. 46-161.000.

Thorn, Herbert; and Ieda, Michael, to Ideal Toy Corporation. Toy doll. 3,775,900, 12-4-73, Cl. 46-120.000.

Thorn, John E.; and Selman, Alan A., to Ford Motor Company. Hydraulic load indicating device. 3,724,571, 4-3-73, Cl. 177-141.000.

Thorn, Juergen, to Siemens Aktiengesellschaft. Arrangement for the controlled guidance of a working machine with laser beams. 3,739,176, 6-12-73, Cl. 250-203.00r.

Thorn Lighting Limited: *See—*
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Thornbrugh, Lloyd E. Trailer anchors. 3,736,711, 6-5-73, Cl. 52-149.000.

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Thornburgh, William F., to General Motors Corporation. Intake manifold for exhaust gas recirculation and method of manufacture. 3,717,130, 2-20-73, Cl. 123-52.5mv.

Thornbury, Vaclav Puta: *See—*
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Thorne, Gale H.; Wood, Orin Lew; and Knudson, Kay L., to Baxter Laboratories, Inc., mesne. Apparatus for preservation of organs. 3,738,914, 6-12-73, Cl. 195-127.000.
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Thorne-Booth, George M., to Westinghouse Electric Corporation. Remote signaling system for train control. 3,740,549, 6-19-73, Cl. 246-122.000.
Thornell, Ernest L., to Marlin Toy Products, Inc. Animated toy. 3,710,506, 1-16-73, Cl. 46-118.000.
Thornell, Ernest L., to Marlin Toy Products, Inc. Movable sounding toy with sound amplifying means. 3,745,695, 7-17-73, Cl. 46-98.000.
Thorner, Robert H. Automotive speed control system. 3,777,841, 12-11-73, Cl. 180-108.000.
Thorngate, Robert E., to United States of America, Air Force. Safety locking device for airborne shockmounts. 3,734,444, 5-22-73, Cl. 248-361.00r.
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Thornley, Derek, to Lucas, Joseph, (Industries) Limited. Locking arrangement for vehicle gearbox. 3,780,602, 12-25-73, Cl. 74-850.000.
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Thornton, Richard D.; and Kolm, Henry H., to Massachusetts Institute of Technology. Transportation system employing an electromagnetically suspended, guided and propelled vehicle. 3,768,417, 10-30-73, Cl. 104-148.00ss.
Thornton, Roland L., Jr., to Cameron Iron Works, Inc., mesne. Communication and control system. 3,717,849, 2-20-73, Cl. 340-163.000.
Thornton-Trump, Walter E. High level washing and dusting apparatus for aircraft and the like. 3,775,798, 12-4-73, Cl. 15-21.00e.
Thorough-Bread Industries, Limited: *See*—
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Thoroughgood, John Allan, to Du Pont de Nemours, E. I., and Company. Process for preparing polyfluoroperhalocyclobutenes. 3,728,405, 4-17-73, Cl. 260-648.00f.
Thorp, Benjamin Adelbert: *See*—
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Thorp, James; and Jessen, Uwe, to Kilbus, August. Presser plate, conveyor mechanism and creasing iron arrangement for book pressing machine. 3,771,185, 11-13-73, Cl. 11-1.0cp.
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Thorpe, Eric F.: *See*—
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Thorpe, Irvin I. Sheet metal cover for a truck body. 3,774,958, 11-27-73, Cl. 296-98.000.
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Thorpe, Laurence Joseph, to RCA Corporation. Differential amplifier. 3,733,559, 5-15-73, Cl. 330-30.00d.
Thorpe, Laurence Joseph; and Killough, Joseph Allen, to RCA Corporation. Television special effects control pulse-generating apparatus. 3,757,041, 9-4-73, Cl. 178-7.200.
Thorpe, Leslie William; Hayward, Geoffrey Charles; and Waters, James Leslie Charles, to Beckman R.I.I.C., Ltd. Interference spectroscopy. 3,753,619, 8-21-73, Cl. 356-106.00s.
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Thorsbt, Claude A. Mechanical transmission device. 3,762,523, 10-2-73, Cl. 192-139.000.
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Thorsby, Claude A.; and White, Robert L., to General Motors Corporation. Shock absorbing bumper. 3,715,114, 2-6-73, Cl. 267-140.000.
Thorsby, Harry Pichonsky. Pyrohy maker. 3,767,343, 10-23-73, Cl. 425-218.000.
Thorsell, Roland H., to Speed Cut, Inc. Adjustable wheel suspension units for vehicles. 3,756,619, 9-4-73, Cl. 280-104.000.
Thorsie, Fleming, to Danfoss A/S. Thermal starting device for a single-phase asynchronous motor. 3,775,650, 11-27-73, Cl. 318-221.00h.
Thorsoe, Flemming, to Danfoss A/S. Reversible counter. 3,732,403, 5-8-73, Cl. 235-92.0pe.
Thorson, Sheldon E.; Clemons, Cecil I.; and Viola, Vito, to Singer Company, The. Inking device for a rotary printing member. 3,760,722, 9-25-73, Cl. 101-350.000.
Thorsted, Kenneth G.; and Dillinger, Robert B., to United States of America, Navy. Vortex baffle. 3,712,061, 1-23-73, Cl. 60-253.000.
Thorsteinsson, John B. Carrier current relay. 3,735,316, 5-22-73, Cl. 337-335.000.
Thorud, Richard A.; and Hasenbank, Kenneth N., to Toro Manufacturing Corporation. Rotary mower with safety discharge. 3,750,378, 8-7-73, Cl. 56-10.500.
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Thrailkill, Arthur E.; and Geene, Robert W., to United States of America, Army. Solid bipropellant. 3,722,421, 3-27-73, Cl. 102-101.000.
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Thrasher, George E., Jr.; and Bertva, John T., to Master Pneumatic-Detroit, Inc. Lubricating apparatus. 3,731,763, 5-8-73, Cl. 184-7.00d.
Thrasher, Howard G., to Litton Systems, Inc. Vibrator isolator assembly. 3,747,914, 7-24-73, Cl. 207-136.000.
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Thring, Meredith Wooldrige; Cadorin, Dante; and Ducato, Aldo, to Montecatini Edison S.p.A. Process for producing pigment-quality titanium dioxide. 3,764,667, 10-9-73, Cl. 423-613.000.
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Throckmorton, Morford C., to Goodyear Tire & Rubber Company, The. Polymerization of conjugated diolefins. 3,734,900, 5-22-73, Cl. 260-94.300.
Throckmorton, Peter E.; Aelony, David; Egan, Richard R.; and Otey, Felix H., to United States of America, Agriculture. Biodegradable surfactants from starch-derived glycosides. 3,737,426, 6-5-73, Cl. 260-210.00r.
Throckmorton, Peter E.; McKillip, William J.; and Richards, Harvey J., to Ashland Oil, Inc. Stabilization of halogen containing polymers. 3,767,615, 10-23-73, Cl. 260-45.75r.
Thronton, Lyman L., to Mahon Technology Group, Inc., mesne. Electropainting. 3,756,935, 9-4-73, Cl. 204-181.000.
Throssell, Norman J. Collapsible shelter unit. 3,708,199, 1-2-73, Cl. 296-23.0mc.
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Thrower, Arthur J.; and Hotchkiss, Marvin E., to Goodrich, B. F., Company, The. Segmented friction member assembly for brake or clutch. 3,724,623, 4-3-73, Cl. 192-107.00r.
Thrower, Herbert T., Jr., to Hoechst Fibers Incorporated. Texturing process and apparatus therefor. 3,762,148, 10-2-73, Cl. 57-77.300.
Thrumond, James A. Foldable, readily-transportable seat. 3,730,294, 5-1-73, Cl. 182-20.000.
Thrust, Incorporated: *See*—
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Thulin, Sigvard, to AGA Aktiebolag. Device for automatic sampling and measurement of liquid volumes. 3,769,841, 11-6-73, Cl. 73-425.40p.
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Thumm, Wilhelm; and Nagel, Horst, to Metallgesellschaft Aktiengesellschaft and Steel Company of Canada, Limited, The. Method of restricting the oxidation of sponge iron. 3,723,059, 3-27-73, Cl. 21-2.500.
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Thuring, Norbert, to Singer Company, The, mesne. Two-step buttonhole mechanism selections systems. 3,754,521, 8-28-73, Cl. 112-158.00b.
Thurk, Gerhard; and Beier, Helmut, to Siemens Aktiengesellschaft. High voltage circuit breaker. 3,723,685, 3-27-73, Cl. 200-148.00e.
Thurlow, Wallace; and Trapasso, Louis S., to General Electric Company. Instrument lighting system with inward illumination of the display and outward illumination of nomenclature and index marks. 3,729,626, 4-24-73, Cl. 240-1.0el.
Thurman, R. E. Credit and pass card identification device. 3,721,128, 3-20-73, Cl. 73-432.00r.
Thurman, Robert K., to Merritt Division of Murphy Pacific Marine Salvage Company. Floating oil containment boom. 3,751,925, 8-14-73, Cl. 61-6.00f.
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Thut, Paul John, to Burroughs Corporation. Alignment means for a bed and platen printing machine. 3,712,211, 1-23-73, Cl. 101-93.0mn.
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Thybault, Neil H., 1/2 to Nicholas, Chris. Fly catching attachment for vacuum cleaner. 3,750,327, 8-7-73, Cl. 43-139.000.
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Tibavido, Raymond S., to Leigh Systems, Inc. Edge sensing apparatus. 3,727,817, 4-17-73, Cl. 226-19.000.
Tibbals, Donald H. Ballasted vehicle tire and self-sealing thixotropic ballast composition therefor. 3,747,660, 7-24-73, Cl. 152-330.000.
Tibbals, Edward Camp, Jr.; and Keller, Jack. Fluidic cycled sprinkler head. 3,767,119, 10-23-73, Cl. 239-251.000.
Tibbetts, Alan R.; and Tucker, Donald R., to Airco, Inc. Assembling apparatus for rolling and clamping a part to a tubular member. 3,735,465, 5-29-73, Cl. 29-202.00d.
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Tibbs, Eugene E. Chest drainage system. 3,750,692, 8-14-73, Cl. 137-205.000.
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Tiedeman, George T., to Weyerhaeuser Company. Rapid curing resin compositions comprising the reaction product of an aldehyde condensation polymer with a primary aromatic amine further reacted with a curing agent. 3,773,721, 11-20-73, Cl. 260-51.500.
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Tisdale, Glenn E., to Westinghouse Electric Corporation. Automatic registration of points in two separate images. 3,748,644, 7-24-73, Cl. 340-149.00a.
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Tisdel, Lawrence C.; and Scott, Harry B., to Chapman, Wood, & Griswold, Ltd. Apparatus for crystallization and recovery of elemental sulfur from solvents. 3,762,880, 10-2-73, Cl. 23-273.00r.
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Titov, Alexei Alexeevich; Smirnov, Jury Vasilievich; Mashkovsky, Jury Shabsaevich; Tamitsky, Ernest Dmitrievich; Chursin, Vladimir Nikitovich; Antonova, Ljudmila Leonidovna; and Selitskaya, Tamara Stepanovna. Photographic material. 3,753,717, 8-21-73, Cl. 6-88.000.
Titov, Dmitry Vladimirovich. Beating up device for looms. 3,744,532, 7-10-73, Cl. 139-188.000.
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Tixier, Michel, to Regie Nationale des Usines Renault and Automobiles Peugeot. Method for machining grooves and gear teeth. 3,738,225, 6-12-73, Cl. 90-3.000.

Tixier, Michel, to Regie Nationale des Usines Renault and Automobiles Peugeot. Lighting devices with automatic regulation. 3,752,408, 8-14-73, Cl. 240-46.050.

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Tizon Chemical Corporation: *See—*
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Tlam, Elvin W., to Explosives Corporation of America. Safety two-component detonator. 3,719,144, 3-6-73, Cl. 102-28.00r.

Tlam, Elvin W., to Explosives Corporation of America. Safety detonating apparatus. 3,739,724, 6-19-73, Cl. 102-28.00r.

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Tobak, Lev Zeilikovich; Shterman, Semen Abramovich; Brandenburgsky, Mikhail Galileevich; Lichman, Nikolai Iosifovich; and Lugovskoi, Andrei Lukyanovich, to Odessky Zavod Pressov. Double-action hydraulic forcing press. 3,713,198, 1-30-73, Cl. 29-208.00c.

Tobbe, William F.; Benway, Ernest A.; Simko, David M.; Gallagher, Bernard J.; and Boylan, John, to Whitey Research Tool Co. Flow plugger valve. 3,761,052, 9-25-73, Cl. 251-88.000.

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Tobey, Hubert E.; Hood, John W.; and Irvin, Dee L., to International Telephone and Telegraph Corporation. Channeling conveyor. 3,771,640, 11-13-73, Cl. 198-31.0aa.

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Tobias, Emil A. Sanitation apparatus. 3,733,098, 5-15-73, Cl. 294-19.00r.

Tobias, James R. Granular material spreader. 3,768,737, 10-30-73, Cl. 239-666.000.

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Tobias, Michael A., to Mobil Oil Corporation. Preparation of 1,2-cyclohexanedione. 3,751,478, 8-7-73, Cl. 260-586.00r.

Tobias, Philip E. Automatic sheet material transport machine. 3,717,160, 2-20-73, Cl. 134-122.000.

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Tobin, Joseph M.; and Adelsberg, Lee M., to Westinghouse Electric Corporation. Forming dense carbide articles from molten refractory metal contained in carbonaceous mold. 3,758,662, 9-11-73, Cl. 264-332.000.

Tobin, Julian Jacob: *See—*
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Tobin, Michael F., to General Motors Corporation. Beaded tube with D-ring. 3,778,090, 12-11-73, Cl. 285-222.000.

Tobin, Robert A. Necktie holder. 3,762,570, 10-2-73, Cl. 211-13.000.

Tobin, Robert O., 1/2 to Woodman, Frank W. Raised panel door and method of manufacture. 3,731,444, 5-8-73, Cl. 52-316.000.

Tobin-Arp Manufacturing Company: *See—*
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Tobinick, Sidney; and Semenoff, Arnold, to Aqua Therm Products Corporation. Water bed having attached pillow. 3,722,012, 3-27-73, Cl. 5-348.0wb.

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Todd, David A.; and Fitzgerald, Barry Joseph. Quantity and price computer system. 3,751,642, 8-7-73, Cl. 235-151.340.

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Todd, John H., to Michigan Chemical Corporation. Method of producing fire retardant emulsions. 3,729,434, 4-24-73, Cl. 106-15.0fp.

Todd, Marion N.; and Milder, D. Michael, to Tetra-Tech Incorporated. Pressure-modulated multiple gas analyzer. 3,728,540, 4-17-73, Cl. 250-43.50r.

Todd, Theodore J. Pressure compensating trickle rate fluid outlet. 3,727,635, 4-17-73, Cl. 137-513.500.

Todd, William B. Projectile and target apparatus including scoring pieces adapted for attachment to the projectile. 3,711,095, 1-16-73, Cl. 273-95.00r.

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Toepfer, Edwin F. Lock cylinder mechanism. 3,733,863, 5-22-73, Cl. 70-363.000.

Toepfl, Rosemarie; Abel, Heinz; and Maeder, Arthur, to Ciba-Geigy AG. Preparations of reaction products of epoxides, fatty amines and basic polyamides, processes for their manufacture and their use. 3,709,847, 1-9-73, Cl. 260-18.0pn.

Toepfl, Rosemarie; Abel, Heinz; and Maeder, Arthur, to Ciba-Geigy AG. Reaction product of epoxy resins, fatty amines, dicarboxylic acids and aminoplasts. 3,769,365, 10-30-73, Cl. 260-834.000.

Toepfl, Werner; and Hitz, Hans-Rudolf, to Ciba-Geigy AG. Halogenated cyanoacetic acid piperidide. 3,733,332, 5-15-73, Cl. 260-293.860.

Toepfl, Werner, to Ciba-Geigy AG. Microbicidal and germicidal compositions containing N-halophenyldichloroisothiazolones. 3,749,788, 7-31-73, Cl. 424-270.000.

Toepper, George G., to Universal Oil Products Company. Method of fabricating a flexible connector. 3,740,832, 6-26-73, Cl. 29-508.000.

Toews, Vern J.; and Wigle, Harold E., to Bryan, William P., Jr. and Toews, Vern J.; d/b/a B&T Gardens. Container and handle arrangement. 3,707,806, 1-2-73, Cl. 47-34.130.

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Tomczak, James J.: *See—*
Daughton, James M.; Tomczak, James J.; and Wiedman, Francis W., III, 3,753,235.

Tomecek, Jerry J. Turn signal apparatus with improved switch structure and printed circuit board. 3,719,787, 3-6-73, Cl. 200-61.270.

Tomeco, Inc.: *See—*
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Tomei, Keichi: *See—*
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Grubb, John J.; and Tomei, Keichi, 3,762,798.
Grubb, John J.; and Tomei, Keichi, 3,768,978.
Grubb, John J.; and Tomei, Keichi, 3,778,165.

Tomek, Harry P. Combination flashlight and continuity tester having hinged contact. 3,753,090, 8-14-73, Cl. 324-53.000.

Tomelilla Dental AB: *See—*
Holmqvist, John Gustav Ulrik, 3,740,852.

Tomerlin, Benjamin E. Probability teaching aid. 3,717,941, 2-27-73, Cl. 35-30.000.

Tomezsko, Joseph F.: *See—*
Hirsch, Richard; and Tomezsko, Joseph F., 3,735,854.

Tomic, Ernst A., to Du Pont de Nemours, E. I., and Company. Chemical foaming of water-bearing explosives. 3,711,345, 1-16-73, Cl. 149-22.000.

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Tomic, Ernst A., to Du Pont de Nemours, E. I., and Company. Emulsion type explosive composite containing ammonium stearate or alkali metal stearate. 3,770,522, 11-6-73, Cl. 149-2.000.

Tomidokoro, Susumu: *See—*
Yamane, Izumi; Saika, Daini; and Tomidokoro, Susumu, 3,776,956.

Tomik, George A. Auger plow. 3,714,990, 2-6-73, Cl. 172-58.000.

Tomilin, Alexandr Grigorievich: *See—*
Zhdanov, Konstantin Ivanovich; Tomilin, Alexandr Grigorievich; Polyakov, Anatoly Mikhailovich; Luznin, Andrei Alexandrovich; Kaimov, Gennady Petrovich; Vasiliev, Jort Nikolaevich; Sheremet, Nilolai Andreevich; Bekhli, Jury Georgievich; and Federov, Evgeny etrovich, 3,722,215.

Tomimori, Kiyoshi: *See—*
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Tominaga, Hiroshi; and Takamatsu, Masanobu, to Tokyu Sharyo Seizo Kabushiki Kaisha. Impact hydraulic forming device. 3,721,091, 3-20-73, Cl. 60-54.50h.

Tomioka, Chikanori: *See—*
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Tomioka, Hideo: *See—*
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Tomioka, Hiroyuki, to Shinko Wire Co., Ltd. Method of anchoring wires and strands in prestressed concrete. 3,748,723, 7-31-73, Cl. 29-517.000.

Tomioka, Kunio; and Kubota, Yohiro, to Kabushiki Kaisha Komatsu. Apparatus for transferring formed articles between presses. 3,753,489, 8-21-73, Cl. 198-219.000.

Tomisiige, Teruki: *See—*
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Tomita, Akira: *See—*
Yamamoto, Akira; Nakaoji, Kunio; Oohara, Kunio; Nomiyama, Zenjiro; Murakami, Heiichiro; and Tomita, Akira, 3,759,849.

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Tomita, Chuji; Miyazaki, Yuji; Kobayashi, Kazuo; and Okudaira, Mitsu, to Hitachi Roentgen Co., Ltd. Tomographic apparatus. 3,770,955, 11-6-73, Cl. 250-52.000.

Tomita, Jun, to Minnesota Mining and Manufacturing Company. Heat-shrinkable pressure-sensitive adhesive tape. 3,718,495, 2-27-73, Cl. 117-7.000.

Tomita, Kazuo: *See—*
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Tomita, Kazuo; and Takahi, Yukiyoshi, to Sankyo Company, Limited. Isoxazolinone compounds, process for the preparation thereof and their use as agricultural chemicals. 3,767,665, 10-23-73, Cl. 260-307.00a.

Tomita, Kuniyuki: *See—*
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Tomita, Mamoru: *See—*
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Tomita, Sadami: *See—*
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Tomita, Sadami, to Hitachi, Ltd. Laminated magnetic coil materials. 3,719,911, 3-6-73, Cl. 336-196.000.

Tomita, Tadayoshi; Kikuchi, Katsutoshi; and Sakamoto, Takayuki, to Toyo Engineering Corporation. Process for preparing olefins. 3,767,567, 10-23-73, Cl. 208-122.000.

Tomita, Takao; and Uesugi, Masayoshi, to Honda Giken Kogyo Kabushiki Kaisha. Apparatus for supporting the gear shift lever for operating the transmission of a motorcar. 3,757,884, 9-11-73, Cl. 180-77.00r.

Tomita, Tamaki; Unno, Kunihiko; and Kobayashi, Akiyoshi, to Toyoda Koki Kabushiki Kaisha. Thread grinding machine. 3,728,823, 4-24-73, Cl. 51-95.0tg.



Tomita, Tamaki; Kusakabe, Takesi; Kurimoto, Mikishi; Isuneo, Takahashi, Yasuyoshi; Oshiro, Nobuhiko; Mayeui, Tsutomu;

Tomita, Tamaki; Kusakabe, Takesi; Kurimoto, Mikishi; Isuneo, Iwami; Keniti, Iwami; Nomura, Kenzi; and Yoshikazu, Sano, to Toyoda Machine Works, Limited. Numerically controlled machine tool with automatic tool changing apparatus. 3,775,837, 12-4-73, Cl. 29-68.000.

Tomita, Teiji, to Tokyo Shibaura Electric Co., Ltd. Gate equipment. 3,742,647, 7-3-73, Cl. 49-35.000.

Tomita, Yasuo: *See—*
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Tomita, Yoshifumi: *See—*
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Tomiyama, Eijiro, to Tomy Kogyo Co., Ltd. Acrobatic toy robot. 3,728,815, 4-24-73, Cl. 46-104.000.

Tomiyama, Shinichi; Susuki, Rinnosuke; Hoshi, Hiroshi; Saito, Jiro; Goto, Hiro; Umehara, Kenji; and Murakami, Keiichi, to Lion Fat & Oil Co., Ltd. Method of preparing calcium sulfite for use as a filler for plastics. 3,739,060, 6-12-73, Cl. 423-512.000.

Tomiyasu, Hiroshi. Impact-type powder/granule flow meter. 3,742,762, 7-3-73, Cl. 73-228.000.

Tomizawa, Kazuhiro. Buffer means between link and shoe plate in a crawler-type apparatus. 3,762,780, 10-2-73, Cl. 305-46.000.

Tomizawa, Takao: *See—*
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Tomki, Tetsuhiko; and Miyata, Takeo, to Matsushita Electric Industrial Co., Ltd. Optical filter comprising a substrate of metal fluoride having deposited thereon a film of strontium or barium fluoride. 3,744,870, 7-10-73, Cl. 350-1.000.

Tomkins, Brian Bolton: *See—*
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Tomkins, Harold E., to Myers Double Tee Structures, Inc., mesne. Composite panel fastening device having interlock feature. 3,780,481, 12-25-73, Cl. 52-265.000.

Tomko, Lawrence Andrew: *See—*
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Tomlin, Bruce Warren: *See—*
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Tomlin, Clive Dudley Spencer: *See—*
Barlow, Charles Brian; and Tomlin, Clive Dudley Spencer, 3,778,437.

Tomlin, Garland L., Jr. Integral fault detection system for operating electronics equipment. 3,715,598, 2-6-73, Cl. 250-106.00t.

Tomlin, Garland L., Jr., to United States of America, Navy. Fault detection system. 3,720,935, 3-13-73, Cl. 340-248.00r.

Tomlin, Jerry B.: *See—*
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Kemp, Willard E.; and Tomlin, Jerry B., 3,760,833.

Tomlin, Jerry B.; and Helenberg, John, to ACF Industries, Incorporated. Means to rotate spherical plug valve. 3,776,507, 12-4-73, Cl. 251-248.000.

Tomlinson, Barbara L. Dispensable head covering. 3,710,396, 1-16-73, Cl. 2-197.000.

Tomlinson, Charles W., to Acme Visible Records, Inc. Document carrier envelope construction. 3,724,743, 4-3-73, Cl. 229-55.000.

Tomlinson, Edward G., to Uniroyal Inc. Splice for toothed power transmission belts. 3,744,095, 7-10-73, Cl. 24-38.000.

Tomlinson, F. Keith; and Shell, Harold E. Clip-on shell catcher. 3,755,946, 9-4-73, Cl. 42-1.00r.

Tomlinson, George A., Jr.; Long, Tommie J.; and Galloway, Gene C., to Unit Rig & Equipment Company. Divided body for dump trucks. 3,729,230, 4-24-73, Cl. 298-7.000.

Tomlinson, Lee H.: *See—*
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Tomlinson, Norfleet. Pollution-reducing fuel filter. 3,724,429, 4-3-73, Cl. 123-25.00r.

Tomlinson, Walter John, III: *See—*
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Tommasini, Raffaele: *See—*
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Lauria, Francesco; Vecchietti, Vittorio; Bergamaschi, Mario; and Tommasini, Raffaele, 3,732,308.

Tommerup, Carl C. H. Pruning tool. 3,755,896, 9-4-73, Cl. 30-372.000.

Tomohiro, Kazutaka; and Onishi, Kenichi. Conducting fluid inertia type switch with linearly movable conductive plunger contact. 3,740,503, 6-19-73, Cl. 200-61.470.

Tomokubo, Yoshiaki: *See—*
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Tomotsu, Takeshi: *See—*
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Tomozawa, Atsushi, to Nippon Electric Company, Limited. Time-division multiplex delta-modulation communication system. 3,710,056, 1-9-73, Cl. 179-15.0by.

Tomozawa, Atsushi, to Nippon Electric Company Limited. Digital communication system. 3,737,780, 6-5-73, Cl. 325-38.00b.

Tomozawa, Atsushi, to Nippon Electric Company, Limited. Code conversion apparatus. 3,766,542, 10-16-73, Cl. 340-347.0dd.

Tomozuka, Haruki: *See—*
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Tompkins, Dale A., to Firestone Tire & Rubber Company, The. Process for modulating the curing exotherm of thermosetting high-vinyl polybutadiene. 3,766,124, 10-16-73, Cl. 260-33.6aq.

Tompkins, Melvin W.; and Retz, George F., to American Standard, Inc. Intersection construction for movable wall panel system. 3,748,793, 7-31-73, Cl. 52-64.000.

Tompkins, Neil R., to Halsey Harvester & Supply Co., Inc. Shaker unit. 3,762,139, 10-2-73, Cl. 56-328.0ts.

Tompkins, Neil R., to Halsey Harvester & Supply Co., Inc. Shaker head. 3,780,510, 12-25-73, Cl. 56-328.0ts.

Tompkins, Robert Van Fleet, to RCA Corporation. Wire stripping apparatus and method. 3,739,818, 6-19-73, Cl. 140-147.000.

Tompsett, Alan John: *See—*
Gough, Arthur; and Tompsett, Alan John, 3,736,348.

Tompsett, David Elliott, to Bell Telephone Laboratories, Incorporated. Electric to fluidic transducer. 3,747,644, 7-24-73, Cl. 137-825.000.

Toms, Nathaniel C., II. Automobile hanger bracket. 3,708,093, 1-2-73, Cl. 224-42.45a.

Toms River Chemical Corporation: *See—*
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Tomsa, Stanley J., to Motorola, Inc. In-band data transmission system. 3,735,048, 5-22-73, Cl. 179-15.0bm.

Tomson, David John Martin; and Sergeant, John Francis Charles, to Whitbread & Company, Limited. Road vehicles of open construction. 3,762,760, 10-2-73, Cl. 296-100.000.

Tomura, Teruichi; and Iyama, Hiroyuki, to Hitachi, Ltd. Inverter. 3,753,075, 8-14-73, Cl. 321-44.000.

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Tonari, Hirohiko, to Matsushita Electric Industrial Co., Ltd. Frequency presetting equipment. 3,767,112, 10-23-73, Cl. 334-1.000.

Tonari, Hirohiko, to Matsushita Electric Industrial Co., Ltd. UHF tuning mechanism. 3,780,594, 12-25-73, Cl. 74-10.520.

Tonchev, Toncho G.: *See—*
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Tondato, Carlo F. Mold press. 3,761,215, 9-25-73, Cl. 425-193.000.

Tone Boring Company Limited: *See—*
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Ikeda, Nobuhisa, 3,773,121.
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Tone, Frederick F., to Eastman Kodak Company. Method for manufacturing aperture cards. 3,779,786, 12-18-73, Cl. 117-4.000.

Tone, Hiroshi: *See—*





Kitai, Atsuo; Tone, Hiroshi; and Ozaki, Asaichiro, 3,743,582.

Tong, Shih Yung, to Bell Telephone Laboratories, Incorporated. Error correcting systems utilizing one-half optimum diffuse codes. 3,718,905, 2-27-73, Cl. 340-146.0aq.

Tong, Shih Yung, to Bell Telephone Laboratories, Incorporated. Error-correcting systems utilizing rate 1/2 diffuse codes. 3,728,678, 4-17-73, Cl. 340-146.1aq.

Tongas, Robert J.: *See—*
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Tongue, Thomas O., to Grace, W. R., & Co. Venting device. 3,744,976, 7-10-73, Cl. 23-260.000.

Tonichi Manufacturing Co., Ltd.: *See—*
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Tonies, Lawrence A., to Mangood Corporation. Method and apparatus for generating a read-out signal synchronized with railway vehicle movement. 3,745,335, 7-10-73, Cl. 246-247.000.

Tonjes, Burl D.: *See—*
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Tonjes, Henry B., Jr. Rake attachment for rotary mower. 3,742,688, 7-3-73, Cl. 56-193.000.

Tonjum, John A., to Hormel, Geo. A., & Co. Ham press apparatus. 3,750,563, 8-7-73, Cl. 100-194.000.

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Tonking, Henry B., Jr., 1/2 each to International Paper Company and Stanley Works, The. Apparatus and method for handling large size corrugated paperboard panels. 3,747,481, 7-24-73, Cl. 93-1.00r.

Tonkowich, William; Meditz, John A.; and Vignola, Paul, to Safetech, Inc. Intrusion alarm for windows and other openings. 3,713,132, 1-23-73, Cl. 340-273.000.

Tonkowich, William; and Medvitz, John A., to Safetech, Inc. Vehicle anti-theft system. 3,756,341, 9-4-73, Cl. 180-114.000.

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Tonnessen, Tonnes K. Nonpolluting engine. 3,724,432, 4-3-73, Cl. 123-74.00r.

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de Groot, Cornelis Nicolaas; Hobbs, John S.; and Tonsbeek, Christiaan Herman Theodoor, 3,709,697.

Tontini, Remo; Millman, Victor; and MacDonald, Howard R., to Rohr Corporation. Thrust control and sound apparatus. 3,711,013, 1-16-73, Cl. 239-265.170.

Tontini, Remo, to Rohr Corporation. Sound suppressing apparatus. 3,726,091, 4-10-73, Cl. 60-264.000.

Tontini, Remo, to Rohr Corporation. Thrust augmenting and sound suppressing apparatus. 3,737,005, 6-5-73, Cl. 181-33.0hc.

Tontini, Remo, to Rohr Industries, Inc. Thrust augmenting and south suppressing apparatus and method. 3,739,984, 6-19-73, Cl. 239-265.170.

Tontini, Remo, to Rohr Industries, Inc. Sound suppressing thrust augmenting apparatus. 3,749,316, 7-31-73, Cl. 239-265.130.

Tonus, Inc.: *See—*
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Tooka, Takuzo, to Kabushiki Kaisha Toyoda Jidoshokki Seisakusho. Pneumatic device for automatic control system of sliver's thickness. 3,710,421, 1-16-73, Cl. 19-240.000.

Tool & Equipment Mfg. Co., Inc.: *See—*
Ward, James E., 3,736,011.

Toole, James F.; Barnes, Ralph W., Jr.; and Janeway, Richard. Tiltable bed with automatic control system. 3,765,406, 10-16-73, Cl. 128-24.00r.

Toolmasters Limited: *See—*
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Tools for Bending, Inc.: *See—*
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Toombs, Alfred J. L.; and Armstrong, Warren E., to Shell Oil Company. Production of catalyst or catalyst support. 3,726,811, 4-10-73, Cl. 252-463.000.

Toombs, Alfred John Lawrence: *See—*
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Toomey, Francis J. Automotive vehicle emergency air brake system. 3,765,729, 10-16-73, Cl. 303-13.000.

Tooming, Khugo Gustavovich; Kjulvya, Leopold Yakobovich; Gorschenin, Eduard Andreevich; and Nevalins, Arnold Yanovich. Machine for sewing up netting webs. 3,777,682, 12-11-73, Cl. 112-121.150.

Toon, Paul: *See—*
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Topham, Alan Eric; and Topham, Cedric Henry. Valves for controlling fluid flow. 3,780,983, 12-25-73, Cl. 251-158.000.

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Topham, Michael Johnston, to English Calico Limited. Liquid valves. 3,753,547, 8-21-73, Cl. 251-120.000.

Topilin, Valentin Vasilievich: *See—*
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Topler, Ernest: *See—*
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Topliffe, Doris H. Dough slicer. 3,774,487, 11-27-73, Cl. 83-278.000.

Toplis, John Geoffrey, to Raleigh Industries Limited. Cycle brake having brake adjusting mechanism. 3,759,352, 9-18-73, Cl. 188-24.000.

Topliss, John G., to Schering Corporation. Method of treating hypertension using thieno [1,2,4]thiadiazines. 3,733,409, 5-15-73, Cl. 424-246.000.

Topliss, John G., to Schering Corporation. 2-[N-(Phthalimidoacetyl)-N-(polyfluoroloweralkyl] aminobenzophenones. 3,755,358, 8-28-73, Cl. 260-326.00n.

Topliss, John G., to Schering Corporation. 2-Polyfluoroloweralkylamino benzophenones. 3,781,360, 12-25-73, Cl. 260-570.0ab.

Topol, George J.: *See—*
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Levin, Gilbert V.; and Topol, George J., 3,730,882.
Levin, Gilbert V.; and Topol, George J., 3,756,946.

Topol, Leo E., to North American Rockwell Corporation. Synthesis of ionically conductive compositions of matter. 3,719,609, 3-6-73, Cl. 252-518.000.

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Torii, Tatsumi; and Miyajima, Haruo, to Aisin Seiki Kabushiki Kaisha. Automotive wheel brake mechanism fitted with automatic brake gap and adjuster. 3,722,635, 3-27-73, Cl. 188-79.50p.

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Toshioka, Nobuo; Okumura, Shigeo; and Mita, Itaru, to Santen Pharmaceutical Co., Ltd. Process for the production of N-ethyl-N-(γ-picolyl)-tropamide and intermediate therefor. 3,741,975, 6-26-73, Cl. 260-295.0am.

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Tosswill, Christopher H., to Bendix Corporation, The. System for detecting high energy electromagnetic radiation. 3,752,987, 8-14-73, Cl. 250-336.000.

Tosteson, Daniel C., to Duke University, Inc. Instantaneous measurement of potassium and other specific ion activities. 3,737,379, 6-5-73, Cl. 204-1.00f.

Total (Power Hydraulics) Limited: *See—*
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Toth, Albert S. Two-way filter. 3,757,954, 9-11-73, Cl. 210-277.000.

Toth, Alex, to Ellis Corporation. Commercial laundry machine and releasable connections therefor. 3,712,089, 1-23-73, Cl. 68-210.000.

Toth, Alex; and Fesmire, Robert H., to Ellis Corporation. Laundry machine and loading structure therefor. 3,712,090, 1-23-73, Cl. 68-210.000.

Toth, Alex, to Ellis Corporation. Commercial laundry machine and base assembly and cart positioner therefor. 3,718,013, 2-27-73, Cl. 68-208.000.

Toth, Alex, to Ellis Corporation. Dual controlled valve assembly. 3,737,140, 6-5-73, Cl. 251-14.000.

Toth, Alex, to Ellis Corporation. Commercial laundry machine. 3,751,947, 8-14-73, Cl. 68-210.000.

Toth, Arpad: *See—*
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Toth, Charles; Bailey, Raymond V.; and Harris, Harry G., Jr., to Applied Aluminum Research Corporation. Process for producing aluminum. 3,713,809, 1-30-73, Cl. 75-68.00b.

Toth, Charles; and Harris, Harry Gordon, Jr., to Applied Aluminum Research Corporation. Process for producing aluminum. 3,713,811, 1-30-73, Cl. 75-68.00r.

Toth, Jeno: *See—*
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Toth, John Arpad, to Mindrill Limited. Drilling apparatus. 3,758,059, 9-11-73, Cl. 248-23.000.

Toth, John E.; and Grant, Arthur G. Precision sorting apparatus. 3,737,033, 6-5-73, Cl. 209-74.00r.

Toth, Julius; and Walker, Edward M., to Westinghouse Electric Corporation. Thermoplastic sealed-sheath covering upon electrical bus-bar conductors. 3,755,616, 8-28-73, Cl. 174-120.0sr.

Toth, Laszlo, to Transelektro Magyar Villamossagi Kulkereskedelmi Vallalat. Auxiliary battery for motor vehicles. 3,758,345, 9-11-73, Cl. 136-181.000.

Toth, Miklos, to Wilms, Hermann. Electrodynamic sound pickup or sound track cutting device. 3,729,596, 4-24-73, Cl. 179-100.41k.

Toth, Tibor E., to Union Carbide Corporation. Full wave governor control system. 3,781,620, 12-25-73, Cl. 318-331.000.

Toth, Tibor Endre, to Union Carbide Corporation. AC-DC short circuit welding indicator. 3,725,636, 4-3-73, Cl. 219-131.00r.

Toth, Tibor Endre, to Union Carbide Corporation. Arc working power supply with saturable reactor current control. 3,781,640, 12-25-73, Cl. 321-18.000.

Tothill, Gordon R., to Electro Dynamics & Telecom, Ltd. Telephone line extender with test-thru capability. 3,757,052, 9-4-73, Cl. 179-16.00f.

Toti, Andrew J. Method of forming a structural unit. 3,722,052, 3-27-73, Cl. 29-155.00r.

Toti, Andrew J. Structural assembly joint and method forming same. 3,741,593, 6-26-73, Cl. 287-184.36d.

Toto, Louis R. Vehicular composting machine and method for aerobically decomposing waste materials. 3,776,528, 12-4-73, Cl. 259-183.000.

Totoonchie, Edward Peter, to Versa Wall Inc. Demountable wall partition system. 3,766,696, 10-23-73, Cl. 52-241.000.

Totschnig, Manfred, to Volkswagenwerk Aktiengesellschaft. Device for indicating the actuated position of a manual brake and of the wear of the brake lining, especially for motor vehicles. 3,722,629, 3-27-73, Cl. 188-1.00a.

Totsu, Katsuyuki; and Morifuji, Noboru. Plug holding socket. 3,745,861, 7-17-73, Cl. 81-125.000.

Totsu, Katsuyuki. Screw driver bit with double blades. 3,753,454, 8-21-73, Cl. 145-50.00e.

Totsuka, Hisao, to Tokyo Shibaura Denki Kabushiki Kaisha. Manipulator. 3,739,923, 6-19-73, Cl. 214-1.0bc.

Totsuka, Yasushi; and Kamachi, Shin-Ichi, to Olympus Optical Co., Ltd. Automatic measuring and recording device. 3,716,839, 2-13-73, Cl. 340-172.500.

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Totty, Kenneth D.: *See—*
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Touba, Ali R., to General Mills, Inc. Method of roasting coffee. 3,767,417, 10-23-73, Cl. 426-523.000.

Touchette, Donat Pierre. Telescopic trailer. 3,734,559, 5-22-73, Cl. 296-23.00c.

Touchette, Jennie Lee: *See—*
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Touchman, William S.; and Hays, John D., to National Cash Register Company, The. Permanent magnet type torsional stepping motor. 3,735,165, 5-22-73, Cl. 310-49.000.

Touchstone, Roy Henry. Quick slack adjuster for locomotive brakes. 3,752,269, 8-14-73, Cl. 188-197.000.

Touchy, Wolfgang, to Siemens Aktiengesellschaft. Method of producing oxygen poor gallium arsenide by using aluminum with silicon or germanium as a dopant. 3,725,284, 4-3-73, Cl. 252-62.3ga.

Touchy, Wolfgang, to Siemens Aktiengesellschaft. Method of producing a gallium arsenide crystal from a solution of GaAs in Ga doped with silicon or germanium. 3,756,955, 9-4-73, Cl. 252-62.3ga.

Tough, William J.; and Hintsa, Roy A., to Rule, A. E., (1965) Limited. Sound-absorbent panel. 3,748,799, 7-31-73, Cl. 52-144.000.

Touhei, Masamichi: *See—*
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Toumaala, Jorma Aarne Kullervo, to Ahlstrom, A., Osakeyhtio. Centrifugal pump. 3,740,162, 6-19-73, Cl. 415-98.000.

Toupal, John E. Coil spring assemblies for furniture. 3,766,578, 10-23-73, Cl. 5-267.000.

Toups, Edward C., to Phillips Petroleum Company. Oriented hollow articles from styrene-acrylonitrile polymer. 3,755,277, 8-28-73, Cl. 260-85.50r.

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Tourtellot, John Allen, to RCA Corporation. Automatic record changer. 3,762,723, 10-2-73, Cl. 274-10.00r.

Tourtellotte, Frederick, to Cross Company, The. Conveyor chain. 3,738,478, 6-12-73, Cl. 198-181.000.

Tourtellotte, John F.: *See—*
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Tourtellotte, John F., to Chemical Construction Corporation. Apparatus for removing hydrocarbons from a gas stream. 3,722,189, 3-27-73, Cl. 55-389.000.

Tourtellotte, John F.; and Villiers-Fisher, John F., to Chemical Construction Corporation. Catalytic exhaust gas treatment apparatus. 3,733,181, 5-15-73, Cl. 23-288.00f.

Tourtellotte, John F.; Villiers-Fisher, John F.; and Negra, John S. Catalytic muffler. 3,736,105, 5-29-73, Cl. 23-288.00f.

Tourtellotte, John F.; Negra, John S.; Warshaw, Abe; and Villiers-Fisher, John F., to Chemical Construction Corporation. Control of nitrogen oxides emission from engines. 3,739,583, 6-19-73, Cl. 60-274.000.

Tourtellotte, John F.; Negra, John S.; Warshaw, Abe; and Villiers-Fisher, John F., to Chemical Construction Corporation. Integrated engine exhaust emission control system. 3,757,521, 9-11-73, Cl. 60-274.000.

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Toussaint, Robert; and Mulder, Elzo, to Glaverbel S.A. Method for monitoring the configuration of an upwardly drawn ribbon of glass. 3,773,486, 11-20-73, Cl. 65-29.000.

Tout, Stanley D., to Bell & Howell Company. Planetary differential and speed servo. 3,768,715, 10-30-73, Cl. 226-40.000.

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Tower, Ronald H. Instantaneous on-line water tester. 3,718,435, 2-27-73, Cl. 23-253.00r.

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Townsend and Townsend: *See—*
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Townsend, Bruce A., to Kimberly-Clark Corporation. Coating applicator arrangement. 3,736,903, 6-5-73, Cl. 118-218.000.

Townsend, Charles L. Gate valve. 3,722,857, 3-27-73, Cl. 251-203.000.

Townsend, David John, to Dewstow (Engineering) Limited. Clamping arrangements for use with moulds. 3,765,819, 10-16-73, Cl. 425-450.000.

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Townsend, Eric J., to Commissariat a l'Energie Atomique. Installation for mounting sealing rings and the like, especially for radioactive enclosures. 3,707,758, 1-2-73, Cl. 29-235.000.

Townsend, George R.; Price, Edmund J.; and Harper, George C., to Pittsburgh-Des Moines Steel Company. Modular, prefabricated, integrated communications relay tower. 3,768,016, 10-23-73, Cl. 325-1.000.

Townsend, James F., to Honeywell Information Systems, Inc. Memory overlay system. 3,753,242, 8-14-73, Cl. 340-172.500.

Townsend, John K.; and Sanford, Chester E., to Vistron Corporation. Process for preparing striped sheet material continuously. 3,716,431, 2-13-73, Cl. 156-62.400.

Townsend, Joseph W. Method of manufacturing and liner for liquid storage tank. 3,738,527, 6-12-73, Cl. 220-63.00r.

Townsend, Mark Allan, to Bell Telephone Laboratories, Incorporated. Latching switch. 3,761,855, 9-25-73, Cl. 337-78.000.

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Traber, Walter; Hambock, Heinz; and Weiss, Anton Georg, to Ciba-Geigy Corporation. O,N-Diphenyl-carbamic acid esters. 3,721,699, 3-20-73, Cl. 260-471.00c.
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Traber, Walter; and Weiss, Anton G., to Ciba-Geigy Corporation. Combatting bacteria with diphenyl thiocarbonates. 3,764,696, 10-9-73, Cl. 424-301.000.
Trabin, Sidney A. Back for a sofa. 3,733,624, 5-22-73, Cl. 5-58.000.
Tracey, Peter M. Fluid actuators. 3,710,571, 1-16-73, Cl. 60-54.50r.
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Tracy, Manville W. Automatic stake sharpening apparatus. 3,719,216, 3-6-73, Cl. 83-471.200.
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Trageser, Ludwig. Mechanism for simultaneously cutting tensioned bobbin threads as all the needle heads of an automatic embroidering machine. 3,760,749, 9-25-73, Cl. 112-252.000.
Trageser, Milton B., to Massachusetts Institute of Technology. Gravity gradiometer. 3,731,537, 5-8-73, Cl. 73-382.000.
Trahan, Albert J. Gyroscopic-action dynamic balancer. 3,710,627, 1-16-73, Cl. 73-464.000.
Trahan, Albert J., to Emhart Corporation. Neck ring arms for glassware forming machine. 3,759,686, 9-18-73, Cl. 65-167.000.
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Tranchero, Jacques. Mobile lift apparatus particularly for motor vehicles with automatic safety device. 3,758,076, 9-11-73, Cl. 254-8.00r.
Trancik, Ronald J.; Scherrer, Robert A.; and Harrington, Joseph Kenneth, to Riker Laboratories, Inc., mesne. Substituted benzoylhaloalkanesulfonanilides. 3,725,451, 4-3-73, Cl. 260-456.00a.
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Tranel, Lester J., to Olin Corporation. Method and apparatus for deforming a flat on parts of metal strip-type tubing while leaving other parts undeformed. 3,712,372, 1-23-73, Cl. 165-170.000.
Tranel, Lester J., to Olin Corporation. Method and apparatus for deforming a flat on parts of metal strip-type tubing while leaving other parts undeformed. 3,732,714, 5-15-73, Cl. 72-194.000.
Tranel, Lester J., to Olin Corporation. Method and apparatus for deforming a flat on parts of metal strip-type tubing while leaving other parts undeformed. 3,735,720, 5-29-73, Cl. 113-118.00d.
Trankle, Ewald: *See—*
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Trankner, Werner; Hahn, Erich; Hahn, Werner; and Tillig, Helmut. Single-lens reflex camera. 3,760,700, 9-25-73, Cl. 95-10.00b.
Trankner, Werner, to VEB Pentacon Dresden Kamera- und Kinowerke. Reflex photographic cameras. 3,779,146, 12-18-73, Cl. 95-42.000.
Tranquilla, Michael N.; and Kraatz, Gerald A., to Union Special Corporation. Sewing machine cooling system. 3,771,478, 11-13-73, Cl. 112-218.00r.
Tranquillitsky, George V. Cell structure of interconnected polyhedrons in panels, beams and other structural components. 3,749,636, 7-31-73, Cl. 161-37.000.
Trans-Canada Pipe Lines Limited: *See—*
French, Hartlet A., 3,766,587.
French, Hartley A., 3,732,434.
Reid, Robert J. C.; and Crate, Graham F., 3,732,034.
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Trant, Robert F.; Gray, Kenneth W.; and Capron, John W., to Continental Can Company, Inc. Doctor blade pressure/angle adjusting mechanism. 3,730,087, 5-1-73, Cl. 101-169.000.
Trap, Hendrikus Johan Lodewijk, to U.S. Philips Corporation. Glass. 3,776,743, 12-4-73, Cl. 106-53.000.
Trap, Hendrikus Johan Lodewijk, to U.S. Philips Corporation. Lithium-borovanadate glass for use in a secondary electrode. 3,776,745, 12-4-73, Cl. 106-47.00r.
Trapani, Richard G.; and Rolnick, Benjamin, to General Electric Company. Tunnel diode supply voltage control. 3,721,837, 3-20-73, Cl. 307-286.000.
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Trapp, John A. Brake cable puller. 3,768,138, 10-30-73, Cl. 29-270.000.
Trapp, Robert Lee, to Deere & Company. Snowmobile bogie wheel assembly. 3,750,774, 8-7-73, Cl. 180-5.00r.
Trapp, Robert Lee, to Deere & Company. Snowmobile idler wheel mounting. 3,758,169, 9-11-73, Cl. 305-32.000.
Trappmann, Klaus, to Motoren- und Turbinen-Union Munchen GmbH. Turbine nozzle support. 3,765,791, 10-16-73, Cl. 415-131.000.
Trasel, Johan; and Dupcak, Joseph D., to Lockheed Aircraft Corporation. Air inlet flap. 3,770,228, 11-6-73, Cl. 244-53.00b.
Trasen, Ben; and Rising, Donald B., to Millipore Corporation. Filter support and filter unit construction. 3,730,353, 5-1-73, Cl. 210-455.000.
Trask, Allen, to Mechaniwatt Corporation, The. Automatic air conditioning system. 3,758,368, 9-11-73, Cl. 165-21.000.
Trask, Blair D., to Bixby Box Toe Co., Inc. Shoe stiffener materials. 3,778,251, 12-11-73, Cl. 117-68.000.
Trask, Donald R., to Union Carbide Corporation. Apparatus for forming a cylinder. 3,777,631, 12-11-73, Cl. 93-81.00r.
Trask, R. Pierce, II, to United States of America, Army. Back pressure sensitive switch for a flueric device. 3,734,116, 5-22-73, Cl. 137-836.000.
Trask, Roland Pierce, II., to United States of America, Army. Side wall separator fluidic logic device. 3,714,955, 2-6-73, Cl. 137-839.000.
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Trassinelli, Duccio, to Sormani S.p.A. Floor lamp. 3,748,463, 7-24-73, Cl. 240-81.0bs.
Traub, Henry A; and Woodson, Leslie A., to Shamban, W. S., & Co. Seal assembly. 3,717,293, 2-20-73, Cl. 277-144.000.
Traub, Henry A., to Shamban, W. S., & Co. Sealing assembly. 3,718,338, 2-27-73, Cl. 277-165.000.
Traub, Karl, to Grundig E.M.V. Elektro-Mechanische Versuchsanstalt Inh. Max Grundig. Arrangement for indicating field strength





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Traub, Karl, to Siemens Aktiengesellschaft. Electromechanical filter. 3,745,490, 7-10-73, Cl. 333-71.000.
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Traubel, Harro; and Oertel, Harald, to Bayer Aktiengesellschaft. Using monoisocyanates to prepare microporous polyurethanes. 3,715,326, 2-6-73, Cl. 260-2.5ay.
Traumuller, Martin; and Hunneke, Fred, to Domestic Fabrics Corporation. Knitted fabric. 3,777,514, 12-11-73, Cl. 66-196.000.
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Traut, Richard T., to Kaiser Aluminum & Chemical Corporation. Molding process for splicing cable and product formed. 3,777,048, 12-4-73, Cl. 174-73.00r.
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Trautvetter, Werner; and Weisgerber, Gregor. Process for manufacturing polyvinyl fluoride with improved thermostability. 3,755,246, 8-28-73, Cl. 260-45.70r.
Trautwein, Wolfgang. Snow vehicles. 3,779,326, 12-18-73, Cl. 180-5.00r.
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Traver, Frank J., to General Electric Company. Polysiloxane composition useful as a brake fluid. 3,725,287, 4-3-73, Cl. 252-78.000.
Traverse, Robert E. Trash disposal device. 3,741,434, 6-26-73, Cl. 220-65.000.
Travin, Lev Viktorovich; and Spuv, Valentin Georgievich. Method of pulse control of high-voltage rectifiers, for example thyristors, operating in a polyphase converter, and a control system to realize said method. 3,715,606, 2-6-73, Cl. 307-252.00q.
Travis, Allen Edwin, to AMP Incorporated. Electrical contact terminal having closed entry receptacle and connector. 3,777,302, 12-4-73, Cl. 339-223.00r.
Travis Mills Corporation: *See*—
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Travis, William Blair, to Eastman Kodak Company. Process for developing photographic elements. 3,765,891, 10-16-73, Cl. 96-55.000.
Travor, Bruce W.; and Pitney, Lennord L., to United States of America, Army. Miniature initiator assembly. 3,762,267, 10-2-73, Cl. 89-1.00b.
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Traylor, Charles O., to Hutchens Industries. Axle attachment fitting. 3,773,347, 11-20-73, Cl. 280-124.00r.
Traylor, John B. Method of dealing predetermined hands. 3,709,501, 1-9-73, Cl. 273-149.00p.
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Treacy, Edmond B., to United Aircraft Corporation. Dynamic spectroscopy of picosecond pulses. 3,765,769, 10-16-73, Cl. 356-79.000.
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Trechock, Jack; Saller, Erik; and Joseph, Robert T., to FMC Corporation. Method of controlling ultrafines from reactive form coke. 3,711,318, 1-16-73, Cl. 117-100.00a.
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Tredray, John Hubert. Lifting apparatus. 3,713,556, 1-30-73, Cl. 214-621.000.
Tredway, Ralph E.; and Kokochak, David G., to General Motors Corporation. Rotary combustion engine spark plug arrangement. 3,766,893, 10-23-73, Cl. 123-8.450.
Tree City Tool & Engineering Co., Inc.: *See*—
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Treff, Ernest H., to Harris-Intertype Corporation. Harmonic drive register adjustment device for a printing press. 3,724,368, 4-3-73, Cl. 101-248.000.
Treff, Ernest H., to Harris-Intertype Corporation. Automatic ribbon associating apparatus. 3,734,487, 5-22-73, Cl. 270-52.000.
Treff, Ernest H.; and Crum, James N., to Harris-Intertype Corporation. Inker cam drive system. 3,765,328, 10-16-73, Cl. 101-349.000.
Trefzer, Robert, to Ciba-Geigy AG. Gas washing bottle. 3,709,471, 1-9-73, Cl. 261-124.000.
Tregerman, Leon; and Brindle, Stanley M., to Addressograph-Multigraph Corporation. Apparatus for preparing a binary coded record. 3,737,868, 6-5-73, Cl. 340-172.500.
Tregillis, John S.; and Schuft, Lester E. Method and apparatus for repairing dentures. 3,758,096, 9-11-73, Cl. 269-7.000.
Tregurtha, Steven John, to Lucas, Joseph, (Industries) Limited. Electrical switch having an obliquely orientated roller contact. 3,715,547, 2-6-73, Cl. 200-166.0bb.
Tregurtha, Steven John, to Lucas, Joseph, (Industries) Limited. Electrical switch having angularly oriented rectangular contacts. 3,718,794, 2-27-73, Cl. 200-166.0bb.
Treharne, Richard W.; Riley, James A.; and Thomas, Eddie R., to Kettering Scientific Research, Inc. Linear reading thermometer. 3,722,283, 3-27-73, Cl. 73-362.560.
Treharne, Richard W.; and Brown, Thomas E., to Kettering Scientific Research Inc. Method for controlling algae pollution. 3,752,747, 8-14-73, Cl. 204-149.000.
Treher, James E. Remote controlled slide changer for overhead projector. 3,778,143, 12-11-73, Cl. 353-111.000.
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Treiber, Hans-Joerg; and Zimmermann, Frank, to Knoll A.G. Chemische Fabriken. Substituted 4-cyano-4-phenylaminocyclohexanes. 3,759,974, 9-18-73, Cl. 260-465.00e.
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Treichel, Richard; Obermeier, Albert Anthony; and Schuck, Paul Robert, to Deere & Company. Hydraulic brake actuator. 3,764,183, 10-9-73, Cl. 303-54.000.
Treichler, Ernest, to Parker-Hannifin Corporation. Pressure balanced tube assembly. 3,707,878, 1-2-73, Cl. 92-164.000.
Treichler, Hans-Joerg; and Riehen, Jakob Nuesch, to Ciba-Geigy Corporation. Process for the manufacture of cephalosporin C. 3,776,815, 12-4-73, Cl. 195-36.00r.
Treirat, Eduard. Moisture responsive device. 3,747,399, 7-24-73, Cl. 73-73.000.
Trelc, William F., to McGraw-Edison Company. Can opener with removable cutter. 3,772,777, 11-20-73, Cl. 30-4.00r.
Trelease, Richard D.; Malinow, Sidney; and Baranauskas, John, to Swift & Company. Method of preparing cooked and frozen lobster products. 3,773,962, 11-20-73, Cl. 426-479.000.
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Tremblay, Denis. Snag shield and scent carrier for lure hooks. 3,722,128, 3-27-73, Cl. 43-42.100.
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Tremolada, Franco. Apparatus for charging a liquid with gas. 3,756,576, 9-4-73, Cl. 261-35.000.
Tremoulet, Olivier L., Jr., to Marine Construction & Design Co. Line coiling apparatus. 3,750,970, 8-7-73, Cl. 242-47.000.
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Trepanier, Donald L., to Dow Chemical Company, The. 4-β-Hydroxyethyl-as-triazines. 3,780,039, 12-18-73, Cl. 260-248.0as.
Trepanier, Maurice A., to Royal Oak Charcoal Company. Apparatus for activating comminuted material. 3,708,888, 1-9-73, Cl. 34-169.000.
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Uraneck, Carl A.; Trepka, William J.; and Brown, James D., 3,775,369.
Trepka, William J.; and Sonnenfeld, Richard J., to Phillips Petroleum Company. Organolithium polymerization initiators. 3,711,424, 1-16-73, Cl. 252-431.00r.
Trepka, William J.; and Sonnenfeld, Richard J., to Phillips Petroleum Company. Polymerization process employing a polymerization initiator formed on admixing a vinyltin compound and a haloarylithium compound. 3,725,376, 4-3-73, Cl. 260-94.300.
Trepka, William J.; and Sonnenfeld, Richard J., to Phillips Petroleum Company. Halophenyllithium initiators for conjugated diene polymerization. 3,763,130, 10-2-73, Cl. 260-94.20m.
Trepka, William J.; and Sonnenfeld, Richard J., to Phillips Petroleum Company. Organolithium polymerization initiators. 3,776,896, 12-4-73, Cl. 260-94.20m.
Treppish, Eugene A., to Barber-Greene Company. Gyratory crusher having means for retaining spring compression for concave supporting upper frame. 3,744,728, 7-10-73, Cl. 241-207.000.
Tresch, Charles Henri; and Hancart, Aime Michel, to Societe Nationale Industrielle Aerospatiale. Double-acting, short-stroke, low-pressure damping device. 3,744,599, 7-10-73, Cl. 188-298.000.
Tresch, Erwin Josef: *See*—
De Fries, Jan Richard Peter; and Tresch, Erwin Josef, 3,709,035.
Treschitta, John Phillip: *See*—
Woodward, Stephen Guild; and Treschitta, John Phillip, 3,745,509.
Tressel, Ronald F. Method of making wrinkle-free thin-walled coiled tubing. 3,739,615, 6-19-73, Cl. 72-57.000.
Tresselt, Carl P., to Bendix Corporation, The. Multifrequency CW radar with range cutoff. 3,750,172, 7-31-73, Cl. 343-12.00r.
Tresselt, Carl P., to Bendix Corporation, The. Range cutoff system for dual frequency CW radar. 3,766,554, 10-16-73, Cl. 343-14.000.
Trethewey, William C., to Owens-Corning Fiberglas Corporation. Temperature measuring method. 3,732,732, 5-15-73, Cl. 73-362.00r.
Treul, Frederick Florian, to Calgon Corporation. Support seat for valves. 3,767,159, 10-23-73, Cl. 251-61.200.
Treuner, Uwe; and Breuer, Hermann, to Squibb, E. R., & Sons, Inc. 5-Nitro-2-thiazolecarboxamidoxime and derivatives thereof. 3,732,237, 5-8-73, Cl. 260-302.00r.
Treuner, Uwe; and Breuer, Hermann, to Squibb, E. R., & Sons, Inc. Acylthioacetyl penicillins. 3,767,645, 10-23-73, Cl. 260-239.100.
Treuner, Uwe; and Breuer, Hermann, to Squibb, E. R., & Sons, Inc. Acylthioacetyl cephalosporins. 3,778,436, 12-11-73, Cl. 260-243.00c.
Treuner, Uwe D.: *See*—
Breuer, Hermann; Schulze, Ernst; and Treuner, Uwe D., 3,720,674.



Breuer, Hermann; Treuner, Uwe D.; and Schulze, Ernst.
Tribken, Everett R.: *See*—

Breuer, Hermann; Treuner, Uwe D.; and Schulze, Ernst, 3,732,225.

Treuner, Uwe D., to Squibb, E. R., & Sons, Inc. Arysulfonylformamidoximes. 3,736,356, 5-29-73, Cl. 260-562.00r.

Treuner, Uwe D., to Squibb, E. R., & Sons, Inc. 3-Arylsulfonyl-1,2,4-oxadiazoles. 3,755,306, 8-28-73, Cl. 260-239.900.

Treus, Aloys: *See—*
Greive, Aloys; and Treus, Aloys, 3,742,693.

Treusch, Georg: *See—*
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Trevail, Lewis Herbert: *See—*
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Trevelyan, William E., to Distillers Company (Yeast) Limited, The. Preparation of active dry yeast. 3,780,181, 12-18-73, Cl. 426-18.000.

Trevillian, Walter W.: *See—*
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Trevisani, Silvano: *See—*
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Trevisiol, Franco: *See—*
Teagno, Wladimiro; and Trevisiol, Franco, 3,744,009.

Trevisiol, Franco; and Bergonzi, Mario, to AMP Incorporated, mesne. Rotary switch with double nosed contacts fixedly secured to stator section. 3,715,527, 2-6-73, Cl. 200-11.00k.

Trevithick, Tony, to Woodhead, Daniel, Inc. Ventilated lamp guard. 3,767,913, 10-23-73, Cl. 240-102.00r.

Trevor Peck Climbing Equipment Limited: *See—*
MacInnes, Hamish, 3,719,179.

Trevorrow, Blanche P. Portable flashlight. 3,731,084, 5-1-73, Cl. 240-6.40w.

Trevorrow, La Verne E.: *See—*
Anastasia, Louis J.; Carls, Erwin L.; Chilenskas, Albert A.; Graae, Johan E. A.; Jonke, Albert A.; Levitz, Norman M.; Steindler, Martin J.; and Trevorrow, La Verne E., 3,753,920.

Trew, Leslie J., to Kaiser Aluminum & Chemical Corporation. Purification of strontium carbonate. 3,743,691, 7-3-73, Cl. 423-165.000.

Trexler, Harold E.: *See—*
Abu-Isa, Ismat A.; and Trexler, Harold E., 3,720,643.

Treybig, James Alva; and Greene, Eugene Franklin, Jr., said Treybig assor. to Texaco Inc. High resolution reflection shooting with data mixing. 3,747,056, 7-17-73, Cl. 340-15.5mc.

Treybig, James Alva, to Texaco Inc. High resolution reflection shooting. 3,760,347, 9-18-73, Cl. 340-15.5mc.

Tri-Aid Sciences, Inc.: *See—*
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Tri-Brook, Inc.: *See—*
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Tri-Line Electric Co., Inc.: *See—*
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Tri-Ordinate Corporation: *See—*
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Tri-State Oil Tool Industries, Inc.: *See—*
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Tri-Tech, Inc.: *See—*
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Tri-Tech, Inc., mesne: *See—*
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Haydon, Arthur W.; and Dean, John J., 3,770,998.

Tri-Tron International, mesne: *See—*
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Tri-Wall Containers, Inc.: *See—*
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Triangle Mfg. Co., Inc.: *See—*
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Triangle Service Inc.: *See—*
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Trias, John A.: *See—*
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Triax Company, The: *See—*
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Atwater, Wayne G., 3,767,072.
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Tribble, Robert G.: *See—*
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Tribe, Leonard T.; and Every, Peter, to Kelsey-Hayes Company. Modulating valve for skid control system. 3,752,538, 8-14-73, Cl. 303-21.00f.

Tribes, Rene, to CSF-Compagnie Generale de Telegraphie Sans Fil. Method of manufacturing a field effect transistor. 3,772,098, 11-13-73, Cl. 148-189.000.

Tribit, Samuel: *See—*
Nozik, Arthur Jack; Tribit, Samuel; and Williams, Ferd E., 3,725,099.

Tribken, Everett R.: *See—*
Davis, Lawrence P.; Harrison, John E.; and Tribken, Everett R., 3,762,226.

Trible, Graydon E. Self-leveling steps. 3,709,323, 1-9-73, Cl. 182-115.000.

Tribley, Gilbert: *See—*
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Triboro Electric Corporation: *See—*
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Tribuno, Robert F.; Foster, Thomas E.; Mineck, David W.; and Hattendorf, Edwin R., to Collins Radio Company. Turn coordination control with dead space and limited washout. 3,777,242, 12-4-73, Cl. 318-586.000.

Trice, Gladys. Method of making a reversible garment. 3,710,394, 1-16-73, Cl. 2-74.000.

Tricini, John D.; and Schmitt, Edward L., to Kerotest Manufacturing Corporation. Gate valve. 3,734,458, 5-22-73, Cl. 251-267.000.

Trickel, Ralph J.: *See—*
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Trico Leasing: *See—*
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Trico Products Corporation: *See—*
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Deibel, Raymond A.; and Riester, William C., 3,745,853.
Papadatos, Dionysios D.; Deibel, Raymond A.; and Riester, William C., 3,733,915.
Riester, William C., 3,716,888.

Tricoles, Gus P., to General Dynamics Corporation. Holographic system forming images in real time by use of non-coherent visible light reconstruction. 3,757,332, 9-4-73, Cl. 343-17.000.

Tricoles, Gus P.; and Rope, Eugene L., to General Dynamics Corporation. Radio frequency transmitting apparatus having slotted metallic radio frequency windows. 3,761,937, 9-25-73, Cl. 343-770.000.

Tricoli, Antonio; Battarra, Alberto; Rebua, Giovanni; and Bestetti, Luigi, to Montecatini Edison S.p.A. Electrolytic cell for the production of fluorine. 3,773,644, 11-20-73, Cl. 204-252.000.

Tricot, Jean Gaston. Cigarette gas lighter. 3,734,349, 5-22-73, Cl. 222-3.000.

Tricot, Marc: *See—*
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Tricot, Roland: *See—*
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Gueussier, Andre; Tricot, Roland; and Lacoude, Michel, 3,730,501.

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Tridan Tool & Machine, Inc.: *See—*
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Ames, Ward A., 3,780,561.

Trident Engineering Associates, Inc.: *See—*
Jasperson, Robert E.; and Kapland, Mitchell Arthur, 3,724,079.

Trident Engineering Co.: *See—*
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Tridon Limited: *See—*
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Tridyne Corporation: *See—*
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Triebel, Wolfgang: *See—*
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Triebel, Wolfgang; and Durr, Manfred, to Polysius AG, mesne. Rotary kiln with a plurality of cooling pipes. 3,775,042, 11-27-73, Cl. 432-80.000.

Trief, Leon-Jules. Process for utilizing coal residues. 3,759,730, 9-18-73, Cl. 106-103.000.

Triem, Leonard C. Enclosure for landfill disposal site. 3,708,153, 1-2-73, Cl. 256-25.000.

Trienco, Inc.: *See—*
Hammond, James C.; Jamerson, Charles D., Jr.; and Kiefer, Michael E., 3,761,382.
Kiefer, Michael Edward, 3,777,366.

Trier, James J.; and Enz, John H. F., to Wood Industries, Inc. Magnetic support for flexible printing plate. 3,734,017, 5-22-73, Cl. 101-378.000.

Trieschmann, Hans-Georg; Zizlsperger, Johann; Gropper, Hans; Stark, Kurt; and Fauth, Karl Heinz. Manufacture of modified ethylene polymers. 3,726,842, 4-10-73, Cl. 260-80.760.

Trieschmann, Hans-Georg; Urban, Friedrich; Schweier, Guenther; and Kohnle, Josef, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Catalyst system for the polymerization of olefins. 3,773,688, 11-20-73, Cl. 252-429.00c.

Trifonov, Alexei Grigorievich: *See—*
Freidenberg, Anatoly Samuilovich; Basias, Igor Pavlovich; Shakhlin, Vladimir Ilich; Trifonov, Alexei Grigorievich; Shu-





nin, Timofei Grigorievich; Filatov, Andrei Dmitrievich; Privalov, Mikhail Moiseevich; and Ovchinnikov, Gennady Elizarovich, 3,741,083.

Trigg, Jack Victor Haig, to International Engineering Concessionaires Limited. Tensile member with tension indicator. 3,776,031, 12-4-73, Cl. 73-95.000.

Triggiani, Leonard V.; Haberman, Norton; and Sanchez, Moises G., to Grace, W. R., & Co. Nuclear fuel. 3,708,432, 1-2-73, Cl. 252-301.10s.

Triggiani, Leonard Vincent: *See—*
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Triggiani, Leonard Vincent; and Stone, Irving Charles, to Grace, W. R., & Co. Process for preparing impregnated urania and uranium bearing microspheres. 3,714,061, 1-30-73, Cl. 252-301.10s.

Triggs, Leonard Edward, to Combustion Engineering, Inc. Atomizing burner nozzle tip. 3,739,990, 6-19-73, Cl. 239-425.000.

Trihey, John Massey, to Johns-Manville Corporation. Helically wound tubing. 3,753,363, 8-21-73, Cl. 72-50.000.

Trihey, John Massey, to Johns-Manville Corporation. Helically wound tubing. 3,753,367, 8-21-73, Cl. 72-49.000.

Trikilis, Emmanuel M. Keyless rod locking device. 3,710,605, 1-16-73, Cl. 70-196.000.

Trikilis, Emmanuel M. Magnetic material and method of producing same. 3,781,661, 12-25-73, Cl. 324-34.000.

Triller, Adolf; and Siersch, Wolfgang, to Sick, Erwin. Optical device for forming measuring and reference beams of light. 3,726,596, 4-10-73, Cl. 356-213.000.

Trillich, Charles H., to Brunswick Corporation. Oil-water separator. 3,738,492, 6-12-73, Cl. 210-196.000.

Trilling, Ted R. Foldback current limiter. 3,753,079, 8-14-73, Cl. 323-4.000.

Trilux-Lenze KG: *See—*
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Trimbach, Honore: *See—*
Quanquin, Bernard; Trimbach, Honore; and Pierre, Dumont, 3,776,713.

Trimble, Carroll O., 50% to Cypert, James D. Form for manholes and the like. 3,729,165, 4-24-73, Cl. 249-144.000.

Trimble, David C.: *See—*
Curtis, William R.; and Trimble, David C., 3,766,580.

Trimble, David Carlaw: *See—*
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Trimble, David Carlaw, to Bell Telephone Laboratories, Incorporated. Center clipper. 3,716,726, 2-13-73, Cl. 307-237.000.

Trimble House Corporation: *See—*
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Trimble, J. B.: *See—*
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Trimble, Jerry R.: *See—*
Swick, George W., Jr.; Priest, Robert A.; and Trimble, Jerry R., 3,746,358.

Trimble, Melvin Earl, to Public Systems, Inc. Mobile radio extension interface for converting conventional transmit/receive for a repeater. 3,745,462, 7-10-73, Cl. 325-22.000.

Trimble, Roger B.: *See—*
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Trimex Corporation: *See—*
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Trimmer, Donald S.: *See—*
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Trimmer, Donald Smith: *See—*
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Trimmer, Robert Henry: *See—*
Gangwisch, William J.; Trimmer, Robert Henry; and Gross, William Franklin, Jr., 3,748,093.
Wixon, Harold Eugene; and Trimmer, Robert Henry, 3,762,859.

Trimmer, Robert Henry; Gross, William Franklin, Jr.; and Gangwisch, William J., to Colgate-Palmolive Company. Laundry product containing mixed dye bluing agents. 3,755,201, 8-28-73, Cl. 252-526.000.

Trimpi, Robert L.; Nealy, John E.; and Grose, William L., to United States of America, National Aeronautics and Space Administration. Combustion detector. 3,708,674, 1-2-73, Cl. 250-217.00f.

Trimpler, Walter, to DIEHL. Synchronous alarm clock. 3,715,883, 2-13-73, Cl. 58-21.150.

Trine, Joseph: *See—*
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Trine, Joseph, to Elphiac. Frequency multiplying device for induction heating applications. 3,777,100, 12-4-73, Cl. 219-10.750.

Triner, Irvin Richard: *See—*
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Occhipinti, Carl; and Triner, Irvin Richard, 3,778,753.

Tringali, Dominick: *See—*
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Trionics, Inc.: *See—*
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Schumann, Joseph M.; Stayboldt, Paul J.; and Corbin, John Alphonso S., 3,726,276.

Triple A Trouser Manufacturing Co., Inc.: *See—*
Alperin, Joel M.; and Murphy, James P., 3,742,899.

Triple "F", Inc.: *See—*
Fox, Wayne F., 3,765,319.

Triplett, Benny L.: *See—*
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Triplett, Benny L., to Burlington Industries, Inc. Flocked spunlaced blanket. 3,772,131, 11-13-73, Cl. 161-64.000.

Triplett Corporation: *See—*
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Triplett, Frank Lewis. Spray applicator. 3,776,226, 12-4-73, Cl. 128-172.000.

Triplett, Gerald H.; and Dowds, Thomas A., to Burroughs Corporation. Molded pallet. 3,772,573, 11-13-73, Cl. 317-101.00r.

Triplett, Lee; and Peterson, Wilmer R., to Expando Products Company. Fastener tool. 3,779,105, 12-18-73, Cl. 81-121.00r.

Triplett, Lloyd M. Grain treating apparatuses and processes of operation thereof. 3,741,717, 6-26-73, Cl. 432-105.000.

Triplex Safety Glass Company Limited: *See—*
King, Robert David, 3,720,541.
Melling, Richard; and Pickard John, 3,776,709.
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Triplite Limited: *See—*
Cooke, Albert Edward, 3,722,231.

Tripodi, Joseph R.: *See—*
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Tripp, Robert W., to Inductosyn Corporation. Machine tool contour control system. 3,725,654, 4-3-73, Cl. 235-151.110.

Tripp, Robert W., to Inductosyn Corporation. Scale of two improved digital and analog converter. 3,742,487, 6-26-73, Cl. 340-347.0da.

Tripp, Robert W., to Inductosyn Corporation. Trigonometric signal generator and machine control. 3,745,560, 7-10-73, Cl. 340-347.0da.

Tripp, Robert W., to Inductosyn Corporation. Transducer drive apparatus and method. 3,757,321, 9-4-73, Cl. 340-347.0ad.

Tripp, Terence Gordon, to Monsanto Chemicals Limited. Production of alkyl silicates. 3,709,801, 1-9-73, Cl. 204-59.000.

Tripp, Terence Gordon, to Monsanto Chemicals Limited. Production of alkoxides. 3,730,857, 5-1-73, Cl. 204-59.00r.

Tripp, Virgil P., to Interstate Sports Incorporated. Flexible control lever for mechanical devices. 3,733,922, 5-22-73, Cl. 74-523.000.

Trippensee Corporation: *See—*
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Trischuk, Ronald W., to Norton Company. Aluminum oxide pressure blasting abrasives and method of making. 3,763,603, 10-9-73, Cl. 51-319.000.

Triska, Alfred A., to Great Lakes Carbon Corporation. Formed carbon fuel briquets. 3,762,886, 10-2-73, Cl. 44-10.00e.

Triskelion Corporation: *See—*
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Trites, Robert T., to Emery Industries, Inc. Process for lubricating metal working operations. 3,755,174, 8-28-73, Cl. 252-56.00r.

Tritschler, Claus: *See—*
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Triumph Werke Nuernberg, A.G.: *See—*
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Trix, Herbert Phelps: *See—*
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Trixco Inc., mesne: *See—*
Muir, Eric Thomas; Hamnett, Jack Smith; and Majury, Ronald Alfred, 3,760,657.

Trnka, Otto A. Nozzle with replaceable parts. 3,756,516, 9-4-73, Cl. 239-539.000.

Troberg, Bengt Erik Mikael; and Claesson, Carl Olof, to Alfa-Laval AB. Milking machine. 3,754,532, 8-28-73, Cl. 119-14.080.

Trocciola, John C.: *See—*





Werner, Lawrence H.; and Trocciola, John C., 3,765,946.

Trocciola, John C.; Luoma, Warren L.; Nickols, Richard C., Jr.; and

Trombatore, Adelene L.: *See—*
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Werner, Lawrence H.; and Trocciola, John C., 3,765,946.

Trocciola, John C.; Luoma, Warren L.; Nickols, Richard C., Jr.; and Emanuelson, Roger C., to United Aircraft Corporation. Process for preparing molded structure from polyphenylene sulfide resin and filler. 3,716,609, 2-13-73, Cl. 264-111.000.

Trochet, Pierre. Apparatus for shaping a grinding wheel. 3,752,143, 8-14-73, Cl. 125-11.00a.

Trocino, Frank S., to Bohemia Lumber Company, Incorporated. Method of separating bark components. 3,781,187, 12-25-73, Cl. 162-93.000.

Trocme, Claude M., to Eaton Yale & Towne, Inc. Anti-skid brake control and actuator assembly. 3,730,053, 5-1-73, Cl. 91-469.000.

Trodyne Corporation: *See—*
Keledy, Francis C.; and Notvest, Kenneth R., 3,713,127.
Keledy, Francis C., 3,739,376.

Troeger, Richard P.: *See—*
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Troemel, Gerhard: *See—*
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Troester, Richard H.: *See—*
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Troffkin, Howard Julian; and Wystrach, Vernon Paul, to United States of America, Army, mesne. Flammable composition comprising a gelled hydrocarbon. 3,718,445, 2-27-73, Cl. 44-7.00c.

Trofimenko, Swiatoslaw; and Vaughan, Lawrence G., to Du Pont de Nemours, E. I., and Company. Presious metal decorating compositions containing bis-chelate derivatives of palladium. 3,718,488, 2-27-73, Cl. 106-1.000.

Trofimenko, Swiatoslaw, to Du Pont de Nemours, E. I., and Company. Bis(dialkylaminomethyl)-phenylenedipalladium(11) compounds. 3,770,785, 11-6-73, Cl. 260-429.00r.

Trofimov, Igor Dmitrievich; Korobeinikov, Jury Mikhailovich; Pavlov, Vadim Alexandro; and Shevyakov, Lev Nikolaevich; deceased (by Shevyakova, Vera Stepanovna; Tiskovich, Natalya Lvovna; and Shevyakova, Klavdia Andreevna; administrators). Device to form chin links of various shapes from round wire. 3,759,034, 9-18-73, Cl. 59-27.000.

Trofimov, Valery Leonidovich: *See—*
Amosov, Pavel Evgenievich; Imyanitov, Leonid Mikhailovich; Smekhov, Vitaly Konstantinovich; Trofimov, Valery Leonidovich; Shvarts, Avely Isaich; and Shnepp, Vladimir Borisovich, 3,738,783.

Trofinow, Alex; and Mader, Norbert K., to Grace, W. R., & Co. Method for preparing vinyidene chloride copolymer latex coating compositions. 3,753,940, 8-21-73, Cl. 260-29.6rw.

Trogan, John F.; and Beebe, James H., to Bretting, C. G., Manufacturing Co., Inc. Cut-off device. 3,709,077, 1-9-73, Cl. 83-152.000.

Trogel, Gerhard: *See—*
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Troglione, Vincent R.: *See—*
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Troglione, Vincent R., to Moody Aquamatic Systems, Inc. Batch ozonators for drinking water. 3,726,404, 4-10-73, Cl. 210-139.000.

Trognee, Jacques: *See—*
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Trohler, Paul: *See—*
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Troing, Ola Peter. Device for composing text portions on a blank sheet in accordance with a lay-out. 3,713,525, 1-30-73, Cl. 197-181.200.

Troisi, George A.: *See—*
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Trokin, Jury Alexandrovich: *See—*
Afanasiev, Vadim Nikolaevich; Belyaev, Jury Pavlovich; Gaiduchik, Vladimir Olegovich; Gruzin, Pavel Lukich; Konkin, Nikolai Alexandrovich; Megarsky, Valery Vasilievich; Okunev, Boris Nikolaevich; and Trokin, Jury Alexandrovich, 3,718,817.

Trola-Kunststofferzeugnisse Gesellschaft mit beschrankter Haftung & Co.: *See—*
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Troland, Edwin P., to Bird Machine Company, Inc. Vortex-type slurry separator. 3,754,655, 8-28-73, Cl. 210-209.000.

Trolinger, James D.: *See—*
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Troll, William C.; and Fowler, Richard L., to Bendix Corporation, The. Optical range and range-rate sensor. 3,752,582, 8-14-73, Cl. 356-5.000.

Trolliet, Bernard: *See—*
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Trombatore, Adelene L.: *See—*
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Trombly, Michael E.; and Cowen, Samuel H., to Chemed Corporation. Reinforced examination gown. 3,751,729, 8-14-73, Cl. 2-114.000.

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Tromel, Richard H.: *See—*
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Tromp, Hendrik Henricus Maria, to U.S. Philips Corporation. Storage configuration comprising shift registers. 3,771,140, 11-6-73, Cl. 340-172.500.

Tromp, Henricus: *See—*
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Trompeter Electronics Inc.: *See—*
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Trompeter, Emanuel, to Trompeter Electronics Inc. Electrical connector. 3,708,781, 1-2-73, Cl. 339-177.00r.

Troncy, Robert: *See—*
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Tronich, Wolfgang: *See—*
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Trop, Lawrence B. Light machine. 3,760,176, 9-18-73, Cl. 240-10.100.

Tropeano, Joseph C.; and Tropeano, Philip L. Method and apparatus for snow making. 3,761,020, 9-25-73, Cl. 239-2.00s.

Tropeano, Philip L.: *See—*
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Tropel, Inc.: *See—*
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Troponwerke Dinklage & Co.: *See—*
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Troscinski, Edwin S.; and Stanford, James R., to Nalco Chemical Company. Secondary recovery of petroleum. 3,724,551, 4-3-73, Cl. 166-295.000.

Troselius, Lars Johan Bertil; Sparre, Claes Ulf Casimir; and Kiessling, Roland Richard, to Sandvik Aktiebolag. Stainless steel. 3,764,302, 10-9-73, Cl. 75-125.000.

Trossinger Metallstimmenfabrik Hans Eisen: *See—*
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Trost, George P., to Texas Instruments, Incorporated. Solder clad metal. 3,720,503, 3-13-73, Cl. 29-191.600.

Trost, George P. Method for making partially-solder-clad metal. 3,754,318, 8-28-73, Cl. 29-460.000.

Trost, Werner, to Demag Aktiengesellschaft. Lift truck for hot vessels, particularly for steel-mill converters. 3,718,265, 2-27-73, Cl. 214-1.00d.

Troster, Helmut: *See—*
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Trostle, John W.; and Martin, Norman L., to Aluminum Company of America. Gutter hanger assembly. 3,752,428, 8-14-73, Cl. 248-48.200.

Trostle, Maurice E., to Texas Instruments, Incorporated. Three dimensional common depth point exploration. 3,753,222, 8-14-73, Cl. 340-15.5hr.

Troth, John S., to Pamark Inc. Plastic container. 3,727,825, 4-17-73, Cl. 229-32.000.

Troth, John S., to Pamark, Inc. Combination folded container. 3,746,242, 7-17-73, Cl. 229-23.00r.

Trotman, Herbert H. Underbody ventilating structure. 3,722,955, 3-27-73, Cl. 297-453.000.

Trott, Gene F.; and Starita, Joseph M., to General Electric Company. Surface treatment polymer structures. 3,721,580, 3-20-73, Cl. 117-118.000.

Trott, Gene F.; and Smith, William E., to General Electric Company. Method for making rigid foam and compositions using such method. 3,781,235, 12-25-73, Cl. 260-2.5be.

Trott, Raymond H. Cart top X-ray cassette holder. 3,774,045, 11-20-73, Cl. 250-444.000.

Trott, Winfield James. Hydrophone. 3,713,086, 1-23-73, Cl. 340-10.000.

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Troughton, Thomas D., to Rheem Manufacturing Company. Method of making food containers. 3,716,906, 2-20-73, Cl. 29-460.000.

Troughton, Thomas D., to Rheem Manufacturing Company. Apparatus for making food containers. 3,733,670, 5-22-73, Cl. 29-200.00a.

Troughton, Thomas D.; and McKee, Leonard B., to Rheem Manufacturing Company. Container lining method. 3,745,035, 7-10-73, Cl. 117-18.000.

Trouilhet, Achille: *See—*
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Trouilhet, Maurice Marie Achille, to Calor. Steam-generating water-spraying flat iron. 3,733,725, 5-22-73, Cl. 38-77.500.

Trouilhet, Maurice Marie Achille, to Calor. Cushioning and covering means for portable electrical devices. 3,753,846, 8-21-73, Cl. 161-111.000.

Trouilhet, Maurice Marie Achille, to Calor. Single-phase motor with auxiliary coils selectively short-circuited by a solid state switch element. 3,760,247, 9-18-73, Cl. 318-223.000.

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Trout, Robert G.; and Stalego, Charles J., to Owens-Corning Fiberglas Corporation. Method of producing glass fibers. 3,725,021, 4-3-73, Cl. 65-3.000.

Troutman, Glenn R. Trimming apparatus. 3,711,946, 1-23-73, Cl. 30-388.000.

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Troutner, Arthur L., to Trus Joist Corporation. Continuous press for pressing glue-coated consolidatable, press charges. 3,723,230, 3-27-73, Cl. 156-580.000.

Trowbridge, Bruce D.; and Ness, Klaus J., to General Motors Corporation. Biocular magnifier. 3,764,194, 10-9-73, Cl. 350-96.00b.

Trowbridge, Charles A., to Sim-Kar Lighting Fixtures Co. Lighting fixture having fold-out lamp sockets. 3,770,952, 11-6-73, Cl. 240-51.11r.

Trowbridge, Clifford F., to United States of America, Navy. Salvage system. 3,765,355, 10-16-73, Cl. 114-51.000.

Trowbridge, Donald R.; and Jenkins, Kenneth R., to Olin Corporation. Inflating device for use with vehicle safety systems. 3,773,353, 11-20-73, Cl. 280-150.0ab.

Trowbridge, John C., to United Aircraft Corporation. Termination fluids for solid stop-start propellant rocket motors. 3,742,710, 7-3-73, Cl. 60-220.000.

Trowern, Howard M., Jr.: *See—*
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Troy, Amedee Roy; and Geyman, James M. Dry lubricated materials, members and systems with boron nitride and graphite. 3,747,944, 7-24-73, Cl. 277-96.000.

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Troy, Elbert C., to National Engineering Company. Multi-mull phase control system. 3,768,786, 10-30-73, Cl. 259-179.000.

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Troy, John P.: *See—*
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Troy, Stephen R. Audio frequency sweep generator. 3,754,185, 8-21-73, Cl. 324-57.00r.

Troy, Walter C.: *See—*
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Troy, William A., to Swift & Company. All-corn alimentary pastes foodstuff. 3,780,186, 12-18-73, Cl. 426-93.000.

Trozzi, Norman K., to Foster Wheeler Corporation. Apparatus for determining air flow to a gas burner. 3,765,824, 10-16-73, Cl. 431-188.000.

Tru-Fit Products Corporation: *See—*
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Tru-Lok Metal Fabricating Company, Inc.: *See—*
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Trub, Hannes. Tubular-shaped ozonizer possessing cooled inner electrode. 3,730,874, 5-1-73, Cl. 204-321.000.

Trub, Jean: *See—*
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Trubamn, Abraham, to United States of America, Navy. Anti-leakage system for boiler safety valves. 3,776,251, 12-4-73, Cl. 137-71.000.

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Trubert, Denis; and Trubert, Michel. Mixing faucet. 3,765,604, 10-16-73, Cl. 236-12.00r.

Trubert, Georges; and Droulin, Jean Louis, to La Telemecanique Electrique. Electrical device for measuring and controlling the temperature at a large number of points. 3,718,924, 2-27-73, Cl. 340-417.000.

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Truck-Lite Co., Inc.: *See—*
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Trudeau, Aime. Gravity-actuated self-propelling wheel construction. 3,713,706, 1-30-73, Cl. 305-7.000.

Trudeau, Aime. Lamp with combination lamp shade and illuminating mirror. 3,714,409, 1-30-73, Cl. 240-4.200.

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Trudel, Murray Lawrence: *See—*
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True, Cecil Wayne. Apparatus for removing fluids from fluid supply pipes. 3,721,259, 3-20-73, Cl. 137-270.000.

True Form Foundation, Inc.: *See—*
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True Tech Equipment, Limited: *See—*
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Trueb, Viktor; and Hesener, Walter. Adhesive tape dispensers. 3,709,761, 1-9-73, Cl. 156-576.000.

Trueb, Werner, to Sandoz Ltd.; a/k/a Sandoz AG. Benzaldoxime-(5-triazinyl)-ethers. 3,775,406, 11-27-73, Cl. 260-240.00g.

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Tsen, Cho C.; and Hoover, William J., to Kansas State University Research Foundation. Method of increasing protein content of wheat flour based baked and fried products and compositions for preparing same. 3,780,188, 12-18-73, Cl. 426-152.000.

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Tsuchiya, Hiroshi; Mukai, Kunio; Kimura, Akio; Fujimoto, Keimei; Ozaki, Toshiaki; Yamamoto, Sigeo; Okuno, Yositosi; Ogawa, Taizo; Wakatsuki, Toshiyuki; and Nishizawa, Yoshihiko, to Sumitomo Chemical Company, Ltd. Certain phosphorodithiolates as insecticide and fungicides. 3,725,546, 4-3-73, Cl. 424-225.000.

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Tsuchiya, Shozo. Wheels for rolling stock. 3,716,093, 2-13-73, Cl. 152-330.000.

Tsuchiya, Shozo, to Nippon Oil Company, Limited. Process for the preparation of novel high chlorinated butyl rubber and vulcanizable compositions containing the same. 3,779,979, 12-18-73, Cl. 260-33.60a.

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Tsuda, Okihiko, to Ikegai Tekko Kabushiki Kaisha. Apparatus for heat sealing the overlapped ends of a thermoplastic band. 3,767,512, 10-23-73, Cl. 156-502.000.

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Tsuda, Yasuhisa, to Nissan Motor Company, Limited. Sealing arrangement for vehicle body construction. 3,778,101, 12-11-73, Cl. 296-154.000.

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Tsuda, Yukio; Matsumoto, Shigeo; and Tsuyuki, Tadaharu, to Sony Corporation. Integrated circuit device having monolithic RF shields. 3,754,170, 8-21-73, Cl. 317-235.00r.

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Tsui, Frank, to International Business Machines Corporation. Method of and arrangement for the distribution of timing pulses in an electronic data processor. 3,774,157, 11-20-73, Cl. 340-172.500.

Tsuji, Akira, to Fuji Photo Film Co., Ltd. Envelope for photosensitive material. 3,730,334, 5-1-73, Cl. 206-1.00r.

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Tsujimoto, Kayoshi, to Minolta Camera Kabushiki Kaisha. Camera connected with electronic flash device. 3,760,699, 9-25-73, Cl. 95-10.00c.

Tsujimoto, Kayushi; Kuramoto, Yoshio; and Kobori, Toshio, to Minolta Camera Kabushiki Kaisha. Motor driven still camera. 3,754,455, 8-28-73, Cl. 95-31.0el.

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Tsukamoto, Masahide; and Ohtsuka, Tetsuro, to Matsushita Electric Industrial Co., Ltd. Liquid crystal display device. 3,776,615, 12-4-73, Cl. 350-160.0lc.

Tsukamoto, Masahide; and Ohtsuka, Tetsuro, to Matsushita Electric Industrial Co., Ltd. Method for changing the transparency of a liquid crystal cell. 3,781,088, 12-25-73, Cl. 350-160.01c.



Tsukamoto, Masao; and Munehiro, Tomiji, to Matsushita Electric Industrial Co., Ltd. Electronic musical instrument employing a sam-

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Tsuneta, Asahide; Ohta, Yasuo; and Ikegaki, Makoto, to Tokyo Shibaura Electric Co., Ltd. Rectangular color tube with funnel section changing from rectangular to circular. 3,731,129, 5-1-73, Cl. 313-64.000.

Tsuneta, Asahide; and Ikegaki, Makoto, to Tokyo Shibaura Electric Co., Ltd. Method of preparing the screen of a colour television picture tube and device performing the method. 3,736,848, 6-5-73, Cl. 95-1.00r.

Tsuneta, Asahide; and Sawagata, Shinichi, to Tokyo Shibaura Electric Co., Ltd. Shadow mask frame construction. 3,737,703, 6-5-73, Cl. 313-85.00s.

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Tsuruishi, Yuki, to Kabushiki Kaisha Suwa Seikosha. Electric timepiece. 3,744,233, 7-10-73, Cl. 58-23.0tf.

Tsuruishi, Yuki, to Kabushiki Kaisha Suwa Seikosha. Electronic timepiece having alarm means. 3,745,761, 7-17-73, Cl. 58-38.000.

Tsuruishi, Yuki, to Kabushiki Kaisha Suwa Seikosha. Tuning fork construction for electronic wrist watches. 3,751,899, 8-14-73, Cl. 58-23.0tf.

Tsuruishi, Yuki, to Kabushiki Kaisha Suwa Seikosha. Electronic watch. 3,759,028, 9-18-73, Cl. 58-28.00a.

Tsuruishi, Yuki, to Kabushiki Kaisha Suwa Seikosha. Electronic wrist watch with alarm. 3,760,583, 9-25-73, Cl. 58-57.500.

Tsuruishi, Yuki, to Kabushiki Kaisha Suwa Seikosha. Watch having tuning fork time standard. 3,780,520, 12-25-73, Cl. 58-23.0tf.

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Tsuruoka, Takashi; Fukatsu, Shunzo; Nomiya, Bunzo; Inoue, Shigeharu; and Niida, Taro, to Meiji Seika Kaisha, Ltd. Process for preparing allylic rearrangement compounds of antibiotics SF-837 and SF-837 A2. 3,767,641, 10-23-73, Cl. 260-210.0ab.

Tsurushima, Masaaki; and Yatani, Kozo, to Takeda Chemical Industries, Ltd. Method for the production of 1,1,3-trialkoxy-2-cyanopropanes. 3,736,346, 5-29-73, Cl. 260-465.600.

Tsuruta, Hisao; and Kiyose, Norihiko, to Yanagimoto Seisakusho Co., Ltd. Photoelectric photometer. 3,770,354, 11-6-73, Cl. 356-178.000.

Tsuruta, Tadao, to Nippon Kogaku K.K. Holographic interferometry for rotating objects. 3,709,605, 1-9-73, Cl. 356-109.000.

Tsuruta, Yasuo. Method and device for detecting relative speed by using supersonic wave. 3,716,822, 2-13-73, Cl. 340-1.00r.

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Tsutsumi, Takashi, to Matsushita Electric Industrial Co., Ltd. Apparatus for ensuring DC power supply from either AC or rechargeable DC source. 3,766,403, 10-16-73, Cl. 307-66.000.

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Tuan, Pao-Hwa. Three-dimensional tick-tack-toe. 3,747,931, 7-24-73, Cl. 273-130.00a.

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Tuba, Zoltan; Bor, Maria, nee Szabo; Molnar, Karoly; and Gorog, Sandor, to Richter Gedeon Vegyeszeti Gyar R. T. Process for the acylation of 17β-hydroxysteroides containing an enolizable oxo-group. 3,761,496, 9-25-73, Cl. 260-397.400.

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Tubbs, Howard A. Well system seal. 3,716,102, 2-13-73, Cl. 166-88.000.

Tubbs, Howard A. Well system with improved pitless adapter assembly. 3,721,296, 3-20-73, Cl. 166-88.000.

Tubbs, Robert K., to Du Pont de Nemours, E. I., and Company. Irradiation of ethylene/vinyl acetate copolymers. 3,734,843, 5-22-73, Cl. 204-159.140.

Tubis, Manuel: *See—*
Halpern, Samuel E.; Tubis, Manuel; and Endow, John S., 3,749,913.

Tubmatic Inter AG: *See—*
Magerle, Karl, 3,751,189.

Tuboi, Takashi: *See—*
Kariya, Shizuo; Narita, Hiroshi; Tuboi, Takashi; and Takahashi, Tetsuya, 3,714,467.

Tubuko, Kazuo; Kurotori, Tuneo; and Tashiro, Isao, to Ricoh Co., Ltd. Merocyanine dyes for sensitizing zinc oxide photoconductors. 3,772,281, 11-13-73, Cl. 260-240.100.

Tucci, Edmond R.: *See—*
Deffner, John F.; Tucci, Edmond R.; Thayer, Helen I.; and Ward, John V., 3,725,483.
Deffner, John F.; Tucci, Edmond R.; and Ward, John V., 3,733,361.

Tucci, Raymond J.: *See—*
Mlkvy, William P.; and Tucci, Raymond J., 3,772,431.

Tuccillo, Joseph J.; and Nielsen, John P., to Pennwalt Corporation. Tarnish resistant alloy. 3,767,391, 10-23-73, Cl. 75-134.00c.

Tuccio, Sam A.: *See—*
Reynolds, George A.; Tuccio, Sam A.; Peterson, Otis G.; and Specht, Donald P., 3,753,146.

Tucek, Frank J., to Drott Manufacturing Corporation. Tree cutting apparatus. 3,727,653, 4-17-73, Cl. 144-34.00e.

Tucel Industries, Inc.: *See—*
Lewis, John C., Jr., 3,774,782.

Tuchenhagen, Otto A. P.: *See—*
Stahlkopf, Friedrich R. R., 3,779,384.

Tuchiya, Kiyoshi, to Nippon Electric Company, Limited. Operational circuit. 3,735,149, 5-22-73, Cl. 307-230.000.

Tuck, George; Price, Everett R.; and Oakley, John E., to Teledyne, Inc. Multi-channel electrical connector. 3,753,048, 8-14-73, Cl. 317-101.000.

Tuck, Michael John: *See—*
Taylor, Hylton; and Tuck, Michael John, 3,717,399.

Tucker, Alfred J., Jr., to Chicago Rawhide Manufacturing Company. Radial shaft seal with positively retained garter spring. 3,746,351, 7-17-73, Cl. 277-152.000.

Tucker, Andrew J., to Dresser Industries, Inc. Resilient slip suspension means for hydraulic packer. 3,735,814, 5-29-73, Cl. 166-217.000.

Tucker, Archie J.: *See—*
Edwards, Evan A.; Sutliff, Robert C.; and Tucker, Archie J., 3,768,747.
Miller, Stephen H.; and Tucker, Archie J., 3,771,864.

Tucker, Archie J., to Eastman Kodak Company. Anti-backup mechanism for a film cartridge take-up spool. 3,726,491, 4-10-73, Cl. 242-194.000.

Tucker Associates, Inc.: *See—*
Tucker, Hartwell F., 3,768,383.

Tucker, Atlee Dee, Jr.; and David, Milton C. Traction system having interfitting tongue and notch traction panels. 3,734,088, 5-22-73, Cl. 128-75.000.

Tucker, Benjamin W.: *See—*
Sayigh, Adnan A. R.; Tucker, Benjamin W.; and Ulrich, Henri, 3,708,439.

Tucker, Carl: *See—*
Lee, Gary; and Tucker, Carl, 3,734,057.

Tucker, Cathern A. Reinforced trouser pocket. 3,723,994, 4-3-73, Cl. 2-248.000.

Tucker, Council A.; Perkins, George; and Langworthy, James H., to American Telecommunications Corporation. Ornamental telephone construction. 3,745,267, 7-10-73, Cl. 179-179.000.

Tucker, Council A., to American Telecommunications Corporation. Telephone actuating mechanism. 3,773,985, 11-20-73, Cl. 179-164.000.

Tucker, Don C., to ABC Dispersion Chemical Co. Phonograph record additive. 3,770,667, 11-6-73, Cl. 260-22.0cb.

Tucker, Donald R.: *See—*
Tibbetts, Alan R.; and Tucker, Donald R., 3,735,465.

Tucker, Gerald L.: *See—*
Cook, Toby M.; and Tucker, Gerald L., 3,758,277.

Tucker, Harold A.: *See—*
De Marco, Robert D.; and Tucker, Harold A., 3,763,119.

Tucker, Hartwell F., to Tucker Associates, Inc. Directional marker device for automobile roadbeds. 3,768,383, 10-30-73, Cl. 116-63.00r.

Tucker, Henry G.: *See—*
Black, Richard I.; Hartman, Robert E.; and Tucker, Henry G., 3,771,508.

Tucker, Herbert D., to General Motors Corporation. Molding retainer. 3,738,074, 6-12-73, Cl. 52-718.000.

Tucker, Jacob S. Steam vessel food warmer. 3,732,396, 5-8-73, Cl. 219-401.000.

Tucker, James Henry, to National Research Development Corporation. Apparatus for detecting irregularities in the light transmission properties of materials. 3,715,601, 2-6-73, Cl. 250-222.00r.

Tucker, James I., Jr.; Bales, Joseph H.; Bosley, Denis V.; Prodger, Brian S.; Ruppel, Kurt; and Summerfield, William F., to Mattel, Inc. Delayed starting indicator apparatus and toy starting system. 3,707,802, 1-2-73, Cl. 46-1.00k.

Tucker, John R.; and Williams, Raymond R., to Lockheed Aircraft Corporation. Apparatus for producing optical patterns. 3,710,696, 1-16-73, Cl. 95-1.100.

Tucker, Joseph A. Personal portfolio computer. 3,711,014, 1-16-73, Cl. 235-70.00r.

Tucker, Robert L., to Seismograph Service Corporation. Borehole logging system with improved display and recording apparatus. 3,781,783, 12-25-73, Cl. 340-18.0dc.

Tucker, Ross N.; and Barry, Michael L., to Fairchild Camera and Instrument Corporation. Single crystal-polycrystalline process for electrical isolation in integrated circuits. 3,736,193, 5-29-73, Cl. 148-175.000.

Tucker, Stephen B.: *See*—
Uehling, Donald E.; and Tucker, Stephen B., 3,719,324.

Tucker, Stephen B., to General Electric Company. Vortex valve fuel distribution system for gas turbine engines. 3,750,396, 8-7-73, Cl. 60-39.74r.

Tucker, Thomas M., to McCord Corporation. Linear actuator assembly. 3,710,632, 1-16-73, Cl. 74-89.150.

Tucker, Thomas M.; and Clemett, Edwin F., Jr., to McCord Corporation. Snap action switch assembly. 3,723,683, 3-27-73, Cl. 200-78.000.

Tuckett, William F.: *See*—
Alleman, Carl E.; and Tuckett, William F., 3,736,725.

Tuckey, Charles H., to Walbro Corporation. Vapor-free carburetor. 3,738,622, 6-12-73, Cl. 261-3.00s.

Tuckey, Charles H., to Walbro Corporation. Diaphragm carburetor. 3,738,623, 6-12-73, Cl. 261-35.000.

Tuckey, Charles H.; and Schneider, Kenneth C., to Walbro Corporation. Diaphragm carburetor. 3,743,253, 7-3-73, Cl. 261-35.000.

Tuckey, Charles H., to Walbro Corporation. Diaphragm carburetor. 3,743,254, 7-3-73, Cl. 261-34.00a.

Tuckey, Charles H., to Walbro Corporation. Nozzle check valve system. 3,758,084, 9-11-73, Cl. 261-35.000.

Tucking, Werner; and Roder, Gerhard, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Overpressure external sizing tool. 3,717,426, 2-20-73, Cl. 425-71.000.

Tudberry, Ronald Owen, to International Computers Limited. Card gauge. 3,760,506, 9-25-73, Cl. 33-174.00r.

Tudor, Adney J.; and Tudor, Edward E., to Watermaster Industries, Limited. Floating skimmer. 3,762,557, 10-2-73, Cl. 210-242.000.

Tudor, Edward E.: *See*—
Tudor, Adney J.; and Tudor, Edward E., 3,762,557.

Tudor Metal Products Corporation: *See*—
Payne, Calvin L., Jr., 3,724,852.

Tueolla, Marco. Relief valves. 3,752,174, 8-14-73, Cl. 137-491.000.

Tuerck, Paul A.: *See*—
Mc Vean, Duncan E.; and Tuerck, Paul A., 3,767,794.

Tuetey, Paul, to Les Fabriques d'Assortiments Reunies. Drive mechanism for a watch having a balance motor. 3,775,968, 12-4-73, Cl. 58-116.00r.

Tuffias, Robert H.: *See*—
Stiles, John C.; Tuffias, Robert H.; and Blakely, Roger W., Jr., 3,746,407.

Tuffias, Robert H.; and Larson, Harry D., to Litton Systems, Inc. Ferrohydrodynamic low-friction bearing with volume compensation. 3,726,574, 4-10-73, Cl. 308-36.300.

Tuffli, Jon Martin. Plant holder and watering device for potted plants. 3,739,523, 6-19-73, Cl. 47-38.100.

Tuftco Corporation: *See*—
Beasley, Max M., 3,716,203.

Tufte, Obert N.: *See*—
Hager, Robert J.; Hitchell, Maurice L.; and Tufte, Obert N., 3,725,135.

Tufts, Wesley M.; and Albertassi, James H., to Nautron Corporation. Marine toilet. 3,713,177, 1-30-73, Cl. 4-95.000.

Tufts, William F. Dispensing applicator. 3,756,729, 9-4-73, Cl. 401-150.000.

Tuganova, Muza Konstantinova: *See*—
Brudz, Vitaly Grigorievich; Pronyakin, Nikolai Nikolaevich; Bljum, Grigory Zakharovich; Khainson, Sarrya Isaakovna; Vinogradov, Gennady Georgievich; Tuganova, Muza Konstantinova; and Vasilieva, Julia Vladimirovna, 3,729,540.

Tuger, William H., to Wiggins, E. B., Inc. Coupler device for tubing ends providing mechanical and electrical connections therewith. 3,753,205, 8-14-73, Cl. 339-15.000.

Tuggle, Ray: *See*—
DeRouen, Ray J.; Tuggle, Ray; and Graves, Richard H., 3,752,318.

Tuggle, Robert E., to General Motors Corporation. Shock absorbing bumper. 3,715,139, 2-6-73, Cl. 293-70.000.

Tuggle, William H., Jr.: *See*—
Anderson, Charles B.; and Tuggle, William H., Jr., 3,708,834.

Tugukuni, Hideyoshi: *See*—
Wakimoto, Saburo; Tugukuni, Hideyoshi; and Kano, Masafumi, 3,734,872.
Wakimoto, Saburo; Tugukuni, Hideyoshi; Kano, Masafumi; Matsui, Yutaka; Kazama, Seiju; and Goto, Jugo, 3,773,729.

Tugukuni, Hideyosi: *See*—
Wakimoto, Saburo; Tugukuni, Hideyosi; Kano, Masafumi; Matsui, Yutaka; and Goto, Jogo, 3,723,372.

Tuites, Donald E.: *See*—
Hoh, George L. K.; and Tuites, Donald E., 3,723,397.

Tuites, Richard C.; Whiteley, Thomas E.; and Minsk, Louis M., to Eastman Kodak Company. Polyacrylic anhydride containing pendant tetrazole moiety. 3,753,956, 8-21-73, Cl. 260-78.40r.

Tulagin, Vsevolod: *See*—
Carreira, Leonard M.; Stein, Ira S.; and Tulagin, Vsevolod, 3,711,196.

Tulagin, Vsevolod; and Carreira, Leonard M., to Xerox Corporation. Imaging system. 3,775,107, 11-27-73, Cl. 96-1.400.

Tulenko, James S.: *See*—
Sofer, George A.; Tulenko, James S.; and Tomonto, James F., 3,745,069.

Tulin, Marshall P., to Hydronautics, Incorporated. Blend of vacuum and reverse osmosis fruit juice concentrates. 3,743,513, 7-3-73, Cl. 99-105.000.

Tulk, Alexander Stuart; Douglas, Alan David; and Ericson, Ivan L., to GTE Sylvania Incorporated. Inspection method and apparatus for detecting oversized apertures in relatively thin sheets of opaque material. 3,711,205, 1-16-73, Cl. 356-162.000.

Tulkoff, Martin J. Apparatus for heat shrinking material about loaded pallet. 3,723,708, 3-27-73, Cl. 219-385.000.

Tull, Alonzo E.: *See*—
Benson, Ernest J.; Tull, Alonzo E.; and Weiveris, William V., 3,772,040.

Tull Aviation Corporation: *See*—
Magnante, Frank A.; and Toman, Donald J., 3,733,553.
Toman, Donald J., 3,715,757.
Toman, Donald J.; and Hundley, Warren, 3,754,262.

Tull, Roger J.: *See*—
Weinstock, Leonard M.; Tull, Roger J.; and Mulvey, Dennis M., 3,718,647.
Weinstock, Leonard M.; Tull, Roger J.; and Mulvey, Dennis M., 3,766,180.
Weinstock, Leonard M.; Tull, Roger J.; and Mulvey, Dennis M., 3,781,284.

Tuller, Harold W.: *See*—
Curtis, Omer E., Jr.; Tuller, Harold W.; O'Neill , Charles T.; and Nussbaum, Ralph W., 3,732,332.

Tullis, J. Paul: *See*—
Webb, Albert A.; and Tullis, J. Paul, 3,771,550.

Tullis, James Paul: *See*—
Webb, Albert A.; and Tullis, James Paul, 3,731,903.

Tullis, Paul J.: *See*—
Webb, Albert A.; and Tullis, James Paul, 3,731,903.

Tullis, Reuben C., to Manning Environmental Corporation, mesne. Liquid level indicator and flow measuring device. 3,781,624, 12-25-73, Cl. 318-482.000.

Tullman, Edward J.: *See*—
Heine, Martin W.; and Tullman, Edward J., 3,742,881.

Tullman, Gerald M., to Monsanto Company. Ammoxidation of saturated hydrocarbons. 3,746,737, 7-17-73, Cl. 260-465.300.

Tulloa, Aubrey R. Replaceable pen tips mounts. 3,778,843, 12-11-73, Cl. 346-140.000.

Tulloch, Harold Lucas: *See*—
Knowles, Martin; and Tulloch, Harold Lucas, 3,752,608.

Tullock, Charles W.: *See*—
Bechtold, Max F.; Square, Kennett; and Tullock, Charles W., 3,774,393.

Tullock, Charles William, to Du Pont de Nemours, E. I., and Company. Fluorine containing adamantanes and bicyclo [2.2.2] octanes. 3,714,273, 1-30-73, Cl. 260-648.00f.

Tullos, Aubrey R. Pen tip construction forming secondary ink reservoir. 3,771,166, 11-6-73, Cl. 346-140.000.

Tullos, Aubrey R. Inking pen constructions. 3,774,230, 11-20-73, Cl. 346-140.000.

Tullos, Aubrey R. Jewel tip capillary pen. 3,774,231, 11-20-73, Cl. 346-140.000.

Tullos, Aubrey R.; and Dewitt, Ray. Helical coil bourdon tube support assembly. 3,774,452, 11-27-73, Cl. 73-418.000.

Tullos, Aubrey R. Adjustable chuck assembly for capillary pen system. 3,781,908, 12-25-73, Cl. 346-140.000.

Tully, John J.: *See*—
Grover, Kenneth M.; Knecht, George B.; and Tully, John J., 3,753,691.

Tully, Paul R.; and Lippe, Robert J., to Cabot Corporation. Plant growth media and methods. 3,710,510, 1-16-73, Cl. 47-58.000.

Tulp, Wijbrand Jan, to N.V. Machinefabriek Stork-Jaffa. Apparatus operating on the displacement principle and usable both as a pump and as a motor. 3,741,076, 6-26-73, Cl. 91-480.000.





Tuma, Alex; and Hansson, Jan Ingvar, to AB Tetra Pak. Equipment for, cleansing and/or sterilising the filler tube in packaging machines. 3,716,083, 2-13-73, Cl. 141-90.000.

Tuma, Rudolf; and Lebender, Rotraud, to Dynamit Nobel Aktiengesellschaft. Suppository compositions and process for the preparation thereof. 3,767,801, 10-23-73, Cl. 424-230.000.

Tuman, Daniel: *See*—
Baker, Theodore H.; Ghafghaichi, Majid; Stevens, Richard C.; and Tuman, Daniel, 3,762,037.
Ghafghaichi, Majid; and Tuman, Daniel, 3,710,207.

Tuman, Edwin: *See*—
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Tumarkin, Sam: *See*—
Elsner, Raymond F.; Husty, James J.; and Tumarkin, Sam, 3,728,631.

Tumback, Hans, to Bodenseewerk Geratetechnik GmbH. North-seeking gypo pendulum. 3,750,300, 8-7-73, Cl. 33-324.000.

Tumbush, Gerald L., to Bendix Corporation, The. Method of setting Moire fringe transducer reading head skew angle and input stage amplifier gain and balance. 3,757,126, 9-4-73, Cl. 250-209.000.

Tumbush, Gerald L., to Bendix Corporation, The. Decimal limit set for a binary digital signal comparison. 3,757,298, 9-4-73, Cl. 340-146.200.

Tumey, Lawrence F. Adjustable form lock. 3,765,641, 10-16-73, Cl. 249-161.000.

Tumey, Morris J.: *See*—
McMurray, Nolan D.; and Tumey, Morris J., 3,717,443.
McMurray, Nolan D.; and Tumey, Morris J., 3,779,884.

Tummala, Rao R.: *See*—
Foster, Betty J.; and Tummala, Rao R., 3,775,999.
Langston, Perry R., Jr.; Tummala, Rao R.; and Wilson, Donald M., 3,778,127.

Tummers, Leonard Johan, to North American Philips Co., Inc. Transistor. 3,753,802, 8-21-73, Cl. 148-174.000.

Tumolo, Anthony L., to Sun Research and Development Co. Inhibition of ether decomposition during distillation by quinoline addition. 3,729,385, 4-24-73, Cl. 203-6.000.

Tums, Valdis M., to Union Carbide Corporation. Shirred casing stick with reverse helical fold pattern. 3,779,284, 12-18-73, Cl. 138-118.100.

Tunc, Deger, to Johnson & Johnson. Process for the sulfation of cellulosic ethers. 3,709,877, 1-9-73, Cl. 260-232.000.

Tunc, Deger, to Johnson & Johnson. Hair preparation. 3,741,783, 6-26-73, Cl. 106-189.000.

Tuncer, Mehmet Fahri. Steam-hydrocarbon reformer with a support system for catalyst tubes therein. 3,721,531, 3-20-73, Cl. 23-288.00m.

Tundermann, John Hayes; and Harrington, John Herbert, to International Nickel Company, Inc., The. Production of reflective metal flake pigments. 3,709,439, 1-9-73, Cl. 241-15.000.

Tune, Frederick F., to Eastman Kodak Company. Film cartridge. 3,756,133, 9-4-73, Cl. 95-19.000.

Tuneblom, Eskil, to Aktiebolaget Vibro-Verken. Dual amplitude vibration generator. 3,722,381, 3-27-73, Cl. 94-50.00v.

Tung, Chi Fang, to Minnesota Mining and Manufacturing Company. Heat-sensitive retro-reflective imaging sheet. 3,708,378, 1-2-73, Cl. 161-6.000.

Tung, Chi Fang, to Minnesota Mining and Manufacturing Company. Infrared-transmissive, visible-light absorptive retro-reflectors. 3,758,193, 9-11-73, Cl. 350-105.000.

Tung, Ching C.; and Powers, Jack F., to Monsanto Company. Isopropylidineaminoethanol salt of p-nitrobenzenesulfonylurea. 3,714,209, 1-30-73, Cl. 260-397.700.

Tung, Ching C.; and Hamm, Philip C. Method of controlling plant growth. 3,736,122, 5-29-73, Cl. 71-103.000.

Tunge, Heinert. Apparatus for superfinishing of rotary crankpins of crankshifts. 3,710,514, 1-16-73, Cl. 51-3.000.

Tungseth, Barry F.; Olson, Donald E.; and Skriba, Louis J., to Minnesota Mining and Manufacturing Company. Method and device for internally locating and sealing pipeline leaks. 3,762,446, 10-2-73, Cl. 138-97.000.

Tunick, Allen A.: *See*—
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Tunick, Allen Abraham: *See*—
Fuhrmann, Robert; Sifniades, Stylianos; and Tunick, Allen Abraham, 3,758,581.

Tunzi, Burton R. Monolithic analog-to-digital converter. 3,725,905, 4-3-73, Cl. 340-347.0ad.

Tuohey, Paul F.: *See*—
Gracia, Robert F.; Laughrey, Richard A.; and Tuohey, Paul F., 3,775,114.

Tuomy, Justin M.: *See*—
Hinnergardt, Larry C.; and Tuomy, Justin M., 3,732,727.

Tupaj, Manfred Paul; and Engert, Heinz, to Sud-Atlas-Werke G.m.b.H. Housing and speaker arrangement for magnetic sound recording and reproduction device. 3,710,035, 1-9-73, Cl. 179-100.20z.

Tupaj, Manfred Paul; and Engert, Heinz, to Sud-Atlas-Werke G.m.b.H. Magnetic tape recorder having a friction wheel drive for the tape reel carrier shafts. 3,718,777, 2-27-73, Cl. 179-100.20r.

Tupalski, Alexander. Connecting links for chains. 3,777,476, 12-11-73, Cl. 59-85.000.

Tupitsyn, Konstantin Konstantinovich: *See*—
Nazarov, Nikolai Grigorievich; Chinakal, Nikolai Andreevich; Sudnishnikov, Boris Vasilievich; Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; and Tupitsyn, Konstantin Konstantinovich, 3,708,023.
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Sudnishnikov, Boris Vasilievich; Kostylev, Alexandr Dmitrievich; Gurkov, Konstantin Stepanovich; Tupitsyn, Konstantin Konstantinovich; and Plavskikh, Vladimir Dmitrievich, 3,744,576.
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Sudnishnikov, Boris Vasilievich; Kostylev, Alexander Dmitrievich; Curkov, Konstantin Stepanovich; Tupitsyn, Konstantin Konstantinovich; Klimashko, Vladimir Vasilievich; and Plavskikh, Vladimir Dmitrievich, 3,763,939.

Tupker, Willem E., to Ledeen Flow Control Systems, Inc. Valve operator and method of making the same. 3,760,480, 9-25-73, Cl. 29-157.11r.

Tupone, Henry. Animated time piece. 3,747,330, 7-24-73, Cl. 58-125.00r.

Tuppeny, William Henry, Jr., to Combustion Engineering, Inc. Boiler drum structure for rapid temperature changes. 3,739,752, 6-19-73, Cl. 122-235.00z.

Tupper, George L., to Oxy Metal Finishing Corporation. Process for recovering coating materials. 3,723,148, 3-27-73, Cl. 106-287.0pr.

Tupper, Jack William. Surgical retractor. 3,762,401, 10-2-73, Cl. 128-20.000.

Tupper, Myron D.: *See*—
Tupper, Roy B.; Tupper, Myron D.; and Locati, Norman C., 3,731,884.

Tupper, Myron D., to Omark Industries, Inc. Energy absorbing structures. 3,714,859, 2-6-73, Cl. 85-1.00r.

Tupper, Myron D., to Omark Industries, Inc. Side sharpenable cutter structures. 3,720,049, 3-13-73, Cl. 56-291.000.

Tupper, Roy B.; Tupper, Myron D.; and Locati, Norman C., 3 1/3 to Thorpe, Lester M. Apparatus for preparing fragments from tire casings. 3,731,884, 5-8-73, Cl. 241-222.000.

Tupper, Wyman C.: *See*—
Flaherty, Francis E.; and Tupper, Wyman C., 3,723,195.

Tuppo, Robert: *See*—
Greenwald, Harry; and Tuppo, Robert, 3,735,066.

Turak, John L.: *See*—
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Turashoff, Victor E.: *See*—
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Turbak, Albin F.; and Rose, Henry J., to Tee-Pak, Inc. Easily peelable sausage casing. 3,753,740, 8-21-73, Cl. 99-176.000.

Turban, Josef: *See*—
Kuehnemann, Karl; and Turban, Josef, 3,710,240.

Turbanti, Luigi: *See*—
Cerbai, Guido; and Turbanti, Luigi, 3,776,908.

Turbanti, Luigi. Heterocyclic amine esters of 2-phenol-cyclohexen-3-carboxylic acid. 3,778,442, 12-11-73, Cl. 260-247.20b.

Turbo Machine Company: *See*—
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Turbo Power and Marines Systems, Inc., mesne: *See*—
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Turbotec, Incorporated: *See*—
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Turchetti, Gianni: *See*—
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Turci, Bruno, to Indel S.p.A. Compressor unit for refrigeration installations. 3,771,911, 11-13-73, Cl. 417-413.000.

Turcsan, Istvan: *See*—
Csuros, Zoltan; Petro, Jozsef; Dusza, Zsigmond; Simo, Zsuzsa, nee Barczy; Turcsan, Istvan; and Vaczulin, Jozsef, 3,729,413.

Turek, Buhuslav, to Richardson-Merrell Limited. Method for the production of sheets of stratum corneum. 3,765,404, 10-16-73, Cl. 128-2.00r.

Turek, James A.: *See*—
Wallace, Donald G.; and Turek, James A., 3,713,544.





Turene, Francis E.: *See*—





Turnbull, Fred C.; and Harnden, John D., Jr. Semiconductor device-

Turene, Francis E.: *See—*
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Turko, Michael, to American Hospital Supply Corporation. Air flow system for fume hood. 3,747,505, 7-24-73, Cl. 98-115.0lh.
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Turnbull, Fred G., to General Electric Company. Inverter with electronically controlled neutral terminal. 3,775,663, 11-27-73, Cl. 321-9.00a.
Turnbull, Gordon K.: *See—*
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Turner, Abner B., to Westinghouse Electric Corporation. Compact incinerator. 3,774,555, 11-27-73, Cl. 110-8.00r.
Turner, Abner B., to Westinghouse Electric Corporation. Apparatus for treating industrial and domestic waste waters. 3,774,768, 11-27-73, Cl. 210-199.000.
Turner, Allan L.: *See—*
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Turner, Charles B., to General Electric Company. Lighting control device. 3,727,063, 4-10-73, Cl. 250-206.000.
Turner, David. Method of buttering corn ears. 3,736,152, 5-29-73, Cl. 99-100.00r.
Turner, David Lilley, to National Research Development Corporation. Hose clips. 3,757,394, 9-11-73, Cl. 24-281.000.
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Turner, Dennis R., to Bell Telephone Laboratories, Incorporated. Electrode configuration for electrolytic printing. 3,713,169, 1-23-73, Cl. 346-74.00e.
Turner, Derek T.; and Scheer, John E., to Drexel University. Metallic modified plastic compositions and method for the preparation thereof. 3,708,387, 1-2-73, Cl. 161-168.000.
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Turner, Edward Bruce, to United Kingdom Atomic Energy Authority. Gas gauges. 3,750,298, 8-7-73, Cl. 33-172.00r.
Turner, Edward Bruce, to United Kingdom Atomic Energy Authority. Gas gauges. 3,750,299, 8-7-73, Cl. 33-172.00r.
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Turner, Garland L., to Allied Chemical Corporation. Process for producing hollow filaments. 3,728,428, 4-17-73, Cl. 264-177.00f.
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Turner, Harold Roy, to Turner, H. R., (Willenhall), Limited. Mechanisms for reclinable seats. 3,774,964, 11-27-73, Cl. 297-366.000.
Turner, Harvey W. Grain spout for tilting bed trucks. 3,732,960, 5-15-73, Cl. 193-5.000.
Turner, Horace George; and Wood, Robert Spurgeon, to Plessey Handel und Investments A.G. Systems for the supply of liquid fuel to gas-turbine engines. 3,736,072, 5-29-73, Cl. 417-79.000.
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Turner, James Thomas. Dyeing cotton-polyester textiles with one-bath mixture of disperse and cellulose-reactive dyestuff. 3,767,356, 10-23-73, Cl. 8-21.00c.
Turner, John Cameron, to Biorex Laboratories Limited. Glycyrrhetinic acid esters. 3,734,944, 5-22-73, Cl. 260-468.500.
Turner, John Cameron; and Sleep, Michael Christopher, said Turner assor. to Biorex Laboratories Limited. Derivatives of glycyrrhetinic acid. 3,742,021, 6-26-73, Cl. 260-468.500.
Turner, John Christopher; and Sheppard, Geoffrey, to United Kingdom Atomic Energy Authority. Inulin type radioactive diagnostic materials. 3,717,704, 2-20-73, Cl. 424-1.000.
Turner, John Dean, to Burlington Industries, Inc. Knit fabrics possessing improved durable-press and comfort properties. 3,738,902, 6-12-73, Cl. 161-89.000.
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Turner, John O., to Sun Oil Company. Formation of t-butyl ether from methylal. 3,732,319, 5-8-73, Cl. 260-614.00r.
Turner, John O., to Sun Oil Company. Synthesis of aliphatic and alicyclic ethers. 3,758,598, 9-11-73, Cl. 260-614.00r.
Turner, John O., to Sun Oil Company. Preparation of isoprene from isobutylene and methylal. 3,758,610, 9-11-73, Cl. 260-681.000.
Turner, John O. Vapor phase isoprene process. 3,773,849, 11-20-73, Cl. 260-681.000.
Turner, John O., to Sun Research and Development Co. Vapor phase isoprene process. 3,773,851, 11-20-73, Cl. 260-681.000.
Turner, John S.; and Fremer, William A., to Chrobak, Strickland Inc. Adjustable mounting apparatus for column shoring bracket. 3,776,499, 12-4-73, Cl. 248-298.000.
Turner, John W., to United States of America, National Aeronautics and Space Administration. Measurement system. 3,745,475, 7-10-73, Cl. 328-134.000.
Turner, John W., Jr.; Van Wormer, Richard A.; and Walling, James Bernard, to Jackson, Byron, Inc. Control for well pipe racks and the like. 3,768,663, 10-30-73, Cl. 211-60.00s.
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Turner, Leslie Ashton Steele, to Airfix Industries, Limited. Sheet feeding. 3,780,559, 12-25-73, Cl. 72-361.000.
Turner, Loyce A.; and Rollor, Edward A., Jr., to Advanced Research Corporation. Versatile telemetering system. 3,737,858, 6-5-73, Cl. 340-151.000.
Turner, Luis A. Method and apparatus for making stereoscopic drawings. 3,708,884, 1-9-73, Cl. 33-20.00r.
Turner, Lyman H.; Kukucka, William P.; and Summers, James E., to Xerox Corporation. Printer system. 3,709,595, 1-9-73, Cl. 355-14.000.
Turner, Lyman H.; and Manzek, Rhinehart A., to Xerox Corporation. Method and apparatus for stacking copy sheets. 3,735,978, 5-29-73, Cl. 271-88.000.
Turner, Lynn H., to Xerox Corporation. Method for magnetic development. 3,709,713, 1-9-73, Cl. 117-17.500.
Turner, Maurice E.: *See—*
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Turner, Carroll G.; and Turner, Robert W., 3,761,178.
Turner, Roger Scott. Sectioners. 3,745,716, 7-17-73, Cl. 51-96.000.
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Turner, Stephen, Jr., to Wern, Charles E., Jr., Dennison, David S., Jr. and Turner, Stephen, Jr. Drop-axle suspension system. 3,730,549, 5-1-73, Cl. 280-124.00f.
Turner, Stewart W., to United States of America, Air Force. Electrically controlled solid rocket ignition system. 3,712,227, 1-23-73, Cl. 102-49.700.
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Turner, William A.; and Forrer, John J., Jr. Fuel supply system for internal combustion engine powered portable tools and the like. 3,731,846, 5-8-73, Cl. 222-86.000.
Turner, William D. Electronic musical instrument simulating chiff, trackery and dynamic keying. 3,735,014, 5-22-73, Cl. 84-1.240.
Turner, William G.: *See—*
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Turner, William Neil; and Johnson, Frank Charles, to Secretary of State for Defence. Method of manufacturing carbon articles. 3,767,773, 10-23-73, Cl. 423-447.000.
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Turnock, Philip H.; Bancroft, William G.; and Lee, Max N. Y., to Union Carbide Corporation. Regeneration of molecular sieves having sulfur compounds adsorbed thereon. 3,725,299, 4-3-73, Cl. 252-411.00s.
Turnquest, Byron W.; Chao, Tay S.; and Broman, Victor E., to Atlantic Richfield Company. Lubricating oil composition. 3,775,321, 11-27-73, Cl. 252-42.700.
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Turpin, James N., to Owens-Illinois, Inc. Glue reclaiming system. 3,739,745, 6-19-73, Cl. 118-7.000.

Turpin, John N., to United States of America, Atomic Energy Commission. Skull-melting crucible. 3,735,010, 5-22-73, Cl. 13-35.000.

Turpin, Pierre; and Nael, Albert, to Compagnie Generale d'Automatisme. Inflatable pocket arrangement for selectively closing a passageway. 3,753,317, 8-21-73, Cl. 49-35.000.

Turrell, Douglas Walter, to Leeds & Northrup Company. Analog-to-digital wattmeter multiplier. 3,780,273, 12-18-73, Cl. 235-150.052.

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Turzillo, Lee A. Method for producing sub-aqueous and other cast-in-place concrete structures in situ. 3,726,950, 4-10-73, Cl. 264-32.000.

Turzillo, Lee A. Means for producing cast-in-place structures in situ. 3,780,975, 12-25-73, Cl. 249-1.000.

Tusa, John; Lawrence, Leslie Charles; and Plampton, Stanley Norman, to British Bata Shoe Company, Limited, The. Methods of manufacturing welted shoes. 3,736,613, 6-5-73, Cl. 12-142.00d.

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Tushaus, Leonard A., to Minnesota Mining and Manufacturing Company. Pressure-sensitive adhesives based on cyclic terpene urethane resin. 3,718,712, 2-27-73, Cl. 260-858.000.

Tushaus, Leonard A., to Minnesota Mining and Manufacturing Company. Pressure-sensitive polyurethane adhesives. 3,767,040, 10-23-73, Cl. 206-59.00c.

Tuskos, Michael E. Drapery manufacturing device. 3,738,007, 6-12-73, Cl. 33-18.00r.

Tuss, John J., to Bendix Corporation, The. Linear motion mechanism and motion amplifying device therefor. 3,780,595, 12-25-73, Cl. 74-25.000.

Tussey, Jimmy D.; and Oakes, George W. Stabilized contamination free surgical evacuator. 3,774,611, 11-27-73, Cl. 128-278.000.

Tussey, Jimmy D.; Oakes, George W.; Carr, Herbert F.; and Melnick, Irving, said Carr assor. to said Melnick, Irving and said Oakes and said Tussey assors. to said Oakes, George W. Contamination free surgical evacuator. 3,779,243, 12-18-73, Cl. 128-278.000.

Tutelman, David Morris, to Bell Telephone Laboratories, Incorporated. Distributed logic memory cell with source and result buses. 3,753,238, 8-14-73, Cl. 340-172.500.

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Tuttle, Charles H., to General Electric Company. High voltage resonant testing circuit. 3,781,667, 12-25-73, Cl. 324-57.00r.

Tuttle, Herman C. Air tool. 3,753,469, 8-21-73, Cl. 173-163.000.

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Tuttle, Wainwright, to Spati Industries, Inc. Solid state position sensing apparatus. 3,707,874, 1-2-73, Cl. 73-398.00r.

Tuuha, Rolf Erik. Drum barker. 3,709,268, 1-9-73, Cl. 144-208.00b.

Tuuha, Rolf Erik. Lock gate of the removal end of a barking drum. 3,716,087, 2-13-73, Cl. 144-208.00b.

Tuvell, Melvin E.; Yancey, Charlie F.; and Gorsich, Richard D., to Ethyl Corporation. Detergent formulative containing alkyl polyethoxy sulfate mixtures. 3,775,349, 11-27-73, Cl. 252-547.000.

Tuvell, Melvin E.; and Dewitt, William J., to Ethyl Corporation. Sulfonate mixtures based on derivatives of olefins of the vinyl, vinylidene and internal types having from 12 to 16 carbon atoms per molecule. 3,781,339, 12-25-73, Cl. 260-513.00r.

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Tveten, Kjell Wallin: *See—*
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Capes, Charles Edward; McIlhinney, Allan Edward; and Tweddle, Thomas Allen, 3,776,601.

Tweedie, William: *See—*
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Tweit, Robert C., to Searle, G. D., & Co. 2-Benzylamino-5-(5-bromo-2-methoxyphenyl)-1, 3,4-thiadiazole and congeners. 3,746,716, 7-17-73, Cl. 260-300.80d.

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Twells, Robert G.: *See—*
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Twidale, William H.; and Byrnes, Mark K., to Massey-Ferguson Industries Limited. Agricultural vehicle. 3,727,385, 4-17-73, Cl. 56-208.000.

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Ledewitz, William; and Twigg, Robert W., 3,730,393.

Twigger, James R.: *See—*
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Twist, Walter; Goldsbrough, Keith; and Hinley, John James, to British Titan Limited. Process for the manufacture of a pigment. 3,759,732, 9-18-73, Cl. 106-300.000.

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Allegri, Theodore Henry; Chelin, Charles R.; Evans, Dafydo W.; and Thompson, Norman D., 3,750,814.

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Ty, Henry: *See—*
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Ty, Henry; and Baptista, John, to Texas Instruments, Incorporated. Method for welding manganese alloys. 3,769,487, 10-30-73, Cl. 219-104.000.

Ty-Lok Assembly Systems, Inc.: *See—*
Countryman, Albert J., 3,721,750.
Countryman, Albert J., 3,777,334.

Tyabirdin, Vladimir Vasilievich: *See—*
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Tyler, Tracy B. Rotary dry shaver with tiltable shear plates. 3,715,803, 2-13-73, Cl. 30-43.500.

Tyler, W. S., Incorporated: *See—*
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Tyler, William E., III; and Dines, Martin P., to Esso Research and Engineering Company. Ligand complexes of CU(1) salts. 3,776,972, 12-4-73, Cl. 260-677.00a.

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Tyndale, William B., to International Telephone and Telegraph Corporation. Flash cube assembly system. 3,738,559, 6-12-73, Cl. 228-1.000.

Tyre, Roy W. Single component controlled RC bridge. 3,739,300, 6-12-73, Cl. 331-141.000.

Tyree, Lewis, Jr. Method and system for cooling material using $CO_2$ snow. 3,754,407, 8-28-73, Cl. 62-55.000.

Tyrey, Elasco A. Apparatus for heating a water bed. 3,760,147, 9-18-73, Cl. 219-217.000.

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Tyroler, Jesse F., to United States of America, Army. Method and system for personnel control with blinding illumination. 3,732,412, 5-8-73, Cl. 240-1.00r.

Tyroler, Jesse F., to United States of America, Army. Flares. 3,744,418, 7-10-73, Cl. 102-35.400.

Tyrone Hydraulics, Inc.: *See—*
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Tyrseck, Walter, to Robertson Paper Box Company, Inc. Lockable folding top on folding container. 3,773,246, 11-20-73, Cl. 229-39.00r.

Tysk, Jan Erik, to LKB-Medical AB. Ultrasonic atomizer for atomizing liquids and forming an aerosol. 3,729,138, 4-24-73, Cl. 239-102.000.

Tysko, Leon Albert; and Burnet, Robert Cortland, to Van Dyk Research Corporation. Variable sheet length paper feed and cutting system. 3,718,394, 2-27-73, Cl. 355-13.000.

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Uchida, Jiro; and Osugi, Minoru, to Kabushiki Kaisha Komatsu Seisakusho. Vibrating table. 3,720,136, 3-13-73, Cl. 91-35.000.

Uchida, Ken-Ichi: *See*—
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Uchida, Kosaku, to Matsushita Electric Industrial Co., Ltd. Switching circuit. 3,714,469, 1-30-73, Cl. 307-253.000.

Uchida, Kosaku, to Matsushita Electric Industrial Co., Ltd. Tuning system. 3,750,028, 7-31-73, Cl. 325-418.000.

Uchida, Kozo, to Iwatsu Electric Co., Ltd. Triggering method. 3,713,029, 1-23-73, Cl. 328-63.000.

Uchida, Kozo. Gate circuit. 3,737,680, 6-5-73, Cl. 307-257.000.

Uchida, Kozo; Nakaya, Naohisa; and Suzuki, Koji, to Iwatsu Electric Co., Ltd. Automatic synchronizing system with repetitive search and rapid acquisition. 3,742,372, 6-26-73, Cl. 328-63.000.

Uchida, Kozo, to Iwatsu Electric Co., Ltd. Protecting circuit. 3,760,228, 9-18-73, Cl. 317-31.000.

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Uchida, Minoru: *See*—
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Uchida, Shunichiro: *See*—
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Uchida, Suekichi, to Uchida Sharyo Co., Ltd. Foldable chair frame assembly. 3,730,584, 5-1-73, Cl. 297-45.000.

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Uchida, Tohru: *See*—
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Uchida, Yasuo, to Ishikawa Tekko Kabushiki Kaisha. Ball joints. 3,731,957, 5-8-73, Cl. 287-87.000.

Uchida, Yoshihisa: *See*—
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Uchida, Yosuke, to Fuji Photo Film Co., Ltd. Device for continuously mixing or reacting liquids. 3,770,250, 11-6-73, Cl. 259-6.000.

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Uchiyama, Hiromichi; and Inoue, Naohiko, to Nissan Motor Company, Limited. Hydraulic-power control device for power-assisted steering system. 3,777,839, 12-11-73, Cl. 180-79.200.

Uchiyama, Kensuke: *See*—
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Uchiyama, Takashi, to Canon Kabushiki Kaisha. Flash apparatus for a camera. 3,720,144, 3-13-73, Cl. 95-10.0ct.

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Uchiyama, Yoshihiro; Nakano, Yoshiyuki; Kishigami, Takashi; and Arie, Ryosuke, to Hitachi, Ltd. Automatic valve changeover apparatus for a turbine. 3,723,018, 3-27-73, Cl. 415-30.000.

Uchiyama, Yoshihiro; Yasumoto, Akihiro; Takemura, Katsumi; Kishigani, Takashi; Huzieda, Mamoru; and Arie, Ryosuke, to Hitachi, Ltd. Overspeed preventive apparatus for engines. 3,757,130, 9-4-73, Cl. 290-40.000.

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Uchytil, Gary, to Micro Science Associates. Filler masking of small apertures. 3,725,215, 4-3-73, Cl. 204-15.000.

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Udaloff, Nicholas N., to Southern Pacific Transportation Company. Container restraint system for railway cars. 3,762,340, 10-2-73, Cl. 105-366.00d.

Uddeholms Aktiebolag: *See*—
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Udding, Anne C., to Shell Oil Company. Cyclic ether polymerization process using metal alcoholate-metal hydrocarbylxanthate reaction product catalyst. 3,755,216, 8-28-73, Cl. 260-2.00a.

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Uden, Rupert H. Activated sludge plant. 3,735,870, 5-29-73, Cl. 210-138.000.

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Udy, Doyle C. Method and means for size reduction and collection of solid materials. 3,754,715, 8-28-73, Cl. 241-73.000.





Udy, Lex L.: *See*—
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Uebe, Rudolf: *See*—
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Uebel, Philipp: *See*—
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Alexander, Paul, Jr.; and Mc Dougal, Allan R. Disconnect unit. 3,737,181, 6-5-73, Cl. 285-316.000.
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Upp, Donald L., to General Motors Corporation. Shielded window arrangement for a heat cleaning oven door. 3,717,138, 2-20-73, Cl. 126-200.000.

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Upton, Keith Allan; and Elliot, Raymond William, to Emco Wheaton U.K. Limited. Pipe couplings. 3,768,840, 10-30-73, Cl. 285-16.000.

Ur, Amiram. Conductivity measuring system and conductivity cells therefor. 3,781,659, 12-25-73, Cl. 324-30.00r.

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Urabe, Hitoshi; Nagao, Kimitoshi; and Takano, Masao, to Fuji Photo Film Co., Ltd. Contact printer for photographic material. 3,737,228, 6-5-73, Cl. 355-78.000.

Uramoto, Tatsuro. Openable bag. 3,780,781, 12-25-73, Cl. 150-3.000.

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Uraneck, Carl A.; and Burleigh, John E., to Phillips Petroleum Company. Production of odor-free polymer latex. 3,756,976, 9-4-73, Cl. 260-29.7pt.

Uraneck, Carl A.; Trepka, William J.; and Brown, James D., to Phillips Petroleum Company. Method of polymerizing unsaturated monomers with organocalcium compounds. 3,775,369, 11-27-73, Cl. 260-63.00r.

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Urani, Angelo, to McGraw-Edison Company. Protector for electric circuits. 3,710,296, 1-9-73, Cl. 337-213.000.

Urani, Angelo, to McGraw-Edison Company. Protectors for electric circuits. 3,723,931, 3-27-73, Cl. 337-342.000.

Urani, Angelo, to McGraw-Edison Company. Protector for electric circuits. 3,753,192, 8-14-73, Cl. 337-201.000.

Urano, Fumio: *See—*
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Urano, Fumio, to Asahi Kogaku Kogyo Kabushiki Kaisha. Adaptor for adjustment of visibility in viewfinder of a photographic camera. 3,719,132, 3-6-73, Cl. 95-11.00v.

Urano, Fumio, to Asahi Kogaku Kogyo Kabushiki Kaisha. Lens and sight adjustor for camera view finder. 3,774,994, 11-27-73, Cl. 350-252.000.

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Urban, Norbert, to Volkswagenwerk Aktiengesellschaft. Fuel tank ventilating system. 3,768,498, 10-30-73, Cl. 137-43.000.

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Urban, Peter, to Universal Oil Products Company. Treating a water stream containing a sulfite compound to produce elemental sulfur. 3,714,338, 1-30-73, Cl. 423-571.000.

Urban, Peter; and Albert, David J., to Universal Oil Products Company. Bimetallic catalyst for use in reducing-oxysulfur compounds. 3,725,303, 4-3-73, Cl. 252-439.000.

Urban, Peter, to Universal Oil Products Company. Continuous process for scrubbing $SO_2$ from a gas stream. 3,728,433, 4-17-73, Cl. 423-242.000.

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Urban, Peter, to Universal Oil Products Company. Method for reducing oxysulfur compounds. 3,737,517, 6-5-73, Cl. 423-560.000.

Urban, Peter, to Universal Oil Products Company. Continuous process for scrubbing $SO_2$ from a gas stream with $H_2$ regeneration. 3,764,653, 10-9-73, Cl. 423-242.000.

Urban, Peter, to Universal Oil Products Company. Treatment of a thiosulfate solution with hydrogen sulfide. 3,773,662, 11-20-73, Cl. 210-50.000.

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Urban, Urban A. Treatment of soil. 3,713,253, 1-30-73, Cl. 47-58.000.

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Urbanic, John E., to Calgon Corporation. Colored activated carbon. 3,746,655, 7-17-73, Cl. 252-430.000.

Urbanic, John Emery; and Sutt, Robert Francis, to Calgon Corporation. Activated carbon with antioxidant properties and a method of preparing the same. 3,778,387, 12-11-73, Cl. 252-428.000.

Urbanic, John M.; Fox, D. Marshall; and Panian, Frederick C., to Aluminum Company of America. Method of controlling the quality of seam welded product. 3,735,084, 5-22-73, Cl. 219-67.000.

Urbanic, Robert F., to Pipe Machinery Company, The. Carbide thread chaser set and method of cutting threads therewith. 3,776,655, 12-4-73, Cl. 408-1.000.

Urbanick, Burton Alfred, to Met-L-Wood Corporation. Panel seal. 3,717,955, 2-27-73, Cl. 49-488.000.

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Urbanosky, Harold J., to Schlumberger Technology Corporation. Apparatus for plugging well bores with hardenable fluent substances. 3,750,750, 8-7-73, Cl. 166-187.000.

Urbanosky, Harold J., to Schlumberger Technology Corporation. Formation-testing tool for obtaining multiple measurements and fluid samples. 3,780,575, 12-25-73, Cl. 73-152.000.

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Urbutis, Algimantas P.; Schenk, Bernard H.; Risany, Joseph J.; and Marbach, Walter V., to Union Carbide Corporation. Shirred tubing, method and apparatus for making same. 3,766,603, 10-23-73, Cl. 17-42.000.

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Vail, Sidney L., to United States of America, Agriculture. Bispyrrolidone-formaldehyde addition products and their use as cross-linking agents with cellulose. 3,714,183, 1-30-73, Cl. 260-326.300.
Vail, Sidney L., to United States of America, Agriculture. Catalyst assist agents using leaving group effects. 3,771,957, 11-13-73, Cl. 8-186.000.
Vail, Thomas W., to Warwick Electronics Inc. Tape drive capstan. 3,719,334, 3-6-73, Cl. 242-181.000.
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Valassis, John G., to GTE Automatic Electric Laboratories, Incorporated. Charge coupled electronic line scanner. 3,750,114, 7-31-73, Cl. 340-173.01s.
Valayil, Silvester P., to M & T Chemicals, Inc. Bright tin-lead alloy plating. 3,749,649, 7-31-73, Cl. 204-43.00s.
Valbert, Jon R., to Halcon International Inc. Process for preparing glycol esters from ethylene and propylene. 3,715,388, 2-6-73, Cl. 260-497.00r.
Valbona, Bruno M.; Emmons, Robert J.; and Samuelian, Maurice P., to Dynamics Corporation of America. Filter bag condition signal for vacuum cleaner. 3,766,595, 10-23-73, Cl. 15-339.000.
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Valenti, Leo F.; and Follett, Paul S., to Techni-Rite Electronics, Inc. Thermal recorder having analogue stylus and print head. 3,754,279, 8-21-73, Cl. 346-76.00r.
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Valince, Louis J., to Parker-Hannifin Corporation. Ball valve. 3,731,904, 5-8-73, Cl. 251-315.000.
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Vallance, James K., to Ford Motor Company. Preformed seal assembly for a gas turbine regenerator. 3,741,288, 6-26-73, Cl. 165-9.000.
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Van Allman, Don T.; and Voss, Robert C., to Olin Corporation. Apparatus for cleaning tubes. 3,765,050, 10-16-73, Cl. 15-304.000.
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Van Best, Jasper Anton; Avenarius, Ernst Frederik; and De Zeeuw, Jan Willem, to U.S. Philips Corporation. Apparatus for detecting arcs. 3,746,930, 7-17-73, Cl. 317-31.000.
Van Blarcom Closures, Inc.: *See—*
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Van Bosse, John G., to GTE Automatic Electric Laboratories, Incorporated. Electronic scanpoint matrix having means for detecting electrical failures therein. 3,713,019, 1-23-73, Cl. 324-51.000.
Van Bost, Jacques: *See—*
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Van Brederode, Jan H.: *See—*
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Van Breen, Adriaan W., to Shell Oil Company. Biocidal polymeric compositions for controlling invertebrate pests. 3,769,417, 10-30-73, Cl. 424-78.000.
Van Brimmer, Russell H.: *See—*
Taylor, Richard P.; Van Brimmer, Russell H.; and Culp, Fred E., 3,717,945.
Van Buren, Harold S., Jr., to TRW Inc. Knob fastener. 3,730,571, 5-1-73, Cl. 287-53.00h.
Van Buren, Myers, to Bayshore Concrete Products Corporation. Reinforcement of concrete structures. 3,738,786, 6-12-73, Cl. 425-111.000.
Van Burleigh, Johannes Balfour, 1/3 to Breas, Cornelia and 1/3 to Breas, Margo Charlotte. Roof building element and method of making a roof. 3,720,033, 3-13-73, Cl. 52-741.000.
Van Buskirk, Derek Orem: *See—*
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Van Buskirk, Lyman F., to United States of America, Navy. Color stereo television. 3,770,887, 11-6-73, Cl. 178-6.500.
Van Bussel, Peter J. Method of making a peripherally grooved sheet metal article. 3,719,980, 3-13-73, Cl. 29-159.00r.
Van Byken, Harold B., II; and Brandt, Denard A., to Kennecott Copper Corporation. Method and apparatus for dislodging accumulated dust from dust collecting elements. 3,759,014, 9-18-73, Cl. 55-96.000.
Van Camp, Robert L.; and Phillips, Bernard C., to Borg-Warner Corporation. Fuel feed and charge forming method and apparatus. 3,746,320, 7-17-73, Cl. 261-35.000.
Van Cleave, George William, to International Business Machines Corporation. Root mean square voltage regulator. 3,746,970, 7-17-73, Cl. 323-22.0sc.
Van Cleave, Marvin A. Two-piece units longitudinally adjustable with each end terminating in means interlocking a camper body with a truck body. 3,744,840, 7-10-73, Cl. 296-23.0mc.
Van Daal, Hans. Apparatus for the manufacture of bricks. 3,771,932, 11-13-73, Cl. 425-296.000.
Van Daalen, Francois, to Shell Oil Company. Heave compensator. 3,743,249, 7-3-73, Cl. 254-172.000.
Van Daalen, Francois, to Shell Oil Company. Equipment for use in offshore wells. 3,754,607, 8-28-73, Cl. 175-7.000.
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Van Dalen, Leonard; and Gadren, George S., to Seaboard Fabricators, Inc. Wire stripper and cutter. 3,713,215, 1-30-73, Cl. 30-90.100.
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Van De Griend, Jan Maarten, to U.S. Philips Corporation. Flat commutator structure. 3,735,171, 5-22-73, Cl. 310-235.000.
Van de Heuvel, Walter August: *See—*
Vanhalst, Johan Eugeen; Van de Heuvel, Walter August; and Brinckman, Eric Maria, 3,728,119.
Van de Kerkhof, Lodevicus Lambertus Johannes, to AMP Incorporated. Method of crimping electrical connectors to wires. 3,763,555, 10-9-73, Cl. 29-628.000.
Van de Laar, Wilhelmus Johannes: *See—*
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Van de Meerendonk, Gerardus C., to Nedschroef Octrooi Maatschappij N.V. Machine for rolling screwthreads on blanks. 3,726,118, 4-10-73, Cl. 72-90.000.
Van de Meerendonk, Gerardus C., to Nedschroef Octrooi Maatschappij N.V. Machine for manufacturing screw bolts and the like by means of a number of shaping stations. 3,747,144, 7-24-73, Cl. 10-12.00r.
Van de Polder, Johan Leendert, to U.S. Philips Corporation. Colour television receiver for displaying a received television signal on a picture tube of the indexing type. 3,717,729, 2-20-73, Cl. 178-5.40f.
Van de Voorde, Norbert L. C., to Belgonucleaire S.A. Treatment of radioactive liquids. 3,716,490, 2-13-73, Cl. 252-401.10w.
Van de Walker, Roger D.; and Howe, Blair E., to California Injection Molding Co., Inc. Method and apparatus for molding articles containing inserts. 3,719,396, 3-6-73, Cl. 302-2.00r.
van de Wijngaert, Louis Assuerus, to U.S. Philips Corporation. Tape transport. 3,729,149, 4-24-73, Cl. 242-183.000.
Van Deelen, Wim, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid, Handel en Verkeer. Apparatus for optical investigations and measurements with the aid of several coherent light beams. 3,744,910, 7-10-3, Cl. 356-106.000.
Van Delden, Ronald: *See—*
Reed, Jerry A.; Van Delden, Ronald; Maruko, Shuji U.; Garner, George E.; Ryan, Stanley; Waring, Winfred F.; Klein, Jacob; Schmidt, Herman W., Jr.; and Friedrich, Simon, 3,750,529.
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Van Den Avoort, Pieter Marinus, to U.S. Philips Corporation. Cathode-ray tube having indexing strips on the screen for determining the position of the electron beam. 3,767,954, 10-23-73, Cl. 313-72.0bi.
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Van Den Bosch, Francois J. G. Selective information retrieval systems. 3,781,847, 12-25-73, Cl. 340-324.0al.
Van Den Bosch, Joseph, to Lee, Raymond, Organization, Inc., The. Baby bottle. 3,768,683, 10-30-73, Cl. 215-11.00b.
Van Den Broek, Albertus Joannes, to Akzona Incorporated. Novel process for the preparation of 6 alpha-alkyl-19-nor-steroids. 3,737,427, 6-5-73, Cl. 260-397.300.
Van Den Bussche, Willem, to U.S. Philips Corporation. Colour television circuit. 3,781,463, 12-25-73, Cl. 178-5.4cd.
van den Enden, Adrianus Wilhelmus Maria: *See—*
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Van Den Enden, Gaston Alfons; and Ceulemans, Hugo Frans, to Gevaert-Agfa N.V. Container for sheets of light-sensitive material. 3,710,977, 1-16-73, Cl. 221-102.000.
van den Hove, Christian; and Renard, Lucien, to Centre National de Recherches Metallurgiques. Determination of yield elongation during tensile testing. 3,733,049, 5-15-73, Cl. 235-151.300.
Van den Hurk, Theodorus Hubertus Josephus: *See—*
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Van Der Aa, Hendrik, to Arlen Mills Inc. Gear box and clutch assembly. 3,730,319, 5-1-73, Cl. 192-95.000.
Van Der Aa, Herman Henricus Maria, to U.S. Philips Corporation, mesne. Device with rolling diaphragm seal separating gas and liquid. 3,748,970, 7-31-73, Cl. 92-83.000.
Van Der Aa, Herman Henricus Maria. Device comprising a liquid-supported rolling diaphragm seal. 3,774,506, 11-27-73, Cl. 92-83.000.
Van der Brugt, Gerrit Johan; Hart, Johannes T.; and Schrier, Jacob. Spring system. 3,767,181, 10-23-73, Cl. 267-136.000.
Van Der Burgt, Gerrit Johan; Hart, Johannes T.; and Schrier, Jacob. Vehicle bed. 3,752,526, 8-14-73, Cl. 296-19.000.
Van Der Cleyen, Rafael J. J.; and Ribbens, Wilfried F., to Les Usines Fabelty Societe Anonyme. Recreational apparatus. 3,716,229, 2-13-73, Cl. 272-57.00e.
van der Does, Lucas, to N.V. Optische Industrie de Oude Delft. Device for delivering individual sheets of film from a stack. 3,743,276, 7-3-73, Cl. 271-24.000.
Van Der Floe, Hans; Kully, Herbert; and Affolter, Stephan, to Autophon Aktiengesellschaft. Apparatus for searching for people who are buried or trapped and equipped with the same type of apparatus. 3,777,267, 12-4-73, Cl. 325-18.000.
Van Der Floe, Hans O.; and Friedli, Johann Christian, to Autophon Aktiengesellschaft. Electrical circuit for generating precise high frequency oscillation intermittently modulatable in frequency. 3,736,529, 5-29-73, Cl. 332-18.000.
van der Gaag, Cornelis, to N.V. Industrieele Handelscombinatie Holland. Hopper craft. 3,730,402, 5-1-73, Cl. 222-561.000.
van der Grinten, Willem J., to General Electric Company. Composite membrane useful in noninvasive sensor for gases and vapors. 3,724,175, 4-3-73, Cl. 55-158.000.
Van Der Heijue, Martin Clemens; and Groothoff, Adriaan Jacob, to U.S. Philips Corporation. Deflection coil assembly. 3,761,849, 9-25-73, Cl. 335-210.000.
van der Hilst, Jan; Koorneef, Jacob; and Rietdijk, Johan Adriaan, to U.S. Philips Corporation. Apparatus for recording and/or playing back magnetic recordings on or/from a flexible, in particular tape-shaped, record carrier. 3,747,938, 7-24-73, Cl. 274-4.0r.
Van Der Hoek, Willem: *See—*
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Van Der Hoff, Herman: *See—*
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Van Der Lely, Ary; and Bom, Cornells Johannes Gerardus. Crop driers and method of drying crop. 3,735,856, 5-29-73, Cl. 198-58.000.
Van Der Lely, Ary. Crop driers. 3,736,670, 6-5-73, Cl. 34-218.000.
van der Lely, Ary; and Bom, Cornelis Johannes Gerardus. Tine cultivator with releasable striking tool. 3,765,491, 10-16-73, Cl. 172-189.000.
Van der Lely, Ary; and Bom, Cornelis Johannes Gerardus. Cultivator and tractor combinations. 3,774,688, 11-27-73, Cl. 172-39.000.
Van der Lely, Ary; and Bom, Cornelis Johannes Gerardus. Fine cultivators with support shields. 3,774,689, 11-27-73, Cl. 172-112.000.
Van Der Lely, Cornelis. Crop drying systems. 3,711,959, 1-23-73, Cl. 34-102.000.
Van Der Lely, Cornelis. Mowing machines. 3,717,981, 2-27-73, Cl. 56-6.000.
van der Lely, Cornelis. Universal tractors. 3,720,047, 3-13-73, Cl. 56-15.600.
van der Lely, Cornelis. Tractors. 3,721,077, 3-20-73, Cl. 56-15.600.
Van Der Lely, Cornelis. Implements. 3,757,976, 9-11-73, Cl. 214-515.000.
Van Der Lely, Cornelis; Van Der Lely, Ary; and Bom, Cornelis Johannes Gerardus. Device for working crop lying on the ground. 3,771,303, 11-13-73, Cl. 56-400.000.
Van der Lely, Cornelis. Soil cultivators. 3,774,687, 11-27-73, Cl. 172-49.000.
van der Lely, Fiet, to U.S. Philips Corporation. Tape recording and/or play-back apparatus. 3,747,941, 7-24-73, Cl. 274-4.00e.
Van der Loos, Josef L. M.; and Claassen, Peter J. M. W., to Stamicarbon N.V. Process for the anionic catalytic polymerization of lactams. 3,770,689, 11-6-73, Cl. 260-332.00r.
Van Der Meer, Jan. Close-up photographic system. 3,709,119, 1-9-73, Cl. 95-11.00r.
Van der Meer, Leonardus Petrus, to N.V. Leidsche Apparatenfabriek. Rotating bottle closing machine. 3,707,822, 1-2-73, Cl. 53-331.500.
Van Der Meer, Leonardus Petrus, to N.V. Leidsche Apparatenfabriek. Closure spindle. 3,724,166, 4-3-73, Cl. 53-334.000.
Van der Meij, Pieter H.: *See—*
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van der Meij, Pieter H.; and Bloembergen, Rudolf H., to Shell Oil Company. Polymeric pour point depressant for residual fuels. 3,726,653, 4-10-73, Cl. 44-62.000.
Van Der Meulen, Leonard. Method and device for manufacturing bags from thin-walled tubular foil in a continuous process. 3,762,282, 10-2-73, Cl. 93-35.0vl.
van der Most, Gerrit: *See—*
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Van Der Peet, Cornelis Johannes; deceased (by Mulkens, Casper Antonius Henricus; acting administrator); and Ruiterkamp, Willem, to U.S. Philips Corporation. System for producing an aperiodic vibrato signal. 3,735,013, 5-22-73, Cl. 84-1.250.

Van der Pelt, Cornelis Johannes: *See—*
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Van Der Puije, Patrick David, to Northern Electric Company, Limited. Automatic gain control circuit. 3,719,895, 3-6-73, Cl. 330-29.000.
van der Roer, Humphrey Alphons Victor, to Polytype AG. Device for placing cups on a moving carrier member. 3,780,885, 12-25-73, Cl. 214-8.50a.
Van der Sande, Jan J.; and Deltrap, Johan H., to Astrophysics Research Corporation, mesne. Image intensifier display system. 3,742,285, 6-26-73, Cl. 315-12.000.
van der Schoot, Adrianus Henricus Maria: *See—*
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Van Der Schoot, Theodore H., to GTE Sylvania Incorporated. Coating apparatus. 3,735,732, 5-29-73, Cl. 118-230.000.
Van Der Sel, Cornelius Gerrit, to Anker-Werke AG. Method and device for calculating check digits and for controlling groups of digits with appended check digits for errors. 3,711,830, 1-16-73, Cl. 340-146.1aj.
Van Der Sluys, Gerrit, to Douglas, Hunter, International N.V., mesne. Panel assembly. 3,755,988, 9-4-73, Cl. 52-473.000.
Van der Sluys, Willem Ludovicus Nicolaas: *See—*
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Van der Stelt, Cornelis, to N.V. Koniklijke Pharmaceutische Fabrieken v/h Brocades-Stheeman & Pharmacia. 1-(Dibenzo[a,d]cyclohepten-5-yl), 1-(dibenzo[a,d]cycloheptan-5-yl) and 1-(dibenzo[a,d]cyclooctanyl) imidazoles. 3,764,609, 10-9-73, Cl. 260-309.000.
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van der Tas, Johannes Cornelis; and Meulemans, Charles Cornelis Eduard, to U.S. Philips Corporation. Flash bulb. 3,768,957, 10-30-73, Cl. 431-95.000.
Van Der Toorn, Lambertus J.; Ouwerkerk, Jacobus S. M.; and Van Klinken, Jakob, to Shell Oil Company. Residual oil. 3,714,031, 1-30-73, Cl. 208-213.000.
Van Der Toorn, Lambertus J.; and Voetter, Heinz, to Shell Oil Company. Residual oil hydrodesulfurization process. 3,730,880, 5-1-73, Cl. 208-213.000.
Van Der Veeke, Adriaan Abraham: *See—*
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Van Der Veer, Frank Willard; and Nolan, Barry Allaire. Animation method and apparatus. 3,749,822, 7-31-73, Cl. 178-5.200.
Van Der Veken, Germaine. Combined box and construction element with connecting means connectable from two directions. 3,720,015, 3-13-73, Cl. 46-11.000.
Van Der Ven, Servaas; and Binsergen, Frederik L., to Shell Oil Company. Process for recovery of pivalolactone from polymers thereof. 3,751,435, 8-7-73, Cl. 260-343.900.
Van der Ven, Servaas; and Medema, Dirk, to Shell Oil Company. Production of cycloalkene polymers having improved processability. 3,776,895, 12-4-73, Cl. 260-93.100.
Van Der Viliet, Cornelis: *See—*
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van der Voori, Henricus G. P.; and DeJong, Willem P., to Shell Oil Company. Process. 3,751,475, 8-7-73, Cl. 260-583.00p.
Van Der Waaij, Dirk; Erkelens, Hendrik J.; Bossers, Pieter A.; and Kruiswijk, Franciscus J., to Nederlandse Organisatie voor Toegepast Natuurwetenschapplijk Orderzoek ten behoeve van de Volksgezondheid. Transporter for substantially germfree transport of bg living organisms. 3,777,736, 12-11-73, Cl. 128-1.00r.
Van Der Were, Jan Evert: *See—*
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Van der Werff, Chien; and Hellebrandt, Dieter, to Olympia Werke AG. Type head shifting apparatus. 3,738,471, 6-12-73, Cl. 197-52.000.
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Van derschueren, Emile, to European Atomic Energy Community. Process and device for the fabrication of alloy. 3,719,470, 3-6-73, Cl. 75-65.000.
Van Dest, Jean Claude, to Massey-Ferguson Inc. Hydraulic control valve. 3,734,129, 5-22-73, Cl. 137-596.000.
Van Dest, Jean Claude, to Massey-Ferguson Inc. Single lever control for transmission. 3,757,598, 9-11-73, Cl. 74-473.00r.
Van Deudekom, Hendrik, to Unican Security Systems, Ltd. Door locking means. 3,747,377, 7-24-73, Cl. 70-149.000.
Van Diepenbroek, Alfred Erich Wibrandt, to N.V. Bronswerk Apparatenbouw-v/h Moring & Steenaart. Heat exchanger. 3,759,317, 9-18-73, Cl. 165-19.000.
Van Diest, Anthony. Irrigation system. 3,752,403, 8-14-73, Cl. 239-204.000.
Van Dijk, Edsger Wybe. Method and machine for corrugating metal sheet. 3,768,294, 10-30-73, Cl. 72-307.000.
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Van Dijk, Jan; Zwagemakers, Johannes; and Van Houtenlaan, Maria Antonius, to U.S. Philips Corporation. [(Thenylidene amino) oxy] alkyl carboxylic acid and salts and esters thereof. 3,709,911, 1-9-73, Cl. 260-332.20a.
Van Dijk, Jan C., to Shell Oil Company. Method of centrifugally applying foam insulation to a pipe. 3,733,382, 5-15-73, Cl. 264-47.000.
Van Dijk, Leonardus Petrus Jozef; Flutsch, Georg; Korevaar, Geerlof Jan; and Verhagen, Jan, to U.S. Philips Corporation. Arrangement for testing the conversion accuracy of a circuit constituted by an analog-to-digital and a digital-to-analog converter. 3,75,561, 7-10-73, Cl. 340-347.0ad.
Van Doeren, Richard E., to Donaldson Company, Inc. Noise reduction apparatus and method. 3,776,364, 12-4-73, Cl. 181-48.000.
Van Dommelen, Johannes A. W. J.: *See—*
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Van Doorn, Donald W., to Lummus Industries, Inc. Process of wrapping and strapping bales of fibers. 3,733,769, 5-22-73, Cl. 53-24.000.
Van Doorn, Donald W.; and Hawkins, James B., to Lummus Industries, Inc. Process and apparatus for cutting elongated material. 3,744,361, 7-10-73, Cl. 83-37.000.
Van Doorn, Donald W.; and Pease, William C., III, to Lummus Industries, Inc. Centrifugal fan for handling material. 3,746,465, 7-17-73, Cl. 415-206.000.
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Van Doorn, Willem, to U.S. Philips Corporation. Amplifier for amplifying an input signal derived from a signal source and provided with an amplitude-limiting two-terminal network connected to its output circuit. 3,737,795, 6-5-73, Cl. 330-29.000.
Van Doorn, Willem, to U.S. Philips Corporation. Line amplifier. 3,774,118, 11-20-73, Cl. 330-28.000.
Van Doorne, Guy Camille, to Labofina S.A. Process for the improvement of the constitution of soils. 3,721,043, 3-20-73, Cl. 47-58.000.
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Van Doorselaer, Marcel Karel: *See—*
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Van Dyk, John W.; Vining, Roy H.; and Wittman, David, to Du Pont de Nemours, E. I., and Company. Multi-angle panel holding device. 3,708,233, 1-2-73, Cl. 356-244.000.
Van Dyk Research Corporation: *See—*
Burnet, Robert C.; and Slack, William F., 3,736,056.
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Van Dyke, John; and Lamfers, Bernard, to Allen, R. C., Inc. A.C. power supply for rate gyro. 3,719,874, 3-6-73, Cl. 318-227.000.
Van Dyke, John; and Lamfers, Benard, to Allen, R. C., Inc. Differential demodulator for rate gyro. 3,731,213, 5-1-73, Cl. 329-166.000.
Van Dyke, Le Roy L.: *See—*
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Van Dyke, Roscoe H., to McDonnell Douglas Corporation. Auto-advance throttle control. 3,715,093, 2-6-73, Cl. 244-76.00b.
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Van Eijl, Antonie Peter Lambertus; Jack, Alexander Gray; and Nienhuis, Harry, to U.S. Philips Corporation. High pressure gas discharge lamp containing germanium and selenium. 3,764,843, 10-9-73, Cl. 313-184.000.
Van Elk, Cornelis Johannes; Raatgever, Jacob Frederik; Morrien, Albertus Marinus; and Dirk van der Lee, Jan Gijsbert, to U.S. Philips Corporation. System for the accurate reproduction of pulse code modulation signals received as an unpavourable signal-to-nise ratio. 3,716,780, 2-13-73, Cl. 325-324.000.
Van Elk, Cornelis Johannes; Raaigever, Frederik; Van Der Lee, Jan Gijsbert Dirk; and Morrien, Albertus Marinus, to U.S. Philips Corporation. Wide frequency range voltage controlled oscillator with crystal controlled frequency stabilizing loop. 3,753,141, 814-73, Cl. 331-1.00a.
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Van Elzelingen, Laurens: *See—*
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Van Erp, Jan B., to United States of America, Atomic Energy Commission. Fast breeder reactor protection system. 3,764,467, 10-9-73, Cl. 176-19.00r.
Van Es, Jan. Arithmetic game. 3,744,153, 7-10-73, Cl. 35-31.00f.
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van Esdonk, Johannes; and van Roosmalen, Johannes Hendrikus Theodorus, to U.S. Philips Corporation. Method of adjusting two electrode surfaces in an electric discharge tube at a given distance from each other. 3,727,278, 4-17-73, Cl. 29-25.160.
van Esdonk, Johannes; and Jacobs, Jacobus Hubertus, to U.S. Philips Corporation. Method of manufacturing a light conducting perforated plate. 3,754,882, 8-28-73, Cl. 65-42.000.
Van Esdonk, Johannes; Jacobs, Jacobus Hubertus; Hornman, Johannes Petrus; and Van de Laar, Wilhelmus Johannes, to U.S. Philips Corporation. Gas-discharge display panel. 3,776,613, 12-4-73, Cl. 316-20.000.
Van Etta, David; and Ballenger, Robert J., to Central Specialties Company. Fabric hanger. 3,738,550, 6-12-73, Cl. 223-985.000.
Van Everdingen, Theodorus Michael J. Device for cutting a carpet. 3,752,025, 8-14-73, Cl. 83-485.000.
Van Eygen, Cyrille; and Hendrickx, Antonin, to UCB, Societe Anonyme. Hydrodimerization process of acrylic compounds. 3,732,276, 5-8-73, Cl. 260-465.80a.
Van Gaasbeek, Peter H.: *See—*
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van Galen, Piet; and van Nes, Johannes G. Th., Jr., to Pielkenrood-Vinitex N.V. Nursing box for babies or similar purposes. 3,776,217, 12-4-73, Cl. 128-1.00b.
Van Gaver, Georgette Steinbach, to Produits Chimiques Pechiney-Saint-Gobain. Alpha-halogeno-lauroyl peroxides, solutions thereof, and methods of preparing them. 3,728,401, 4-17-73, Cl. 260-610.00d.
Van Gelder, Harold, to Universal Clamp Corporation. Clamp having miter jaws. 3,767,183, 10-23-73, Cl. 269-99.000.
Van Gelder, Louis Ralph, to Chicago Bridge & Iron Company. Sludge feed system for incinerator. 3,709,170, 1-9-73, Cl. 110-8.00r.
Van Gerven, Gerardus Wilhelmus. Apparatus for replacing tubular lamps and the like which are difficult of access. 3,776,584, 12-4-73, Cl. 294-21.000.
Van Gerwen, Petrus Josephus, to U.S. Philips Corporation. System for the transmission of multilevel data signals. 3,723,880, 3-27-73, Cl. 325-38.00a.
Van Gerwen, Petrus Josephus; and Harmsen, Willem, to U.S. Philips Corporation, mesne. Device for the transmission of synchronous pulse signals. 3,737,778, 6-5-73, Cl. 325-322.000.
Van Gerwen, Petrus Josephus; and Sluyter, Robert Johannes, to U.S. Philips Corporation. Arrangement for frequency transposition of analog signals. 3,753,115, 8-14-73, Cl. 325-323.000.
Van Gerwen, Petrus Josephus, to U.S. Philips Corporation, mesne. Transmission system for the transmission of pulses. 3,772,598, 11-13-73, Cl. 325-50.000.
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Van Gheluwe, Joris E. A.; and Dadic, Miroslav, to Molson Industries, Limited. Production of carbonated beverages. 3,770,455, 11-6-73, Cl. 426-477.000.
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Van Ginkel, Johannes; and Van Heelsbergen, Teunis Robert, to U.S. Philips Corporation. Reduction cross-talk in double gap head. 3,781,834, 12-25-73, Cl. 340-174.10f.
Van Gompel, James J., to Brammall, Inc. Primary opening apparatus. 3,749,365, 7-31-73, Cl. 254-104.000.
Van Gompel, James J., to Brammall, Inc. Parallel motion mechanism. 3,754,516, 8-28-73, Cl. 105-369.00b.
Van Gompel, James J., to Brammall, Inc. Extensible top for open vehicle body. 3,765,716, 10-16-73, Cl. 296-137.00b.
Van Gompel, James J., to Brammall, Inc. Cable lock and seal device. 3,770,307, 11-6-73, Cl. 292-307.00r.
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Van Goudoever, Sebastian; and Jansse, Leonard, to Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V. Method for casting steel ingots. 3,760,862, 9-25-73, Cl. 164-55.000.
Van Greuingen, Theodore A., to Aluminum Company of America. Portable fastening tool. 3,722,280, 3-27-73, Cl. 72-294.000.
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Van Haaften, Johan, to N.V. Optische Industrie "de Oude Delft". Index card, file or similar flat element for a filing system. 3,742,634, 7-3-73, Cl. 40-359.000.
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Van Hart, Richard E., to Armstrong Cork Company. Method and apparatus for producing adhesive-backed tile. 3,746,596, 7-17-73, Cl. 156-251.000.
Van Harten, Jan: *See—*
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Van Hecke, George J.; and Masinda, Albert G., to Huck Manufacturing Company. Fastener installation tool. 3,722,329, 3-27-73, Cl. 81-10.000.



Van Heddegem, Luciaan H. E., to International Standard Electric Corporation. Character recognition device. 3,771,127, 11-6-73,



Van Kempen, Charles; and Zamek, Paul, to Simplex Specialty Co., Inc. Conveyor system. 3,713,649, 1-30-73, Cl. 271-79.000.

Van Heddegem, Luciaan H. E., to International Standard Electric Corporation. Character recognition device. 3,771,127, 11-6-73, Cl. 340a146.30j.
Van Heel, Jean J. Marie D., to U.S. Philips Corporation. Segment addressing. 3,725,874, 4-3-73, Cl. 340-172.500.
Van Heel, Jean Joseph Marie Dudok, to U.S. Philips Corporation. Computer system comprising a storage configuration with access prior to ultimate address calculation. 3,761,885, 9-25-73, Cl. 340-172.500.
Van Heelsbergen, Teunis Robert: *See—*
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Van Herwijnen, Arend: *See—*
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Van Herwijnen, Arend; and Vogel, Pieter Marten, to U.S. Philips Corporation. Method of manufacturing aluminum electrode foil for electrolyte capacitors. 3,755,115, 8-28-73, Cl. 204-129.750.
Van Heyningen, Earle M.: *See—*
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Van Houten, Robert. Hydriding process. 3,720,751, 3-13-73, Cl. 423-252.000.
Van Houten, Robert. Massive metal hydride structures and methods for their preparation. 3,720,752, 3-13-73, Cl. 423-255.000.
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Van Huis, Robert L., to U.S. Industries, Inc. Multi-tier cage constructions. 3,768,442, 10-30-73, Cl. 119-18.000.
Van Huis, Robert L., to U.S. Industries, Inc. Multi-deck cage construction. 3,768,444, 10-30-73, Cl. 119-22.000.
Van Huisen, Allen T. Smog and weather control system. 3,741,480, 6-26-73, Cl. 239-2.00r.
Van Huisen, Allen T. Geothermal-nuclear energy release and recovery system. 3,765,477, 10-16-73, Cl. 165-45.000.
van Huuksloot, Leendert, to Nemag N.V. Grab. 3,716,265, 2-13-73, Cl. 294-70.000.
Van Iderstine, Theodore J.; and Bonnell, Leonard J., to Dyonics, Incorporated. Helicopter lighting. 3,723,722, 3-27-73, Cl. 240-7.700.
Van, Ivan: *See—*
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Van Kamp, Harmen; and De Wachter, Anna Maria, to U.S. Philips Corporation. Novel 16-methylene-9β,10α-steroid compounds, pharmaceutical preparations which contain the novel compounds as active ingredients, and methods of producing the said compounds and preparations. 3,759,960, 9-18-73, Cl. 260-397.400.
van Kampen, Daniel Marten; and Pasztor, Foscarina, nee Rozzo, to Lever Brothers Company. Granular proteolytic enzyme composition. 3,723,327, 3-27-73, Cl. 252-110.000.
Van Kempen, Charles; and Zamek, Paul, to Simplex Specialty Co., Inc. Conveyor system. 3,713,649, 1-30-73, Cl. 271-79.000.
Van Kempen, Dick; and Spaargaren, Hans, to U.S. Philips Corporation. Switch position supervising device. 3,717,863, 2-20-73, Cl. 340-253.00r.
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Van Koevering, Barry D.; Blough, William M., Jr.; Bunnell, Fred H.; McDowell, William B.; and McDowell, George E. Pipeline survey vehicle. 3,718,978, 3-6-73, Cl. 33-174.00l.
Van Koppen, Christianus W. J.: *See—*
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Van Koppen, Christianus W. J., to Stamicarbon N.V. Pulse column with piston drive and resilient gas cushion. 3,723,069, 3-27-73, Cl. 23-267.00c.
Van Kralingen, Peter H., to Shell Oil Company. Tubular water quench apparatus with water film cooling. 3,753,633, 8-21-73, Cl. 425-71.000.
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van Laethem, Robert: *See—*
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Van Landuyt, Dennis C.: *See—*
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Van Landuyt, Dennis C.; and Ayers, Orval E., to United States of America, Army. Composite propellant composition with ferrocene compound as bonding agent and ballistic modifier. 3,765,965, 10-16-73, Cl. 149-7.000.
Van Latenstein, Anthonie, to Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V. Method for the manufacturing of baked ore pellets. 3,753,684, 8-21-73, Cl. 75-3.000.
Van Lear, George E.; and Dornbush, Albert Carl, to American Cyanamid Company. Substituted aminoethyl indoles and method of preparation. 3,780,063, 12-18-73, Cl. 260-326.150.
Van Leeuwen, Gerrit Hendrik. Anti-microbial compositions containing histaminase. 3,721,733, 3-20-73, Cl. 424-94.000.
Van Leeuwen, Marion. Nibble detecting light for fishing poles. 3,740,887, 6-26-73, Cl. 43-17.500.
Van Leeuwen, Marion. Fishing bucket. 3,751,845, 8-14-73, Cl. 43-56.000.
Van Linden, Jacques: *See—*
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Van Listhout, Jan August; and Jaeken, Jan, to Agfa-Gevaert N.V. Colour radiography. 3,721,823, 3-20-73, Cl. 250-65.00f.
Van Loon, Lambertus Jacob Willem; and Muilwijk, Dirk, to U.S. Philips Corporation. Regenerator for generating a pulse series which is to be stabilized on an incoming impulse series. 3,781,696, 12-25-73, Cl. 328-164.000.
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Van Manen, Dick T. Injection mold/injection blow mold system. 3,752,615, 8-14-73, Cl. 425-130.000.



Van Manen, Dick T. Rotary paraxial-cavity reciprocable-core injection mold/injection blow mold system. 3,752,625, 8-14-73, Cl. 425-249.000.
Van Manen, Jacob Teunis Teunissen, to Conical Containers Company (Proprietary) Limited. Apparatus for sealing plastic containers. 3,777,454, 12-11-73, Cl. 53-373.000.
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van Meijel, Henricus J. M.; and van Beek, Gerardus J. H., to Oce-van der Grinten N.V. Web transport systems for copying machines. 3,737,230, 6-5-73, Cl. 355-111.000.
Van Melle, Hugh; and Rees, Herbert, to Husky Manufacturing & Tool Works Limited. Device for orienting and stacking shallow cups and lids. 3,741,366, 6-26-73, Cl. 198-33.0ab.
Van Melle, Hugh; and Rees, Herbert, to Husky Manufacturing & Tool Works, Limited. Device for orienting and stacking frustoconical articles. 3,764,025, 10-9-73, Cl. 214-7.000.
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Van Middlesworth, Peter Q.; Buck, Marvin E.; and Seemann, Bruce R., to General Foods Corporation. Method for producing an expanded meat food product and product produced thereby. 3,745,021, 7-10-73, Cl. 99-107.000.
Van Mil, Martinus Petrus Gerardus, to Stork Amsterdam N.V. Device for removing the column of cervical vertebras from poultry. 3,737,948, 6-12-73, Cl. 17-11.000.
Van Mil, Martinus Petrus Gerardus, to Stork Amsterdam N.V. Device for removing the metatarsus and the achilles tendon from poultry. 3,755,854, 9-4-73, Cl. 17-11.000.
Van Mullekom, Hubert Peter, to N.V. Machinefabriek L. te Strake. Mechanism for preparing predetermined weft yarn lengths in a weaving machine. 3,734,141, 5-22-73, Cl. 139-122.000.
Van Namen, Frederik Tjado, to Singer Company, The. Document conveying mechanism. 3,761,075, 9-25-73, Cl. 271-53.000.
Van Nassau, Petrus J.M.: *See—*
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Van Nobelen, Arnoldus Hendricus. Device for filling flower pots with earth. 3,713,465, 1-30-73, Cl. 141-134.000.
Van Noord, Andrew J., to Kent Engineering. Rear view mirror operating mechanism. 3,712,149, 1-23-73, Cl. 74-501.00m.
Van Olphen, George W. Preparation of wine. 3,741,770, 6-26-73, Cl. 99-35.000.
Van Oorschot, Hendrikus Wilhelms Antonius: *See—*
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Van Oostrom, Antonius Gerardus Johannes, to U.S. Philips Corporation. Device comprising an electric high vacuum discharge tube provided with at least two electrodes not destined for emission, and discharge tube for such a device. 3,761,761, 9-25-73, Cl. 31-311.000.
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Van Orden, Lynn L., to Bausch & Lomb Incorporated. Symmetrical copy lenses. 3,731,990, 5-8-73, Cl. 350-221.000.
Van Orden, Lynn L., to Bausch & Lomb Incorporated. High magnification projection lens. 3,759,606, 9-18-73, Cl. 350-214.000.
Van Orsdel, John R., to Aeronca, Inc. Brazing powder deposition method. 3,722,071, 3-27-73, Cl. 29-471.100.
Van Os, Johannes Gerardus: *See—*
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Van Osch, John H. System for taking and processing still pictures. 3,780,634, 12-25-73, Cl. 95-31.0ca.
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Van Patten, Eric M.; and Freck, James A., to American Maize-Products Company. Method of coating food products with ungelatinized unmodified high amylose starch prior to deep fat frying. 3,751,268, 8-7-73, Cl. 99-100.000.
Van Patten, Eric M.; and Freck, James A., to American Maize-Products Company. High amylose starch additive in leavened pastry doughs. 3,777,039, 12-4-73, Cl. 99-92.000.
Van Patten, Robert E.; and Rogers, Dana B., to United States of America, Air Force. Pressure control system for G-suit. 3,780,723, 12-25-73, Cl. 128-1.00a.
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Van Pee, Paul Desire; Depoorter, Henri; Ghys, Theofiel Hubert; Berendsen, Jules Robert; and Vanassche, Willy Joseph, to Agfa-Gevaert N.V. Spectral sensitization of photodevelopable silver halide emulsions. 3,745,015, 7-10-73, Cl. 96-125.000.
van Pelt, Richard W.: *See—*
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Van Pelt, Richard W.; and Werner, Allen J., to International Business Machines Corporation. Magnetic tape unit capstan and reel motor control apparatus. 3,713,606, 1-30-73, Cl. 242-184.000.
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Van Slooten, Marion; and Kass, John C., said Van Slooten assor. of 100% and said Kass assor. of 50% to [illegible]. 3,[illegible]

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Van Poucke, Karel: *See*—
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Van Poucke, Lionel, to N.V. Bekaert S.A. Method for coating metal substrates with molten metal. 3,728,144, 4-17-73, Cl. 117-51.000.
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van Putten, James D., Jr., to Donnelly Mirrors, Inc. Day-night mirror. 3,748,025, 7-24-73, Cl. 350-280.000.
Van Raalte, John A.; and Christiano, Victor, to RCA Corporation. Intelligence-handling device having means for limiting induced electrostatic potential. 3,708,712, 1-2-73, Cl. 315-10.000.
Van Raay, Albertus, to N.V. Machinenfabrik. Onion end cutter. 3,765,320, 10-16-73, Cl. 99-636.000.
Van Raden, Earl M., to Mahon Industrial Corporation. Fume incinerator. 3,754,869, 8-28-73, Cl. 23-277-c.
Van Reenen, Robert Theodore. Circuit producing candle-flicker light output from lamp. 3,710,182, 1-9-73, Cl. 315-199.000.
van Rheenen, Bernard Josef Pieter: *See*—
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Van Rooijen, Jan, to U.S. Philips Corporation. Potentiometer having a transport screw and diamond shaped contact spring. 3,742,421, 6-26-73, Cl. 338-180.000.
Van Roojen, Jan, to Ingersoll Milling Machine Company, The. Fluid flow regulator for hydrostatic bearing pads. 3,741,231, 6-26-73, Cl. 137-101.000.
Van Roojen, Jan, to Ingersoll Milling Machine Company, The. Membrane type fluid flow regulator for a hydrostatic bearing. 3,758,175, 9-11-73, Cl. 308-5.000.
van Roosmalen, Johannes Hendrikus Theodorus: *See*—
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Van Roucke, L., to N.V. Bekaert S.A. Apparatus for vaporizing metal on a substratum. 3,777,704, 12-11-73, Cl. 118-49.100.
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Van Ryswyk, Carl; and Boner, Charles Paul, to White Instruments, Incorporated. Sound reinforcement equalization system. 3,755,749, 8-28-73, Cl. 328-167.000.
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Van Schoyck, Quentin, to Cylpik Incorporation. Method and apparatus for facilitating the harvesting of fruit from fruit trees. 3,775,954, 12-4-73, Cl. 56-329.000.
van Scoy, Davis A., to Helmerich & Payne, Inc. Operator. 3,720,138, 3-13-73, Cl. 91-1.000.
Van Selus, Samuel H. Lift and carrier trailer apparatus. 3,727,698, 4-17-73, Cl. 172-439.000.
Van, Sherman T.: *See*—
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Van Sice, David P.; and Martin, Paul A., to Quaker Oats Company, The. Music box record player. 3,710,668, 1-16-73, Cl. 84-98.000.
Van Sickel, Alfred L.; Mitchell, Errol S.; and Rigamonti, Gianfranco, to Stone & Webster Engineering Corporation. Nuclear reactor power plant structural support system. 3,716,451, 2-13-73, Cl. 176-65.000.
Van Sickle, Truman Ted, to Medar, Inc. Proximity detector. 3,736,445, 5-29-73, Cl. 307-308.000.
Van Slooten, Louis J., to General Motors Corporation. Valve rotator. 3,717,132, 2-20-73, Cl. 123-90.300.
Van Slooten, Marion; and Kass, John C., said Van Slooten assor. of 100%, and said Kass assor. of 50% to Van's Pines, Inc. Packaging method and apparatus. 3,747,293, 7-24-73, Cl. 53-24.000.
Van Sloun, Peter H.; and Pearlstein, Burton A., to United States of America, Air Force. Flux gate gradiometer using a pulse generator to drive the energizing windings as well as actuate the detector. 3,775,674, 11-27-73, Cl. 324-43.00g.
Van Slyke, Allan S., to General Motors Corporation. Fiber optic illuminator and method of making same. 3,718,814, 2-27-73, Cl. 240-8.160.
Van Smith, William, to Lectrolarm Custom Systems, Inc. Vehicle activity recording device. 3,720,943, 3-13-73, Cl. 346-7.000.
Van Smith, William, to Lectrolarm Custom Systems, Inc. Freight security system. 3,772,668, 11-13-73, Cl. 340-224.000.
Van Snellenberg, Anton P. M., to Canadian Fishing Company Limited, The. Cutting apparatus for tissue-like material. 3,714,681, 2-6-73, Cl. 17-1.000.
Van Son, Darryl J., to GTE Automatic Electric Laboratories Incorporated. Electrical connector. 3,740,697, 6-19-73, Cl. 339-103.00m.
Van Sorge, Bernardus J., to General Electric Company. Alkylation process. 3,751,488, 8-7-73, Cl. 260-621.00r.
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Van Spankeren, Ulrich: *See*—
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van Staveren, Pieter, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid, Handel en Verkeer. Gas turbine installation with a centrifugal fluid vanes compressor. 3,715,886, 2-13-73, Cl. 60-39.18r.
Van Steenbergen, Teunis Willem; and De Waal, Jan Arie Gerrit, to U.S. Philips Corporation. Schottky junction in a cavity. 3,777,228, 12-4-73, Cl. 317-235.00r.
Van Steenwyk, Donald H., to Applied Technologies Associates. Well mapping apparatus and method. 3,753,296, 8-21-73, Cl. 33-304.000.
Van Steveninck, Johannes: *See*—
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Van Steveninck, Johannes, to Shell Oil Company. Rapid consolidation of fluidized sand bed. 3,729,942, 5-1-73, Cl. 61-72.400.
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Van Swieten, Raymond Gerard: *See*—
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Van Thyne, Ray J.; and Rausch, John J., to Surface Technology Corporation. Nitrided, tantalum base alloys. 3,713,906, 1-30-73, Cl. 148-31.500.
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Van Tilberg, Jan, to American Can Company. Method of biaxially deforming sheet material. 3,714,687, 2-6-73, Cl. 28-72.100.
Van Tongelen, Marcel: *See*—
Debus, Henri Robert; Van Tongelen, Marcel; and Cahen, Raymond M., 3,775,495.
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Van Toorn, Cornelis Hendrik. Heating apparatus having one or more heating elements in its heating surface. 3,758,750, 9-11-73, Cl. 219-457.000.
Van Tuyl, David H. Mount for a twin-fluke type anchor. 3,752,107, 8-14-73, Cl. 114-210.000.
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Van Veldhuizen, John. Air cushion vehicle with supplemental support wheels including centrifugal fan means. 3,710,887, 1-16-73, Cl. 180-119.000.
Van Veldhuizen, John. Air boat with air cushion. 3,714,918, 2-6-73, Cl. 114-67.00a.
Van Veldhuizen, John. Air track and vehicle therefor. 3,722,424, 3-27-73, Cl. 104-23.0fs.
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Van Venrooy, John J., to Sun Research and Development Co. Preparation of polycyclic aromatic compounds. 3,761,530, 9-25-73, Cl. 260-668.00f.
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van Weele, Abraham Francois, to N.V. tot Aanneming van Werken voorheen H. J. Method and an apparatus for compacting a loosely packed layer of earth. 3,712,067, 1-23-73, Cl. 61-36.00r.
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Van Welzen, Henk; and Zuidweg, Marius Hendrik Johan. Electrophoresis apparatus. 3,773,648, 11-20-73, Cl. 204-299.000.
van Westerveld, Jan; and van Doorn, Jozeph Marie, to Stamicarbon N.V. Process of recovering ammonium sulphate from an aqueous solution containing ammonium sulphate and methionine. 3,709,666, 1-9-73, Cl. 23-300.000.
Van Wicklin, Warren A., Jr.: *See*—
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Van Wierst, Wilhelmus Lambertus, to Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V. Rotatable hot metal car. 3,720,173, 3-13-73, Cl. 105-271.000.
Van Winkler, Vernon. Capacitance function generator. 3,749,938, 7-31-73, Cl. 307-227.000.
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Van Wyck, William. Door lock mechanism. 3,765,709, 10-16-73, Cl. 292-33.000.
Van Wyk, Jan W., to Boeing Company, The. Bearing composition. 3,755,164, 8-28-73, Cl. 252-12.000.
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Van Zijp, Tonny, to N.V. Leidsche Apparatenfabriek. Gripping device for bottles. 3,710,928, 1-16-73, Cl. 198-210.000.
Van Zon, Cornelis, to Industriele Onderneming Wavin N.V. Device for manufacturing a plastic tube. 3,711,232, 1-16-73, Cl. 425-150.000.
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Vance, Gary R., to NL Industries, Inc. Water soluble flux composition. 3,746,620, 7-17-73, Cl. 148-23.000.
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Vance, Lawrence T., to Engineered Products, Inc. (EPI). Building wall assembly. 3,758,997, 9-18-73, Cl. 52-97.000.
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Vandemore, James J.; and Henry, Donald E., to Bliss, E. W., Company. Solid-state process control module with indicia to associate output signal with terminal. 3,766,550, 10-16-73, Cl. 340-381.000.
Vanden Broek, Christiaan J. H., to Thetford Corporation. Ball valve. 3,779,509, 12-18-73, Cl. 251-148.000.
Vanden Eynde, Hector Alfons; Van Poucke, Karel; DeCat, Arthur Henri; and Benoy, Gaston Jacob, to Gevaert-Agfa N.V. Photographic colour material. 3,762,921, 10-2-73, Cl. 96-55.000.
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containing azaidene and amide stabilizing agents. 3,732,104, 5-8-3, Cl. 96i109.000.



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Vandenberg, Edwin J., to Hercules Incorporated. Polymeric epoxides. 3,728,321, 4-17-73, Cl. 260-88.30a.
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Vankoughnett, Allan L.; and Wyslouzil, Walter, to Canadian Patents and Development Limited. Microwave absorption moisture guage. 3,755,733, 8-28-73, Cl. 324-58.50a.
Vankoughnett, Allan Leroy; and Wyslouzil, Walter, to Canadian Patents and Development Limited. Tuning means in a microwave heating apparatus. 3,742,394, 6-26-73, Cl. 333-17.000.
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Vann, Roy R. Select fire jet perforating apparatus. 3,717,095, 2-20-73, Cl. 102-21.600.
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Varga, John Maximilian Jules, to Carding Specialists (Canada) Limited. Splitting and blending of fibrous bales. 3,716,148, 2-13-73, Cl. 214-8.50c.
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Vargiu, Silvio; and Passalenti, Beppino, to Societa Italiana Resine S.p.A. Unsaturated polyester resin compositions. 3,721,643, 3-20-73, Cl. 260-40.00r.
Vargiu, Silvio; Nistri, Ugo; and Passalenti, Beppino, to Societa' Italiana Resine S.p.A. Process for preparing photochemically hardenable compositions comprising a photosensitive substance and an unsaturated polyester. 3,737,481, 6-5-73, Cl. 260-865.000.
Vargiu, Silvio; Passalenti, Beppino; and Abruzzi, Pierluigi, to Societa' Italiana Resine S.p.A. Polyester composition and method of manufacturing the same. 3,749,689, 7-31-73, Cl. 260-29.6nr.
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Vargo, E. James. Method of making a labyrinth seal. 3,739,444, 6-19-73, Cl. 29-148.40s.
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Vargo, William J. Rubberized metal reinforced belt grommet installing machine. 3,745,634, 7-17-73, Cl. 29-200.00p.
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Vegners, Edgar Z., to Eaton Corporation. Free wheeling 2-speed motor wheel. 3,770,075, 11-6-73, Cl. 180-66.00f.

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Vehrs, Charles L., Jr., to North American Rockwell Corporation. Digital doppler processor. 3,737,900, 6-5-73, Cl. 343-7.00a.

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Veith, Alois L., to ITT Industries, Inc. Method of manufacturing a plurality of bridge rectifiers. 3,707,766, 1-2-73, Cl. 29-588.000.
Veith, Louis A. Foot cleaner device for vehicles. 3,740,072, 6-19-73, Cl. 280-164.00a.
Veith, Werner; Gross, Franz; and Pobl, Konrad, to Siemens Aktiengesellschaft. Delay line for travelling-wave tubes. 3,739,303, 6-12-73, Cl. 333-31.00a.
Veith, Werner, to Siemens Aktiengesellschaft. Electron-beam tube as symbol-printing tube. 3,753,035, 8-14-73, Cl. 315-31.00r.
Veitl, Giswalt; and Bachner, Ernst, to Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft. Process for producing hot rolled three layer steel products from continuously cast hollow tubes. 3,743,005, 7-3-73, Cl. 164-76.000.
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Velev, Dimitar Spassov, to Nis Pri Vimmess. Cylindrical furnace for continuous production of reinforced and nonreinforced seamless pipes of foam glass. 3,767,373, 10-23-73, Cl. 65-144.000.
Veley, Carl, to Permeator Corporation. Method of consolidating sand formations. 3,741,308, 6-26-73, Cl. 166-292.000.
Velez, Phillip G. Wall-switch-mounted extension operator for toggle switch. 3,742,172, 6-26-73, Cl. 200-172.000.
Velicer, Wencel J.; Krishnaiyer, Ramesh; McLean, Michael B.; and LaMore, Donald J., Jr., to Johnson Service Company. Fluidic signal generator. 3,746,044, 7-17-73, Cl. 137-624.140.
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Velinsky, Milton: *See—*
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Velkoff, Henry R., to Ohio State University, The. Apparatus and method for controlling liquid fuel sprays for combustion. 3,749,545, 7-31-73, Cl. 431-2.000.
Vella-Coleiro, George Philip: *See—*
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Abildgaard, William H.; and Groswith, Charles T., III, 3,756,625.
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Veloric, Harold Seymour, to RCA Corporation. Radio frequency transistor employing high and low-conductivity base grids. 3,736,478, 5-29-73, Cl. 317-235.00r.
Veloric, Harold Seymour, to RCA Corporation. Method for making an intermetallic contact to a semiconductor device. 3,753,774, 8-21-73, Cl. 117-212.000.
Veloso, Alberto E., to Internationale Erfinder- und Patentanstalt. Method for removing deleterious pollutant constituents of the exhaust gas of a combustion engine. 3,737,515, 6-5-73, Cl. 423-212.000.
Veloso, Alberto E., to International Erfinder- und Patentanstalt. Process for extracting metal plating, scrap or ore in a fused electrolyte cell. 3,777,011, 12-4-73, Cl. 423-592.000.
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Veloz, Louis P. Fluid sterilization. 3,731,090, 5-1-73, Cl. 250-43.000.
Vel's Ford Sales Co., Inc.: *See—*
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Velten, Edmund M.; Jagaciak, George J.; Wambold, John N.; and Epstein, Arthur, to Beryllium Corporation, The. Method of making beryllium shapes from powder metal. 3,724,050, 4-3-73, Cl. 29-182.000.
Velten, Robert H., to E. F. Industries, Inc. Explosive composition for bonding containing an organometallic polymer. 3,730,791, 5-1-73, Cl. 149-46.000.
Velter, Raphael Joris; and Meyer, Karl-Otto, to Gevaert-Agfa N.V. Gelatino silver halide emulsion containing a halogenated aldehyde acid and a perhydrotriazine compound as hardening agents. 3,721,564, 3-20-73, Cl. 96-111.000.
Velthoven, Arthur E., to Federal Screw Works. Nut gauging machine. 3,731,795, 5-8-73, Cl. 209-73.000.
Veltkamp, Clarence W. Water sweep. 3,770,210, 11-6-73, Cl. 239-532.000.
Veltman, Herbert: *See—*
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Veltman, Preston Leonard, to Grace, W. R., & Co. Removal of ions from liquids. 3,766,034, 10-16-73, Cl. 204-149.000.
Veltze, Stanislaw Marian; and English, Paul Everitt, to British Iron and Steel Research Association, The. Device for measuring temperature of molten metal. 3,745,834, 7-17-73, Cl. 73-343.00r.
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Vena, Peter A., to Collins Radio Company. Frequency shift keyed apparatus. 3,713,017, 1-23-73, Cl. 332-9.00r.
Venable, Charles R., Jr., to Phillips Petroleum Company. High temperature refractory lining. 3,714,971, 2-6-73, Cl. 138-143.000.
Venable, Charles R., Jr., to Phillips Petroleum Company. Carbon black reactor. 3,716,340, 2-13-73, Cl. 23-259.500.
Venable, Charles R., Jr., to Phillips Petroleum Company. Furnace wall construction. 3,763,796, 10-9-73, Cl. 110-1.00a.
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Venables, Herbert J., III, to Venables Machine and Tool Company, The. Machine for making a heat exchanger tube. 3,722,059, 3-27-73, Cl. 29-202.00d.
Venables Machine and Tool Company, The: *See—*
Venables, Herbert J., III, 3,722,059.
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Vencil, Naylan N., to Dresser Industries, Inc. Apparatus for producing multiple zone oil and gas wells. 3,746,089, 7-17-73, Cl. 166-106.000.
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Venditty, Anthony, to General Motors Corporation. Vehicle transporter. 3,752,085, 8-14-73, Cl. 105-368.00r.
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Veneria, Giovanni Bessolo, to Olivetti, Ing., C., & C., S.p.A. Injection moulding press with means for separating scrap material from the molded articles. 3,776,675, 12-4-73, Cl. 425-134.000.
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Veneziale, Lee E., Jr., to Westvaco Corporation. Edging material for application to the edges of substrates. 3,730,823, 5-1-73, Cl. 161-82.000.
Veneziale, Lee E., Jr., to Westvaco Corporation. Edge banding machine. 3,753,832, 8-21-73, Cl. 156-499.000.
Veneziale, Lee E., Jr., to Westvaco Corporation. Two sheet overlay and laminates comprising the same. 3,756,901, 9-4-73, Cl. 161-6.000.
Veneziani, Marco Antonio. Rotary brush. 3,775,800, 12-4-73, Cl. 15-28.000.
Veneziano, Joseph. Portable shaping tool. 3,774,425, 11-27-73, Cl. 72-326.000.
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Venker, Hilrich Jan Matthijs, to Societe Industrielle Honeywell Bull (Societe Anonyme). Print device for a printer. 3,748,613, 7-24-73, Cl. 335-268.000.
Venker, Hilrich Jan Matthijs, to Societe Industrielle Honeywell Bull (Societe Anonyme). Record card reading apparatus. 3,755,653, 8-28-73, Cl. 235-61.10r.
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Vennola, Jorma, to Columbia Broadcasting System, Inc. Toy beads and assembly. 3,745,694, 7-17-73, Cl. 46-16.000.
Vennola, Jorma, to Columbia Broadcasting System, Inc. Stacking toy with inner and outer stacking components. 3,765,121, 10-16-73, Cl. 46-17.000.
Vennola, Jorma, to Columbia Broadcasting System, Inc. Musical amusement device. 3,766,683, 10-23-73, Cl. 46-17.000.
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Venter, Pieter Lawrence, to Paddy McDonnell (Proprietary) Limited. Rotary cutters. 3,750,772, 8-7-73, Cl. 175-364.000.
Venter, Tjaart Petrus. Relating to adjustable stays. 3,719,381, 3-6-73, Cl. 292-275.000.
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Ventre, Edmond, to Electricite de France (Service National). Handling grab. 3,726,557, 4-10-73, Cl. 294-86.00a.
Ventre, Pierre; and Ferraris, Robert, to Regie Nationale des Usines Renault and Automobiles Peugeot. Electromagnetic and manual control systems of vehicle door locks. 3,720,084, 3-13-73, Cl. 70-264.000.
Ventre, Pierre, to Regie Nationale des Usines Renault and Automobiles Peugeot. Hinges with built-in door check. 3,722,027, 3-27-73, Cl. 16-50.000.
Ventres, Romeo J.; Duchesneau, Eugene A., Jr.; and Rosis, Constantine. Method of plasticizing vinyl halide polymers. 3,756,979, 9-4-73, Cl. 260-34.200.
Ventriglio, Frank J.; Zall, David M.; Stockhausen, Cyril J.; and Decker, Donald R., Jr. Carbon dioxide sorbent for confined breathing atmospheres. 3,729,902, 5-1-73, Cl. 55-389.000.
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Venture Technology, Inc.: *See—*
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Venuto, C. Joseph, to ESB Incorporated. Lead acid storage battery wherein a positive plate comprises antimony dispersed throughout the active material. 3,723,182, 3-27-73, Cl. 136-26.000.
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Ver, Istvan L.; and Kurze, Ulrich J., to Bolt Beranek and Newman, Inc. Sound silencing method and apparatus. 3,738,448, 6-12-73, Cl. 181-42.000.
Ver Nooy, Burton, to Williamson, T. D., Inc. Pipeline pig. 3,755,908, 9-4-73, Cl. 33-178.00f.
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Ver Steeg, David J., to Marathon Oil Company. Miscible-type flooding of oil reservoirs having water saturated bottom zones. 3,710,861, 1-16-73, Cl. 166-269.000.
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Verbeke, Henry, to APL Corporation. Bag vending machine having feeler controlled lock. 3,709,347, 1-9-73, Cl. 194-94.000.

Verbeke, Henry, to APL Corporation. Cash box. 3,741,464, 6-26-73, Cl. 232-15.000.

Verbeke, Henry, to APL Corporation. Bag vending machine. 3,749,218, 7-31-73, Cl. 194-2.000.

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Verburg, Werner, to Agfa-Gevaert Aktiengesellschaft. Photographic material with improved properties. 3,769,020, 10-30-73, Cl. 96-85.000.

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Verderio, Giuseppe. Built-up rail post by which the steps of spiral stairs are connected with the hand rail, and components of such rail post. 3,748,802, 7-31-73, Cl. 52-187.000.

Verdier, Claude H., to Office Nationale d'Etudes et de Recherches Aerospatiales (par abreviation O.N.E.R.A.), Etat Francais represente par le Ministre d'Etat Charge de la Defense Nationale, Delegation and Ministerielle pour l'Armement, Direction des Poudre. Fuel unit for a hybrid hot-gas generator. 3,779,011, 12-18-73, Cl. 60-251.000.

Verdier, Denise, to Colgate-Palmolive Company. Detergent compositions. 3,755,206, 8-28-73, Cl. 252-545.000.

Verdier, Henri, to Compagnie Generale des Etablissements Michelin, raison Sociale Michelin & Cie. Rim side ring fastening device. 3,739,830, 6-19-73, Cl. 152-398.000.

Verdier, Henri, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Device for mounting and unmounting giant tires. 3,743,000, 7-3-73, Cl. 157-1.330.

Verdier, Henri, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Monobloc wheel. 3,746,399, 7-17-73, Cl. 301-65.000.

Verdier, Henri, to Compagnie Generale des Etablissements Michelin raison Sociale Michelin & Cie. High-speed radial tire. 3,757,844, 9-11-73, Cl. 152-361.0fp.

Verdier, Henri, to Compagnie Generale des Etablissements Michelin, raison sociale Michelin & Cie. Asymmetrical tire casing. 3,765,468, 10-16-73, Cl. 152-352.000.

Verdin, Sam M. Apparatus and method for collection of oil from surface of the sea. 3,754,653, 8-28-73, Cl. 210-197.000.

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Verduin, Lee V.; and Rosenhagen, William, to Rowe International, Inc. Lottery ticket merchandiser. 3,770,089, 11-6-73, Cl. 194-1.00n.

Verduzco, Miguel A.: *See—*
Cucuz, Ranko; Verduzco, Miguel A.; and Zavodny, George, Jr., 3,760,488.

Vereb, Hans: *See—*
Schweng, Otto; Smejkal, Hellmuth; Vereb, Hans; and Eicher, Karl, 3,750,952.

Vereheyden, Julien P.; and Moffatt, John G., to Syntex Corporation. 1-(2-Amino-2-deoxy-β-D-ribofuranosyl) pyrimidines and derivatives thereof. 3,755,295, 8-28-73, Cl. 260-211.50r.

Vereinigte Aluminium-Werke Aktiengesellschaft: *See—*
Helmrich, Gunter; and Wulfing, Fritz, 3,743,468.
Hirt, Wilhelm; Ringelmann, Heinz; Weckesser, Ernst; and Weinhold, Gottfried, 3,712,785.
Moritz, Gunther, 3,726,336.
Sautter, Werner; and Gilak, Ahmad, 3,770,600.
Winkhaus, Gunter; Wargalla, Gerhard; and Kampf, Fritz, 3,753,776.

Vereinigte Baubeschlagfabriken Gretsch & Co. G.m.b.H.: *See—*
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Vereinigte Deutsche Metallwerke AG: *See—*
Ferber, Franz, 3,732,726.
Theobald, Reiner, 3,729,791.
Von der Crone, Gerhard; and Fricke, Horst, 3,762,911.

Vereinigte Drahtwerke A.G.: *See—*
Iseli, Hans, 3,759,419.

Vereinigte Farbenglaswerke Aktiengesellschaft: *See—*
Ranel, Josef, 3,778,246.

Vereinigte Flugtechnische Werke-Fokker GmbH: *See—*
Berger, Hans-Jurgen; Usedom, Hans-Wilhelm; and Michaelis, Horst, 3,743,823.
Kaufhold, Norbert; Konig, Klaus; Keller, Heinrich; De Graaf, Jan G.; Blankenzee, Johan; Bakker, Hans; and Plettenburg, Carolus, 3,727,862.
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Meyer, Ulrich, 3,762,491.
Nussbaum, Helmut; and Schnell, Hilmar, 3,780,969.
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Salamon, Wolfgang; and Lother, Rolf, 3,708,765.
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Wolf, Konrad; and Barmbold, Hermann, 3,734,411.

Vereinigte Leichtmetall-Werke GmbH: *See—*
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Vereinigte Metallwerke Ranshofen-Berndorf Aktiengesellschaft: *See—*
Stadler, Hubert; and Spanyar, Horst, 3,728,066.

Vereinigte Osterreichische Eisen- und Stahlwerke Aktiengesellschaft: *See—*
Bachner, Ernst; and Fortner, Walter, 3,741,277.
Fortner, Walter; and Hoscher, Rudolf, 3,766,968.
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Kaser, Arthur, 3,720,581.
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Schweng, Otto; Smejkal, Hellmuth; Vereb, Hans; and Eicher, Karl, 3,750,952.
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Vereinigte Osterreichische Eisen-und Stahlwerke Aktiengesellschaft: *See—*
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Veres, Frank: *See—*
Austin, Lewis M.; Denman, Robert R.; O'Donnell, Thomas P.; and Veres, Frank, 3,713,728.

Veres, Frank, to Owens-Illinois, Inc. Glass sealing method. 3,734,702, 5-22-73, Cl. 65-43.000.

Veres, Raymond M., to Port of New York Authority, The. Hydraulic system for trucks. 3,733,818, 5-22-73, Cl. 60-422.000.

Vereschagin, Leonid Fedorovich; Bakul, Valentin Nikolaevich; Semerchan, Aik Akopovich; Prikhna, Alexei Iosifovich; Popov, Vladimir Vasilievich; Ryabinin, Jury Nikolaevich; Livshits, Leopold Davydovich; Arkhipov, Robert Georgievich; Dslesarev, Vladislav, Niolaevich; Galaktionov, Vasily Andreevich; and Semyashkevich, Boris Pavlovich. Apparatus for developing high pressure and high temperature. 3,746,484, 7-17-73, Cl. 425-77.000.

Vereschagin, Leonid Fedorovich; Konyaev, Jury Sergeevich; Polyakov, Evgeny Valentinovich; and Surkov, Ivan Efimovich. High-pressure plunger compressor. 3,778,196, 12-11-73, Cl. 417-501.000.

Veretto, Donald E. Stalk shredder. 3,762,137, 10-2-73, Cl. 56-13.300.

Verfahrenstechnik Dr. Ing., K.: *See—*
Baum, Jeorg P., 3,743,264.

Verge, John Pomfret: *See—*
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Verge, John Pomfret; and Hughes, Peter Graham, to Lilly Industries, Limited. 5-Nitro-2-thiocarbamyl thiazole. 3,736,329, 5-29-73, Cl. 260-302.00r.

Verge, Kenneth W.: *See—*
Read, Ronald G.; Sikora, Norbert L.; and Verge, Kenneth W., 3,736,078.
Royadjieff, George I.; and Verge, Kenneth W., 3,729,276.

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Vergiliev, Oleg Mikhailovich: *See—*
Benderovsky, Vladimir Valerianovich; Schepotiev, Alexandr Ivanovich; Yastrebov, Igor Alexandrovich; and Vergiliev, Oleg Mikhailovich, 3,761,037.

Vergnolle, Claude, to Thomson-CSF. Amplifiers of hybrid integrated subminiaturised circuit design. 3,715,677, 2-6-73, Cl. 330-31.000.

Vergnolle, Claude, to Thomson-CSF. Admittance-matching network for the parallel connection of wide-band active power elements. 3,764,940, 10-9-73, Cl. 333-8.000.

Verhagen, Cornelis M., to Datawell B.V. Acceleration meter. 3,768,317, 10-30-73, Cl. 73-516.000.

Verhagen, Edward L.: *See—*
Smith, Courtland N., Jr.; and Verhagen, Edward L., 3,751,745.

Verhagen, Jan: *See—*
Van Dijk, Leonardus Petrus Jozef; Flutsch, Georg; Korevaar, Geerlof Jan; and Verhagen, Jan, 3,745,561.

Verhagen, Jan, to U.S. Philips Corporation. Automatic level control device for use in telecommunication systems. 3,737,774, 6-5-73, Cl. 325-2.000.

Verhart, Willem Jan, to Martonair Limited. Electro magnetic valve. 3,722,531, 3-27-73, Cl. 137-271.000.

Verheij, Arend. Line float having line clamping means actuable by a pull on the line. 3,750,324, 8-7-73, Cl. 43-44.880.

Verheij, Cornelis Machiel: *See—*
Vervaart, Adrianus Petrus; Verheij, Cornelis Machiel; and Jongerius, Hermanus Maria, 3,780,327.

Verhellen, Norbert J. B., to Regal Manufacturing Company. Apparatus for rotating spindle at high speed. 3,718,050, 2-27-73, Cl. 74-206.000.

Verhille, Henri Albert Julia; and Donkers, Oswald Pieter Maria, to International Standard Electric Corporation. Automatic telecommunication switching system. 3,733,439, 5-15-73, Cl. 179-18.00e.

Verhille, Karel; and Conix, Andre Jan, to Agfa-Gevaert N.V. Method of producing and using a photoconductive recording medium. 3,725,061, 4-3-73, Cl. 96-1.800.

Verhille, Karel Eugeen: *See—*
Timmerman, Daniel Maurice; Van Paesschen, August Jean; and Verhille, Karel Eugeen, 3,708,289.

Verhille, Karel Eugeen; and Voet, Luciaan Frans. Inorganic photoconductive pigments in an alkali soluble binder containing a polymeric dispersing agent. 3,708,290, 1-2-73, Cl. 96-1.500.

Verhoeckx, Nicholaas Alphonsus Maria; Van Der Hoff, Herman; Vos, Cornelius Henricus Johannes; and Coenders, Johannes Wilhelmus, to U.S. Philips Corporation. Videophone system. 3,757,044, 9-4-73, Cl. 178-69.5tv.

Verhoeckx, Nicolaas Alphonsus Maria: *See—*
De Jager, Frank; Zegers, Leo Eduard; and Verhoeckx, Nicolaas Alphonsus Maria, 3,758,861.
Metzenthen, William Edward; and Verhoeckx, Nicolaas Alphonsus Maria, 3,764,991.

Verhoeve, Gerrit W.: *See—*
Katz, Ira; Wilson, Richard A.; Evers, William J.; Vock, Manfred H.; and Verhoeve, Gerrit W., 3,726,692.

Verhoeven, Albert F., to Werner Lehara, Inc. Rotating paste depositor. 3,712,264, 1-23-73, Cl. 118-25.000.

Verhoeven, Laurentius Maria: *See—*
Kreutzelman, Harm; and Verhoeven, Laurentius Maria, 3,735,070.

Verhoeven, Leonardus Adrianus Johannes, to U.S. Philips Corporation. Frequency divider. 3,721,904, 3-20-73, Cl. 328-39.000.

Verhulst, Antonius Gerardus Hendrikus; Holtwijk, Theodoor; Lems, Willem; and Enz, Ulrich Ernst, to U.S. Philips Corporation. Magnetisable material for detecting and/or recording electromagnetic radiation and electrons. 3,751,663, 8-7-73, Cl. 250-472.000.

Veriflo Corporation: *See—*
Ollivier, Louis A., 3,756,229.

Vering, Antonius; Kluger, Alois; and Eiring, Karl, to Polysius AG. Traveling grate. 3,759,369, 9-18-73, Cl. 198-140.000.

Verkaik, Arie; and Funcke, Cornelis Leendert Onderzoek ten behoeve van Nijverheid, Handel en Verkeer Onderzoek Ten Behoeve Van Nijverheid. Device for the manufacture of a branch to a straight tube. 3,712,097, 1-23-73, Cl. 72-60.000.

Verkhovtsev, Emily Vladimirovich: *See—*
Paton, Boris Evgenievich; Tseltkov, Alexandr Ivanovich; Lakomsky, Viktor Iosifovich; Grigorenko, Georgy Mikhailovich; Zabarilo, Oleg Semenovich; Melnik, Gary Alexandrovich; Ponomarev, Nikolai Alexeevich; Verkhovtsev, Emily Vladimirovich; and Bakumenko, Serei Panteleevich, 3,723,630.

Verkinderen, Paul August: *See—*
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Verleur, Hans Willem: *See—*
Derick, Lincoln; Jordan, Andrew Stephen; and Verleur, Hans Willem, 3,751,309.

Verlinde, Auguste; and Dorot, Henri, to Verlinde S.A. Servo-control device for varying the delivery and direction of distribution of a variable delivery pump. 3,750,406, 8-7-73, Cl. 60-442.000.

Verlinde S.A.: *See—*
Verlinde, Auguste; and Dorot, Henri, 3,750,406.

Vermeer, Dick Charles; and Washington, James MacKnight, to Allied Chemical Corporation. Electronic-pneumatic yarn plug control for yarn texturing device. 3,777,338, 12-11-73, Cl. 28-1.700.

Vermeer, Gary J. Method and machine for forming a large round bale of a fibrous material. 3,722,197, 3-27-73, Cl. 56-341.000.

Vermes, Roy E.; Nebeling, Robert L.; and Knecht, John E., to Continental Can Company, Inc. Automatic partition cutting machine. 3,727,495, 4-17-73, Cl. 83-35.000.

Vermeulen, Emile R., to Sidaplax. Closuring containers. 3,724,161, 4-3-73, Cl. 53-42.000.

Vermeulen, Johannes C., to International Business Machines Corporation. Multiphase tachometer. 3,757,128, 9-4-73, Cl. 250-231.0se.

Vermeulen, Marinus C.: *See—*
Smith, Ian E.; Hastwell, Peter J.; and Vermeulen, Marinus C., 3,776,632.
Smith, Ian Edward; Hastwell, Peter John; and Vermeulen, Marinus C., 3,741,643.
Smith, Ian Edward; Hastwell, Peter John; and Vermeulen, Marinus C., 3,757,081.

Vermilion, Everette F.; Seeley, Eugene B.; and Lefcort, Malcolm D., to Sector Corporation. System and method for printing alpha-numerics and graphics. 3,711,646, 1-16-73, Cl. 178-25.000.

Vermolen, Johannes Volkert, to U.S. Philips Corporation. Direct-current converter. 3,777,248, 12-4-73, Cl. 321-2.000.

Vermont American Corporation: *See—*
Knox, John D., 3,739,825.
Leonard, Donald L., 3,775,792.
McCord, Wilfred M., Jr., 3,724,519.
Novosel, Thomas A.; and Erskine, Donald O., 3,767,544.

Vermont Marble Company: *See—*
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Vernaleken, Hugo: *See—*
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Vernay Laboratories, Inc.: *See—*
Gifford, Robert T., 3,719,322.





Gifford, Robert T., 3,727,629.





Vertin, Thomas D. Machine element drive means including a gear

Vestre, Rasmus, to Norsk Hydro A.S. Tube bundle heat exchanger

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Gifford, Robert T., 3,771,556.

Vernco Corporation: *See—*
Barnstead, John W.; and Wiseman, Everett D., 3,730,642.
Barnstead, John W., 3,758,231.
Hult, David R., 3,760,209.

Verne, Stefan; and Heggs, Thomas Geoffrey, to British Insulated Callender's Cables Limited. Electric cables with ethylene-propylene insulation. 3,737,557, 6-5-73, Cl. 174-23.00r.

Verner, Dalton R., to Elox, Inc. Short circuit protection system for electrical discharge machining apparatus. 3,717,741, 2-20-73, Cl. 219-69.00c.

Verner, Dalton R., to Elox Inc. Polarity reversal system for electrical discharge machining apparatus. 3,732,392, 5-8-73, Cl. 219-69.00c.

Verner, Dalton R., to Colt Industries Operating Corporation. Polarity reversal system for electrical discharge machining apparatus. 3,775,578, 11-27-73, Cl. 219-69.00c.

Vernet, Francis. Insulating printed-circuit board having pin-shaped connecting members. 3,780,211, 12-18-73, Cl. 174-68.500.

Verneuil, Pierre J. Highly conductive adjustable electrodes. 3,726,781, 4-10-73, Cl. 204-286.000.

Vernitron Corporation: *See—*
Berlincourt, Don A.; and Horvath, David J., 3,729,288.
Berlincourt, Don A.; and Schweitzer, Earl O., 3,730,672.
Carlstein, Joseph, 3,723,986.
Fertik, Ira J., 3,713,443.

Vernitron Corporation, mesne: *See—*
Berlincourt, Don A.; and Sliker, Lawrence S., 3,736,446.
Berlincourt, Don A., 3,764,848.

Vernitron Medical Products, Inc.: *See—*
Fertik, Ira J.; Huck, Charles M.; and Ashley, Charles R., 3,768,478.
Zimmerman, Lester, 3,741,395.

Vernon Company, The: *See—*
Woofter, Cecil B., 3,718,261.
Woofter, Cecil B., 3,744,623.

Vernon Instruments Company Limited: *See—*
Mac Donald, William, 3,766,474.

Vernon, Lonnie W.; and Pennington, Robert E., to Esso Research and Engineering Company. Hydrotreating of hydrocarbonaceous liquids with carbon monoxide-containing treat gas. 3,719,588, 3-6-73, Cl. 208-209.00r.

Vernon Tool Company: *See—*
Blackburn, Marvin J., 3,718,017.

Vernooy, Burton, to Williamson, T. D., Inc. Pipeline pig. 3,732,625, 5-15-73, Cl. 33-141.500.

Vernooy, Thomas Maria, to Koninklijke Fabriek Inventuor Fabriek voor Machines en Elektrische Apparaten N.V. Machine for making coffee and the like. 3,754,463, 8-28-73, Cl. 99-295.000.

Vernot, Ralph T.; and Neill, Jimmie, to OCR Systems, Inc. Optical scanner and signal processing system. 3,747,066, 7-17-73, Cl. 340-146.3ag.

Vero Electronics Limited: *See—*
Saunders, Derek, 3,764,954.

Veroli, Gianfranco: *See—*
Sianesi, Dario; Bernardi, Giancarlo; and Veroli, Gianfranco, 3,721,638.
Sianesi, Dario; Bernardi, Giancarlo; and Veroli, Gianfranco, 3,755,235.

Veronese, Antonio: *See—*
Basso, Eugenio; Gulino, Giacomo; and Veronese, Antonio, 3,736,463.

Veronesi, Mario Nino, to Sterilplast S.p.A. Disposable blood dialyser unit. 3,730,351, 5-1-73, Cl. 210-321.000.

Verrelli, Gerard Louis, Jr.: *See—*
Kazmierski, John, Jr.; Lawson, Benjamin, Jr.; Thornton, Craig Edward; and Verrelli, Gerard Louis, Jr., 3,730,566.

Verreyne, Abraham Jacob; Job, Leonard Austin; Rerolle, Paul; and Richter, Johan Christoffer Carl, to South African Pulp and Paper Industries Limited, L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude and Aktiebolaget-Kamyr. Delignification and bleaching of cellulose pulps with oxygen gas. 3,742,735, 7-3-73, Cl. 68-5.00d.

Verri, Anna Maria: *See—*
Verri, Guido; and Verri, Anna Maria, 3,740,189.
Verri, Guido; and Verri, Anna Maria, 3,762,864.

Verri, Guido; and Verri, Anna Maria. Process for the treatment of woolen materials and blends thereof. 3,740,189, 6-19-73, Cl. 8-128.00r.

Verri, Guido; and Verri, Anna Maria. Process for the treatment of woolen materials and blends thereof. 3,762,864, 10-2-73, Cl. 8-128.000.

Verrien, Jean Prudent Fernand Rene: *See—*
Marchal, Philippe Albert Hippolyte; Simonnet, Jacques Louis Paul: Mordchelles Regnier, Georges; and Verrien, Jean Prudent Fernand Rene, 3,748,826.

Verroen, Gerardus A. M.: *See—*
Van Daalen, Francois; Van Steveninck, Johannes; and Verroen, Gerardus A. M., 3,763,656.

Verrone, Louis: *See—*
Steinberg, Max; Elian, Arthur; Verrone, Louis; and Klingenberg, Roger, 3,738,235.

Vers, Rudi, to Fichtel & Sachs AG. Method of assembling a resilient tube with a rigid body. 3,744,123, 7-10-73, Cl. 29-520.000.

Versa Wall Inc.: *See—*
Totoonchie, Edward Peter, 3,766,696.

Versaci, Antonio A.: *See—*
Versaci, Antonio A.; and Zucchino, Paul (said Jucchino assor. to said), 3,739,636.

Versaci, Antonio A.; and Zucchino, Paul, said Jucchino assor. to said Versaci, Antonio A. Linear readout flowmeter. 3,739,636, 6-19-73, Cl. 73-194.00e.

Versadyne, Inc., mesne: *See—*
Moore, Wilcy I.; and LaFond, Gerard L., 3,757,887.

Versar Inc.: *See—*
Tidman, Derek A., 3,775,638.
Vaill, Jack Roy, 3,719,829.

Versari, Werner Rio; and Kirstein, Lothar, to Schneider, Jos., & Co. Optische Werke. Servo valve. 3,747,570, 7-24-73, Cl. 137-625.640.

Versatec, Inc.: *See—*
Lloyd William A., 3,729,123.

Versatile Manufacturing Ltd.: *See—*
Pakosh, Peter, 3,712,403.

Verschage, Richard A.; Kerby, Donald L.; Wilson, Carl H.; and Hazel, Thomas R., to Huster Company. Folding gooseneck trailer. 3,756,443, 9-4-73, Cl. 214-506.000.

Verschoof, Jelis. Device for preventing a body depending from ropes from swinging. 3,743,107, 7-3-73, Cl. 212-125.000.

Verschoof, Jelis, to Werf Canrad & Strok Hysch N.V. Device for guiding a body suspended from ropes when lowering said body. 3,744,651, 7-10-73, Cl. 214-41.000.

Verschueren, Guy A. J. M. G. H., to International Standard Electric Corporation. Signalling network for automatic telecommunication switching system. 3,730,974, 5-1-73, Cl. 178-3.000.

Verseef, Jan H.: *See—*
Henry, David M.; and Verseef, Jan H., 3,762,077.

Verses, Christ J.: *See—*
Shapiro, Jonathan S.; Verses, Christ J.; and Karlson, Eskil L., 3,719,017.

Versluis, Rueland; Schinkelsh, Jacob; and Schuurman, Peter J., to Shell Oil Company. Gas treating apparatus. 3,747,308, 7-24-73, Cl. 55-387.000.

Versnel, John: *See—*
Green, Joseph; and Versnel, John, 3,730,942.

Versnel, John, to Cities Service Company. Polymerization process. 3,721,634, 3-20-73, Cl. 260-2.jfp.

Versnel, John; and Green, Joseph, to Cities Service Company. Flame retardant composition. 3,730,940, 5-1-73, Cl. 260-41.00a.

Verson Allsteel Press Company: *See—*
Luenser, Kurt K., 3,730,313.

Versoy, Irving R., 1/3 to Kreske, Walter J. Torque device for winches and the like. 3,712,431, 1-23-73, Cl. 192-12.00b.

Versoy, Irving R., 1/3% to Kreske, Walter J. Torque device for winches and the like. 3,726,371, 4-10-73, Cl. 192-12.0ba.

Verspui, Gerrit: *See—*
Knippenberg, Wilhelmus Franciscus; and Verspui, Gerrit, 3,721,848.
Knippenberg, Wilhelmus Franciscus; and Verspui, Gerrit, 3,772,774.

Versteeg, Gijsbert, to Imex A.G. Process for the production of reinforcement. 3,748,720, 7-31-73, Cl. 29-471.300.

Verstegen, Johannes D.M.; and Van Nassau, Petrus J.M., to Stamicarbon N.V. Process for separating melamine from a hot synthesis gas mixture which contains melamine vapor. 3,711,479, 1-16-73, Cl. 260-249.70p.

Verstegen, Willi, to International Standard Electric Corporation. Arrangement for TDM telecommunication between PCM switching networks. 3,725,590, 4-3-73, Cl. 179-15.0bs.

Verstegen, Willi, to International Standard Electric Corporation. Time division multiplex exchanges. 3,752,931, 8-14-73, Cl. 179-15.0aq.

Verta Group, Inc., The: *See—*
Fink, Roy W., 3,751,789.

Verta-Tronics, Inc.: *See—*
Beiswinger, Wayne J.; and Witte, Walter R., 3,729,691.

Vertanen, George J.: *See—*
Kamlukin, Igor; Stevenson, William L.; Vertanen, George J.; and Freier, Edward Jr., 3,766,722.
Stevenson, William L.; and Vertanen, George J., 3,780,455.

Vertegaal, Jacobus G., to Stork Amsterdam N.V. Screen printing machine with adjustable bridge. 3,718,086, 2-27-73, Cl. 101-115.000.

Vertegaal, Jacobus Gerardus, to Stork Amsterdam N.V. Device for making a cut into the body of poultry. 3,744,087, 7-10-73, Cl. 17-11.000.

Vertesy, Laszlo; Prave, Paul; and Sukatsch, Dieter, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Antibiotic proticin. 3,767,799, 10-23-73, Cl. 424-122.000.





Vertin, Thomas D. Machine element drive means including a gear rack assembly of individual square teeth. 3,720,114, 3-13-73, Cl. 74-424.600.

Vertin, Thomas D. Machine element drive means. 3,720,115, 3-13-73, Cl. 74-424.600.

Vertin, Thomas D. Apparatus for making master models. 3,763,743, 10-9-73, Cl. 90-13.00b.

Vervaart, Adrianus Petrus; Verheij, Cornelis Machiel; and Jongerius, Hermanus Maria, to U.S. Philips Corporation. Glow discharge starter. 3,780,327, 12-18-73, Cl. 313-151.000.

Verwey, Cornelis W. J.: *See—*
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Verwey, William: *See—*
Stanton, Stephen; Varholy, Edward; and Verwey, William, 3,747,827.

Verwolf, David H.: *See—*
Bisinger, John M.; and Verwolf, David H., 3,775,864.

Vesamaa, Erkki, to Valmet Oy. Indicator of cocked position in a firearm to be opened by breaking. 3,710,491, 1-16-73, Cl. 42-1.00c.

Vesamaa, Erkki, to Valmet Oy. Firing mechanism for hunting fire arm with two barrels. 3,757,446, 9-11-73, Cl. 42-42.00r.

Vescio, Kimbel L.: *See—*
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Vesely, Jerome A.; and Hervert, George L., to Universal Oil Products Company. Hydroxylation of aromatic acids. 3,758,562, 9-11-73, Cl. 260-520.000.

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Vesely, Kenneth Donald; and Greenwood, Arthur Raymond, to Universal Oil Products Company. Continuous reforming-regeneration process. 3,725,249, 4-3-73, Cl. 208-139.000.

Vesely, Miloslav; Bohac, Zdenek; and Vondrak, Frantisek, to Vyzkumny ustav organickysk syntez. Through-flow polarographic analyzer having constant flow facilities. 3,750,460, 8-7-73, Cl. 73-61.10r.

Vesily, Kenneth D.: *See—*
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Vessey, Clifford A.; Gibson, Geoffrey M.; and Holker, Kenneth U., to Associated Chemical Companies Limited. Anti-corrosive coating compositions. 3,719,534, 3-6-73, Cl. 148-6.200.

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Vest, Glenn E., to General Electric Company. Louver air cleaner. 3,771,293, 11-13-73, Cl. 55-319.000.

Vest, James C., Jr. High pressure blow-off valve protector. 3,728,848, 4-24-73, Cl. 55-387.000.

Vestal, Charles R., to Marathon Oil Company. Process for preparing polyisocyanates which involves selective precipitation of inorganic salts. 3,755,401, 8-28-73, Cl. 260-453.00p.

Vestal, George W., to S & V Plastics Incorporated. Tube closure member. 3,744,528, 7-10-73, Cl. 138-89.000.

Vesterling, Karin, to Bosch, Robert, G.m.b.H. Circuit board arrangement including socket members mounted on the circuit board for holding capacitors having rounded bottoms. 3,714,514, 1-30-73, Cl. 317-101.00c.

Vestre, Rasmus, to Norsk Hydro A.S. Tube bank heat exchanger and unit of such heat exchangers. 3,749,160, 7-31-73, Cl. 165-143.000.

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Vetter, Ottomar H., to TRW Inc. Preloaded electrical connector. 3,750,087, 7-31-73, Cl. 339-90.00r.

Vetter, Peter Roman: *See—*
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Vezina, Claude; Saucier, Rene; and Sehgal, Surendra N., to American Home Products Corporation. Process for the preparation of antimycin A. 3,746,623, 7-17-73, Cl. 195-80.000.

Via, Carlo, to Societa' Applicazioni Homma Antivibranti Saga S.p.A. Flexible torque transmission couplings. 3,750,422, 8-7-73, Cl. 64-11.00r.

Via, William F., Jr. Dentistry bite or prop block. 3,722,101, 3-27-73, Cl. 32-40.00r.

Viadana, Sergio, to Olivetti, Ing., C., & C., S.p.A. Device for moulding sintering blanks. 3,752,622, 8-14-73, Cl. 425-78.000.

Vial, Georges, to Elvico S.A. Watch case cover spring. 3,765,165, 10-16-73, Cl. 58-101.000.

Vial, Theodore Merriam, to American Cyanamid Company. Process for curing carboxylated latex with a co-reactive resin using tetraamminezinc(II) salts. 3,743,612, 7-3-73, Cl. 260-2.50l.

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Vian-Ortuno, Angel; and Martin-Municio, Vicente, to Empresa Auxiliar de la Industria S.A. Apparatus for interacting particulate material with gas. 3,745,668, 7-17-73, Cl. 34-57.00a.

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Viarengo, Alberto; and Pasculli, Raffaele. Process for continuously separating glycerides. 3,755,390, 8-28-73, Cl. 260-428.500.

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Vicent, Charles S., Jr.; and VanPatten, John R., to General Electric Company. Magnetically positioned coding device. 3,739,181, 6-12-73, Cl. 250-219.00d.
Vicent, Fernando Suarez, to Manuel Lainz S.A. Template for tracing small and capital letters and numbers. 3,716,921, 2-20-73, Cl. 33-174.00b.
Vick, Charles B.; and Walker, Roy M., to United States of America, Agriculture. Underlayment fastening device. 3,717,067, 2-20-73, Cl. 85-21.000.
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Vickstrom, Donald E.; and Swenck, George F., to Reynolds Metals Company. Connector-spacer and floor construction using same. 3,721,215, 3-20-73, Cl. 119-28.000.
Vickstrom, Donald E.; and Swenck, George F., to Reynolds Metals Company. Floor construction and member for making same. 3,722,473, 3-27-73, Cl. 119-28.000.
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Victor, Irving, to Research Development Co. Process for the cleansing of garments and textiles. 3,728,074, 4-17-73, Cl. 8-142.000.
Victor Metal Products Corporation: *See—*
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Victoreen, John A. Audio oscillator for generating either C.W. damped wave trains, or narrow band noise. 3,755,755, 8-28-73, Cl. 331-78.000.
Victorino, Frank, to Lee, Raymond, Organization, Inc., The. Propeller positioning device. 3,773,312, 11-20-73, Cl. 269-50.000.
Victorius, Claus, to Du Pont de Nemours, E. I., and Company. Flexible thermosetting acrylic coating compositions. 3,773,710, 11-20-73, Cl. 260-41.00b.
Victory, Ebrahim, to Pulsation Corporation. Irrigation apparatus. 3,769,976, 11-6-73, Cl. 128-229.000.
Victory, Ebrahim, to Pulsation Corporation. Hygienic irrigator. 3,769,977, 11-6-73, Cl. 128-229.000.
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Vida, Julius A.; and Wilber, William R., to Kendall Company, The. N,N-dihalomethyl phenobarbital for the treatment of convulsions. 3,711,607, 1-16-73, Cl. 424-254.000.
Vida, Julius A., to Kendall Company, The. Acyloxymethyl derivatives of phenobarbital and barbital in treating convulsions. 3,767,798, 10-23-73, Cl. 424-254.000.
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Vidal, Jean; Lugand, Paul Henri; Lemoine, Jacques; and Parisot, Jean, to Societe Generale de Constructions Electriques et Mecaniques (Alsthom) and Stein Industries. Method and means for improving the operation under partial loads of a steam gas plant incluing a gas turbine and a stream turbine with a steam generator at the downstream end. 3,742,708, 7-3-73, Cl. 60-67.000.
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Vidal Sario, Javier, to Perfil En Frio, S.A. Method for the manufacture of thermally insulated sandwich type building. 3,751,315, 8-7-73, Cl. 156-71.000.
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Videon, John A. Weighing devices. 3,780,817, 12-25-73, Cl. 177-136.000.
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Vidinsky, Alfred E. Masking tape applicator. 3,740,297, 6-19-73, Cl. 156-523.000.
Vidjak, Frank V.; and Mikalansky, Lothar, to Star-Kist Foods, Inc. Cooking tray set. 3,749,000, 7-31-73, Cl. 99-425.000.
Vidjak, Frank V., to Star-Kist Foods, Inc. Metering apparatus. 3,774,814, 11-27-73, Cl. 222-220.000.
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Viers, Charles S. Engine exhaust filter-muffler. 3,735,567, 5-29-73, Cl. 55-233.000.
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Viessmann, Hans. Swimming pool. 3,748,665, 7-31-73, Cl. 4-172.190.
Vieth, George, Jr., to Diamond-Square Industries, Inc., mesne. Anti-skid system and method. 3,743,361, 7-3-73, Cl. 303-21.0ch.
Vieth, Wolf R.; Wang, Shaw S.; Gilbert, Seymour G.; and Saini, Rakesh, to Research Corporation. Preparation of immobilized enzyme-membrane complexes by electro-codeposition. 3,758,396, 9-11-73, Cl. 204-181.000.
Vietor, Carl W. Ascent and descent slope tracker system. 3,752,967, 8-14-73, Cl. 235-150.270.
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Vieweg, Gunther; Kappius, Friedrich; Ott, Hans; and Wenk, Jurgen, to Siemens Aktiengesellschaft. Device for dampening oscillations in a midget motor. 3,720,852, 3-13-73, Cl. 310-90.000.
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Schneiderman, Abraham; and Wechsler, George G., 3,721,493.
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Viger, George P., Jr., to Signal Communications, Inc. Standby power source for an AC alarm system. 3,746,878, 7-17-73, Cl. 307-66.000.
Vigh, Alexander. Submersible crematory urn. 3,732,602, 5-15-73, Cl. 27-1.000.
Vigini, Giorgio, to Honeywell Information Systems Italia S.p.A. Actuating and confirming device for printing electromagnets. 3,740,615, 6-19-73, Cl. 317-148.50r.
Vigini, Giorgio, to Honeywell Information Systems Italia. Protection device for hammer driving circuits. 3,748,537, 7-24-73, Cl. 317-31.000.
Vigliante, Frank S., to Bell Telephone Laboratories, Incorporated. Short-range data processing transfers. 3,774,166, 11-20-73, Cl. 340-172.500.
Viglione, Gaetano Thomas. Plating tarnish-inhibited bright silver alloy. 3,738,920, 6-12-73, Cl. 204-43.000.
Viglione, Gaetano Thomas. Alloy of tin, silver and nickel. 3,778,259, 12-11-73, Cl. 75-134.00b.
Vigneault, Ronald R.: *See—*
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Vigo, Mario; and Buehler, Fritz A., to Mobil Oil Corporation. Organic compositions containing salts of amines and substituted acetic acids as corrosion inhibitors. 3,775,320, 11-27-73, Cl. 252-33.600.
Vigorito, Benito. Cigarette holder. 3,756,252, 9-4-73, Cl. 131-256.000.



Vigreux, Jacques; and Trolliet, Bernard, to Delle-Alsthom. Pressure fluid extinguishing device for a circuit breaker. 3,708,639, 1-2-73,
Garcia, Armando J.; Gunther, Gregory M.; and Villanueva, Juanito O., 3,716,942.

Vigreux, Jacques; and Trolliet, Bernard, to Delle-Alsthom. Pressure fluid extinguishing device for a circuit breaker. 3,708,639, 1-2-73, Cl. 200-148.00r.
Vik, Albam M., to Dempco, Inc. Hydraulic coupler with cam actuator. 3,710,823, 1-16-73, Cl. 137-594.000.
Vik, Albam M., to Dempco, Inc. Hydraulic coupler with pressure relief mechanism. 3,730,221, 5-1-73, Cl. 137-614.000.
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Gritsenko, Anna Nikitichna; Vikhlyaev, Jury Ivanovich; Zhuravlev, Semen Vladimirovich; Kaverina, Natalya Veniaminovna; Senova, Zlata Petrovna; and Ulyanova, Olga Vasilievna, 3,740,395.
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Vila, George R., to Uniroyal Inc. Tire building method. 3,756,882, 9-4-73, Cl. 156-111.000.
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Viland, Clare Kenneth. Preventing air pollution and improving safety of automobile and similar tanks. 3,747,800, 7-24-73, Cl. 220-85.00b.
Viland, Clare Kenneth. Method of preventing loss of hydrocarbons to atmosphere. 3,763,901, 10-9-73, Cl. 141-8.000.
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Vilenski, Dan: *See—*
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Vilkov, Vladimir Kirillovich: *See—*
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Villalobos, Luis F.; Harano, Allen A.; and Breinlinger, Richard H., to Conographic Corporation. Display system utilizing one or more conic sections. 3,721,810, 3-20-73, Cl. 235-151.000.
Villalobos, Richard, to Beckman Instruments, Inc. Apparatus for analyzing ambient air. 3,762,878, 10-2-73, Cl. 23-232.00e.
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Villani, Frank J., to Schering Corporation. Alpha-nicotinoyl phenylacetonitriles. 3,717,647, 2-20-73, Cl. 260-294.900.
Villani, Lydia. Panty hose hanger. 3,750,917, 8-7-73, Cl. 223-74.000.
Villani, Raymond D.: *See—*
Kurtzberg, Jerome M.; Rosenfeld, Jack L.; and Villani, Raymond D., 3,760,365.
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Villari, Frank K.; and Patel, Bhupendra C., to Kendall Company, The. Irrigation connector with shut-off valve. 3,707,972, 1-2-73, Cl. 128-349.00r.
Villari, Frank K., to Kendall Company, The. Integral edge structure for urine collection bags. 3,740,770, 6-26-73, Cl. 4-110.000.
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Villarroel, Fernando; and Joyce, James W., Jr., to United States of America, Army. Carbon dioxide concentration sensor. 3,756,068, 9-4-73, Cl. 23-23.000.
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Villasana, Armando P.: *See—*
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Villax, Ivan. Process of preparation of zi-sulfate and 21-phosphate esters of corticosteroids. 3,773,803, 11-20-73, Cl. 260-397.450.
Ville, Frans Jan; Willems, Jozef Frans; and Van Pee, Paul Desire, to Gevaert-Agfa N.V. Photosensitive silver halide emulsions comprising coating aids. 3,769,022, 10-30-73, Cl. 96-114.500.
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Villella, Tony R. Internal combustion engine. 3,739,756, 6-19-73, Cl. 123-44.00c.
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Villiers-Fisher, John F., to Chemical Construction Corporation. Removal of $SO_2$ from gas streams. 3,709,977, 1-9-73, Cl. 423-244.000.
Vilotti, Donald R. Supports for gymnastic beam. 3,722,881, 3-27-73, Cl. 272-60.000.
Vilotti, Donald Richard. Portable magnetic rack for guns, fishing rods and the like. 3,746,177, 7-17-73, Cl. 211-64.000.
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Kocher, Erich J., 3,710,590.
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Vinas, Maria Teresa Clermont. Device for the wet treatment of textile materials. 3,718,012, 2-27-73, Cl. 68-9.000.
Vincelette, Charles James, to Bell Telephone Laboratories, Incorporated. Array of focusing holograms. 3,719,409, 3-6-73, Cl. 350-3.500.



Vincens, Rene, to Societe d'Etude et de Promotion d'Enterprises. Lightweight composite building construction. 3,757,485, 9-11-73, Cl. 52-731.000.
Vincent, Andrew W. Circuit for rapid charging of a capacitor. 3,745,421, 7-10-73, Cl. 317-148.50b.
Vincent, Andrew W. Large diameter photographic shutter. 3,774,518, 11-27-73, Cl. 95-56.000.
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Vincent, Charles S., Jr., to General Electric Company. Solid state lamp having visible-emitting phosphor at edge of infrared-emitting element. 3,774,086, 11-20-73, Cl. 317-235.00r.
Vincent, Don B. Gas stream scrubber. 3,721,068, 3-20-73, Cl. 55-223.000.
Vincent, Douglas Lincolne. Training device including captive ball to be stauch by game club. 3,731,926, 5-8-73, Cl. 273-26.00e.
Vincent, Eric F. Natural ice rink mould. 3,721,418, 3-20-73, Cl. 249-1.000.
Vincent, James Henry, to American Standard, Inc. Electrostatic precipitator. 3,740,927, 6-26-73, Cl. 55-123.000.
Vincent, Jean Gabriel; and Thevenin, Claude Gabriel Jean, to International Standard Electric Corporation. Color TV focusing circuit. 3,766,429, 10-16-73, Cl. 315-31.00r.
Vincent, Meta Luella: *See—*
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Vincent, Philip Conrad; and Hinton, George Amos. Rotary internal combustion engines. 3,730,152, 5-1-73, Cl. 123-44.00r.
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Vincent, Renic P.; and Wilder, Lawrence B., to Amoco Production Company. Rotary percussion drilling motor. 3,712,387, 1-23-73, Cl. 173-73.000.
Vincent, Thomas C.; Friedman, Arnold; and Hickok, Robert L., to General Electric Company. Process of preparing porosity-free calcium halophosphate phosphors. 3,764,555, 10-9-73, Cl. 252-301.60p.
Vincenty, Henry Edward, to Euclid, Inc. Combustion air intake system for an off-the-road vehicle. 3,720,279, 3-13-73, Cl. 180-54.00a.
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Vines, Ellsworth, to Baltimore Brushes, Inc. Paint tray. 3,729,764, 5-1-73, Cl. 15-257.060.
Vines, George Ross. Printing machine. 3,762,322, 10-2-73, Cl. 101-228.000.
Vingas, George J., to Pneu-Veyor, Inc. Pneumatic conveying system and apparatus. 3,734,569, 5-22-73, Cl. 302-39.000.
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Vinton, Clarence Samuel; and Rice, Warren Albert, to Chemotronics International, Inc. Method for the removal of refractory porous shapes from mating formed materials. 3,743,692, 7-3-73, Cl. 264-334.000.
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Violette, Glenn M.; Paquin, Leon J.; and Lock, James A. Apparatus for extruding a film of thermoplastic material having predetermined zones of different film thickness. 3,738,790, 6-12-73, Cl. 425-467.000.
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Violleau, Andre; Coffy, Rene Louis; and Bancal, Bernard Robert Laurent Marie, to Societe Nationale Industrielle Aerospatiale. Apparatus for impregnating yarns, and more particularly glass yarns, with synthetic resins. 3,718,521, 2-27-73, Cl. 156-433.000.
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Viout, Andre; and Papantoniou, Christos, to Societe Anonyme dite: L'Oreal. Copolymer of N-vinyl pyrrolidone[vinyl ester] unsaturated monobasic carboxylic acid in a hair lacquer or lotion. 3,743,715, 7-3-73, Cl. 424-47.000.
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Vipond, Richard Gabriel. Pleating of sheet and textile materials. 3,712,520, 1-23-73, Cl. 223-34.000.
Vipond, Richard Gabriel. Device for securing textile or other material under tension. 3,751,771, 8-14-73, Cl. 24-248.0sl.
Viracola, Joseph R. Impact relief pressure switch for roadway vehicle detector. 3,721,784, 3-20-73, Cl. 200-86.00r.
Viret, Robert; and Pettavel, Jacques, to Societe Genevoise d'Instruments de Physique. High precision reading device of the graduations of a precision ruler. 3,715,645, 2-6-73, Cl. 318-603.000.
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Virkhaus, Rein, to Eastman Kodak Company. Stable free radicals and corresponding free radical precursors. 3,758,495, 9-11-73, Cl. 260-309.600.
Virkhaus, Rein, to Eastman Kodak Company. Heterocyclic photoconductors containing O, S or Se. 3,765,882, 10-16-73, Cl. 96-1.500.
Virnig, Sep Jacob. Ground anchor apparatus. 3,772,838, 11-20-73, Cl. 52-160.000.
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Viscardi, Frank. Apparatus for detecting ionization radiation emanating from a television receiver. 3,780,216, 12-18-73, Cl. 178-5.40r.
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Vischer, Alfred, Jr., to Vischer Products Company. Infrared cooking apparatus. 3,736,860, 6-5-73, Cl. 99-339.000.
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Vischulis, George. Web trimmer control. 3,719,114, 3-6-73, Cl. 83-74.000.
Vischulis, George. Target position detecting device having means to adjust response of photocells. 3,749,924, 7-31-73, Cl. 250-227.00r.
Vischulis, George. Optical detecting head. 3,758,784, 9-11-73, Cl. 250-227.000.
Vischulis, George, to Rockford Servo Corporation. Electro-pneumatic transducer. 3,768,772, 10-30-73, Cl. 251-129.000.
Viscolosi, Louis A., to International Agri-Systems, Inc. Method and apparatus for eviscerating poultry. 3,711,897, 1-23-73, Cl. 17-45.000.
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Vogel, Rudi Richard. Waste compacting apparatus. 3,734,005, 5-22-73, Cl. 100-52.000.
Vogel, Virgil J.: *See—*
Vogel, Virgil W.; and Vogel, Paul W., 3,711,298.
Vogel, Virgil W., deceased; and Vogel, Paul W., 3,713,847.
Vogel, Virgil W.; deceased (by Vogel, Virgil J.: co-executor); and Vogel, Paul W., to Bird Provision Co. Process for preparing packaged meat products for prolonged storage. 3,711,298, 1-16-73, Cl. 99-108.000.
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Vogel, Walter H., to Hayssen Manufacturing Company. Apparatus for cutting a web into sheets and positioning the sheets. 3,728,921, 4-24-73, Cl. 83-151.000.
Vogel, Xaver, to Aktiengesellschaft Brown, Boveri & Cie. Semiconductor unit and method of manufacture thereof. 3,740,618, 6-19-73, Cl. 317-234.00r.
Vogeleer, George B., to Reynolds Metals Company. Method and apparatus for forming a depression in a cover member of a container construction. 3,714,758, 2-6-73, Cl. 53-39.000.
Vogeleer, John P., to Westinghouse Electric Corporation. Power hammer with reaction force absorbing means. 3,750,764, 8-7-73, Cl. 173-43.000.
Vogelei, Robert A.; Kirkman, Richard W.; and Williams, Alverson B., to General Motors Corporation. Sequentially operating linear actuator. 3,732,784, 5-15-73, Cl. 92-65.000.
Vogelenzang, Alexander Jan. Mowing apparatus. 3,763,638, 10-9-73, Cl. 56-293.000.
Vogelgesang, Peter J.: *See—*
Perrington, Kenneth J.; Vogelgesang, Peter J.; and Knudsen, James K., 3,761,311.
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Vogelgesang, Peter J., to Minnesota Mining and Manufacturing Company. Steel object having hidden magnetically readable identification and the method for applying the identification. 3,755,730, 8-28-73, Cl. 324-34.00r.
Vogelhuber, Fred W.: *See—*
Vogelhuber, Fred W.; Vogelhuber, Heather; and McMillan, Gilman C., 3,724,677.
Vogelhuber, Fred W.; Vogelhuber, Heather; and McMillan, Gilman C., 1/2 to Vogelhuber, Fred W., Vogelhuber, Heather; jointly, and 1/2 to Moss, Gene D. Portable garment rack and blank therefor. 3,724,677, 4-3-73, Cl. 211-96.000.
Vogelhuber, Heather: *See—*
Vogelhuber, Fred W.; Vogelhuber, Heather; and McMillan, Gilman C., 3,724,677.
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Vogelhuber, Fred W.; Vogelhuber, Heather; and McMillan, Gilman C., 3,724,677.
Vogeli, Ernst, to Sulzer Brothers Limited. Valve arrangement having two valves in a common housing and use of the arrangement in a vapor generating and utilizing plant. 3,734,134, 5-22-73, Cl. 137-637.200.
Vogellaar, Bernard Francis: *See—*
Jennings, Teari James; Vogellaar, Bernard Francis; and Lamp, Robert, 3,736,732.
Vogelman, Joseph H.; and Feinerman, Bernard, to Chromalloy American Corporation. Patient signal dispatcher. 3,727,190, 4-10-73, Cl. 340-172.500.
Vogelman, Joseph H.; and Kamen, Ira, to Theatre Vision, Inc. Technique for encoding and decoding scrambled T.V. transmissions by the simultaneous transmission of the encoding and decoding signals. 3,736,369, 5-29-73, Cl. 178-5.100.
Vogelsang, Francis H., to Maalschappij van Berkel's Patent N.V. Meat tenderizer. 3,716,893, 2-20-73, Cl. 17-26.000.
Vogelsang, Gustav, to Volkswagenwerk Aktiengesellschaft. Cylinder arrangement having a precombustion chamber for combustion engines. 3,738,333, 6-12-73, Cl. 123-32.0sp.
Vogelsang, Paul G., Jr.: *See—*
Stanford, James R.; and Vogelsang, Paul G., Jr., 3,728,419.
Stanford, James R.; and Vogelsang, Paul G., Jr., 3,728,420.
Stanford, James R.; and Vogelsang, Paul G., Jr., 3,739,047.
Stanford, James R.; and Vogelsang, Paul G., Jr., 3,755,503.
Vogelsberg, Robert E., to International Business Machines Corporation. Failure activity determination technique in fault simulation. 3,715,573, 2-6-73, Cl. 235-153.0ac.
Vogelsberg, Walter H.: *See—*
Laughinghouse, Charles L.; and Vogelsberg, Walter H., 3,761,774.
Vogenthaler, Richard L.; and Margoshes, Marvin, to Block Engineering, Inc. Selectively read electro-optical imaging system. 3,728,576, 4-17-73, Cl. 315-10.000.
Voges, George A. Workholding fixture for machine tools. 3,774,133, 11-20-73, Cl. 335-286.000.
Voges, Kenneth, to Red Bud Industries, Inc. Sheet transferring device and method. 3,753,522, 8-21-73, Cl. 226-141.000.
Voges, William R.; and Hodges, Earl J., to Roesch Enamel & Mfg. Co. Gas fireplace unit. 3,760,790, 9-25-73, Cl. 126-92.00r.
Voget, Ronald F., to Agridustrial Electronics, Inc. Means for measuring loss tangent of material for determining moisture content. 3,778,707, 12-11-73, Cl. 324-61.00r.
Vogiatzis, John P.: *See—*
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Vogl, Norbert G., Jr.: *See—*
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Vogl, Otto F. Chloral copolymers. 3,775,371, 11-27-73, Cl. 260-67.0tn.
Vogler, Charles W.: *See—*
Frye, James A.; Morton, Ralph B.; and Vogler, Charles W., 3,780,675.
Vogler, Paul: *See—*
Hyde, Richard E.; Vogler, Paul; Morelli, Dino; and Carmichael, Lee T., 3,762,768.
Vogler, Robert L.: *See—*
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Voglesonger, Harry M., to Dynamics Corporation of America. Motor brush assembly. 3,710,160, 1-9-73, Cl. 310-247.000.
Vogt, Christian: *See—*
Schmitz, Gunther; Weber, Hans; and Vogt, Christian, 3,719,542.
Vogt, Clifford M.; and Polise, Joseph C., to Celanese Corporation. Apparatus for producing spray spun nonwoven sheets. 3,752,613, 8-14-73, Cl. 425-80.000.
Vogt, Clifford M. Method for improving physical properties of spray spun fibrous sheet materials. 3,772,417, 11-13-73, Cl. 264-230.000.
Vogt, Edwin: *See—*
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Vogt, Gerd; Kurth, Johannes; and Glaser, Josef, to Mannesmann Aktiengesellschaft. Method for internal cooling of cast tubes. 3,713,478, 1-30-73, Cl. 164-85.000.
Vogt, Gerd; Wunnenberg, Klaus; and Dubendorff, Joachim, to Mannesmann Aktiengesellschaft. Method of continuous casting of steel using an oscillating mold. 3,721,288, 3-20-73, Cl. 164-83.000.
Vogt, Gerd, to Mannesmann Aktiengesellschaft. Apparatus for controlling the pressure force in multi-roll drives for equipment withdrawing an ingot from a continuous casting machine along a curved path. 3,776,298, 12-4-73, Cl. 164-154.000.
Vogt, Gottfried F., to United States of America, Army. Modulation of polarization orientation and concurrent conventional modulation of the same radiated carrier. 3,760,274, 9-18-73, Cl. 325-26.000.
Vogt, Gunther, to L'Oreal. Permanent waving of hair with quaternary ammonium alkylating agents and ammonium thioglydolate. 3,760,819, 9-25-73, Cl. 132-7.000.
Vogt, Hans Josef, to Girling Limited. Hydraulic braking systems for vehicles. 3,727,990, 4-17-73, Cl. 303-6.00c.
Vogt, Hans Josef, to Girling Limited. Hydraulic braking systems for vehicles. 3,770,326, 11-6-73, Cl. 303-6.00c.
Vogt, Herbert: *See—*
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Weiske, Wolfgang; and Vogt, Herbert, 3,743,896.
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Davis, Pauls; and Vogt, Herwart C., 3,763,134.
Vogt, Herwart C.; and Lajiness, Wayne G., to BASF Wyandotte Corporation. Process for preparing polyurethanes in an isocyanate-reactive solvent solution. 3,719,621, 3-6-73, Cl. 260-30.40n.
Vogt, Horst Dieter, to Ciba-Geigy AG. Arrangement for sensing-damage to the edge portions of a film. 3,744,308, 7-10-73, Cl. 73-157.000.
Vogt, Horst Dieter; and Schnellmann, Oskar, to Gretag Aktiengesellschaft. Apparatus for loading an automatic film processing unit. 3,753,486, 8-21-73, Cl. 198-131.000.
Vogt, James B. Vertically-adjustable drawer suspension. 3,716,284, 2-13-73, Cl. 312-339.000.
Vogt, James Lee, to Deere & Company. Gauge wheel mounting for a harvester. 3,771,302, 11-13-73, Cl. 56-364.000.
Vogt, Kenuo. Electrical splice. 3,745,228, 7-10-73, Cl. 174-88.000.
Vogt, Kuno J. Compartmented key holder. 3,765,200, 10-16-73, Cl. 70-456.00r.
Vogt, Kuno J. Canine feces disposal mechanism. 3,777,708, 12-11-73, Cl. 119-1.000.
Vogt, Kurt; and Maillard, Poland, to Omega Louis Brandt & Frere S.A. Calendar-watch. 3,713,287, 1-30-73, Cl. 58-58.000.
Vogt, Norman H. Weight scale structure. 3,743,039, 7-3-73, Cl. 177-16.000.
Vogt, Paul, to Ebauches Electroniques S.A. Numerical counter with coaxial display drums. 3,738,570, 6-12-73, Cl. 235-133.00r.
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Vogt, Wilhelm; Sennewald, Kurt; and Glaser, Hermann, to Knapsack Aktiengesellschaft. Production of glycerol acetates. 3,754,020, 8-21-73, Cl. 260-491.000.
Vogts, Axel: *See—*
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Voice, Eric Handley: *See—*
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Voice, Eric Handley; Graham, Leslie Wilfred; and Sturge, Derek William James, to United Kingdom Atomic Energy Authority. Method of making nuclear fuel-containing bodies. 3,708,559, 1-2-73, Cl. 264-.500.
Void, Lester R., to Electro-Mechanical Instrument Div., VLN Corporation. Induction ammeter with self induced restoring torque. 3,777,265, 12-4-73, Cl. 324-146.000.
Voige, L. H.: *See—*
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Voigt, Gunter: *See—*
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Voigt, Gunter; and Metzler, Norbert, to Braun Aktiengesellschaft. Dryshaver with removable long-hair cutter assembly. 3,729,821, 5-1-73, Cl. 30-34.100.
Voigt, H. William, Jr.: *See—*
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Voigt, H. William, Jr.; Gulbierz, Joseph; and Yearwood, Charles, to United States of America, Army. Blast shield for explosive devices including linear shaped charges. 3,712,221, 1-23-73, Cl. 102-24.0hc.
Voigt, Hartman; Schneck, Erich; Gunther, Klaus; and Noha, Klaus, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for recovering heat from gas mixtures obtain by the thermal cracking of hydrocarbons. 3,725,491, 4-3-73, Cl. 60-679.00r.



Voigt, Hartmut: *See—*
Burba, Christian; Drawert, Manfred; Voigt, Hartmut; and Pogoretsky, Georgy Ivanovich; Volgin, Leonid Alexandrovich;



Volkrodt, Wolfgang, to Siemens Aktiengesellschaft. Individual drive
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Voigt, William L., to Western Electric Company, Incorporated. Resilient mounts for supporting posts. 3,713,611, 1-30-73, Cl. 248-44.000.

Voigtlaender, Herbert, to Schenck, Carl, Maschinenfabrik GmbH, Firma. Discharge head for a bin, especially a bulk metering bin. 3,719,290, 3-6-73, Cl. 214-17.00d.

Voigtlander, Wolfgang: *See—*
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Voigtlander, Wolfgang; and Kaiser, Fritz, to Boehringer Mannheim Gesellschaft mit beschrankter Haftung. Preparation of monomethyl ethers of digoxin. 3,712,884, 1-23-73, Cl. 260-210.500.

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Voith Getriebe KG: *See—*
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Vojir, Frank S.: *See—*
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Vojkovic, Milos, to Continental Ore Corporation, mesne. Beneficiation of vanadium-containing materials. 3,753,681, 8-21-73, Cl. 75-1.000.

Vojkovic, Milos, to Continental Ore Corporation. Recovery of refractory metal values. 3,758,665, 9-11-73, Cl. 423-56.000.

Vokes, Robert C.; and Saarima, William A., to Concep Machine Co., Inc. Core handling system. 3,772,756, 11-20-73, Cl. 29-211.00r.

Voland, Dieter; and Scheer, Erich, to Kieninger & Oberfell, Firma. Electric program switch for automatic appliance. 3,725,618, 4-3-73, Cl. 200-46.000.

Voland, Elmo W.: *See—*
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Voland, Elmo W.; Simmons, Harold T.; and Kurt, Pauker, to Mallory, P. R., & Co., Inc. Cam operated program timer assembly with replaceable leaf spring contact structure. 3,727,015, 4-10-73, Cl. 200-38.00r.

Voland, Elmo W.; and Mullikin, Noel C., to Mallory, P. R., & Co., Inc. Multiple integral timers with improved housing support plate. 3,732,383, 5-8-73, Cl. 200-38.00r.

Volbehr, Hartwig, to Webasto-Werk W. Baier KG. Heater for vehicles. 3,779,229, 12-18-73, Cl. 126-110.00b.

Volberding, William L. Adjsutable snack tray. 3,717,111, 2-20-73, Cl. 108-45.000.

Volchematiev, Jury Venediktovich: *See—*
Daiker, Artur Lvovich; Morozov, Alexandr Nikolaevich; Veis, Anatoly Ivanovich; Kushtuev, Boris Grigorievich; Novoselov, Nikolai Mikhailovich; Zhuravlev, Viktor Nikolaevich; Zinoviev, Alexei Fedorovich; Alfeev, Ivan Ivanovich; Nikitin, Viktor Ivanovich; Kocergin, Alexei Ilich; Matashkov, Vladimir Filippovich; Karelin, Nikolai Ivanovich; Volchematiev, Jury Venediktovich; Zaluzhentsev, Veniamin Fedorovich; and Morozov, Gennady Yakovlevich, 3,730,504.

Volckari, Peter; Lehmann, Hartmut; and Hafner, Raimund, to Kienzle Apparate GmbH. Connector sheet with contacts on opposite sides. 3,716,846, 2-13-73, Cl. 340-174.00m.

Volcker, Hans-Werner: *See—*
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Voles, Roger, to E.M.I. Limited. Improvements relating to moving target indicating systems. 3,745,570, 7-10-73, Cl. 343-7.700.

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Volk, Anthony J. Disposable thermometer structure. 3,713,416, 1-30-73, Cl. 116-114.50r.

Volk, Anthony J. Disposable cooking thermometer. 3,759,103, 9-18-73, Cl. 73-358.000.

Volk, Joseph A., to Beta Corporation of St. Louis. Automatic control and antibacklash system. 3,707,978, 1-2-73, Cl. 137-2.000.

Volk, Joseph A.; and Volk, Joseph A., Jr., to Beta Corporation of St. Louis. Method and apparatus for retrieving coded information of film. 3,708,677, 1-2-73, Cl. 250-219.0dr.

Volk, Joseph A., Jr.: *See—*
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Volk, Karl Erich: *See—*
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Volker, Hederich; Gunter, Gehrke; and Hans-Samuel, Bein, to Bayer Aktiengesellschaft. Anthraquinone dyestuffs. 3,763,193, 10-2-73, Cl. 260-373.000.

Volker, Karl-Heinz; and Brockow, Dieter, to Siemag Siegener Maschinenbau G.m.b.H. Strip guiding apparatus. 3,735,624, 5-29-73, Cl. 72-250.000.

Volker, Theodor: *See—*
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Volker, Theodor; and Hugener, Hanspeter, to Lonza Ltd. Process for the production of polymers containing N-substituted acrylic acid amides and/or methacrylic acid amides. 3,776,976, 12-4-73, Cl. 260-78.0ua.

Volker, Ulrich; Fabian, Hein; and Mertl, Klaus. Method for producing friction discs. 3,710,071, 1-9-73, Cl. 219-93.000.

Volkers, Daphne: *See—*
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Volkert, John K. Printed folder including mailable article. 3,718,277, 2-27-73, Cl. 229-73.000.

Volkert, Otto; and Zuerger, Manfred, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Production of gravure printing plates based on plastics materials. 3,770,435, 11-6-73, Cl. 96-45.000.

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Volki, Walter; and Stauffer, Alfred, to Machinenfabrik Meyer & Burger AG. Clamping device for an internally separating circular saw blade. 3,762,008, 10-2-73, Cl. 29-10.00j.

Volkland, Charles M.: *See—*
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Volkle, Willi. Roof for swimming pools. 3,763,503, 10-9-73, Cl. 4-172.120.

Volkmann, Klaus; and Dick, Rudolf, to Wandel u. Goltermann. Display converter for recording multiplicity of oscilloscope traces. 3,761,947, 9-25-73, Cl. 346-33.00r.

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Volkovisky, Victor V., to Compteurs Schlumberger. Apparatus for measuring radiation. 3,760,187, 9-18-73, Cl. 250-349.000.





Volkrodt, Wolfgang, to Siemens Aktiengesellschaft. Individual drive for textile machine spinning spindle. 3,742,268, 6-26-73, Cl. 310-68.000.

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Von Ruti, Jurg. Electrical circuit for the transferring and amplification of a piezoelectric transducer signal. 3,749,946, 7-31-73, Cl. 310-8.100.
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Hageman, Howard A.; Gevirtz, Arthur H.; and von Schmeling, Bogislav, 3,759,689.
Knight, Barry I.; Curcumelli-Rodostamo, Michael; and Von Schmeling, Bogislav, 3,728,357.
Von Schmeling, Bogislav; Harrison, William A.; and Kulka, Marshall, to United States Rubber Company. Fungicidal use of certain carboxamidothiazoles. 3,709,992, 1-9-73, Cl. 424-270.000.
Von Seggern, Robert D., to Outboard Marine Corporation. Automatic hydraulically operated seat brake. 3,716,116, 2-13-73, Cl. 188-109.000.
Von Semel, George, to Friedrich Uhde GmbH. Process for the concentration and defluorination of phosphoric acid. 3,781,410, 12-25-73, Cl. 423-321.000.
Von Siemens, Ruprecht, to Siemens Aktiengesellschaft. Method of producing an exact edge on an etched article. 3,738,879, 6-12-73, Cl. 156-11.000.
von Starck, Axel: *See—*
Gerbig, Hans-Erwin; and von Starck, Axel, 3,754,634.
Scheffler, Friedrich; and von Starck, Axel, 3,744,933.
Von Starck, Axel; and Pawlek, Franz, to AEG-Elotherm G.m.b.H. Method of separating substances from a melt of good electrical conductivity. 3,734,720, 5-22-73, Cl. 75-93.000.
Von Starck, Axel; and Gerbig, Hans-Erwin, to AEG-Elotherm GmbH. Electromagnetic conveying trough with cooling channels. 3,738,777, 6-12-73, Cl. 417-50.000.
Von Starck, Axel; and Gerbig, Hans Erwin, to AEG-Elotherm GmbH. Electromagnetic conveying trough. 3,738,778, 6-12-73, Cl. 417-50.000.
von Starck, Axel; and Pawlek, Franz, to AEG-Elotherm GmbH. Method of continuously producing blister copper from copper matter. 3,738,826, 6-12-73, Cl. 75-75.000.
Von Starck, Axel; Husmann, Surwolf; Gerbig, Hans-Erwin; and Schnake, Friedrich, to AEG-Elotherm G.m.b.H. Electromagnetic conveyor trough. 3,765,797, 10-16-73, Cl. 417-50.000.
Von Stein, Werner: *See—*
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Von Strandimann, Max; Cohen, Marvin P.; and Shavel, John, Jr., to Warner-Lambert Company. Substituted pyrano (2,3-b) pyrans. 3,752,830, 8-14-73, Cl. 260-345.200.
von Strandtmann, Maximilian: *See—*
Klutchko, Sylvester; Shavel, John, Jr.; and von Strandtmann, Maximilian, 3,780,060.
Von Strandtmann, Maximilian, to Warner-Lambert Company. N-quinoline-5-aminooxazoles. 3,717,642, 2-20-73, Cl. 260-287.00r.
Von Strandtmann, Maximilian; and Connor, David T., to Warner-Lambert Company. {4-Substituted}4-(methylsulfinyl)methyl carbostyrils. 3,772,301, 11-13-73, Cl. 260-283.00s.
Von Strandtmann, Maximillian; Klutchko, Sylvester; and Shavel, John, Jr., to Warner-Lambert Company. 3-Substituted chromones. 3,767,679, 10-23-73, Cl. 260-345.200.
Von Suskil, Robert F., to Wheaton Industries. Candle holder combination. 3,743,473, 7-3-73, Cl. 431-297.000.
Von Thuna, Peter C.: *See—*
Stone, Richard S.; Sullivan Donald L.; and Von Thuna, Peter C., 3,727,462.
Von Voros, Geza, to Optogram, Inc. Electro-optical digital position indicator. 3,742,488, 6-26-73, Cl. 340-347.0ad.
Von Weise Gear Co.: *See—*
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Von Werder, Fritz: *See—*
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Von Wimmersperg, Heinrich F. Safety device for restraining passengers. 3,713,695, 1-30-73, Cl. 297-384.000.
Von Winckelmann, Emil H., to Mattel, Inc. Moving device for dolls. 3,757,467, 9-11-73, Cl. 46-240.000.



Vona, Joseph A.; Holzman, Lawrence B.; and Tracy, James E., to



Vos, Leroy A., to Sperry Rand Corporation. High resistance nozzle
Vossnacke, Jurgen: *See—*

Vona, Joseph A.; Holzman, Lawrence B.; and Tracy, James E., to Celanese Corporation. Methylolated aminoplast molding resins and methods for preparing same. 3,734,879, 5-22-73, Cl. 260-37.00n.

Vonck, Willem Frederik. Cranes. 3,727,359, 4-17-73, Cl. 52-121.000.

Vonderembse, John F.: *See—*
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Vondra, Benedict L., Jr.; Haley, Thomas E.; and Burke, Daniel F., to Atlantic Richfield Company, mesne. Process for preparing a stable, homogeneous uranium dioxidezirconium dioxide binary sol. 3,775,338, 11-27-73, Cl. 252-301.10s.

Vondrak, Frantisek: *See—*
Vesely, Miloslav; Bohac, Zdenek; and Vondrak, Frantisek, 3,750,460.

Vondrak, Mary Frances, to Shell Oil Company. Non-corrosive sulfur-liquid hydrocarbon slurry containing a corrosion inhibiting amount of a polar-containing solvent. 3,714,070, 1-30-73, Cl. 252-396.000.

Vondrak, Mary Frances, to Shell Oil Company. Non-corrosive sulfur-liquid hydrocarbon slurry containing an asphaltenic compound. 3,745,120, 7-10-73, Cl. 252-309.000.

Vondran, Daniel J., to Motorola, Inc. EVR player lens system. 3,722,990, 3-27-73, Cl. 352-231.000.

Vonsaltza, Malcolm H.: *See—*
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Voorhees, Alan M., mesne: *See—*
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Ruben, Murray A.; and Collings, Robert F., 3,760,409.

Voorhees, Anson Willard, Sr.; deceased (by Voorhees, Margaret W.; executrix). Method of reinforcing the wall of a thermo-formed article. 3,737,496, 6-5-73, Cl. 264-92.000.

Voorhees, Margaret W.: *See—*
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Voorhees, Maynard K., to Standard Manufacturing Company. Sand trap conditioning device. 3,774,695, 11-27-73, Cl. 172-691.000.

Voorheis, James T. Method for preparing fuels and also for thereafter feeding them into furnaces and burning them therein. 3,758,259, 9-11-73, Cl. 431-9.000.

Voorheis, Temple S.: *See—*
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Voorhies, Alexis, Jr.: *See—*
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Voorman, Johannes Otto; and Biesheuvel, Arnoldus, to U.S. Philips Corporation. Gyrator comprising voltage-controlled differential current sources. 3,758,885, 9-11-73, Cl. 333-80.00t.

Vopalensky, Robert A.: *See—*
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Voplex Corporation: *See—*
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Vora, Kishore N., to Xerox Corporation. Sheet separator control apparatus. 3,727,910, 4-17-73, Cl. 271-19.000.

Vora, Madhukar B.: *See—*
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Vora, Madhukar B., to International Business Machines Corporation. Outdiffusion epitaxial self-isolation technique for making monolithic semiconductor devices. 3,723,199, 3-27-73, Cl. 148-175.000.

Voraček, Jerome J., to Goodyear Aerospace Corporation. High altitude streamlined balloon. 3,746,282, 7-17-73, Cl. 244-31.000.

Vorbau, Roger C. Four-in-hand tie shield. 3,714,669, 2-6-73, Cl. 2-46.000.

Vorberg, Fritz, to Globotex AG. Method and apparatus for producing panty hose. 3,711,866, 1-23-73, Cl. 2-224.00r.

Vorbruggen, Helmut; and Strehlke, Peter, to Schering A.G. 2-Thiopyrimidine nucleosides. 3,708,469, 1-2-73, Cl. 260-211.50r.

Vorbruggen, Helmut, to Schering A.G. Process for the preparation of pyrimidine nucleosides. 3,748,320, 7-24-73, Cl. 260-211.50r.

Vorbruggen, Helmut, to Schering AG. N⁶-(chlorobuten-2-yl)-adenosines and processes for the preparation thereof. 3,766,168, 10-16-73, Cl. 260-211.50r.

Vorderbrugge, Hermann: *See—*
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Vormbaum, Otto: *See—*
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Vorms, Georgy Alfonsovich: *See—*
Aigenson, Alexandr Sergeevich; Fryazinov, Vladimir Vasilievich; Malikov, Fatkulla Khairullovich; Sabadash, Julia Sergeevna,; Akimov, Vladimir Stefanovich; Dobrozrakova, Natalia Ivanovna; Berg, Genrikh Arturovich; Ezhov, Boris Mikhailovich; Vorms, Georgy Alonsovich; Kubicka, Rudolf; Yaroslav, Veprek; and Cir, Yaroslav, 3,714,025.

Vornberger, George F.; and Albaugh, Arden A., to Pullman Incorporated. Apparatus for positioning of vehicle suspension. 3,778,079, 12-11-73, Cl. 280-80.00b.

Vorob, Arthur. Protective components for locks. 3,733,865, 5-22-73, Cl. 70-370.000.

Vorobiev, Vladimir Yakovlevich: *See—*
Okun, Sigizmund Semenovich; Sergeenkov, Boris Nikolaevich; Kiselev, Valentin Makhailovich; Ivanov, Vasily Sergeevich; and Vorobiev, Vladimir Yakovlevich, 3,723,853.

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Voronin, Dmitry Vyacheslavovich: *See—*
Ryss, Jury Samuilovich; Ovchinnikova, Tamara Mikhailovna; Gavrilov, Jury Georgievich; Voronin, Dmitry Vyacheslavovich; and Panteleimonov, Vladimir Mikhailovich, 3,758,846.

Voronin, Georgy Alexandrovich: *See—*
Paton, Boris Evgenievich; Lebedev, Vladimir Konstantinovich; Medovar, Boris Izrailevich; Latash, Jury Vadimovich; Bondarenko, Oleg Petrovich; Baglai, Vitaly Mikhailovich; Sidorenko, Mikhail Nikolaevich; Leibenzon, Semen Abramovich; Kaganovsky, Gary Petrovih; Altgauzen, Andrei Pavlovich; Nikolsky, Leonid Evgenievich; Gorynina, Zoya Alexandrovna; Safronova, Ljudmila Andreevna; Katsevich, Leonid Savvich; Volokhonsky, Lev Avramovich; Nikulin, Alexandr Alexandrovich; Artemiev, Vladimir Dmitrievich; Edemsky, Vladmir Mikhailovich; and Voronin, Georgy Alexandrovich, 3,709,283.

Voronov, Jury Viktorovich: *See—*
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Voronov, Nikolai Stefanovich: *See—*
Bondarenko, Vitaly Tikhonovich; Markin, Jury Nikandrovich; Voronov, Nikolai Stefanovich; Sagiryants, Nikolai Magdygovich; Salnikov, Ivan Ivanovich; and Petrenko, Konstantin Pavlovich, 3,742,749.

Vorontsov, Oleg Mikhailovich: *See—*
Poltorak, Alexandr Pavlovich; Nedosekov, Svyatoslav Semenovich; Sameljuk, Jury Fedorovich; Vorontsov, Oleg Mikhailovich; and Sashkin, Nikolai Nikitovich, 3,764,761.

Voropaev, Alexandr Petrovich: *See—*
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Vorsatz, Fritz Artur; and Risch, Adolf Friedrich, to Societe Anonyme dite: L'Oreal. Dry, free-flowing hair bleaching composition. 3,726,967, 4-10-73, Cl. 424-62.000.

Vorta Systems, Inc.: *See—*
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Vortkamp, Klaus: *See—*
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Vortkamp, Klaus, to Fried. Krupp Gesellschaft mit beschrankter Haftung. Apparatus for gathering cutting rolled-wire coils. 3,759,125, 9-18-73, Cl. 83-90.000.

Vos, Cornelius Henricus Johannes: *See—*
Verhoeckx, Nicholaas Alphonsus Maria; Van Der Hoff, Herman; Vos, Cornelius Henricus Johannes; and Coenders, Johannes Wilhelmus, 3,757,044.

Vos, Kenneth D., to Johnson, S. C., & Son, Inc. Pressurized containers. 3,731,855, 5-8-73, Cl. 222-394.000.

Vos, Kenneth D., to Johnson, S. C., & Son, Inc. Micro-emitter. 3,756,472, 9-4-73, Cl. 222-189.000.

Vos, Kenneth D., to Johnson, S. C., & Son, Inc. Pressurized containers. 3,759,431, 9-18-73, Cl. 222-402.210.

Vos, LeRoy A.: *See—*
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Vos, Leroy A., to Sperry Rand Corporation. Card brake. 3,727,912, 4-17-73, Cl. 271-51.000.





Vos, Leroy A., to Sperry Rand Corporation. High resistance nozzle and document operator. 3,773,173, 11-20-73, Cl. 207-110.500.

Vos, Thomas H., to General Motors Corporation. Occupant restraint system. 3,741,580, 6-26-73, Cl. 280-150.0ab.

Vosbikian, James T.: *See—*
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Vosbikian, Mike; and Vosbikian, James T., to Hardware & Industrial Tool Co., Inc. Universal wheeled cart. 3,718,337, 2-27-73, Cl. 280-47.260.

Voser, Walter, to Ciba-Geigy Corporation. Process for the recovery of hydrophilic antibiotics. 3,725,400, 4-3-73, Cl. 260-243.00c.

Voskuil, Donald J.; Knudtson, John P.; and Krupp, Myron J., to PPG Industries, Inc. Pigment composition and its use in electrodeposition. 3,716,389, 2-13-73, Cl. 106-309.000.

Vosper, Ralph R., to Coen Company, Inc. Duct burner for operation with liquid or gaseous fuels. 3,739,989, 6-19-73, Cl. 239-399.000.

Vosper, Ralph R.; Kirchner, Harry W., Jr.; and Hull, Guilford C., to Coen Company, Inc. Variable flame shape oil burner. 3,752,405, 8-14-73, Cl. 239-413.000.

Vosper Thornycroft Limited: *See—*
Collis, Michael Edward Richard, 3,724,419.
Hunt, Rowland Delville, 3,763,957.

Voss, Donald R.: *See—*
Georgiana, Joseph M.; Rolls, James A.; Voss, Donald R.; Mierzwa, Anthony M.; and Paradis, Robert A., 3,775,359.

Voss, Hans-Heinrich: *See—*
Vollmeyer, Werner; and Voss, Hans-Heinrich, 3,761,621.

Voss, James R.; and Ferry, William R., to AMBAC Industries, Incorporated. Engine govenor system with signal-loss protection and controlled oscillator circuit suitable for use therein. 3,724,433, 4-3-73, Cl. 123-102.000.

Voss, James R.; and Jeney, A. Frank, to AMBAC Industries, Incorporated. Hydraulic shuttle valve for fuel injection pumps. 3,744,465, 7-10-73, Cl. 123-139.00m.

Voss, James R.; and Ferry, William R., to AMBAC Industries, Incorporated. Electric speed control system and more-than-two-state phase detector suitable for use therein. 3,766,895, 10-23-73, Cl. 123-102.000.

Voss, Josef, KG, Firma: *See—*
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Voss, Joseph A.; and Johnson, Carl W., said Voss assor. to said Kimberly-Clark Corporation. Method and apparatus for manufacturing laminated tube structure. 3,764,438, 10-9-73, Cl. 156-425.000.

Voss, Karl: *See—*
Koepke, Gunther; Bardorff, Wolfgang Muller; Herzhoff, Peter; Gref, Hans; Schweicher, Wolfgang; Frenken, Hans; Voss, Karl; Wasser, Willi; Browatzki, Kurt; and Friedsan, Josef, 3,779,518.

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Platzoeder, Karl; and Voss, Peter, 3,774,085.

Voss, Peter; Niederfrum, Hans; Kaule, Gustav; and Trupp, Rudiger, to Bayer Aktiengesellschaft. Process for electrochemical fluorination. 3,753,876, 8-21-73, Cl. 204-59.00r.

Voss, Peter; Platzoeder, Karl; and Porst, Alfred, to Siemens Aktiengesellschaft. Thyristor. 3,766,450, 10-16-73, Cl. 317-235.00r.

Voss, Robert C.: *See—*
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Voss, Thomas E. Golf tool. 3,763,515, 10-9-73, Cl. 15-105.000.

Vossberg, Carl A. Method for polarimetric analysis. 3,724,952, 4-3-73, Cl. 356-114.000.

Vosseler, Gerhard, to Mueller & Co., A.G. Control apparatus for an electric timepiece. 3,726,080, 4-10-73, Cl. 58-23.00d.

Vossen, Franz. Cutting apparatus. 3,765,286, 10-16-73, Cl. 83-284.000.

Vossen, John Louis; and O'Neill, John Joseph, to RCA Corporation. Thermographic print head and method of making same. 3,736,406, 5-29-73, Cl. 219-216.000.

Vossen, John Louis, to RCA Corporation. Method of making a color encoding filter assembly. 3,743,586, 7-3-73, Cl. 204-192.000.

Vossen, John Louis, Jr., to RCA Corporation. Method of fabricating transparent conductors. 3,749,658, 7-31-73, Cl. 204-192.000.

Vossen, Karl, to Uniroyal Englebert Deutschland AG. Method for the permanent making of toothed belts. 3,772,117, 11-13-73, Cl. 156-140.000.

Vossen, Robert J.: *See—*
Tellerman, Edward M.; Kashden, Richard Paul; Schussel, Edward W.; and Vossen, Robert J., 3,737,112.

Vosskuhler, Heinz, to Heinz, Jeffrey, Manufacturing Co., Inc. Apparatus for compressing material. 3,777,658, 12-11-73, Cl. 100-98.000.

Vossler, Richard G.; and Brock, William E., to Eastern Refractories Co., Inc. Apparatus for conveying materials. 3,768,626, 10-30-73, Cl. 198-26.000.

Vossnacke, Jurgen: *See—*
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Vossos, Peter H.: *See—*
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Vossos, Peter H., to Nalco Chemical Company. Production of small particle size aqueous colloidal silica sols. 3,714,064, 1-30-73, Cl. 252-313.00s.

Vosteen, Robert E. High level non-contacting dynamic voltage follower for voltage measurement of electrostatically charged surfaces. 3,729,675, 4-24-73, Cl. 324-72.000.

Vosteen, Robert E. Electronic system to detect objects in confined volume. 3,744,044, 7-3-73, Cl. 340-213.00r.

Voth, Charley, to Full Vision, Inc. Spring-loaded tilting brackets for implement cabs. 3,752,530, 8-14-73, Cl. 296-35.00r.

Voth, James W.; and Speck, Albert J., to Allis-Chalmers Corporation. Vehicle final drive with planetary gearing and friction brake. 3,754,625, 8-28-73, Cl. 192-4.00a.

Voumard, Francois: *See—*
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Voves, Robert A.: *See—*
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Vowell, Kennison L.: *See—*
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Voyce, Guy. Identification devices. 3,718,999, 3-6-73, Cl. 40-309.000.

Voyce, Terence Edward, to Bofors (Great Britain) Company, Limited. Dragline bucket with skid link. 3,740,875, 6-26-73, Cl. 37-115.000.

Voyentzie, Peter R.; Ziemba, Richard T.; and Sugalski, Raymond K., to General Electric Company. Readily manufacturable thermal cell unit for explosive projectiles. 3,750,584, 8-7-73, Cl. 102-70.20r.

Voyentzie, Peter R.; Ziemba, Richard T.; and Sugalski, Raymond K. Readily manufacturable thermal cell unit for explosive projectiles. 3,759,749, 9-18-73, Cl. 136-175.000.

Voyer, Peter Edward: *See—*
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Voyles, Richard E.; and Giles, William A., to Systron-Donner Corporation. Automatic transfer oscillator with improved FM tolerance. 3,781,678, 12-25-73, Cl. 324-79.00d.

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Vrablic, Joseph A.: *See—*
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Vrancken, Marcel Nicolas; and Willens, Jozef Frans, to Gevaert Photo-Production N.V. Preparation of new protein derivatives by reacting gelatin with aromatic compounds containing stilbene or diphenylimidazolene. 3,749,707, 7-31-73, Cl. 260-117.000.

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Vrbaski, Theodor; and Sheehan, Thomas D., to Atlantic Richfield Company. Oxidation of propylene and isobutene to unsaturated aldehydes. 3,755,458, 8-28-73, Cl. 260-604.00r.

Vree, Pieter H.: *See—*
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Vreeland, Walling D., Jr. Needle apparatus. 3,735,760, 5-29-73, Cl. 128-216.000.

Vreeland, Walling D., Jr. Finger mounted needle assembly with manifold. 3,741,211, 6-26-73, Cl. 128-221.000.

Vretener, John: *See—*
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Vrieland, G. Edwin; and Beck, Henry Nelson, to Dow Chemical Company, The. Catalytic oxydehydrogenation of alkyl aromatics and alkyl pyridines. 3,733,327, 5-15-73, Cl. 260-290.00v.

Vriesen, Calvin W.; and Merges, John C., Jr., to Thiokol Chemical Corporation. Composite propellants containing hydroxylammonium perchlorate. 3,748,199, 7-24-73, Cl. 149-19.000.

Vrijburg, Hans Gerhard; and Bijl, Cornelis Leendert, to Koninklijke Nederlandsche Hoogovens en Staalfabrieken N.V. Process for manufacturing zinc coated steel sheet, and steel sheet obtained by this process. 3,713,902, 1-30-73, Cl. 148-6.15z.

Vrijma, Berend, to Calsilox S.A. Method for cutting plastic material. 3,734,991, 5-22-73, Cl. 264-157.000.

Vrijssen, Gerardus Arnoldus Herman Maria: *See—*
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Vrilakas, Mark. Machine for working on drive shafts. 3,758,098, 9-11-73, Cl. 269-55.000.







Waaben, Sigurd G., to Bell Telephone Laboratories, Incorporated.

Balwe, Thomas; and Sabel, Johann, 3,781,265.

Vrinssen, Cornelis H.; and Cramers, Constant M. A., to Stamicarbon N.V. Process for the preparation of 5-vinylnorbornene-2. 3,728,406, 417-73, Cl. 260-666.0py.
Vrola, Vincenzo: *See—*
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Wachsmann, Judith M. Collapsible furniture from tubular frame sections of predetermined shape. 3,708,204, 1-2-73, Cl. 297-440.000.
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Wachter, Karl-August, to Dragerwerk Aktiengesellschaft. Respirator having a mouthpiece arranged laterally of the filter. 3,773,043, 11-20-73, Cl. 128-147.000.
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Wada, Ryuji; Nishimura, Hideo; Kodama, Hayashi; and Kawamata, Taisuke, to Toyoda Koki Kabushiki Kaisha. Grinding machine having an adaptive control system. 3,728,826, 4-24-73, Cl. 51-165.770.

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Waddell, Richard G., to Innovation Resources Corporation, The. Pivotal barrel and receiver assembly having a removably mounted breech block. 3,766,677, 10-23-73, Cl. 42-75.00d.

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Waddington, William T., to Buchanan Electrical Products Corporation. Wire tie. 3,735,448, 5-29-73, Cl. 24-16.0pb.

Wade, Charles G., to ICI America Inc. Water-in-oil emulsion explosive containing entrapped gas. 3,715,247, 2-6-73, Cl. 149-21.000.

Wade, Charles Gary, to ICI America, Inc. Water-in-oil emulsion type explosive compositions having strontium-ion detonation catalysts. 3,765,964, 10-16-73, Cl. 149-2.000.

Wade, Charles H., to Whirlpool Corporation. Liquid dispenser. 3,749,288, 7-31-73, Cl. 222-187.000.

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Wade, Eiihi, to Pioneer Electronic Corporation. Stopper for a tape reel of a tape cartridge. 3,712,552, 1-23-73, Cl. 242-55.19a.

Wade, Harry C.; and Witts, John W., to Steel Company of Canada, Limited, The. Process for tack-welding and finishing spiralweld pipe. 3,739,134, 6-12-73, Cl. 219-62.000.

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Wade, Marvin C.; and Montgomery, Lamar. Automatic carpet cutting machine. 3,768,347, 10-30-73, Cl. 83-1.000.

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Wadsworth, Donald H.; and Perkins, William C., to Eastman Kodak Company. Light-sensitive polymers containing a phenyl diarylcyclopropene moiety, their preparation and use. 3,779,989, 12-18-73, Cl. 260-47.0up.

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Waehner, Glenn C., to United Aircraft Corporation. Wide-bandwidth deflection amplifier. 3,757,155, 9-4-73, Cl. 315-27.0td.

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Wagenfeld, Gilbert B. Linear distance-speed-time computer. 3,735,100, 5-22-73, Cl. 235-89.00r.

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Wagner, Earl S.; and Dinn, Vernon W., to Arvin Industries, Inc. Humidifier. 3,744,772, 7-10-73, Cl. 261-80.000.

Wagner, Earl William, to AMP Incorporated. Apparatus for applying terminals mounted on a tape to wires. 3,766,625, 10-23-73, Cl. 29-203.0ts.

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Wagner, Karl; and Ganser, Josef, to Agfa-Gevaert Aktiengesellschaft. Photoflash unit for photographic apparatus





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Wagner, Eugene R., to Dow Chemical Company, The. N-substituted naphthalenedicarboximides. 3,732,246, 5-8-73, Cl. 260-326.00c.
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Wagner, George J., Jr., to United States Steel Corporation. Adjustable conducting roll apparatus. 3,735,804, 5-29-73, Cl. 164-282.000.
Wagner, Gerhard; and Kinzel, Walter, to Klockner-Humboldt-Deutz Aktiengesellschaft. Portable bridge section connection. 3,754,293, 8-28-73, Cl. 14-1.000.
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Wagner, Hans; and Schafer, Fritz, to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. Process for the production of calcium tartrate. 3,769,339, 10-30-73, Cl. 260-536.000.
Wagner, Hans O., to Schiess Aktiengesellschaft. Lubricating device for a driving worm engaging a stationarily arranged worm gear rack. 3,737,008, 6-5-73, Cl. 184-6.140.
Wagner, Hans Oskar, to Schiess Aktiengesellschaft. Apparatus for preventing deflection of tool head guiding beam. 3,761,194, 9-25-73, Cl. 408-234.000.
Wagner, Harold H., to Caterpillar Tractor Company. Starter motor circuit with fast reset means. 3,744,467, 7-10-73, Cl. 123-179.0bg.
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Wagner, John G., to National Cash Register Company, The, mesne. Process of forming minute capsules. 3,748,277, 7-24-73, Cl. 252-316.000.
Wagner, John R.; and Sidbury, Melvin D., to Loew's Theatres, Inc. Smoking machine. 3,732,874, 5-15-73, Cl. 131-171.00r.
Wagner, John W.; and Young, Paul M., to International Business Machines Corporation. Test probe apparatus. 3,781,681, 12-25-73, Cl. 324-158.00p.
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Wagner, Karl, to Agfa-Gevaert Aktiengesellschaft. Illuminating arrangement for use in or with photographic apparatus. 3,712,197, 1-23-73, Cl. 95-11.50r.
Wagner, Karl; and Ganser, Josef, to Agfa-Gevaert Aktiengesellschaft. Photoflash unit for photographic apparatus. 3,726,195, 4-10-73, Cl. 95-11.00l.
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Wagner, Klaus; and Roos, Ernst, to Farbenfabriken Bayer Aktiengesellschaft. Substituted 3-aminoindazoles. 3,711,506, 1-16-73, Cl. 260-310.00e.
Wagner, Klaus; Roos, Ernst; Eue, Ludwig; and Hack, Helmuth, to Bayer Aktiengesellschaft. 2,4-Dicyano-6-nitro-benzene amines. 3,763,209, 10-2-73, Cl. 260-465.00e.
Wagner, Klaus; Eue, Ludwig; and Klauke, Erich, to Bayer Aktiengesellschaft. Cyano- and trifluoromethyl-substituted 6-nitroanilines. 3,781,323, 12-25-73, Cl. 260-465.00e.
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Wagner, Linden H.; and Chamberlain, Paul G., to United States of America, Army. Method and composition for phosphatizing steel under pressure. 3,767,476, 10-23-73, Cl. 148-6.15r.
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Wagner, Robert J. Position sensitive alarm with magnetic latching pendulum switch. 3,725,896, 4-3-73, Cl. 340-282.000.
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Herzog, Gunther; Kahle, Gunter; Kolling, Wolfgang; Lamm, Christian; Munch, Ursula; Schumann, Horst; Wolfrom, Walter; Riesel, Werner; and Wagner, Roland, 3,717,489.
Wagner, Ronald M., to General Motors Corporation. Transformer coupled power switch demodulator. 3,758,869, 9-11-73, Cl. 329-102.000.
Wagner, Ross W., to Thrall Car Manufacturing Company. Center beam railroad car. 3,734,031, 5-22-73, Cl. 105-367.000.
Wagner, Ruprecht, to Moeller & Neumann G.m.b.H. Plate turn-over mechanism. 3,780,882, 12-25-73, Cl. 214-1.0qa.
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Stohr, Christian; Grohmann, Klaus; and Wagner, Siegbert O., 3,743,557.
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Wagner, William. Spray gun. 3,758,039, 9-11-73, Cl. 239-372.000.
Wagner, William. Pressurized liquid mixer and dispenser. 3,780,910, 12-25-73, Cl. 222-95.000.
Wagner, William A.; and Newman, James W., to Windings, Inc. Apparatus and method for winding flexible material for twistless payout through a straight radial opening. 3,747,861, 7-24-73, Cl. 242-18.00r.
Wagner, William E.: *See*—
Stilley, George W.; Wagner, William E.; and Kelly, Joseph D., 3,713,798.
Wagner, William E.; and Golightly, James S., to PPG Industries, Inc. Shaping, coating and tempering glass. 3,762,902, 10-2-73, Cl. 65-60.000.
Wagner, William R., to Rockwell International Corporation. Nonpolluting steam generator system. 3,779,212, 12-18-73, Cl. 122-23.000.
Wagner, William S.: *See*—
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Wagner, William T., to Dayco Corporation. Printing inking members. 3,738,269, 6-12-73, Cl. 101-367.000.
Wagnerberger, Wolfgang: *See*—
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Wagoner, Earl V., Jr.: *See*—
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Wagoner, Robert B.; and Kinghorn, John S., to Aerojet-General Corporation, mesne. Floating roof drain. 3,756,265, 9-4-73, Cl. 137-143.000.
Wagreich, Murray M. Vacuumatic clamp. 3,770,259, 11-6-73, Cl. 269-21.000.
Wagschal, Edward A., to Recycled Plastic Products Corporation. Modular knockdown wine rack. 3,746,178, 7-17-73, Cl. 211-74.000.
Wagstaff, Frank L.; Wagstaff, William G.; and May, Paul H., to Wagstaff Machine Works, Inc. Direct chill casting mold. 3,739,837, 6-19-73, Cl. 164-283.000.
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Wagstaff, Robert A.; and Waldrop, Thomas W., to Sperry Rand Corporation. Forage harvester cutting reel and gauge pins for positioning the cutting blades thereon. 3,729,143, 4-24-73, Cl. 241-282.200.
Wagstaff, William G.: *See*—
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Wagu, Masakatsu: *See*—
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Wahl, Errol H., to Procter & Gamble Company, The. Color and odor stabilized dry aerosol antiperspirant. 3,725,540, 4-3-73, Cl. 424-46.000.
Wahl, Eugene A. Apparatus for promoting discharge of material from a bin or the like. 3,773,231, 11-20-73, Cl. 222-198.000.
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Zechnall, Richard; Schmidt, Peter; and Wahl, Josef, 3,745,768.
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Wahl, Thomas V., Jr.: *See*—
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Wahlbeck, Erik H., Firma: *See*—
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Wahlbeck, Hans Gustav Erik, to Wahlbeck, Erik H., Firma. Band of parallel, oppositely curbed chains soldered together at the link solder joints. 3,720,391, 3-13-73, Cl. 245-4.000.
Wahlberg, Eric C. Package handling system and sorting apparatus. 3,712,484, 1-23-73, Cl. 12-214.000.
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Wahlefeld, August Wilhelm; Bernt, Erich; Gruber, Wolfgang; and Bergmeyer, Hans Ulrich, to Boehringer Mannheim Gesellschaft mit beschrankter Haftung. Reagent composition and method for determining total bilirubin. 3,754,862, 8-28-73, Cl. 23-230.00b.
Wahlgren, Lars Osten, to Kamas Koarnmaskiner AB. Apparatus for drying materials. 3,762,065, 10-2-73, Cl. 34-73.000.
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Wahne, Eugene Harold, to Lucas, Joseph, (Industries) Limited. Fuel control systems for gas turbine engines. 3,772,882, 11-20-73, Cl. 60-39.28t.
Wahnschaffe, Jurgen; and Braun, Eberhard, to Daimler-Benz Aktiengesellschaft. Hot-gas rotary piston engine. 3,762,167, 10-2-73, Cl. 60-519.000.
Wahnschaffe, Jurgen; Gwinner, Dietrich; Pattas, Konstantin; and Braun, Eberhard, to Diamler-Benz Aktiengesellschaft. Hot gas rotary piston engine. 3,763,649, 10-9-73, Cl. 60-24.000.
Wahren, Douglas, to Allmanna Svenska Elektriska Aktiebolaget. Stock flow control system for feeding a paper machine headbox. 3,779,863, 12-18-73, Cl. 162-253.000.
Wahren, Ejvin Janne Ragnvald. Conveyor belt chain. 3,768,631, 10-30-73, Cl. 198-189.000.
Wahrmund, Kermit A.: *See*—
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Waibel, Helmut K., to Singer Company, The. Sheet handling device. 3,729,187, 4-24-73, Cl. 271-51.000.
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Waid, John M., to Shell Oil Company. Consolidating reservoir formation sand with underdisplaced resin. 3,747,678, 7-24-73, Cl. 166-295.000.
Waidelich, Jack P., to Rohr Industries, Inc. Emergency support and decelerating mechanism for magnetically supported vehicle. 3,738,281, 6-12-73, Cl. 104-231.0es.
Wailes, Rodney A.; and Ottenstein, Sidney Allan, to M & J Valve Company. Pipeline flow control system and method. 3,776,249, 12-4-73, Cl. 137-14.000.
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Wainer, Eugene; Rose, Selwyn H.; and Harkulich, Theodore M., to Horizons Incorporated. Light amplifiers. 3,724,066, 4-3-73, Cl. 29-592.000.
Wainer, Eugene; and Quaintance, Harold J., to Horizons Incorporated; a division of Horizons Research Incorporated. Method for producing electrical heating elements from metal-plated images. 3,763,004, 10-2-73, Cl. 204-38.00a.
Wainer, Eugene; and Betts, James F., to Horizons Incorporated. Non-silver photosensitive composition containing a bis-cyclic nitrogen compound, an aryl amine, and an organic halogen compound. 3,764,334, 10-9-73, Cl. 96-90.00r.
Wainer, Joshua S.: *See*—
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Wainwright, Ralph E.; and Liston, Edward R., to Dart Industries, Inc. Automatic hot end coating hood lifter. 3,724,641, 4-3-73, Cl. 198-40.000.
Wainwright, Richard A. Micro-strip and stripline junction circulators. 3,758,878, 9-11-73, Cl. 333-1.100.
Wais, Lowell; and Milbourne, Charles C., to Harnex, Inc. Restraining and training harnessing device. 3,769,939, 11-6-73, Cl. 119-106.000.
Waiss, Anthony C., Jr.; Kuhnle, Judith A.; and Wiley, Mabry Eileen, to United States of America, Agriculture. Removal of mercury from water using nut wastes. 3,719,473, 3-6-73, Cl. 75-121.000.
Wait, John D., Jr., to Caterpillar Tractor Company. Air filter mounting assembly. 3,742,684, 7-3-73, Cl. 55-385.000.
Waite, Frederick Andrew: *See*—
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Waitkoss, Alex J.; and Suding, Robert A., to Waitkoss Company, Inc. Remote position control system including electric motor and control circuit therefor. 3,754,179, 8-21-73, Cl. 318-665.000.
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Waitman, Reuben H.; Kelly, Maria H.; and Hollis, Frank, Jr., to General Foods Corporation. High protein potato snacks. 3,754,931, 8-28-73, Cl. 99-100.00p.
Waiwood, William P.; Trybuski, John E.; Friedl, Wendel M.; and Cross, Thomas S., to Design and Development, Incorporated. Logic system for a postal facility. 3,757,917, 9-11-73, Cl. 194-10.000.
Waizmann, George H.; and Cook, Robert G., Sr., to Gem City Engineering Co., The. Die apparatus for fine blank stamping. 3,752,028, 8-14-73, Cl. 83-685.000.
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Wakabashi, Manzo. Emergency stopping device for a wheeled vehicle. 3,722,630, 3-27-73, Cl. 188-4.00r.
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Wakabayashi, Hideo. Coffee making bottle and method for making same. 3,750,559, 8-7-73, Cl. 99-279.000.
Wakabayashi, Ikuzo; and Sasaki, Tsutomu, to Nippon Kokan Kabushiki Kaisha. Successive transfer apparatus for surface treatment of elongate articles. 3,722,662, 3-27-73, Cl. 198-82.000.
Wakabayashi, Ikuzo; and Nagata, Osamu, to Nippon Kokan Kabushiki Kaisha. Double-comb-shaped transfer apparatus. 3,730,333, 5-1-73, Cl. 198-219.000.
Wakabayashi, Kenzo, to Wakabayashi & Co., Ltd. Device for holding an umbrella in its standing position. 3,747,615, 7-24-73, Cl. 135-20.00r.
Wakabayashi, Masashi: *See—*
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Wakabayashi, Nobuyuki. Ski carrier. 3,779,568, 12-18-73, Cl. 280-9.000.
Wakabayashi, Rinske. Cassette tape recorder. 3,729,202, 4-24-73, Cl. 274-4.00d.
Wakabayashi, Takashi; Kinugasa, Terukazu; Hozumi, Shiro; and Sugihara, Kanji, to Matsushita Electric Industrial Co., Ltd. Memory device having lead dioxide particles therein. 3,719,933, 3-6-73, Cl. 340-173.0tp.
Wakabayashi, Yasuo: *See—*
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Wakabayashi, Yasuo. Digital clock. 3,759,030, 9-18-73, Cl. 58-50.00r.
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Wakae, Osamu; Yahushiji, Kunito; and Okada, Yashiyuki, to Takeda Chemical Industries, Ltd. N,N'-methylene-bis(2-amino-1,3,4-thiadiazole). 3,772,316, 11-13-73, Cl. 260-306.80d.
Wakai, Shuzo; and Nabae, Mitsuo, to Matsushita Electronics Corporation. Automatic gain control amplifier. 3,714,598, 1-30-73, Cl. 330-29.000.
Wakai, Shuzo; and Sugano, Hitoshi, to Matsushita Electronics Corporation. Color killer circuit. 3,730,978, 5-1-73, Cl. 178-5.4ck.
Wakai, Shuzo; and Sugano, Hitoshi, to Matsushita Electronics Corporation. Manual chrominance saturation control circuit. 3,742,128, 6-26-73, Cl. 178-5.4mc.
Wakai, Shuzo; and Sugano, Hitoshi, to Matsushita Electronics Corporation. Chrominance amplifier with provisions for gain control and color killer action. 3,772,463, 11-13-73, Cl. 178-5.40r.
Wakamatsu, Aizu: *See—*
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Wakamatsu, Hachiro; Uda, Jyunko; and Yamagami, Nobuyuki, to Ajinomoto Co., Inc. Method of producing N-acyl-alpha-amino acids. 3,766,266, 10-16-73, Cl. 260-534.00c.
Wakamatsu, Hisato: *See—*
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Wakamatsu, Hisato; Kitano, Akira; and Kawai, Hisasi, to Nippondenso Kabushiki Kaishi. Automatic transmission control system for automatic transmissions on vehicles. 3,713,355, 1-30-73, Cl. 74-866.000.
Wakamatsu, Hisato; Kitano, Akira; and Kawai, Hisasi, to Nippondenso Kabushiki Kaisha. Automatic transmission control system for automobiles. 3,724,293, 4-3-73, Cl. 74-866.000.
Wakamatsu, Hisato; Kitano, Akira; and Kawai, Hisasi, to Nippondenso Kabushiki Kaisha. Automatic transmission control system for automotive transmission of vehicles. 3,724,295, 4-3-73, Cl. 74-866.000.
Wakamatsu, Hisato; Fujinami, Hiroshi; and Kurebayashi, Tokuhiro, to Nippondenso Co., Ltd. System for shifting gear positions of automatic transmissions for automotive vehicles at predetermined shift points. 3,727,488, 4-17-73, Cl. 74-866.000.
Wakamatsu, Hisato; and Akita, Shigeyuki, to Nippondenso Co., Ltd. Speed detecting system utilizing digital logic circuitry. 3,728,553, 4-17-73, Cl. 307-231.000.
Wakamatsu, Hisato; and Kitano, Akira, to Nippondenso Co., Ltd. Protective device operative upon transistor failure. 3,737,887, 6-5-73, Cl. 340-248.00e.
Wakamatsu, Hisato; and Kurebayashi, Tokuhiro, to Nippondenso Co., Ltd. Device for measuring speed of rotation including a circuit failure detector. 3,745,461, 7-10-73, Cl. 324-174.000.
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Wakamiya, Kinji, to Sony Corporation. Solid state target electrode for pickup tubes. 3,725,751, 4-3-73, Cl. 317-235.00r.
Wakamiya, Kinji; and Kobayashi, Isamu, to Sony Corporation. Method of selectively diffusing carrier killers into integrated circuits utilizing polycrystalline regions. 3,775,196, 11-27-73, Cl. 148-175.000.
Wakamori, Shigeki; Yoshida, Yoshio; Yamauchi, Sanji; Ishii, Yoshio; and Goto, Muneharu, to Kumiai Chemical Industry Co., Ltd. Method of killing weeds in rice crops utilizing benzyl N,N-dialkyldithiocarbamates. 3,715,199, 2-6-73, Cl. 71-101.000.
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Wake, John A., to Cincinnati Milacron-Heald Corporation. Machine tool. 3,709,621, 1-9-73, Cl. 408-11.000.
Wakeem, Dale G. Device for generating bubbles in response to movement of a vehicle. 3,738,051, 6-12-73, Cl. 46-7.000.
Wakefield, Albert W.; and Babb, Albert L., to University of Washington, Research test dialyzer system. 3,757,947, 9-11-73, Cl. 210-86.000.
Wakefield, Brian, to Ever Ready Company (Great Britain), Limited, The. Electro-chemical cells. 3,767,465, 10-23-73, Cl. 136-24.000.
Wakefield Engineering, Inc.: *See—*
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Wakefield, Gene Felix, to Texas Instruments, Incorporated. Metal carbonitride-coated article and method of producing same. 3,771,976, 11-13-73, Cl. 29-194.000.
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Wakefield, Orval W., to Pit-Bar Manufacturing Company. Edge guard for buffing machine. 3,717,894, 2-27-73, Cl. 15-97.00r.



Wakefield, Orval W., to Pit-Bar Manufacturing Company. Buffer pad with central portion of the working nap removed. 3,742,550, 7-3-73, Cl. 15-230.000.
Wakefield, Orval W., to Pit-Bar Manufacturing Company. Buffing machine with centerless buffer pad. 3,757,378, 9-11-73, Cl. 15-230.190.
Wakefield, Robert Henry, Jr.; Cunningham, James Alan; and Hswe, Myint, to Texas Instruments, Incorporated. Self-aligned gate field effect transistor with Schottky barrier drain and source. 3,708,360, 1-2-73, Cl. 156-3.000.
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Wakimoto, Saburo; Tugukuni, Hideyosi; Kano, Masafumi; Matsui, Yutaka; and Goto, Jogo, said Matsui and said Goto assors. to Takeda Chemical Industries, Ltd. and said Wakimoto, Tugukuni, and said Kano assors. to Dai Nippon Toryo Co., Ltd. Polyurethanes solube or compatible in water organic solvents and polyols. 3,723,372, 3-27-73, Cl. 260-29.10r.
Wakimoto, Saburo; Tugukuni, Hideyoshi; and Kano, Masafumi, to Dai Nippon Toryo Co., Ltd. and Sinloihi Co. Dispersion of finely divided pigment particles and process for preparation of the same. 3,734,872, 5-22-73, Cl. 260-22.0cb.
Wakimoto, Saburo; Tugukuni, Hideyoshi; Kano, Masafumi; Matsui, Yutaka; Kazama, Seiju; and Goto, Jugo, said Wakimoto, Tugukuni and said Kamo, assors. to said Dai Nippon Toryo Co., Ltd. and said Matsui, Kazama and said Goto assors. to Takeda Chemical Industres, Ltd. Blocked polyurethanes containing quaternary ammonium or alkali metal salt groups. 3,773,729, 11-20-73, Cl. 260-77.5tb.
Wakimoto, Zenji; and Matsui, Yasushi, to Nippon Kogaku K.K. Image positioning optical arrangement in projection printing system. 3,726,594, 4-10-73, Cl. 356-138.000.
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Waksberg, Armand; and Wood, John Irving, to RCA Limited. Automatic optical bias control for light modulators. 3,780,296, 12-18-73, Cl. 250-201.000.
Waku, Toshihiko; and Ota, Yoshio, to Sony Corporation. Gain control circuit. 3,764,931, 10-9-73, Cl. 330-29.000.
Wakui, Toshio, to Fuji Denki Seizo Kabushiki Kaisha. Method of making cylindrical fuse. 3,777,370, 12-11-73, Cl. 29-623.000.
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Walker, Basil E., Jr.; Spann, J. Richard; and Rice, Roy W., to United States of America, Navy. High strength barium titanate ceramic bodies. 3,753,911, 8-21-73, Cl. 252-62.900.

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Walker, Brooks. Dual fueled engine with temperature switchover. 3,718,000, 2-27-73, Cl. 60-285.000.

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Walker, Frank S. Boot and detachable extension therefor. 3,744,158, 7-10-73, Cl. 36-1.500.

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Walker, Grant W.; Ford, Duane B.; Meinzer, Lester N.; and Larsen, Reid S., to Dynamics Research and Manufacturing, Inc. Shock absorbing structure. 3,768,781, 10-30-73, Cl. 256-1.000.

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Walker, Harold L. Pressurized continuous flow liquid applicator with shut-off valve. 3,776,645, 12-4-73, Cl. 401-188.000.

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Walker, James L.; and Sawyer, Thomas F., to General Electric Company. Heat treatment to dissolve low melting phases in superalloys. 3,753,790, 8-21-73, Cl. 148-3.000.

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Walker, James V., to McDonnell Douglas Corporation. Method of making piston ring expander. 3,778,877, 12-18-73, Cl. 29-173.000.

Walker, Jerome F., to Digital General Corporation. Apparatus and method for testing electrical systems having pulse signal responses. 3,714,571, 1-30-73, Cl. 324-133.000.

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Walker, Jerry Lee; and Boothe, Jerry Emile, to Calgon Corporation. Control of alluvial and other deposits in aqueous systems. 3,709,816, 1-9-73, Cl. 210-58.000.

Walker, John B. Variable electric current generating device. 3,715,237, 2-6-73, Cl. 136-89.000.

Walker, John H., to Phillips Petroleum Company. Poly(arylene sulfide) composition and method for decreasing the melt flow of poly(arylene sulfide). 3,725,362, 4-3-73, Cl. 260-79.000.

Walker, John H.; and Bailey, Fay W., to Phillips Petroleum Company. Blends of block polymers and microcrystalline waxes. 3,766,114, 10-16-73, Cl. 260-28.50b.

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Walker, Laurence Richard; and Walstedt, Russell Erwin, to Bell Telephone Laboratories, Incorporated. Adiabatic magnetization cooling near absolute zero. 3,774,404, 11-27-73, Cl. 62-3.000.

Walker, Lee R. Pendulum game. 3,743,285, 7-3-73, Cl. 273-1.00r.

Walker, Loren H., to ESB Incorporated. Instantaneous current control for static inverters. 3,750,004, 7-31-73, Cl. 321-14.000.

Walker, Lynn P., to Marathon Oil Company. Pyrolysis furnace having transverse mixing means in the end stacks. 3,723,067, 3-27-73, Cl. 23-277.00r.

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Walker, Peter S., to New York Society for the Relief of the Ruptured and Crippled. Knee-joint prosthesis. 3,774,244, 11-27-73, Cl. 3-1.000.

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Walker, Robert C.; and Wyde, Sidney S., to United Aircraft Corporation. Spark igniter for combustion chambers. 3,736,748, 6-5-73, Cl. 60-39.670.

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Walker, Robert J., III. Method and apparatus for closing the mouths of flexible containers by twisting. 3,754,371, 8-28-73, Cl. 53-38.000.

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Walker, Robert W.; and Milewski, Victor, to Valeron Corporation, The. Boring tool for small diameters. 3,753,624, 8-21-73, Cl. 408-159.000.

Walker, Robert W.; and Gehlhaus, Paul H., to Rohm & Haas Company. Composite propellants containing polymers of trinitratopentaerythrityl acrylate. 3,770,524, 11-6-73, Cl. 149-19.500.

Walker, Robert Winn, to Rohm & Haas Company. Water purification with amine oxide resins. 3,749,668, 7-31-73, Cl. 210-37.000.

Walker, Robert Winn. Resins with tertiary amine oxide functionality. 3,749,684, 7-31-73, Cl. 260-2.10e.

Walker, Robert Winn, to Rohm & Haas Company. Adsorption process. 3,751,507, 8-7-73, Cl. 260-674.0sa.

Walker, Roy M.: *See—*
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Walker, Terence, to American Optical Corporation. Ophthalmometer having alternative viewing measuring systems and including improved contact lens holding means. 3,778,164, 12-11-73, Cl. 356-124.000.

Walker, Thad O., to Texaco Inc. Aqueous drilling fluid and method of use thereof. 3,760,892, 9-25-73, Cl. 175-65.000.

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Walker, Wendell R. Compact and storable exercising apparatus. 3,709,487, 1-9-73, Cl. 272-58.000.

Walker, Willard H. Method of producing dressed lumber from logs. 3,738,404, 6-12-73, Cl. 144-312.000.

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Walker, William B., to FMC Corporation. Screening conveyor. 3,713,537, 1-30-73, Cl. 209-307.000.

Walker, William H., to V. J. Industries. Therapeutic exercise device. 3,754,547, 8-28-73, Cl. 128-25.00r.

Walker, Wilmer David, Jr. Waist mounted targets and tethered rolls. 3,774,910, 11-27-73, Cl. 273-95.00a.

Walker, Winston G. Method and apparatus for optically detecting the presence of an element in a substance. 3,740,144, 6-19-73, Cl. 356-53.000.

Walker, Winston G., to Addmaster Corporation. Key operated switch with depressible bridging contact layer of matted unwoven electrically conductive fibers. 3,745,287, 7-10-73, Cl. 200-159.00b.

Walkerow, Loy P. Golf cart ball dispensing handle construction. 3,733,086, 5-15-73, Cl. 280-47.170.

Walklet, Mercer Donald. Turbulence suppression apparatus for a body of water. 3,755,829, 9-4-73, Cl. 4-172.000.

Walkley, James A.; Piotroski, Peter N.; and O'Gara, George W., to Pitney-Bowes, Inc. Method, apparatus and system for fitness sorting and count verifying straps of currency. 3,759,382, 9-18-73, Cl. 209-111.700.

Walko, Richard: *See—*
Kriedt, Frederick A.; Sundstrom, Thomas H.; and Walko, Richard, 3,732,838.





Wall & Leigh Thermoplastics Limited: *See—*
Johnson, Maurice Vivian, 3,765,054.

Wallace, John F.: *See—*
Dvorak, Joseph E.; and Wallace, John F., 3,721,547.





Wallbaum, Hans Joachim; and Hornschemeyer, Wolfgang, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Method

Wallin, Gus Waldemar, to Scovill Manufacturing Company. Kitchen mixer impeller and mold for making. 3,734,643, 5-22-23, Cl. 416-

Wall & Leigh Thermoplastics Limited: *See—*
Johnson, Maurice Vivian, 3,765,054.

Wall, Arvel L., to Doughboy Industries, Inc. Multi-piece vertical support for swimming pools. 3,745,593, 7-17-73, Cl. 4-172.190.

Wall, Bobby M.: *See—*
Thompson, Grant; and Wall, Bobby M., 3,763,133.

Wall, David A.: *See—*
Rietz, Earl B.; McCloud, James R.; Koenn, Hubert J.; and Wall, David A., 3,737,831.

Wall, Henry H., Jr., to Ethyl Corporation. Production and purification of vinyl chloride. 3,761,361, 9-25-73, Cl. 702-158.000.

Wall, James A.; and Burke, Edward A., to United States of America, Air Force. Directionally sensitive radiation detector system using ionization chambers. 3,723,740, 3-27-73, Cl. 250-83.60r.

Wall, Lamar J., to Poly-Optics, Inc. Cylindrical ornamental illumination device and adapter. 3,721,815, 3-20-73, Cl. 240-10.00r.

Wall, Lamar J., to Poly-Optics, Inc. Ornamental globe utilizing optical fibers. 3,727,043, 4-10-73, Cl. 240-10.00t.

Wall, Robert G.; and Kemp, Jacob D., to Chevron Research Company. Process for obtaining isopentane from butane, hexane or mixtures thereof. 3,766,292, 10-16-73, Cl. 260-676.00r.

Wall, Robert M., to Thiokol Chemical Corporation. Stabilized propellant compositions and methods for their preparation. 3,741,830, 6-26-73, Cl. 149-19.000.

Wall, Theodore R.: *See—*
Ryerson, James N.; and Wall, Theodore R., 3,763,028.

Wall-Able Manufacturing Corporation: *See—*
Wallo, William H., 3,723,949.

Wallac Oy: *See—*
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Soini, Erkki Juhani, 3,772,515.

Wallace, Benjamin K.: *See—*
Wallace, Paul K.; and Wallace, Benjamin K., 3,778,209.

Wallace Business Forms, Inc.: *See—*
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Wallace, Charles H., to International Telephone and Telegraph Corporation. Method and apparatus for slaughtering animals. 3,736,622, 6-5-73, Cl. 17-24.000.

Wallace, Charles H.; and Smith, Frank L., to Huss Equipment Corporation. Method and apparatus for sampling ground meat. 3,759,105, 9-18-73, Cl. 73-421.00a.

Wallace, Charles H. Apparatus for grading pieces of meat. 3,773,175, 11-20-73, Cl. 209-173.000.

Wallace, David C. Device for holding tortilla during the cooking thereof. 3,759,165, 9-18-73, Cl. 99-427.000.

Wallace, David J.: *See—*
Straley, James M.; and Wallace, David J., 3,737,424.
Weaver, Max A.; and Wallace, David J., 3,738,802.
Weaver, Max A.; and Wallace, David J., 3,770,370.
Weaver, Max A.; Wallace, David J.; and Straley, James M., 3,772,362.

Wallace, Donald G.; and Turek, James A., to Araneida, Inc. System for controlling a boom. 3,713,544, 1-30-73, Cl. 212-5.000.

Wallace, Eugene E., to Wagner Electric Corporation. Control valve and system. 3,752,535, 8-14-73, Cl. 303-6.00c.

Wallace Expanding Machines, Inc.: *See—*
Roper, Ralph E., 3,709,162.
Roper, Ralph E., 3,715,906.
Roper, Ralph E., 3,729,795.
Roper, Ralph E., 3,780,899.

Wallace, Floyd L.: *See—*
Breitfuss, Thomas K.; Wallace, Floyd L.; and Zicaro, Joseph P., 3,724,768.

Wallace, George A.: *See—*
Burghart, Anthony V.; Houser, David E.; Kieffer, John E.; and Wallace, George A., 3,775,579.

Wallace, George O., to Diversified Industries, Inc.; d/b/a Scullin Steel Company. Railway car center bearing. 3,713,710, 1-30-73, Cl. 308-137.000.

Wallace, Griffith. Apparatus for cooking or heating foodstuffs. 3,757,673, 9-11-73, Cl. 99-410.000.

Wallace, Grover L.; Ward, Thomas D.; and Johnson, Paul R., to Harsco Corporation. Tertiary filter. 3,741,390, 6-26-73, Cl. 210-80.000.

Wallace, Harry L., to Burroughs Corporation. Constant force spring carrier return mechanism. 3,750,795, 8-7-73, Cl. 197-68.000.

Wallace, Harry L., to Burroughs Corporation. Multiple tape printing apparatus and housing facility therefor. 3,771,441, 11-13-73, Cl. 101-2.000.

Wallace, James B.: *See—*
Ellsworth, James P.; and Wallace, James B., 3,760,132.

Wallace, James B.; and Hill, Robert H., to Westinghouse Electric Corporation. Connecting adapter for electric cable and fuse. 3,736,550, 5-29-73, Cl. 339-265.00f.

Wallace, James B.; Maier, Alfred E.; and Hill, Robert H., to Westinghouse Electric Corporation. Circuit interrupter. 3,748,609, 7-24-73, Cl. 335-174.000.

Wallace, James L., 50% to Butler, R. B., Inc. Drilling attachment. 3,734,204, 5-22-73, Cl. 173-43.000.

Wallace, John B.: *See—*
Hoft, Donald J.; and Wallace, John B., 3,747,023.

Wallace, John F.: *See—*
Dvorak, Joseph E.; and Wallace, John F., 3,721,547.

Wallace, John G. Magnetic card reader-encoder. 3,737,884, 6-5-73, Cl. 340-174.10r.

Wallace, John J.: *See—*
Maciolek, Joseph R.; and Wallace, John J., 3,746,279.

Wallace, Joseph E.: *See—*
Hamilton, John G.; and Wallace, Joseph E., 3,747,521.
Mako, John; and Wallace, Joseph E., 3,741,113.

Wallace, Joseph E., to Vanmark Corporation. Abrasive peeling apparatus. 3,745,914, 7-17-73, Cl. 99-630.000.

Wallace, Joseph W.: *See—*
Cvacho, Daniel S.; and Wallace, Joseph W., 3,751,962.

Wallace, Kenneth A., to North Electric Company. Transistor inverter circuit for supplying constant current output. 3,775,702, 11-27-73, Cl. 331-109.000.

Wallace, Leon C. Multiple use toy. 3,754,349, 8-28-73, Cl. 46-17.000.

Wallace, Marshall E.: *See—*
Blevens, Bertram G.; Wallace, Marshall E.; and Goodman, Walter P., 3,732,628.

Wallace, Maury: *See—*
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Wallace, Maynard. Fishing rod. 3,778,916, 12-18-73, Cl. 43-18.00r.

Wallace, Paul F.: *See—*
McGinnis, Michael K.; and Wallace, Paul F., 3,773,477.

Wallace, Paul K.; and Wallace, Benjamin K., to Morrison, Dan, Meat Pies, Inc. Extruder for food products such as tamales. 3,778,209, 12-11-73, Cl. 425-133.000.

Wallace, Richard A.: *See—*
Kartchner, Earl M.; Van Horn, Gary R.; and Wallace, Richard A., 3,728,529.

Wallace, Richard A. Continuous electromigration process for removal of gaseous contaminants from the atmosphere and apparatus. 3,712,025, 1-23-73, Cl. 55-2.000.

Wallace, Richard A. Electrogel process for removing electrolytes and concentrating the same from an aqueous solution. 3,718,559, 2-27-73, Cl. 204-180.00g.

Wallace, Richard A. Continuous electromigration process for removal of gaseous contaminants from the atmosphere and apparatus. 3,727,375, 4-17-73, Cl. 55-2.000.

Wallace, Richard A. Chemical breathing apparatus with alarm device. 3,773,044, 11-20-73, Cl. 128-142.600.

Wallace, Richard M.; and Snyder, Michael D., to Singer Company, The. Electrical contact retaining device. 3,728,510, 4-17-73, Cl. 200-166.0bc.

Wallace, Richard R., to Harwald Company, The. Film inspection apparatus. 3,778,802, 12-11-73, Cl. 340-260.000.

Wallace, Robert, to Rotablock Limited. Roof and wall structures more particularly of heat enclosures. 3,731,446, 5-8-73, Cl. 52-486.000.

Wallace, Robert G.: *See—*
Herford, John; Mosman, Richard R.; Vieira, Thomas L.; and Wallace, Robert G., 3,714,761.
Lorenzini, Raymond; Vieira, Thomas L.; and Wallace, Robert G., 3,727,371.

Wallace, Robert H., to Honeywell Inc. Apparatus for controlling the discharge of a capacitor. 3,761,767, 9-25-73, Cl. 315-241.00p.

Wallace, Robert S., to Simpas International Inc., mesne. Tape-cartridge assembly. 3,773,272, 11-20-73, Cl. 242-55.19a.

Wallace, Sam P., Co., Inc.: *See—*
Brewer, Jack J., 3,777,900.

Wallace, Samuel P. Tape take-up drive assembly. 3,722,822, 3-27-73, Cl. 242-67.400.

Wallace, Thomas J.: *See—*
Nixon, James; Wallace, Thomas J.; and Beerbower, Alan, 3,709,747.

Wallace, Thomas Joseph: *See—*
Ilnyckyj, Stephan; and Wallace, Thomas Joseph, 3,765,849.

Wallace, William D.: *See—*
Kendall, Giles A.; and Wallace, William D., 3,751,020.

Wallace, William K.: *See—*
Amtsberg, Lester A.; and Wallace, William K., 3,747,441.

Wallace, William P.: *See—*
Angilella, Anthony G.; and Wallace, William P., 3,770,286.

Wallace, Woodrow: *See—*
Vocker, Harold R.; Marcovitz, David L.; Thompson, I. L.; and Wallace, Woodrow, 3,759,171.

Wallace-Murray Corporation: *See—*
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Freeman, Willard Anton; and Hartley, Donald Jean, 3,759,630.
Kendall, Virgil D.; and Skriletz, Rudolph A., 3,755,213.
Nehrenberg, Alvin E.; and Rundell, Gene R., 3,764,304.

Wallach, Harvey. Convertible shipping and display packing device. 3,735,861, 5-29-73, Cl. 206-45.110.

Wallach, Jacques B. Apparatus and method for processing flexible medical slides. 3,764,215, 10-9-73, Cl. 356-36.000.

Wallast, Leendert Hendricus: *See—*
Roza, Engel; and Wallast, Leendert Hendricus, 3,727,184.





Wallbaum, Hans Joachim; and Hornschemeyer, Wolfgang, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Method of preparing equipment for holding molten. 3,713,808, 1-30-73, Cl. 75-10.00r.

Wallbaum, Hans-Joachim, to Kabel- und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Process for making hardenable copper alloy products. 3,717,511, 2-20-73, Cl. 148-11.50r.

Wallberg, Eric W., to Forenade Fabriksverken. Device for the protective charging of case-less cartridges. 3,765,298, 10-16-73, Cl. 89-34.000.

Wallberg, Erik Arne: *See—*
Lilja, Lars Edvin; and Wallberg, Erik Arne, 3,709,232.

Wallberg, Erik Arne, to Industrilaboratoriet Aktienbolag. Method in the utilizing of tobacco waste. 3,750,679, 8-7-73, Cl. 131-140.00c.

Walled Lake Door Co.: *See—*
Quinif, Edward G., 3,761,336.

Wallen, Bjorn Valter. Elastic sole insert for horse shoes. 3,747,684, 7-24-73, Cl. 168-28.000.

Wallen, Raymond Allen, Sr., to Lee, Raymond, Organization, Inc., The. Portable locomotive cab storm window. 3,779,175, 12-18-73, Cl. 105-456.000.

Wallenborn, Nils, to Arenco Aktiebolag. Apparatus for stretching and smoothing a natural tobacco leaf. 3,759,269, 9-18-73, Cl. 131-123.000.

Wallengerg, Henry, & Co.: *See—*
Berger, Curt, 3,747,532.

Wallenstein, Spangenberg, Hattis & Strampel: *See—*
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Wallenstein, Sven: *See—*
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Waller, Alexander E., to United States of America, Navy. Combat rescue pod. 3,740,007, 6-19-73, Cl. 244-137.00p.

Waller, Charles R., to Reynolds, R. J., Tobacco Company. Method and apparatus for treating tobacco. 3,742,961, 7-3-73, Cl. 131-138.000.

Waller, David P.: *See—*
Bloom, Stanley M.; Idelson, Elbert M.; Simon, Myron S.; and Waller, David P., 3,779,753.

Waller, Duncan E., to Dentsply International Inc. Photopolymerizable dental products. 3,709,866, 1-9-73, Cl. 260-27.00r.

Waller, Glenn A.: *See—*
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Waller, Gustav Martin, to Amsted Industries Incorporated. Expansible wheel. 3,735,535, 5-29-73, Cl. 51-374.000.

Waller, John G., Jr.: *See—*
Pearl, David L.; Waller, John G., Jr.; and Waller, John G., Sr., 3,763,774.

Waller, John G., Sr.: *See—*
Pearl, David L.; Waller, John G., Jr.; and Waller, John G., Sr., 3,763,774.

Walles, Sten, to AGA Aktiebolag. Optical device. 3,765,742, 10-16-73, Cl. 350-7.000.

Walles, Wilhelm E., to Dow Chemical Company, The. Resinous enclosure members rendered impermeable by sulfonation. 3,740,258, 6-19-73, Cl. 117-94.000.

Walles, Wilhelm E., to Dow Chemical Company, The. Surface sulfonation-epoxidation of organic polymers. 3,770,706, 11-6-73, Cl. 260-79.30r.

Walles, Wilhelm E., to Dow Chemical Company, The. Lamination of olefin polymer to various substrates. 3,779,840, 12-18-73, Cl. 156-3.000.

Wallestad, Victor C., to Fluoroware, Inc. Spray processing machine. 3,769,992, 11-6-73, Cl. 134-144.000.

Wallett, John Stanley, to State of Defence, The Secretary of. Blade assembly for gas turbine engines. 3,758,232, 9-11-73, Cl. 416-213.000.

Wallgren, Harald Anton Ake, to Aktiebolaget Electrolux. Pneumatic liquid disposal system. 3,746,032, 7-17-73, Cl. 137-205.000.

Wallgren, Linus E.: *See—*
Lloyd, Richard E.; and Wallgren, Linus E., 3,715,708.

Wallia, Perry S., to Fairchild Camera and Instrument Corporation. Methods for making semiconductor pressure transducers and the resulting structures. 3,764,950, 10-9-73, Cl. 338-2.000.

Wallick, Jack L., mesne: *See—*
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Wallick, Paul C., to A-T-O Inc. Eccentric system for vibratory earth compactor. 3,721,129, 3-20-73, Cl. 74-87.000.

Wallick, Sherwin, 1/2 to Wallick, Jack L., mesne. Portable liquid spray assembly with boom and nozzle. 3,744,719, 7-10-73, Cl. 239-199.000.

Walliczek, Erwin Gunther: *See—*
Dewar, Robert Alfred; and Walliczek, Erwin Gunther, 3,714,341.

Wallin, Gary P.; and Stapleford, Gary N., to Comex Systems, Inc. Selective tone signalling apparatus. 3,715,726, 2-6-73, Cl. 340-171.0pf.

Wallin, George J.: *See—*
Annett, Leland W.; and Wallin, George J., 3,732,000.

Wallin, Gus Waldemar, to Scovill Manufacturing Company. Kitchen mixer impeller and mold for making. 3,734,643, 5-22-73, Cl. 416-77.000.

Wallin, Gus Waldemar, to Scovill Manufacturing Company. Kitchen mixer impeller and mold for making it. 3,764,101, 10-9-73, Cl. 249-160.000.

Wallin, Jan-Olof Raymond, to Stece-AB Industrifjadran. Buckles for safety belts. 3,713,192, 1-30-73, Cl. 24-230.0at.

Wallin, Per L.: *See—*
Ek, Leif V.; Wallin, Per L.; and Tibbling, Thure P. M., 3,780,866.

Walling, James Bernard: *See—*
Turner, John W., Jr.; Van Wormer, Richard A.; and Walling, James Bernard, 3,768,663.

Wallingford, Otto H., to Valley Engineering, Inc. Ladder for evacuating persons from chair aerial cable lifts. 3,780,829, 12-25-73, Cl. 182-206.000.

Wallington, Frederick L., to Owens-Illinois, Inc. Base sealer method. 3,769,135, 10-30-73, Cl. 156-306.000.

Wallis, Bernard J. Article transfer device. 3,731,821, 5-8-73, Cl. 214-1.0bb.

Wallis, Bernard J. Safety overload device for transfer machines. 3,738,503, 6-12-73, Cl. 214-1.0bb.

Wallis, Bernard J. Safety retract mechanism. 3,746,184, 7-17-73, Cl. 214-1.0bb.

Wallis, Bernard J. Transfer device. 3,756,425, 9-4-73, Cl. 214-1.0bb.

Wallis, Craig; and Melnick, Joseph L., to Carborundum Company, The. Removal of virus from fluids. 3,770,625, 11-6-73, Cl. 210-36.000.

Wallis, Frank: *See—*
Monger, Kenneth Sydney; and Wallis, Frank, 3,761,181.

Wallis, Stanley B., to Ford Motor Company. Vehicle passenger compartment pressure relief system. 3,732,801, 5-15-73, Cl. 98-2.050.

Wallischeck, Karl H.: *See—*
Kudasch, George; and Wallischeck, Karl H., 3,765,794.

Wallman, Irwin, to Consolidated Airborne Systems, Inc. Compensated fuel gage. 3,728,897, 4-24-73, Cl. 73-304.00c.

Wallman, Irwin, to Consolidated Airborne Systems, Inc. Probe mounted electronics for fuel gage system. 3,747,407, 7-24-73, Cl. 73-304.00c.

Wallmuller, Hugo, to GHH-M.A.N. Technik Gesellschaft fur Anlagenbau mbH. Ion-exchanger. 3,731,810, 5-8-73, Cl. 210-189.000.

Wallo, William H., to Wall-Able Manufacturing Corporation. Phono plug and method of making. 3,723,949, 3-27-73, Cl. 339-177.00r.

Wallover, James I., to Wallover Oil Company. Continuously regenerating active earth filtering apparatus for liquid wastes. 3,762,554, 10-2-73, Cl. 210-179.000.

Wallover Oil Company: *See—*
Wallover, James I., 3,762,554.

Wallrabenstein, Michael: *See—*
Rupp, Hans-Dieter; Siggel, Erhard; Meyer, Gerhard; Worbs, Ernst-Georg; Wallrabenstein, Michael; and Schopf, Albert, 3,719,681.

Wallrabenstein, Michael; Schopf, Albert; and Frank, Dieter, to Glanzstoff AG. Production of a polyacyloxalamidrazone. 3,718,625, 2-27-73, Cl. 260-78.0tf.

Walls, Donald C., to Western Electric Company, Incorporated. Mask alignment methods. 3,759,767, 9-18-73, Cl. 156-17.000.

Walls, Gordon William, to Commonwealth Scientific and Industrial Research Organization. Formation of twisted thread assemblies. 3,717,988, 2-27-73, Cl. 57-34.0at.

Walls, John H., to Stang Hydronics Inc. Horizontal-axis vehicle gate incorporating locking mechanism. 3,775,912, 12-4-73, Cl. 49-131.000.

Walls, Leslie Percy. 1-Amidino-3-(substituted-phenyl) urea antimalarial composition and method of use. 3,761,597, 9-25-73, Cl. 424-304.000.

Wallshein, Melvin. Brackets for supporting arch wires, and adapted to junction in orthodontic procedures in systems for tilting, uprighting and turning teeth. 3,724,074, 4-3-73, Cl. 32-14.00a.

Wallskog, Alan G.: *See—*
Kelby, Edward, Jr.; and Wallskog, Alan G., 3,745,433.

Wallskog, Alan G., to Teletype Corporation. Linear electric motor and displacement process. 3,771,034, 11-6-73, Cl. 318-135.000.

Wallsten, Hans Ivar, to AB Inventing. Press or flatiron surface. 3,716,934, 2-20-73, Cl. 38-93.000.

Wally, Harry W. Tape playback for playing through a radio receiver. 3,751,601, 8-7-73, Cl. 179-100.110.

Wally, Joseph H., Jr.; and Wilson, Samuel E., to Western Blue Print Co. Overhead rail supporting structure for photographic apparatus. 3,724,948, 4-3-73, Cl. 355-55.000.

Wally, Joseph H., Jr., to Western Blue Print Co. Vacuum film platen and condenser lens assembly for photo reproduction apparatus. 3,734,615, 5-22-73, Cl. 355-76.000.

Wally, Joseph H., Jr., to Western Blue Print Co. Photoreproduction apparatus with auxiliary film holder. 3,762,816, 10-2-73, Cl. 355-73.000.





Wally, Robert F., to Phillips Petroleum Company. Hydrochloric





Walsh, George M.; and Chramiec, Mark A., to Raytheon Company.

Walter, Harry J. Split needle assembly for catheter tube. 3,713,442,

Walters, Glenn A.; and Troester, Richard H., to Cubic Corporation.

Wally, Robert F., to Phillips Petroleum Company. Hydrochloric acid/hydrofluoric acid treatment to remove asbestor fibers from a well bore. 3,708,014, 1-2-73, Cl. 166-307.000.

Walmet, Gunnar E.: *See—*
Corman, James; Walmet, Gunnar E.; Urbaetis, Stanely P.; and Dimond, Herbert M., 3,769,551.
Corman, James C.; and Walmet, Gunnar E., 3,746,081.
Staub, Fred W.; Corman, James C.; and Walmet, Gunnar E., 3,710,295.

Walmsley, Martin F.; and Cross, John Valentine, to Labatt, John, Limited. Process for making a brewer's wort beer. 3,712,820, 1-23-73, Cl. 99-51.000.

Walmsley, Martin F.; and Cross, John V., to Labatt, John Limited. Process for making a brewers' wort. 3,716,365, 2-13-73, Cl. 99-51.000.

Walmsley, Martin Francis; and Cross, John Valentene, to Labatt, John, Limited. Preparation of a brewers' wart. 3,719,500, 3-6-73, Cl. 99-52.000.

Walmsley, Robert Edwin, to Lucas, Joseph, (Industries) Limited. Pump control mechanism. 3,736,073, 5-29-73, Cl. 417-222.000.

Walon, Raoul Guillaume Philippe, to CPC International, Inc., mesne. Process for the production of D-arabinose. 3,755,294, 8-28-73, Cl. 260-209.00r.

Walpole, David Valentine: *See—*
Phoenix, Lancelot; and Walpole, David Valentine, 3,745,392.

Walpole, Floyd N., to United States of America, Army. Rod alignment device for fluid power cylinders. 3,750,536, 8-7-73, Cl. 92-165.000.

Walpro Plastics N.V.: *See—*
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Walquist, Kermit H., to Shur Foot Tractor Company. Hillside tractor. 3,712,404, 1-23-73, Cl. 180-41.000.

Walrafen, George Edouard: *See—*
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Walraven, Anthonie, to U.S. Philips Corporation. Floating magnetic head system with variable curvature shoe. 3,732,552, 5-8-73, Cl. 340-174.10e.

Walraven, Laurentius Dominicus Johanna Margaretha; and Hoogenboom, Hendericus Gerardus. Tube bending process. 3,740,991, 6-26-73, Cl. 72-342.000.

Walraven, Thomas A.; Maropis, Nicholas; Elmore, William C.; and Devine, Janet, to Aeroprojects Incorporated. Welding apparatus. 3,765,589, 10-16-73, Cl. 228-1.000.

Walser, Armin: *See—*
Hellerbach, Joseph; and Walser, Armin, 3,732,211.
Hellerbach, Joseph; and Walser, Armin, 3,763,144.
Hellerbach, Joseph; Walser, Armin; Breischneider, Hermann; and Rudolph, Werner, 3,772,271.
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Surmatis, Joseph Donald; and Walser, Armin, 3,732,214.

Walser, Glenn E.: *See—*
Stuller, Howard E.; and Walser, Glenn E., 3,732,636.

Walser, Karl: *See—*
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Walser, Melvin L.; and Lindly, Ross N., to Clark Equipment Company. Stabilizer and positive ejection mechanism for earth moving apparatus. 3,742,628, 7-3-73, Cl. 37-124.000.

Walser, Melvin L., to Clark Equipment Company. Kingpin coupling for tractor scraper. 3,768,836, 10-30-73, Cl. 280-492.000.

Walser, Rodger M.; and Bene, Robert W. Method and apparatus for detecting radiation by means of the pyromagnetic effect. 3,727,053, 4-10-73, Cl. 250-83.30h.

Walser, Rudolf: *See—*
Schneider, Felix; Oerter, Manfred; and Walser, Rudolf, 3,741,027.

Walser, Rudolph; and Givin, William R., to Huyck Corporation. Mounting structure for paper machine drainage foils. 3,743,574, 7-3-73, Cl. 162-352.000.

Walsh, Carroll H. Hand nutcracker with shell guard and nut unloader. 3,713,468, 1-30-73, Cl. 99-580.000.

Walsh, Carroll H. Coin wrapping machine. 3,760,562, 9-25-73, Cl. 53-212.000.

Walsh, Cyral M., to Lear Siegler, Inc. Warning signal multiplexer circuit. 3,761,907, 9-25-73, Cl. 340-213.00r.

Walsh, David P.; and Walsh, Joanne M. Multi-transport system. 3,722,948, 3-27-73, Cl. 296-35.00a.

Walsh, Edward J., Jr., to Eastman Kodak Company. Color sound motion picture film prints with minimal fogged grain related noise in sound track. 3,758,300, 9-11-73, Cl. 96-4.000.

Walsh, Edward N., to Stauffer Chemical Company. Hydrocyalkylcarbamylalkylphosphonates. 3,742,095, 6-26-73, Cl. 260-943.000.

Walsh, Edward Nelson, to Stauffer Chemical Company. O-loweralkyl-S-(2-oxopropyl-1) phosphonodithioates. 3,725,512, 4-3-73, Cl. 260-946.000.

Walsh, George E. Christmas tree container. 3,729,039, 4-24-73, Cl. 150-52.00r.

Walsh, George M.: *See—*
Moss, George J., Jr.; and Walsh, George M., 3,710,310.

Walsh, George M.; and Chramiec, Mark A., to Raytheon Company. Contour measuring apparatus especially for use in a sea bottom elevation measurement. 3,716,825, 2-13-73, Cl. 340-3.00r.

Walsh, George M., to Raytheon Company. Apparatus for differentiating between side lobe and main lobe returns in depth sounding systems. 3,723,952, 3-27-73, Cl. 340-3.00r.

Walsh, Joanne M.: *See—*
Walsh, David P.; and Walsh, Joanne M., 3,722,948.

Walsh, John A., to Honeywell Information Systems, Inc. Apparatus for providing improved identification of electrical terminals. 3,778,751, 12-11-73, Cl. 339-113.00r.

Walsh, Joseph M., to United States of America, Atomic Energy Commission, mesne. Nuclear engine flow reactivity shim control. 3,778,344, 12-11-73, Cl. 176-22.000.

Walsh, Kenneth A.; and Sandor, Andrew J., to Brush Beryllium Company, The. Beneficiation of beryllium. 3,713,810, 1-30-73, Cl. 75-101.00r.

Walsh, Kenneth Allen: *See—*
Connor, Denis John; Lims, John Ormond; and Walsh, Kenneth Allen, 3,752,913.

Walsh, Myles Alexander: *See—*
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Walsh, Raymond I., to Motorola, Inc. Tape cartridge ejector system for cassette tape player. 3,758,121, 9-11-73, Cl. 274-4.00e.

Walsh, Robert D. Heat exchanger for furnace pipes and the like. 3,736,961, 6-5-73, Cl. 138-38.000.

Walsh, Robert J., to Burroughs Corporation. Integrated positive pressure and self-purge system. 3,731,291, 5-1-73, Cl. 340-174.10e.

Walsh, Robert L. Transportation system. 3,774,542, 11-27-73, Cl. 104-89.000.

Walsh, Robert R. Optical read-out means for locating and positioning objects with respect to a laser beam reference. 3,708,232, 1-2-73, Cl. 356-172.000.

Walsh, Thomas C.: *See—*
Plowman, James S.; and Walsh, Thomas C., 3,720,480.

Walsh, Thomas C.; and Street, David, to United Aircraft Corporation. Root pads for composite blades. 3,752,600, 8-14-73, Cl. 416-219.000.

Walsh, Thomas F.: *See—*
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Walsh, Thomas M., to United States of America, National Aeronautics and Space Administration. Interferometric rotation sensor. 3,729,260, 4-24-73, Cl. 356-110.000.

Walsh, Vincent T.; Henningsen, Erik; and Burns, Frederick B., to EZ Paintr Corporation. Mechanical paint scraper. 3,731,338, 5-8-73, Cl. 15-236.00r.

Walsh, William Henry: *See—*
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Walsh, William J.: *See—*
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Walsh, William J.; Livers, Joseph A.; Mueller, Robert S.; and Hill, Warren R., to Eaton Yale & Towne, Inc. Vehicle speed control. 3,715,006, 2-6-73, Cl. 180-105.00e.

Walsh, William Kershaw; and Rutherford, Henry Ames, to Research Corporation. Method for decreasing the flammability of cellulosic fabrics. 3,709,658, 1-9-73, Cl. 8-129.000.

Walstedt, Russell Erwin: *See—*
Walker, Laurence Richard; and Walstedt, Russell Erwin, 3,774,404.

Walstrom, Leslie R., to Ideavelopment, Inc. Tamper resistant fastening apparatus. 3,709,401, 1-9-73, Cl. 220-55.00c.

Walstrom, Leslie R., to Fabri-Tek Incorporated. Optical printer. 3,754,452, 8-28-73, Cl. 95-4.50r.

Walter, Berthold: *See—*
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Walter, Dietmar: *See—*
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Walter, Earl Richard: *See—*
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Walter, Friedrich: *See—*
Schwab, Johann; Zehner, Albert; Kratochvil, Egon; and Walter, Friedrich, 3,752,449.

Walter, Georg, to Siemens Aktiengesellschaft. Semiconductor component with semiconductor body sealed with synthetic covering material. 3,713,007, 1-23-73, Cl. 317-23.40r.

Walter, George, to Malco Mfg., Inc. Method and apparatus for mounting connector clips. 3,762,043, 10-2-73, Cl. 29-629.000.

Walter, Gerald Joseph: *See—*
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Walter, Gerhard W. H.; and Pietsch, Gunter E. W., to Howaldtswerke-Deutsche Werft Aktiengesellschaft Hamburg und Kiel. Seals for rotatable members. 3,773,336, 11-20-73, Cl. 277-9.000.

Walter, Glennon P. Rack for bottles and cans. 3,759,593, 9-18-73, Cl. 312-312.000.

Walter, Gustav: *See—*
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Walter, Harry J. Split needle assembly for catheter tube. 3,713,442, 1-30-73, Cl. 128-214.400.

Walter, Harvey J.: *See—*
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Walter, Heinz E., to Singer Company, The, mesne. DC control circuits for direct drive motors continuously coupled to sewing machines for controlling sewing functions. 3,715,642, 2-6-73, Cl. 318-269.000.

Walter, Henry C.: *See—*
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Walter, Henry J.; and Levine, Harvey, to Clairol Incorporated. Mist applicator comb. 3,721,250, 3-20-73, Cl. 132-11.00a.

Walter, Henry J.; Doyle, Edward J.; and Ream, Robert R., to Schick Incorporated. Hair setting-drying device. 3,727,322, 4-17-73, Cl. 34-99.000.

Walter, Henry J., to Clairol Incorporated. Make-up mirror. 3,757,103, 9-4-73, Cl. 240-4.200.

Walter, Homer E.; and Sadler, Arthur M. Continuous production of cheese curd. 3,748,149, 7-24-73, Cl. 99-116.000.

Walter, Jack C., to Honeywell Inc. Supervisory or monitoring apparatus. 3,717,859, 2-20-73, Cl. 340-213.00r.

Walter, Jack William, to Du Pont de Nemours, E. I., and Company. Separation of organic phosphorus compounds and their metal complexes for organic nitriles in the hydrocyanation of olefins. 3,773,809, 11-20-73, Cl. 260-465.80r.

Walter, Jacques, to Agence Nationale de Valorisation de la Recherche (ANVAR). Device for corona treatment of a layer of plastic material. 3,754,117, 8-21-73, Cl. 219-383.000.

Walter, Jean-Jacques, to Agence Nationale de Valorisation de la Recherche (ANVAR). Continuous production machine for the manufacture of a composite tubular element. 3,772,118, 11-13-73, Cl. 156-172.000.

Walter, John L.; and Gigliotti, Michael F. X., to General Electric Company. Inhibiting D-C notching effect in incandescent lamp filaments. 3,759,602, 9-18-73, Cl. 316-20.000.

Walter, Jurgen; and Hackforth, Bernhard. Combined clutch and flexible coupling. 3,777,865, 12-11-73, Cl. 192-70.000.

Walter, Lewis A. 1-(Di-lower alkyl amino lower alkyl)-2-phenyl-5,6,7,8-tetrahydroindolizines. 3,717,644, 2-20-73, Cl. 260-293.530.

Walter, Lewis A., to Schering Corporation. Substituted benzazepines for producing skeletal muscle relaxation. 3,743,731, 7-3-73, Cl. 424-244.000.

Walter, Lewis A., to Schering Corporation. Pyrazine derivatives. 3,770,737, 11-6-73, Cl. 260-250.00r.

Walter, Marc, to Agence Nationale de Valorisation de la Recherche (ANVAR). Winding machine. 3,736,739, 6-5-73, Cl. 57-13.000.

Walter, Richard T., to Container Corporation of America. Apparatus and method for forming article carriers. 3,710,535, 1-16-73, Cl. 53-3.000.

Walter, Robert L.; and Kelly, Earl L. Adjustable camshaft sprocket wheel. 3,734,073, 5-22-73, Cl. 123-90.150.

Walter, Vincent J. Video and audio passing and lane changing signaling system for vehicles. 3,771,096, 11-6-73, Cl. 339-3.000.

Walter, William C. Ground effect vehicle. 3,747,726, 7-24-73, Cl. 180-129.000.

Walter, William H.; and Mesnik, Robert F., to Emhart Corporation. Method and means for detecting foreign particles in liquid filled containers. 3,777,169, 12-4-73, Cl. 250-565.000.

Walter, William R. Binary adjustment for water skis. 3,750,204, 8-7-73, Cl. 9-310.0aa.

Walters, Andrew W.: *See—*
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Walters, Arley: *See—*
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Walters, Blaine F.; Stutzman, William E.; and Fink, Ray S. Stitching machine for renewing pneumatic tires. 3,741,848, 6-26-73, Cl. 156-421.000.

Walters, Carley Baker. Eye device. 3,762,419, 10-2-73, Cl. 128-403.000.

Walters, Cecil Kent, to Motorola, Inc. Minimized temperature coefficient voltage standard means. 3,780,322, 12-18-73, Cl. 307-318.000.

Walters, Charles W.: *See—*
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Walters, Craig T.: *See—*
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Walters, Donald E.: *See—*
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Walters, Frank, to Ferranti Limited. Gaseous discharge display device with a layer of electrically resistive material. 3,735,183, 5-22-73, Cl. 313-188.000.

Walters, Glenn A. Precision angle measuring device. 3,708,231, 1-2-73, Cl. 356-152.000.

Walters, Glenn A. Scaled scan control system for conformal arrays. 3,710,330, 1-9-73, Cl. 343-100.0sa.

Walters, Glenn A.; and Troester, Richard H., to Cubic Corporation. Collapsible radome and antenna system. 3,754,267, 8-21-73, Cl. 343-705.000.

Walters, Gordon E., to Sprague Electric Company. Means and method of web slitting and winding. 3,750,973, 8-7-73, Cl. 242-56.200.

Walters, Herbert J. Combination corner lock and hanger. 3,709,533, 1-9-73, Cl. 287-189.36h.

Walters, John; and Garishore, Ian S., to Canadian Patents and Development Limited. Aerial planting method and apparatus. 3,755,962, 9-4-73, Cl. 47-34.000.

Walters, John C. Car wash installation. 3,759,275, 9-18-73, Cl. 134-45.000.

Walters, John Mary. Electromagnetic relays. 3,763,448, 10-2-73, Cl. 335-135.000.

Walters, John P., to Wisconsin Alumni Research Foundation. Adjustable waveform spark source. 3,749,975, 7-31-73, Cl. 315-241.00r.

Walters, Joseph J.; and McGibbon, Verdun R., to Lukens Steel Company. Method of removing smoke and fumes produced by flame cutting of metal plates received on a burning table. 3,769,097, 10-30-73, Cl. 148-9.00r.

Walters, Klemenes C. Cup grinding wheels. 3,716,951, 2-20-73, Cl. 51-209.00r.

Walters, Patrick A.: *See—*
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Walters, Robert M. Analog computer for processing delta rosette strain gage data. 3,755,658, 8-28-73, Cl. 235-151.300.

Walters, Roger E., to Ralston Purina Company. Poultry processing apparatus. 3,718,083, 2-27-73, Cl. 99-532.000.

Walters, Roger E., to Ralston Purina Company. Method and apparatus for preparing a poultry product. 3,732,113, 5-8-73, Cl. 99-174.000.

Walters, Ronald Bernard, to Sperry Rand Limited. Hydraulic actuator controls. 3,763,746, 10-9-73, Cl. 91-433.000.

Walters, Ronald G.; and Zwitter, Thomas M. Variable speed pulse drive. 3,722,305, 3-27-73, Cl. 74-125.500.

Walters, Ronnie G.: *See—*
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Zwitter, Thomas M.; and Walters, Ronnie G., 3,764,831.

Walters, Ronnie G., to Allen-Bradley Company. Circular interpolation by finite differences. 3,728,528, 4-17-73, Cl. 235-152.000.

Walters, Ronnie G.; Markley, Theodore J.; and Jennings, Richard E., to Allen-Bradley Company. Feedback fault indicate circuit. 3,778,696, 12-11-73, Cl. 318-565.000.

Walters, Russell W., to BMR Security Products Corporation, mesne. Locking bar assembly. 3,711,894, 1-23-73, Cl. 16-144.000.

Walters, Theodore M., to Brown, Charles H. Liquid filter. 3,731,814, 5-8-73, Cl. 210-411.000.

Walters, William L., to General Motors Corporation. Electronic combination lock. 3,766,400, 10-16-73, Cl. 307-10.0at.

Walthams (Bognor Regis) Limited: *See—*
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Walther & Cie Aktiengesellschaft: *See—*
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Walther, Bernard Lpu: *See—*
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Walther, Bernhard, to VEB Filmfabrik Wolfen-Fotochemisches Kombinat. Cartridge especially for film. 3,722,387, 3-27-73, Cl. 95-31.00r.

Walther, Bernhard, to VEB Filmfabrik Wolfen-Fotochemisches Kombinat. Film cartridge. 3,745,899, 7-17-73, Cl. 95-19.000.

Walther Buromaschinen GmbH: *See—*
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Walther, Carl, Sportwaffenfabrik: *See—*
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Walther, Dieter H., to International Standard Electric Corporation. Voltage adaptor circuit. 3,737,761, 6-5-73, Cl. 307-130.000.

Walther, Gerhard; Bauer, Rudolf; Schulz, Werner; and Sirrenberg, Walther, to Boehringer Ingelheim G.m.b.H. Pharmaceutical compositions containing tropanol esters of alpha-phenyl-alpha-cyclopentyl-acetic acid and methods of use. 3,743,735, 7-3-73, Cl. 424-25.000.

Walther, Guntram: *See—*
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Walther, John S., to Hewlett-Packard Company. Elementary floating point cordic function processor and shifter. 3,766,370, 10-16-73, Cl. 235-156.000.

Walther, Milton F., to Lufkin Industries, Inc. Apparatus for servicing and operating a reciprocal well pump or the like. 3,771,609, 11-13-73, Cl. 173-29.000.

Walther, William D., to Dayton Steel Foundry Company, The. Slider mount for fifth wheels. 3,722,914, 3-27-73, Cl. 280-407.000.

Walther, William D.; and Deregnaucourt, Robert A., to Dayton Steel Foundry Company, The. Rims. 3,759,307, 9-18-73, Cl. 152-396.000.





Walthier, Thomas N.; Rosefelder, Andre Marcel; and Schatz, Clifford E., to Bear Creek Mining Company. Free fall bottom

Velten, Edmund M.; Jagaciak, George J.; Wambold, John N.;





Wang, An; Koplow, Harold Stanley; and Ho, Shu-Kuang, Wano, Haruhiko: *See—*

Walthier, Thomas N.; Rosefelder, Andre Marcel; and Schatz, Clifford E., to Bear Creek Mining Company. Free fall bottom sampler. 3,750,547, 8-7-73, Cl. 95-11.000.
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Walton, Hyman, to United Kingdom Atomic Energy Authority. Shaft movement/differential pressure measuring apparatus embodying capacitive transducers. 3,742,347, 6-26-73, Cl. 324-61.00r.
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Walton, John Hugh Davey. Analog computer for solving sets of simultaneous relations. 3,715,575, 2-6-73, Cl. 235-180.000.
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Walton, Richard S., to HMW Industries, Inc. Liquid crystal display circuit. 3,760,406, 9-18-73, Cl. 340-336.000.
Walton, Roger H., to United States of America, Air Force. Assembly of a pallet towing bridle and method of use. 3,724,814, 4-3-73, Cl. 254-133.000.
Walton, William Byron, to Clark Equipment Company. Synchronizing pulse generator for communication network. 3,781,565, 12-25-73, Cl. 307-106.000.
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Walukonis, John S., Jr.; and Banks, Donald D., to Anaconda Wire and Cable Company. Latex applicator. 3,716,023, 2-13-73, Cl. 118-420.000.
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Walz, Heinrich; and Bloom, Ray A., to Timken Company, The. Method for adding manganese alloying member to steel. 3,741,753, 6-26-73, Cl. 75-129.000.
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Wanesky, William R., to Western Electric Company, Incorporated. Apparatus for microscopically inspecting opposite sides of objects. 3,778,131, 12-11-73, Cl. 350-81.000.
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Wang, An; Koplow, Harold Stanley; and Ho, Shu-Kuang, to Wang Laboratories, Inc. Programmable calculators having display means and multiple memories. 3,760,171, 9-18-73, Cl. 235-156.000.
Wang, Ben C., to Wang Computer Products, Inc. Tape transport arrangements. 3,761,035, 9-25-73, Cl. 242-182.000.
Wang, Chao Chen, to Sperry Rand Corporation. Base band pulse energy storage system. 3,778,732, 12-11-73, Cl. 333-20.000.
Wang, Cheng-Hua, to Honeywell Inc. Print head and platen printer device. 3,768,620, 10-30-73, Cl. 197-18.000.
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Wang, Herbert: *See—*
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Wang, Jerry Chi, to Dart Industries, Inc. Aging of impregnated foamable beads. 3,725,320, 4-3-73, Cl. 260-2.50b.
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Wang, Raymond C., to Motorola, Inc. Method of producing low threshold complementary insulated gate field effect devices. 3,759,763, 9-18-73, Cl. 148-188.000.
Wang, Reywend. Multiple memo timing device with adjustable pin conductors. 3,752,943, 8-14-73, Cl. 200-33.00r.
Wang, Rong-Shuang. Diapers, disposable diapers and disposable diapers with water-proof layer. 3,759,261, 9-18-73, Cl. 128-287.000.
Wang, Samuel Shan-Ning; and Rossler, Donald Francis, to American Cyanamid Company. Tacky low-temperature curing polyisocyanate adhesive composition. 3,763,274, 10-2-73, Cl. 260-858.000.
Wang, Shaw S.: *See—*
Vieth, Wolf R.; Wang, Shaw S.; Gilbert, Seymour G.; and Saini, Rakesh, 3,758,396.
Wang, Teh Po: *See—*
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Wang, Ting-I.: *See—*
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Wang, Tsuey Tang: *See—*
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Wankel G.m.b.H.: *See—*
Froede, Walter; Wilmers, Gottlieb; and Dekitsch, Anton, 3,765,392.
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Wanlass, Bert R.: *See—*
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Wanlass, Frank M., to North American Rockwell Corporation. Multiple phase clock generator circuit. 3,735,277, 5-22-73, Cl. 331-45.000.
Wannan, Mary Ellen. Toy for use with dolls. 3,736,695, 6-5-73, Cl. 46-12.000.
Wanner Engineering, Inc.: *See—*
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Wanner, John C.: *See—*
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Wanner, Karl, to Bosch, Robert, G.m.b.H. Cooling system for portable impulse transmitting machines. 3,718,193, 2-27-73, Cl. 173-117.000.
Wanner, Karl; Schmidt, Wolfgang; Bleicher, Manfred; Sigg, Horst; Lehmann, Werner; and Burklin, Max, to Bosch, Robert, G.m.b.H. Portable torque and impulse transmitting machine. 3,720,269, 3-13-73, Cl. 173-48.000.
Wanner, Karl; Bleicher, Manfred; Sigg, Horst; and Burklin, Max, to Bosch, Robert, G.m.b.H. Chuck for hammer drills or the like. 3,737,170, 6-5-73, Cl. 279-60.000.
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Wanner, Maurice Paul. Variable gage railway truck. 3,732,828, 5-15-73, Cl. 104-33.000.
Wanner, Vernon W., to Allen-Bradley Company. Selector switch actuator with part of detent means integral with actuator cam. 3,770,926, 11-6-73, Cl. 200-166.0sd.
Wanner, William F., to Wanner Engineering, Inc. Diaphragm pump. 3,775,030, 11-27-73, Cl. 417-388.000.
Wannfors, P. Magnus: *See—*
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Wanslik, Wilhelm; Ratheiser, Heinz; and Burger, Friedrich, to Krauss-Maffei Aktiengesellschaft. Power distributing transmission systems. 3,766,797, 10-23-73, Cl. 74-410.000.
Wantage, Terence Colclough; and Brookes, Ronald, to Esso Research and Engineering Company. Preparation of alkyl or aralkyl esters of dithiophosphoric acid or derivatives thereof by transesterification. 3,742,099, 6-26-73, Cl. 260-982.000.
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Wanzenberg, Frederick W.; and Wanzenberg, Fritz W. Deep sea mining system. 3,748,248, 7-24-73, Cl. 204-208.000.
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Warburton, Geoffrey; and Whetter, Ernest Robert, to Textron Limited, mesne. Sliding clasp fasteners. 3,750,605, 8-7-73, Cl. 112-265.000.
Warburton, Richard T., to Mobil Oil Corporation. Egg carton construction. 3,735,917, 5-29-73, Cl. 229-44.00r.
Warburton, William, to General Electric Company. Liquid cooled semiconductor device clamping assembly. 3,715,632, 2-6-73, Cl. 317-234.00r.
Ward & Son, Inc.: *See—*
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Ward, H. Kenneth, 3,722,812.
Ward, Allen C.: *See—*
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Ward, Benjamin F., to Westvaco Corporation. Dicarboxylic acid soaps. 3,734,859, 5-22-73, Cl. 252-108.000.
Ward, Benjamin F., to Westvaco Corporation. Selective reaction of fatty acids and their separation. 3,753,968, 8-21-73, Cl. 260-97.600.
Ward, Bobby L. Clothes carrier. 3,759,430, 9-18-73, Cl. 224-45.00t.
Ward, Charles C.: *See—*
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Ward, Clyde L., Jr., to United States of America, Navy. Cooling system for multiple electrical equipments. 3,754,596, 8-28-73, Cl. 165-107.000.
Ward, Delbert R.; and Rochelle, William R., to Brown & Root, Inc. Method and apparatus utilizing handled seal for submergible coupling. 3,730,537, 5-1-73, Cl. 277-1.000.
Ward, Dennis J., to Universal Oil Products Company. Steam reforming of hydrocarbons. 3,744,981, 7-10-73, Cl. 48-214.000.
Ward, Donald D. Wood veneer moisture detection equipment located on a production line. 3,748,578, 7-24-73, Cl. 324-65.00r.
Ward, Donald H.: *See—*
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Ward, Donald H., to Borg-Warner Corporation. Apparatus and method for cutting record discs. 3,711,658, 1-16-73, Cl. 179-100.40c.
Ward, Donnie L. Concrete form assembly tool. 3,756,562, 9-4-73, Cl. 254-29.00r.
Ward, Edward J.; and Way, Rodney, to Worcester Valve Company Limited, The. Servo-systems. 3,745,883, 7-17-73, Cl. 91-18.00c.
Ward, Edward John, to Norcon (Norris) Limited. Fluid control switching arrangements. 3,727,881, 4-17-73, Cl. 251-129.000.
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Chia, Enrique C.; Ward, George C.; and Lenaeus, George E., 3,735,802.
Cofer, Daniel B.; Mitchell, Francis Marion; Ward, George C.; and Kozak, Milan, 3,766,763.
Ward, George C.; and Lenaeus, George E., to Southwire Company. Apparatus for preliminary cooling of continuous casting machine. 3,766,967, 10-23-73, Cl. 164-283.0ms.
Ward, George Dewey, Jr., to Medical Controls, Inc. Mobile traction apparatus. 3,765,411, 10-16-73, Cl. 128-84.00c.
Ward, George Richard: *See—*
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Ward, George T., to International Paper Company. Paper web formation using dual fabrics. 3,743,571, 7-3-73, Cl. 162-203.000.
Ward, George W.: *See—*
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Ward, Gerald G. Cable laying device. 3,713,300, 1-30-73, Cl. 61-72.600.
Ward, H. Kenneth, to Ward & Son, Inc. Temperature control device. 3,722,812, 3-27-73, Cl. 236-15.00a.
Ward, Harlan R. Knock-down shelter. 3,739,536, 6-19-73, Cl. 52-63.000.
Ward, Harry M., III: *See—*
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Ward, Harry M., III; and Hackbarth, Eugene R., to Outboard Marine Corporation. Rotary combustion engine having a charge-cooled rotor and side and peripheral wall intake ports. 3,779,214, 12-18-73, Cl. 123-8.010.
Ward, Henry D., Jr., to Ward Machinery Company, The. Squaring and bundle counting machine. 3,744,649, 7-10-73, Cl. 214-6.0ba.
Ward, Irving A. Combination spray and aerator device. 3,768,735, 10-30-73, Cl. 239-428.500.
Ward, James E., to Tool & Equipment Mfg. Co., Inc. Quick disconnect tool coupling. 3,736,011, 5-29-73, Cl. 287-103.00a.
Ward, James S. Connection device for containers and the like. 3,739,905, 6-19-73, Cl. 206-46.0fr.
Ward, James S. Earth drilling apparatus with cable operated drive. 3,754,606, 8-28-73, Cl. 173-145.000.
Ward, John Ambrose, to AMP Incorporated. Connecting and mounting means for substrates. 3,764,955, 10-9-73, Cl. 339-65.000.
Ward, John C. Gas appliance igniter for a mobile living unit. 3,715,182, 2-6-73, Cl. 431-264.000.
Ward, John E., to Owens-Corning Fiberglas Corporation. Sizing composition and glass fibers treated therewith. 3,779,981, 12-18-73, Cl. 260-40.00r.
Ward, John H., to Optronics International, Inc. Apparatus for making and reconstructing reference beam coded holograms. 3,711,177, 1-16-73, Cl. 250-220.000.
Ward, John Joseph Bernard: *See—*
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Deffner, John F.; Tucci, Edmond R.; and Ward, John V., 3,733,361.
Ward, John W., to Union Oil Company of California. Catalytic hydrocracking of ammonia containing feedstocks. 3,781,199, 12-25-73, Cl. 208-89.000.
Ward Leonard Electric Co., Inc., mesne: *See—*
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Ward Machinery Company, The: *See—*
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Watson, Raymond Slaysman, 3,745,864.
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Ward, Norman Reginald, to British Aircraft Corporation Limited. Fuseheads. 3,717,096, 2-20-73, Cl. 102-28.00m.
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Ward, Peter Thomas, to Owen Rubery & Co., Limited. Means for connecting members together. 3,729,222, 4-24-73, Cl. 294-67.00r.
Ward, Peter Thomas, to Rubery, Owen & Co. Limited. Load handling means. 3,767,250, 10-23-73, Cl. 294-81.0sf.
Ward, Peter Thomas; Smith, Richard Terence; and Siverns, Donald, to Rubery, Owen & Co., Limited. Hydraulic systems. 3,770,076, 11-6-73, Cl. 180-66.00r.
Ward, Raymond W.; and Yows, Phillip W., to Litton Systems, Inc. Display buffer. 3,748,652, 7-24-73, Cl. 340-173.00r.
Ward, Richard, to Dobson Park Industries Limited. Fluorescent lamp circuit driven initially at lower voltage and higher frequency. 3,710,177, 1-9-73, Cl. 315-106.000.
Ward, Richard W., to K-D Lamp Company. Traffic warning device. 3,766,881, 10-23-73, Cl. 116-63.00p.
Ward, Robert George: *See—*
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Ward, Robert J.; and Critchfield, Frank E., to Union Carbide Corporation. Thermoplastic polyurethanes soluble in methyl ethyl ketone based on poly(caprolactone) diols. 3,761,439, 9-25-73, Cl. 260-32.80n.
Ward, Samuel W.; and Hilosky, Richard J. Data processing card retainer. 3,727,333, 4-17-73, Cl. 40-10.00r.
Ward, Sonne G. Snowmobile loading and unloading device for pickup trucks. 3,720,335, 3-13-73, Cl. 214-505.000.
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Ward, Thomas V., Jr., to Caterpillar Tractor Company. Swash plate gas compressor. 3,749,523, 7-31-73, Cl. 417-269.000.
Ward, Walter H., to South African Farm Implement Manufacturers Limited. V-type torsion bar tillage tines. 3,737,156, 6-5-73, Cl. 267-154.000.
Ward, Walter H., to South African Farm Implement Manufacturers, Limited. Seed dispenser having spring biased seed selectors. 3,741,437, 6-26-73, Cl. 221-219.000.
Ward, William A.: *See—*
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Ward, William C., to International Business Machines Corporation. Integrated circuit chip repair tool. 3,735,911, 5-29-73, Cl. 228-19.000.
Ward, William H.: *See—*
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Ward, William H., to Clark Equipment Company. Container handling device. 3,764,032, 10-9-73, Cl. 214-621.000.
Ward, William J., III, to General Electric Company. Method of separating mixtures of gases. 3,729,400, 4-24-73, Cl. 204-128.000.
Ward, William J., III; and Salemme, Robert M., to General Electric Company. Sulfonated polyxylene oxide as a permselective membrane for gas separations. 3,780,496, 12-25-73, Cl. 55-16.000.
Ward, William R., Jr., to Owens-Illinois, Inc. Apparatus for shearing uniform charges of glass from a molten stream of glass. 3,736,826, 6-5-73, Cl. 83-600.000.
Wardell, Winnifred A. Brush assembly. 3,768,109, 10-30-73, Cl. 15-21.00d.
Warden, Fuller; Lewis, Eugene W.; McNickle, Bernard F.; and Mills, Jack H. Disposable dental appliance and method for preparing and placing silver amalgam fillings. 3,715,806, 2-13-73, Cl. 32-60.000.
Wardwell, Charles H.; and Holcomb, Norman L., to Research Engineering & Manufacturing, Inc. Method of heat treating articles. 3,769,103, 10-30-73, Cl. 148-147.000.
Ware, Bennie R.: *See—*
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Ware, Chester D., to Trane Company, The. Refrigeration apparatus and method of operating for powered and non-powered cooling modes. 3,744,264, 7-10-73, Cl. 62-115.000.
Ware, Chester D., to Trane Company, The. Refrigeration apparatus and method of operating for powered and nonpowered cooling modes. 3,744,273, 7-10-73, Cl. 62-498.000.
Ware, Colin C. Silencer. 3,747,704, 7-24-73, Cl. 181-44.000.
Ware, Franklyn O.; and Hill, Alan M., to Lawrence Paper Company. Cooked flour-containing corrugated paperboard adhesives and use thereof. 3,775,144, 11-27-73, Cl. 106-150.000.
Ware, Franklyn O.; and Hill, Alan M., to Lawrence Paper Company. Corrugated paperboard adhesive. 3,775,145, 11-27-73, Cl. 106-150.000.
Ware, Josephine Varney: *See—*
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Ware, Paul; deceased (by Ware, Josephine Varney; executrix). Variable condenser compass pilot for marine vessels including a remote helm motor and a local follow up motor. 3,761,791, 9-25-73, Cl. 318-588.000.



Ware, R. Louis. Plant tray irrigation system. 3,772,827, 11-20-73, Cl. 47.39.000.
Ware, Richard E., to Sun Oil Company of Pennsylvania. Antibacterial laundry oil and dust control oil composition. 3,740,190, 6-19-73, Cl. 8-137.000.
Ware, Richard E., to Sun Oil Company of Pennsylvania. Antibacterial laundry oil and dust control oil composition. 3,740,191, 6-19-73, Cl. 8-137.000.
Ware, Richard E.; and Hall, Lewis W., Jr., to Sun Research and Development Co. Upgrading agricultural spray oil. 3,770,620, 11-6-73, Cl. 208-297.00r.
Ware, Richard S., Jr. Releasable trolling weight. 3,710,501, 1-16-73, Cl. 43-43.110.
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Warfield, Albert H.: *See—*
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Waring, James R., to GAF Corporation. Reducing corrosivity of solvent casting compositions. 3,717,484, 2-20-73, Cl. 106-14.000.
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Waring, Robert K., Jr., to Du Pont de Nemours, E. I., and Company. Storage and retrieval of analog information with magnetooptic readout. 3,736,385, 5-29-73, Cl. 179-100.2ch.
Waring, Robert Kerr, Jr., to Du Pont de Nemours, E. I., and Company. Magnetic buffer storage. 3,739,359, 6-12-73, Cl. 340-174.0yc.
Waring, Winfred F.: *See—*
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Warkentin, Aaron James. Box filling apparatus. 3,720,039, 3-13-73, Cl. 53-59.00w.
Warkentin, Aaron James. Semiautomatic tray packer for fruit. 3,765,149, 10-16-73, Cl. 53-160.000.
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Warman, Blair H. Patient transfer method and apparatus. 3,769,642, 11-6-73, Cl. 5-81.00a.
Warn, Herman K.; and Lejdegard, Sixten H. Pierce nut. 3,736,969, 6-5-73, Cl. 151-41.730.
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Warnant, Julien; and Farcilli, Andre, to Roussel-UCLAF. Novel pregnadiene. 3,761,591, 9-25-73, Cl. 424-242.000.
Warnant, Julien; Farcilli, Andre; and Toromanoff, Edmond, to Roussel-UCLAF. Process for preparing pentacyclic alkaloids. 3,770,724, 11-6-73, Cl. 260-239.30p.
Warnant, Julien; and Jolly, Jean, to Roussel-UCLAF. Novel preparation of trienic steroids. 3,781,311, 12-25-73, Cl. 260-397.450.
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Warneke, Carl J.; deceased (by Warneke, Mabel P.; administrator), to Sherwin-Williams Company, The. Curing photopolymerizable film-forming polymer coatings. 3,725,114, 4-3-73, Cl. 117-93.1cd.
Warneke, Carl J., to Sherwin-Williams Company, The. Amplification of induced radiation and means for attaining the same. 3,758,824, 9-11-73, Cl. 315-246.000.
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Wasson, Burton Kendall, to Frosst, Charles E., & Co. 4-(3-Amino-2-hydroxypropoxy)-1,2,5-thiadiazole compounds. 3,729,469, 4-24-73, Cl. 260-247.100.
Wasson, Burton Kendall, to Frosst, Charles E., & Co. Certain 4-(3-amino-2-hydroxypropoxy)-1,2,5-thiadiazole-3-carboxamides. 3,729,477, 4-24-73, Cl. 260-302.00d.
Wasson, Loerwood C., to Smith, A. O., Corporation. Corrosion guard system for electric water heater. 3,715,566, 2-6-73, Cl. 219-322.000.
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Kenkyusho and Kabushiki Kaisha Meidensha. Method and apparatus for drivin open-end spinning frame. 3,780,513, 12-25-73, Cl. 57-93.000.
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Waterloo, William C., to Graham Engineering Corporation. Apparatus for extruding synthetic plastic resins at low temperatures. 3,751,014, 8-7-73, Cl. 259-191.000.

Waterloo, William C., to Graham Engineering Corporation. Phase variator for blow molding equipment. 3,753,636, 8-21-73, Cl. 425-163.000.

Waterloo, William C., to Graham Engineering Corporation. Blow molding die. 3,753,639, 8-21-73, Cl. 425-387.000.

Waterloo, William C., to Graham Engineering Corporation. Blow molding machine. 3,764,250, 10-9-73, Cl. 425-326.000.

Waterloo, William C., to Graham Engineering Corporation. Side flow diverter for parison extruding head. 3,764,253, 10-9-73, Cl. 425-466.000.

Waterman, Donald H., to Valley Engineering, Inc. Load transferring hitch for steering a vehicle. 3,768,583, 10-30-73, Cl. 180-14.00r.

Waterman, Glenn Noble, to Edo Western Corporation. Pulse doppler and navigation system. 3,719,923, 3-6-73, Cl. 340-3.00d.

Waterman, Jacques Abraham; Shorr, Leonard Marshall; and Shaham, Ilan, to Israel Mining Industries-Institute for Research and Development. Vinyl halide interpolymers. 3,763,123, 10-2-73, Cl. 260-80.700.

Waterman, Neil S.; and Lachowicz, Stanley F., to Atlantic Design & Development Corporation. Collapsible tube metering closure. 3,734,350, 5-22-73, Cl. 222-92.000.

Waterman, Neil S., to Atlantic Design & Development Corporation. Liquid container dispensing closure. 3,734,359, 5-22-73, Cl. 222-484.000.

Watermann, Hans Dieter, to Arn. Kiekert Sohne. Motor-vehicle door latch with pivotal latching fork. 3,719,380, 3-6-73, Cl. 292-216.000.

Watermann, Hans-Dieter, to Arn. Kiekert Sohne. Motor-vehicle door latch with lock mechanism only actuatable with door closed. 3,781,045, 12-25-73, Cl. 292-216.000.

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Waters, Elmer D., to McDonnell Douglas Corporation. Oil well permafrost stabilization system. 3,749,163, 7-31-73, Cl. 166-57.000.

Waters, Elmer D., to McDonnell Douglas Corporation. Oil well permafrost stabilization system. 3,763,931, 10-9-73, Cl. 166-57.000.

Waters, Elmer Dale, to McDonnell Douglas Corporation. Method of making a heat pipe. 3,720,988, 3-20-73, Cl. 29-157.30r.

Waters, Ernest, 50% to Gagliardi, Louis J. Anti-polution device. 3,717,979, 2-27-73, Cl. 55-233.000.

Waters, Floyd, Jr.: *See*—
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Waters, Graham Thomas, to Imperial Chemical Industries Limited. Textured core yarns. 3,780,515, 12-25-73, Cl. 57-157.00r.

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Waters, James P., to United Aircraft Corporation. Three-dimensional image display system. 3,735,031, 5-22-73, Cl. 178-6.500.

Waters, James P., to United Aircraft Corporation. Hologram formation with a sparkle reference point source. 3,778,130, 12-11-73, Cl. 350-3.500.

Waters, John E., Jr. Fishing lure. 3,729,850, 5-1-73, Cl. 43-42.370.

Waters, John H. Practice multiple bomb rack. 3,752,034, 8-14-73, Cl. 89-1.50g.

Waters, Kenneth H., to Continental Oil Company. Method and apparatus for seismic gain control through seismic signal coherence. 3,714,621, 1-30-73, Cl. 340-15.5tc.

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Waters, Robert S.; and Spohr, Albert R., to Sunbeam Corporation. Illuminated makeup mirror. 3,714,411, 1-30-73, Cl. 240-6.450.

Waters, Robert S.; and Spohr, Albert R., to Sunbeam Corporation. Reciprocating manicure device. 3,720,851, 3-13-73, Cl. 410-50.000.

Waters, Robert S.; and Liedtke, Ronald R., to Sunbeam Corporation. Hair dryer. 3,726,021, 4-10-73, Cl. 34-99.000.

Waters, Robert S.; and Liedtke, Ronald R., to Sunbeam Corporation. Portable hair dryer. 3,727,321, 4-17-73, Cl. 34-99.000.

Waters, Robert S.; Doyle, Edward J.; Rogers, Meyric K.; and Bartram, Nail C., to Schick Incorporated. Hair dryer. 3,775,861, 12-4-73, Cl. 34-99.000.

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Waters, William E., to Textron, Inc. Collapsible threaded insert device. 3,750,525, 8-7-73, Cl. 185-70.000.

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Waterworth, Thomas H.: *See*—
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Watin, Jean Benito, to Societe Miniere et Metallurgique de Penarroya. Flotation apparatus. 3,752,313, 8-14-73, Cl. 209-169.000.

Watkin, Bernard Curtis. Lumbar support pads. 3,765,721, 10-16-73, Cl. 297-460.000.

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Watkin, Theodore; and Wiseman, Donald F., to Technicon Instruments Corporation. Machine-transferrable pipette. 3,739,821, 6-19-73, Cl. 141-392.000.

Watkin, Theodore, to Watkin, Theodore, Friedman, Maurice W. and Friedman, Alfred S. Method for clipping folded articles of clothing and the like. 3,740,823, 6-26-73, Cl. 29-429.000.



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Watkins, Charles H., to Universal Oil Products Company. Two-stage desulfurization with solvent deasphalting between stages. 3,748,261, 7-24-73, Cl. 208-210.000.

Watkins, Charles H., to Universal Oil Products Company. Combination process for the conversion of hydrocarbonaceous black oil. 3,775,292, 11-27-73, Cl. 208-86.000.

Watkins, Charles H., to Universal Oil Products Company. Desulfurization of asphaltene-containing hydrocarbonaceous black oils. 3,775,293, 11-27-73, Cl. 208-86.000.

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Watkins, Reynold K., to United States Steel Corporation. Reinforced soil bridge. 3,735,595, 5-29-73, Cl. 61-16.000.

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Watsky, Benjamin. Germ protector toilet seat cover. 3,753,262, 8-21-73, Cl. 4-243.000.

Watson, Alan Reed, to Electro-Voice, Incorporated. Shock insensitive transducer. 3,766,333, 10-16-73, Cl. 179-115.50r.

Watson, Alvin N., to Monolithic Dielectrics, Inc. Capacitor with ceramic chip held in compression both laterally and axially by a glass sleeve. 3,732,469, 5-8-73, Cl. 317-261.000.

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Watson, Donald W., to Xerox Corporation. Article processing apparatus with feeder shuttle disconnect. 3,709,756, 1-9-73, Cl. 156-364.000.

Watson, Donald W. Article turnover conveyor. 3,729,189, 4-24-73, Cl. 271-65.000.

Watson, Donald W.; and Enskat, Albert G., to Xerox Corporation. Automatic loading apparatus. 3,776,544, 12-4-73, Cl. 271-3.000.

Watson, Edwin B.; and Fuller, Harlan I., to Bendix Corporation, The. Reciprocating plunger type fuel injection pump having electromagnetically operated control port. 3,779,225, 12-18-73, Cl. 123-139.00e.

Watson, Emmett S., to Roy, Milton, Company. Multichromatic multibeam absorption photometer. 3,728,031, 4-17-73, Cl. 356-195.000.

Watson, Frederick D.; and Jarvis, Howell R., to Petrolite Corporation. Shipboard electrical treater. 3,736,245, 5-29-73, Cl. 204-302.000.

Watson, Geoffrey Walter; and Jenkinson, Brian Edward, to A. I. Welders Limited. Friction welding. 3,735,910, 5-29-73, Cl. 228-2.000.

Watson, George A.; and Hamond, Arthur H., Jr., to AMP Incorporated. Data transmitting system. 3,720,790, 3-13-73, Cl. 179-15.0al.

Watson, George A., to Celanese Corporation. Continuous filament webs. 3,730,824, 5-1-73, Cl. 161-142.000.

Watson, George A., to Celanese Corporation. Process for making artificial leather from lapped fibrous structures. 3,740,282, 6-19-73, Cl. 156-148.000.

Watson, George A., to North American Rockwell Corporation. Method and apparatus for addressing a memory at selectively controlled rates. 3,743,755, 7-3-73, Cl. 84-1.010.

Watson, George A., to Celanese Corporation. Production of batting. 3,747,162, 7-24-73, Cl. 19-163.000.

Watson, George A., to Celanese Corporation. Method of incorporating solid particles with a multifilament tow. 3,756,886, 9-4-73, Cl. 156-166.000.

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Watson, James Power, to RCA Corporation. Magnetic drum head mount. 3,747,081, 7-17-73, Cl. 340-174.10c.

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Watson, James Power, to RCA Corporation. Magnetic drum head mount. 3,747,081, 7-17-73, Cl. 340-174.10c.
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Watt, John G., to National Research Development Corporation. Apparatus for use in the fractionation of proteinaceous solutions. 3,764,009, 10-9-73, Cl. 210-96.000.
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Watt, William Russell, to American Can Company. Photopolymerizable epoxy systems containing cyclic amide gelation inhibitors. 3,721,617, 3-20-73, Cl. 204-159.110.
Wattenbach, Hans L., to General Electric Company. Circuit for instant restart of high pressure discharge lamp. 3,732,460, 5-8-73, Cl. 315-123.000.
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Watts, James E., to Litton Systems, Inc. Portable water heater. 3,738,351, 6-12-73, Cl. 126-350.00r.
Watts, John D., to Hydril Company. Annular blowout preventer. 3,737,139, 6-5-73, Cl. 251-1.000.
Watts, John D., to Hydril Company. Method and apparatus for a control valve. 3,743,238, 7-3-73, Cl. 251-118.000.



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Wawzonek, Stanley; and Gueldner, Richard C., to Iowa State University Research Foundation, Inc. Process for preparing isocyanates. 3,781,319, 12-25-73, Cl. 260-453.00p.
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Waxman, Burton Harvey; Shannahan, Robert Thomas; and Viro, Felix, to GAF Corporation. Instant access one-layer color photography. 3,728,116, 4-17-73, Cl. 96-29.00d.
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Way, James A., to Schoger, H. L., & Associates, Inc. Furnace carrier and handling system. 3,735,965, 5-29-73, Cl. 34-227.000.
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Way, Robert W.; Clifford, Gilbert F.; Kenkel, Robert W.; Odell, Arthur W.; and Smith, Donald F., to Varian Adco. Random document locator. 3,738,487, 6-12-73, Cl. 209-80.500.
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Waymouth, John F.; Keeffe, William M.; and Gungle, W. Calvin, to GTE Sylvania Incorporated. High pressure electric discharge device with getter of barium peroxide and copper. 3,737,710, 6-5-73, Cl. 313-174.000.
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Wayne, Truman B. Apparatus for desolventizing solvent extracted milled rice and rice bran. 3,714,719, 2-6-73, Cl. 34-74.000.
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Wayne, Truman B. Apparatus for desolventizing solvent extracted milled rice and rice bran. 3,714,719, 2-6-73, Cl. 34-74.000.
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Weaver, Carnes W. Method and apparatus for drilling. 3,774,701, 11-27-73, Cl. 175-17.000.
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Weaver, John L.; and Smoot, Edward H., to Schlegel Manufacturing Company, The. Roof side rail weather seal. 3,775,907, 12-4-73, Cl. 49-491.000.
Weaver, Leon B.; and Pegden, Claude D., to United States of America, National Aeronautics and Space Administration. Multiple inline docking capability for rotating space stations. 3,744,739, 7-10-73, Cl. 244-1.0sd.
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Weaver, Max A.; and Wallace, David J., to Eastman Kodak Company. Polyamide fibers dyed with thiadiazolyl azo compounds. 3,738,802, 6-12-73, Cl. 8-41.00b.
Weaver, Max A.; Straley, James M.; and Moore, William H., to Eastman Kodak Company. Polyamide and polyester fibers dyed with a



1,2,4-thiadiazolylazo-3-(cyclohexylamino) acylanilide. 3,762,861, 10-2i73, Cl. 8-41.00r.
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Weaver, Max A.; and Wallace, David J., to Eastman Kodak Company. Polyamide fibers dyed with a thiadiazolyl azo compound. 3,770,370, 11-6-73, Cl. 8-41.00b.
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Webb, Albert A.; and Tullis, J. Paul, 70% to Webb, Albert A., 15% to Hanson, Fred H., 10% to Fowler, Knobbe & Martens and 5% to Tullis, J. Paul. Ball canister and system for controlling cavitation in liquids. 3,771,550, 11-13-73, Cl. 137-485.000.
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Webb, Thomas O., to Marathon Oil Company. Use of micellar solution as an emulsion breaker. 3,771,602, 11-13-73, Cl. 166-305.00r.
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Webb, Winfield Scott, to Gulton Industries, Inc. Spring loaded thermocouple unit and mounting cap therefor. 3,753,787, 8-21-73, Cl. 136-221.000.
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Elder, Ronald R., 3,732,639.
Webber, Henry: *See—*
Jewell, George S.; Parker, Robert E.; Dell, William; Etherington, Richard J.; and Webber, Henry, 3,727,120.
Webber, Henry, to Westinghouse Canada Limited. Servo corner compensation for photoelectric rotary scan line tracers. 3,725,761, 4-3-73, Cl. 318-577.000.
Webber, J. Alan; and Van Heyningen, Earle M., to Lilly, Eli, and Company. 3-Cyanomethyl-delta-3-cephalosporin antibiotics and intermediates. 3,708,480, 1-2-73, Cl. 260-243.00c.
Webber, J. Alan; and Van Heyningen, Earle M., to Lilly, Eli, and Company. Certain delta-3 cephalosporin compounds. 3,766,177, 10-16-73, Cl. 260-243.00c.
Webber, Peter B. Tripod and support therefor. 3,779,497, 12-18-73, Cl. 248-165.000.



Webbere, Fred J.: *See—*
Goodrich, George M.; Williams, Robert G.; and Webbere, Fred



Weber, Heinz Paul: *See—*
Weber, Kenneth E.; Wanamaker, John L.; and Hoch, Geraldine M.
Weber, Rolf: *See—*

Webbere, Fred J.: *See—*
Goodrich, George M.; Williams, Robert G.; and Webbere, Fred J., 3,726,333.
Webbere, Fred J.; and Williams, Robert G., to General Motors Corporation. Method of continuous casting. 3,730,251, 5-1-73, Cl. 164-82.000.
Webbere, Fred J.; and Williams, Robert G., to General Motors Corporation. Mold apparatus for continuous casting. 3,731,728, 5-8-73, Cl. 164-281.000.
Weber, A. R., AG: *See—*
Weber, Alwin Rolf, 3,713,626.
Weber, Abraham; and Frossard, Jacques Jean, to Mead Johnson & Company. Octalone carboxylic acids and their derivatives. 3,775,430, 11-27-73, Cl. 260-326.00c.
Weber, Albert C. Console-chair combination. 3,712,667, 1-23-73, Cl. 297-140.000.
Weber, Alman A. Reverse circulating foundation underreamer. 3,731,753, 5-8-73, Cl. 175-285.000.
Weber, Alwin Rolf, to Weber, A. R., AG. Mixing apparatus for pulverulent or granular material and improved method for mixing such material. 3,713,626, 1-30-73, Cl. 259-4.000.
Weber, Arthur Phineas, to Bethlehem Steel Corporation. Continuous-flow agitated reactor. 3,752,653, 8-14-73, Cl. 23-283.000.
Weber, Carl D.: *See—*
Son, Pyong-Nae; and Weber, Carl D., 3,732,286.
Weber, Charles H., III: *See—*
Pickard, John E.; and Weber, Charles H., III, 3,730,092.
Weber, Charles H., III; and Pickard, John E., to Grace, W. R., & Co. Laminated aluminum article and method. 3,748,190, 7-24-73, Cl. 148-6.200.
Weber, Charles L.: *See—*
Daspit, John I.; Jackman, Robert W.; and Weber, Charles L., 3,754,101.
Weber Dental Manufacturing Company, The: *See—*
Buchtel, Dean H.; Lappin, Kenneth R.; and Maurer, John A., 3,718,974.
Buchtel, Dean H.; Lappin, Kenneth R.; and Maurer, John A., 3,719,308.
Weber, Edwin J.: *See—*
Beckering, Jacobus J.; Weber, Edwin J.; and Secoura, Ralph J., 3,780,246.
Weber, Edwin J., to Black and Decker Manufacturing Company, The. Snap on shroud mounting. 3,729,912, 5-1-73, Cl. 56-320.100.
Weber, Edwin J.; and Pugh, Timothy G., to Black and Decker Manufacturing Company, The. Cordless power tool having removable battery pack. 3,757,194, 9-4-73, Cl. 320-2.000.
Weber, Edwin J.; and Sesta, Gerald J., to Black and Decker Manufacturing Company, The. Grass trimmer sharpening device. 3,768,163, 10-30-73, Cl. 30-138.000.
Weber, Ekke: *See—*
Muenchhausen, Meinolf; and Weber, Ekke, 3,713,098.
Weber, Ewald, to Werkzeugmaschinenfabrik Adolf Waldrich Coburg. Aligning device for workpieces on machine tool tables. 3,774,352, 11-27-73, Cl. 51-238.000.
Weber, Fritz; and Schiewek, Peter, to Siemens Aktiengesellschaft. Predetermined processing length in a numerically controlled machine tool. 3,766,368, 10-16-73, Cl. 235-151.110.
Weber, Guy, to La Cellophane. Method and apparatus for photoelectric reproduction of continuous relief originals. 3,724,028, 4-3-73, Cl. 178-6.60a.
Weber, Guy Paul: *See—*
Deshayes, Philippe-Marie; and Weber, Guy Paul, 3,732,016.
Weber, Guy Paul; and Deshayes, Philippe Marie. Method and apparatus for de-electrifying insulative materials. 3,716,754, 2-13-73, Cl. 317-2.00f.
Weber, Guy Paul. Control system for electrophotographic reproduction machines. 3,727,113, 4-10-73, Cl. 317-148.50b.
Weber, Hans: *See—*
Braun, Otto; and Weber, Hans, 3,726,117.
Probst, Willi; and Weber, Hans, 3,762,870.
Schmitz, Gunther; Weber, Hans; and Vogt, Christian, 3,719,542.
Weber, Hans J., to I-T-E Imperial Corporation. Insulation structure transformer windings. 3,713,061, 1-23-73, Cl. 336-70.000.
Weber, Hans J.; and Ruckel, James R., to I-T-E Imperial Corporation. Transformer winding structure using corrugated spacers. 3,748,616, 7-24-73, Cl. 336-60.000.
Weber, Heinz, to Telesco Brophey Limited. Self-closing umbrella. 3,729,012, 4-24-73, Cl. 135-25.000.
Weber, Heinz, to Telesco Brophey Limited. Umbrella. 3,732,880, 5-15-73, Cl. 135-20.000.
Weber, Heinz, to Telesco Brophey Limited. Umbrella and sheath. 3,744,502, 7-10-73, Cl. 135-20.000.
Weber, Heinz, to Telesco Brophey Limited. Shortenable umbrella. 3,744,504, 7-10-73, Cl. 135-26.000.
Weber, Heinz, to Telesco Brophey Limited. Handle or crown for umbrella. 3,760,827, 9-25-73, Cl. 135-46.00m.
Weber, Heinz, to Telesco Brophey Limited. Umbrella. 3,768,494, 10-30-73, Cl. 135-20.00r.
Weber, Heinz, to Telesco Brophey Limited. Collapsible umbrella. 3,780,748, 12-25-73, Cl. 135-20.00r.
Weber, Heinz Paul: *See—*
Chandross, Edwin Arthur; Tomlinson, Walter John, III; Ulrich, Reinhard; and Weber, Heinz Paul, 3,767,445.
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Weber, Helmut; Aumuller, Walter; Muth, Karl; and Weyer, Rudi, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. N-[4-( -<2-methoxy-5-chloro-benzamido>-ethyl) benzenesulfonyl]-N'-cyclopentyl-urea and process for its manufacture. 3,754,030, 8-21-73, Cl. 260-553.0da.
Weber, Horst: *See—*
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Weber, Hurst L.: *See—*
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Weber, John Herbert, to Westinghouse Electric Corporation. Spark plug electrode. 3,753,795, 8-21-73, Cl. 148-32.000.
Weber, John Q.: *See—*
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Weber, Jonathan T.; Brofft, B. Warren; and Coyne, Hugh J., to Positrol, Inc. Hydraulically controlled holding device. 3,770,287, 11-6-73, Cl. 279-2.000.
Weber, Jorg: *See—*
Brumm, Karl; Moos, Jakob; Weber, Jorg; Drott, Helmut; and Stelzig, Russelsheim, 3,738,197.
Weber, Joseph; Zipoy, David M.; and Forward, Robert L., to Hughes Aircraft Company. Detector of dynamic gravitational force gradient fields. 3,722,284, 3-27-73, Cl. 73-382.
Weber, Joseph, to Hughes Aircraft Company. Electrostatic coupled detector of dynamic gravitational force gradients. 3,722,285, 3-27-73, Cl. 73-382.
Weber, Joseph, to Hughes Aircraft Company. Dynamic gravitational force gradient transducer. 3,722,286, 3-27-73, Cl. 73-382.
Weber, Joseph, to Hughes Aircraft Company. Magnetic coupled detector of dynamic gravitational force gradients. 3,722,287, 3-27-73, Cl. 73-382.
Weber, Joseph, to Hughes Aircraft Company. Electromagnetic coupled detector of dynamic gravitational force gradients. 3,722,288, 3-27-73, Cl. 73-382.
Weber, Joseph, to Hughes Aircraft Company. Detector of dynamic gravitational force gradient fields. 3,722,289, 3-27-73, Cl. 73-382.
Weber, Joseph; and Zipoy, David M., to Hughes Aircraft Company. Detector of dynamic gravitational force gradient fields. 3,722,290, 3-27-73, Cl. 73-382.000.
Weber, Julius, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Exhaust gas muffler for internal combustion engines of vehicles. 3,749,199, 7-31-73, Cl. 181-38.000.
Weber, Karl: *See—*
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Weber, Karl Heinz; Bauer, Adolf; Danneberg, Peter; and Minck, Klaus, to Boehringer Ingelheim G.m.b.H. 2-(Alkoxy or alkylmercapto)-5-phenyl-4H-3, 5-dihydro-1,5-benzodiazepin-4-ones. 3,711,467, 1-16-73, Cl. 260-239.30b.
Weber, Karl Heinz; Zeile, Karl; Dannesberg, Peter; Giesemann, Rolf; and Hauptmann, Karl Heinz; deceased (by Hauptmann, Maria; heir), to Boehringer Ingelheim G.m.b.H. Pharmaceutical compositions containing a 5-phenyl-7-bromo -1H-1,5-benzodiazepinel-2,4-(3H,H)-dione. 3,760,074, 9-18-73, Cl. 424-244.000.
Weber, Karl-Heinz; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; and Hauptmann, Karl Heinz; deceased (by Hauptmann, Maria; heir), to Boehringer Ingelheim G.m.b.H. 5-Phenyl-7-bromo-1H-1,5-benzodiazepine-2, 4-(3H, 5H)-diones. 3,711,470, 1-16-73, Cl. 260-23.30b.
Weber, Karl-Heinz; Zeile, Karl; Danneberg, Peter; Giesemann, Rolf; Bauer, Adolf; Merz, Herbert; and Kuhn, Franz Josef, to Boehringer Ingelheim G.m.b.H. 1-(Phenyl or pyridyl)-4-(alkyl or alkenyl)-3h- 1,4-benzodiazepine-2,5-(1h,4h)-diones. 3,721,666, 3-20-73 Cl. 260-239.30d.
Weber, Kenneth E.; Wanamaker, John L.; and Ogne, Marshall L., to Lockheed Aircraft Corporation. Use of cobalt chromates in inhibiting galvanic corrosion. 3,756,836, 9-4-73, Cl. 106-14.000.



Weber, Kenneth E.; Wanamaker, John L.; and Hoch, Geraldine M., to Lockheed Aircraft Corporation. Coating compositions using liquid drying vehicles. 3,756,837, 9-4-73, Cl. 106-14.000.
Weber, Kent: *See—*
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Weber, Kurt, to Ciba-Geigy AG. Bis-benzoxazolyl-naphthalenes as optical brighteners. 3,767,664, 10-23-73, Cl. 260-307.00d.
Weber, Kurt H., to General Electric Company. Flash indicator for photoflash lamps. 3,707,903, 1-2-73, Cl. 95-11.50r.
Weber, Lee A.: *See—*
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Weber, Leonard J. Split-rate-meter construction. 3,708,049, 1-2-73, Cl. 194-84.000.
Weber, Lois: *See—*
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Weber, Mark. Apparatus for blood test. 3,734,079, 5-22-73, Cl. 128-2.00g.
Weber Marking Systems, Inc.: *See—*
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Weber, Martin, to SWF-Spezialfabrik fur Autozubehor Gustav Rau GmbH. Lighting system for motor vehicles. 3,723,721, 3-27-73, Cl. 240-7.10a.
Weber, Marvin J.: *See—*
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Weber, Marvin J., to Raytheon Company. Coupled ion eye-safe laser. 3,715,683, 2-6-73, Cl. 331-94.500.
Weber, Neill: *See—*
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Weber, Rainer Jorg, to General Motors Corporation. Internal combustion engine exhaust gas emission control apparatus. 3,758,278, 9-11-73, Cl. 23-288.00f.
Weber, Ralph A., to Addressograph-Multigraph Corporation. Traveling cylinder imprinter having settable type whirls with three peripheral sections. 3,757,688, 9-11-73, Cl. 101-45.000.
Weber, Raymond E.: *See—*
Hoffman, Jay; Weber, Raymond E.; and De Cottis, Constant J., 3,747,418.
Weber, Reinold. Combination desk and chair. 3,770,334, 11-6-73, Cl. 312-223.000.
Weber, Richard; and Mosler, Henry A., to Esso Research and Engineering Company. Temperature control of distillation. 3,773,627, 11-20-73, Cl. 203-2.000.
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Weber, Richard H.; and Chestnut, Benjamin F., to Mallory, P. R., & Co., Inc. Shaft locking device for a timer. 3,741,019, 6-26-73, Cl. 74-3.500.
Weber, Richard H.; and Schuder, Maurice E., to Mallory, P. R., & Co., Inc. Drive means for interval timer. 3,747,420, 7-24-73, Cl. 74-84.000.
Weber, Richard J.; and Franciscus, Leo C., to United States of America, National Aeronautics and Space Administration. Supersonic-combustion rocket. 3,777,490, 12-11-73, Cl. 60-258.000.
Weber, Richard M.: *See—*
Meeks, Merritt R.; Monroe, Roger F.; and Weber, Richard M., 3,777,934.
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Weber, Theodor: *See—*
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Weber, Theodore, Jr., to Cam Technology, Inc. Method and apparatus for automatic control. 3,760,170, 9-18-73, Cl. 235-151.110.
Weber, Ulrich, to Siemens Aktiengesellschaft. Apparatus for improving the signal information in the examination of samples by scanning electron microscopy or electron probe microanalysis. 3,714,424, 1-30-73, Cl. 250-49.50a.
Weber, Ulrich; and Gullasch, Jurgen, to Siemens Aktiengesellschaft. Apparatus for improving the signal information in the electron beam examination of sample topography. 3,736,422, 5-29-73, Cl. 250-49.5pe.
Weber, Ulrich, to Siemens Aktiengesellschaft. Electron-beam microanalyzer with an auger electron detector. 3,760,180, 9-18-73, Cl. 250-49.5pe.
Weber, Urban A.; and Janu, George J., to Johnson Service Company. Diaphragm actuated spool valve. 3,774,637, 11-27-73, Cl. 137-625.600.
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Weber, Wilhelm G.; Gresch, Pratteln Walter; and Stojanovic, Mutenz Ivan, to Buss A.G. Bulk polymerizer for vinyl chloride production. 3,726,648, 4-10-73, Cl. 23-260.000.
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Little, Carl H., 3,737,947.
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Webley & Scott Limited: *See—*
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Webster, David D., to Abex Corporation. Railroad frogs. 3,764,802, 10-9-73, Cl. 246-468.000.
Webster, David O.: *See—*
Menard, Edward A.; and Webster, David O., 3,734,869.
Webster, Donald, to Boeing Company, The. Stainless steels. 3,756,808, 9-4-73, Cl. 75-128.00b.
Webster, Donald R.: *See—*
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Webster, Frank G.; and Taber, Robert C., to Eastman Kodak Company. Process for preparing 9-aryloxycarbocyanine compounds. 3,725,398, 4-3-73, Cl. 260-240.600.
Webster, Frank G.; and Brooker, Leslie G. S., to Eastman Kodak Company. Polymethine dyes. 3,743,638, 7-3-73, Cl. 260-240.400.
Webster, Frank G., to Eastman Kodak Company. Novel dyes containing a substituted 2-pyrazolin-5-one nucleus. 3,743,640, 7-3-73, Cl. 260-240.200.
Webster, Frank G., to Eastman Kodak Company. Bridged cyanine dye lasers. 3,774,122, 11-20-73, Cl. 331-94.500.
Webster, Frank R., to Axial Corporation. Coupling sleeve. 3,730,567, 5-1-73, Cl. 285-382.400.
Webster, Harold F.: *See—*
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Webster, Harold F., to General Electric Company. Liquid cooled X-ray tube anode. 3,719,847, 3-6-73, Cl. 313-60.000.
Webster, Harold F.; and Whetten, N. Rey, to General Electric Company. Air filter utilizing space trapping of charged particles. 3,739,552, 6-19-73, Cl. 55-123.000.
Webster, Harold F., to General Electric Company. X-ray display panel. 3,770,960, 11-6-73, Cl. 250-460.000.
Webster, Harold F.; and Harris, Lawrence A., to General Electric Company. Ozone gas detector. 3,778,229, 12-11-73, Cl. 23-254.00e.



Webster, J. Vincent; and Dankel, Douglas D., to Roper Corporation.



Fothergill, Reginald Allan; Bennett, Reginald Frank Charles; Wedam, Werner F., to Philco-Ford Corporation. Color cathode-ray Kutscher, Gerhard; and Wahling, Rolf, 3,757,596.

Webster, J. Vincent; and Dankel, Douglas D., to Roper Corporation. Tine for rotary spader. 3,760,884, 9-25-73, Cl. 172-555.000.

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Webster, John R., to Consolidated Olive Growers. Treating olives with chlorinated brine before freezing. 3,748,152, 7-24-73, Cl. 99-156.000.

Webster, Jonathan C.; Sloan, Earl L., III; and Ganssen, Alexander, to United States of America, Air Force. Proton maser antenna tuning means. 3,725,798, 4-3-73, Cl. 330-4.000.

Webster, Kenneth Earl, to Combustion Engineering, Inc. Split feed economizer. 3,766,892, 10-23-73, Cl. 122-32.000.

Webster, M. C., Co., Ltd.: *See—*
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Webster, Milo E., to Gillette Company, The. Dispensing package of the pressurized type. 3,710,984, 1-16-73, Cl. 222-145.000.

Webster, Milo E., to Gillette Company, The. Foam producing and dispensing container. 3,713,586, 1-30-73, Cl. 239-326.000.

Webster, Milo E., to Gillette, Company, The. Plural compartment pressurized dispensing package. 3,731,847, 5-8-73, Cl. 222-94.000.

Webster, Owen Wright, to Du Pont de Nemours, E. I., and Company. 2-Substituted -4,5-dicyanoimidazoles. 3,770,764, 11-6-73, Cl. 260-309.000.

Webster, Richard B.: *See—*
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Webster, Robert B., to Plastimade, Inc. Apparatus in the form of a kit for home wine making. 3,760,711, 9-25-73, Cl. 99-277.100.

Webster, Roy, to Regson Limited. Gyratory crushers. 3,754,716, 8-28-73, Cl. 241-208.000.

Webster, William C.: *See—*
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Webster, WIlliam W.; and Messenger, Joseph U., to Mobil Oil Corporation. Treatment of formations containing fresh-water swelling clays. 3,710,863, 1-16-73, Cl. 166-272.000.

Webster, Wilton W., Jr. Cardiovascular catheter for thermal dilution measurement. 3,726,269, 4-10-73, Cl. 128-2.05f.

Wech, Robert J., to FMC Corporation. Bag machine. 3,722,376, 3-27-73, Cl. 93-8.00r.

Wech, Robert J., to FMC Corporation. Draw roll assembly for bag machine. 3,737,090, 6-5-73, Cl. 226-187.000.

Wech, Robert J., to FMC Corporation. Heat sealing head. 3,779,838, 12-18-73, Cl. 156-583.000.

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Wechsler, Joseph R., to Stepan Chemical Company. Method of synthesizing fatty acids. 3,708,513, 1-2-73, Cl. 260-413.000.

Wechsler, Richard L., to Bethlehem Steel Corporation. Method of shrinking collars on a shaft. 3,725,994, 4-10-73, Cl. 29-447.000.

Wechsler, Robert M. Three dimensional image reproduction with pseudo-scopy correction by image inversion optics which are capable of independently controlling Z-axis placement in image space. 3,769,889, 11-6-73, Cl. 95-18.00p.

Wechter, Allen. Window switch assemblies for burglar alarm. 3,748,416, 7-24-73, Cl. 200-61.740.

Weck, Edward, & Company, Inc.: *See—*
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Weck, Karl Gustav, to Kieserling, Th., & Albrecht. Transfer device on metal peeling machines. 3,738,557, 6-12-73, Cl. 226-177.000.

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Weigert, Karl, to Reliable Attachment Company, Inc. Sewing machine attachment. 3,766,870, 10-23-73, Cl. 112-104.000.
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Koberstein, Edgar; Lussling, Theodor; Noll, Ewald; Suchsland, Helmut; and Weigert, Wolfgang, 3,761,424.
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Pohl, Gerhard; Rink, Karl-Heinz; Triebel, Wolfgang; Weiberg, Otto; and Weigert, Wolfgang, 3,720,689.
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Weighart, Frederick G., to Automation Industries, Inc. Gating systems used with nondestructive material testers and the like. 3,733,891, 5-22-73, Cl. 73-67.900.
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Weightman, Robert F.: *See—*
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Weigl, John W., to Xerox Corporation. Electrophoretic imaging apparatus including means to project an image at a liquid nip. 3,723,288, 3-27-73, Cl. 204-300.000.
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Weigl, John W., to Xerox Corporation. Transport arrangement for thin sheet material. 3,765,757, 10-16-73, Cl. 355-3.000.
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Weigle, Keith L., Jr. Muscular evaluation method and testing apparatus. 3,752,144, 8-14-73, Cl. 128-2.00s.
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Weihsmantel, Richard A.; and Benson, Harold R. Photographic printer. 3,738,748, 6-12-73, Cl. 355-121.000.
Weijland, Willem Paul; Gerlach, Hans Georg; van den Beld, Antonius Joannes Maria; and Swart, Louis Maarten, to U.S. Philips Corporation. Vidicon having external light source adjacent sealed end, and light conductor transmitting light therefrom to target. 3751,703, 8-7-73, Cl. 313-65.01f.
Weik, Kirby B.; and Brennan, Edward J., to Universal Oil Products Company. Vehicular seat with footrest opening from forward swinging seat back panel section. 3,761,124, 9-25-73, Cl. 297-112.000.
Weikel, Walter J.: *See—*
Battistoni, Richard B.; Lettieri, John; Pierce, Donald L.; and Weikel, Walter J., 3,744,310.
Kendall, Frank T.; Pierce, Donald L.; and Weikel, Walter J., 3,735,093.
Weikert, Roy J. Valve and nozzle assembly. 3,750,959, 8-7-73, Cl. 239-539.000.
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Ferneau, Richard H., 3,759,565.
Weil, Edward D.; Fearing, Ralph B.; and Eisenberg, Bernard J., to Stauffer Chemical Company. Process for flame retarding fabrics. 3,746,572, 7-17-73, Cl. 117-136.000.
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Weil, Edward D., to Stauffer Chemical Company. Flame retarding of solid substrates with 2-carbamoyl alkylphosphonates. 3,762,865, 10-2-73, Cl. 8-115.500.
Weil, Edward D., to Stauffer Chemical Company. Ureidoalkylphosphonates. 3,763,281, 10-2-73, Cl. 260-932.000.
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Solbrig, Charles W.; Weil, Sanford A.; and Rosenberg, Robert B., 3,746,504.
Weil, Thomas A., to Raytheon Company. Power supplies with output voltage taps from input filter choke. 3,745,443, 7-10-73, Cl. 323-1.000.
Weiland, Carl W. Jet centrifuge. 3,741,466, 6-26-73, Cl. 233-38.000.
Weiland, Carl W. Centrifuge with bowl valve control. 3,747,840, 7-24-73, Cl. 233-20.00r.
Weiland, Edward E., to Universal Fence Inc. Structural tube assembly. 3,776,523, 12-4-73, Cl. 256-73.000.
Weiland, Richard J. Eviscerating tool. 3,751,761, 8-14-73, Cl. 17-1.00r.
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Weiler, Ernest A.: *See—*
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Weiler, Ernest A., to Xerox Corporation. Development method with oscillating brush pad. 3,767,446, 10-23-73, Cl. 117-17.500.
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Weimer, Charles L., to Westinghouse Electric Corporation. Bus duct with improved means for connecting housing structures. 3,710,301, 1-9-73, Cl. 339-22.00b.
Weimer, Charles L.; and Popovich, Montgomery T., to Westinghouse Electric Corporation. Bus duct with plug-in unit for closely spaced bus bars. 3,744,002, 7-3-73, Cl. 174-71.00b.
Weimer, Dean R., to Continental Oil Company. Liquid detergent compositions. 3,718,609, 2-27-73, Cl. 252-545.000.
Weimer, Emory L. Plug type fishing lures. 3,728,811, 4-24-73, Cl. 43-26.200.
Weimer, Ervin C.: *See—*
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Weimer, Paul Kessler, to RCA Corporation. Radiation sensing and signal transfer circuits. 3,715,485, 2-6-73, Cl. 178-7.100.
Weimer, Paul Kessler, to RCA Corporation. Signal transfer system for panel image sensor. 3,728,555, 4-17-73, Cl. 307-246.000.
Weimer, Paul Kessler, to RCA Corporation. Digital and analog data handling devices. 3,763,480, 10-2-73, Cl. 340-173.00r.
Weimer, Ralph E., to Restaurant Technology, Inc. Assembly for packaging and dispensing food products, such as french fried potatoes. 3,721,063, 3-20-73, Cl. 53-390.000.
Weimer, Robert R., to Paramount Industries, Inc. Storage device for rubber O-rings. 3,759,377, 9-18-73, Cl. 206-65.00r.
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Weinberg, Elliott K. Passive wake quenching system using non-ablating material, sulfur and a solid noble gas fluoride. 3,725,282, 4-3-73, Cl. 252-62.000.
Weinberg, Gerd: *See—*
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Weinberg, Harold N.: *See—*
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Weinberg, Jerome, to Grantley Company, The. Method and means for absorbing curde oil and the like for transportation and recovery. 3,756,948, 9-4-73, Cl. 210-36.000.
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Weinberg, Mark H., to United States of America, Army. Optical system for inspection of a cavity. 3,733,138, 5-15-73, Cl. 356-
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Weinberger, Carl S.; and Hale, William T., to Koppers Company, Inc. Nickel-aluminum-titanium oxide flame-spray coating for bearing and piston ring member wear surfaces. 3,758,124, 9-11-73, Cl. 277-224.000.

Weinberger, Lester, to Xerox Corporation. Photoelectrophoretic imaging process employing quinacridone pigments. 3,753,708, 8-21-73, Cl. 96-1.0pc.

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Weinel, Johann, to Siemens Aktiengesellschaft. Apparatus for setting both beams of an optical two-beam instrument to equal intensity. 3,758,786, 9-11-73, Cl. 250-343.000.

Weiner, Al. Connector and electrical component assembly. 3,729,574, 4-24-73, Cl. 174-94.00r.

Weiner, David William: *See—*
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Weiner, Jerold S.: *See—*
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Weiner, Melvin Milton. Systems and components for the utilization of electromagnetic waves in discrete, phase-ordered media. 3,765,773, 10-16-73, Cl. 356-114.000.

Weiner, Meyer: *See—*
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Weiner, Murray: *See—*
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Weiner, Norbert. Apparatus for insulating adjacent coils in an electrical coil former. 3,750,072, 7-31-73, Cl. 336-185.000.

Weiner, Norbert. Transformer assembly. 3,781,741, 12-25-73, Cl. 336-192.000.

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Weiner, Philip D., to Echrich, Peter, & Sons, Inc. Method of forming a beef loaf. 3,740,235, 6-19-73, Cl. 99-107.000.

Weiner, Robert J.: *See—*
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Weinert, Eugene P. Cavitation control system. 3,761,196, 9-25-73, Cl. 415-117.000.

Weinert, Robert S. Portable safety railing. 3,776,521, 12-4-73, Cl. 256-24.000.

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Weinert, Volker; Frankiewicz, Gerhard; and Engelage, Gunter, to Agfa-Gevaert Aktiengesellschaft. Apparatus for transporting and intermittently braking webs of paper or the like. 3,777,960, 12-11-73, Cl. 226-33.000.

Weinerth, Klaus: *See—*
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Weingarden, Marshall; and Levitt, Harold H. Album for filmstrip storage. 3,708,061, 1-2-73, Cl. 206-45.340.

Weingart, Jerome M.: *See—*
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Weingarten, Harold I., to Monsanto Company. Arsenic containing enamines and amidinium salts. 3,754,013, 8-21-73, Cl. 260-440.000.

Weingartner, Bernhard; and Fidi, Werner, to AKG Akustische u. Kino-Gerate Gesellschaft m.b.H. Arrangement for damping torsional oscillations induced in a helical spring, particularly in artificial reverberation devices. 3,742,140, 6-26-73, Cl. 179-1.00j.

Weingartner, Bernhard, to AKG Akustische u. Kino-Gerate Gesellschaft m.b.H. Sound receiver head set or ear phone. 3,751,608, 8-7-73, Cl. 179-182.00r.

Weinger, Gerhard; and Popp, Hanns-Peter, to Patent-Treuhand-Gesellschaft fur elektrische Gluhlampen mbH. Cooled electrode for high electric discharge lamps. 3,736,451, 5-29-73, Cl. 313-32.000.

Weinhagen, Frederick B.; and Weinhagen, G. Woodbury. Water basketball apparatus. 3,743,286, 7-3-73, Cl. 273-1.50r.

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Weinhold, Heinz: *See—*
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Weinhold, Karl. Apparatus for the attachment of a hose or a couple to a pipe end. 3,771,818, 11-13-73, Cl. 285-242.000.

Weinkamer, William A.: *See—*
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Weinlader, Joseph K.: *See—*
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Weinold, Heinz: *See—*
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Weinreich, Wilhelm. Panoramic light emitter for warning lights. 3,739,169, 6-12-73, Cl. 240-22.000.

Weinrich, Hellmut; Peltner, Johannes; Helfer, Friedrich; Dick, Heinrich; and Haeberle, Fritz, to Voith Getriebe KG. Hydrodynamic braking system for applying an impact-free braking torque to a rotating member. 3,749,209, 7-31-73, Cl. 188-291.000.

Weinrotter, Ferdinand: *See—*
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Weinschel, Bruno O., to Weinschel Engineering Co., Inc. Precision self-contained D.C. substitution bridge for R.F. measurements. 3,739,269, 6-12-73, Cl. 324-106.000.

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Weinshenker, Ned M.: *See—*
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Weinshenker, Ned M.; and Andersen, Niels H., to ALZA Corporation. Pharmaceutical compositions comprising tetrahydropyran-2-yl prostaglandin ethers. 3,726,983, 4-10-73, Cl. 424-283.000.

Weinstein, A. J., Company: *See—*
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Weinstein, Aaron; and Scourtas, Frank, to Pacesetter Products, Inc. Shoe stiffener and method of using the same. 3,711,969, 1-23-73, Cl. 36-68.000.

Weinstein, Albert A.; Nakache, Fernand R.; and Soodak, Harry, to United States of America, Atomic Energy Commission. Nuclear reactor plant with integral entombment. 3,755,079, 8-28-73, Cl. 176-87.000.

Weinstein, Barry: *See—*
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Weinstein, Donald: *See—*
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Weinstein, Frank, to Concord Fabrics Inc. Display stand for yard goods. 3,777,895, 12-11-73, Cl. 211-44.000.

Weinstein, Harold. Educational apparatus. 3,747,234, 7-24-73, Cl. 35-35.00d.

Weinstein, Hillel, to Xerox Corporation. Document storage and retrieval system. 3,731,060, 5-1-73, Cl. 235-61.70r.

Weinstein, Howard; and Carenza, Edward C. Apparatus for bathing dogs. 3,749,064, 7-31-73, Cl. 119-158.000.

Weinstein, Martin: *See—*
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Weinstein, Myron, to Goodyear Aerospace Corporation. Time discriminator circuit for edge tracking target contours. 3,733,434, 5-15-73, Cl. 178-6.800.

Weinstein, Raymond P., to Weinstein, A. J., Company. Display package with integral header and method of producing the same. 3,757,937, 9-11-73, Cl. 206-80.00r.

Weinstein, Richard, to International Telephone and Telegraph Corporation. Zone control valve assembly. 3,711,060, 1-16-73, Cl. 251-11.000.

Weinstock, Joseph, to Smith Kline & French Laboratories. 3-Heteroaryl-2-thio-1,3-thiazane-2,4-diones. 3,732,216, 5-8-73, Cl. 260-243.00r.

Weinstock, Joseph, to Smithkline Corporation. Thiolpulvinic acid derivatives. 3,780,064, 12-18-73, Cl. 260-343.600.

Weinstock, Leonard M.; Tull, Roger J.; and Mulvey, Dennis M., to Frosst, Charles E., & Co. Process for making 1,2,5-thiadiazoles in the sinister configuration and novel intermediates. 3,718,647, 2-27-73, Cl. 260-247.100.

Weinstock, Leonard M.; Tull, Roger J.; and Mulvey, Dennis M., to Frosst, Charles E., & Co. 3-Heterocyclicamino-4-chloro 1,2,5-thiadiazoles. 3,766,180, 10-16-73, Cl. 260-247.100.

Weinstock, Leonard M.; Tull, Roger J.; and Mulvey, Dennis M., to Frosst, Charles E., & Co. Process for making 4-(3-amino-2-hydroxy propoxy)-1,2,5-thiadiazoles. 3,781,284, 12-25-73, Cl. 260-247.100.

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Weintraub, Arthur; Cook, Wendell A.; Gatwood, Robert K.; and De Brosse, Kenneth L., to International Telephone and Telegraph Corporation. Tire pressure measurment system. 3,735,344, 5-22-73, Cl. 340-58.000.

Weintraub, Arthur; Kalina, Henry A.; and Cahill, Robert F., to International Telephone and Telegraph Corporation. Tire tread depth measurement system. 3,740,710, 6-19-73, Cl. 340-52.00r.

Weintraus, Lester, to Air Products and Chemicals, Inc., mesne. Post-chlorinated vinyl chloride resin and process therefor using radiation. 3,736,240, 5-29-73, Cl. 204-159.180.

Weintraus, Murray; and Deurbrouci, Albert W., to United States of America, Interior. Separation of particulate solids of varying densities in a fluidized bed. 3,774,759, 11-27-73, Cl. 209-474.000.

Weinz, Ernst August: *See—*
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Weir, Donald H.; and Witte, Donald H., to Fox Pools, Inc. Swimming pool and deck. 3,750,197, 8-7-73, Cl. 4-172.190.

Weir, Donald Robert: *See—*
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Weir, Donald Robert; and Kofluk, Russell Peter, to Gordon, Sherritt, Mines Limited. Separation of cobalt from nickel and cobalt bearing ammonical solutions. 3,716,618, 2-13-73, Cl. 423-143.000.

Weir, Donald Robert; and Seibt, Willie, to Sherritt Gordon Mines Limited. Production of nickel powder from basic nickel carbonate. 3,761,250, 9-25-73, Cl. 75-108.000.

Weir, Donald Robert; Maschmeyer, Dennis G.; and Lavender, William J., to Sherritt Gordon Mines Limited. Method for reduction roasting nickeliferous laterite ores. 3,768,993, 10-30-73, Cl. 75-1.000.

Weir, George R.: *See—*
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Weir, Henry John, to McGraw-Edison Company. Laundry feeding machine. 3,729,846, 5-1-73, Cl. 38-143.000.

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Weir, Jackie A., to Du Pont de Nemours, E. I., and Company. Dry spinning apparatus and process. 3,737,508, 6-5-73, Cl. 264-204.000.

Weir, James D., to United States of America, Navy. Transistor delay line driver. 3,750,040, 7-31-73, Cl. 330-24.000.

Weir, Niall Galbraith: *See—*
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Weir, Norman, to Boeing Company, The. Non-jamming ball screw linear actuator. 3,766,790, 10-23-73, Cl. 74-89.150.

Weir, Robert M.; and Farrington, Gerald K., to Whirlpool Corporation. Suspension rod assembly for automatic washer. 3,744,746, 7-10-73, Cl. 248-18.000.

Weir, Stanley M., to FMC Corporation. Loading and unloading conveyor. 3,715,043, 2-6-73, Cl. 214-38.00b.

Weir, Stanley M., to FMC Corporation. Automatic marketing system. 3,716,697, 2-13-73, Cl. 235-61.90r.

Weirauch, Kurt: *See—*
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Weis, Dan N. Fishing jig. 3,750,323, 8-7-73, Cl. 43-42.280.

Weis, Dieter: *See—*
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Weis, Dieter, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Missile with thrust vector and aerodynamic control. 3,776,490, 12-4-73, Cl. 244-3.210.

Weis, Frank G.; and Wood, Marvin E., to Ecodyne Corporation. Filter screen. 3,730,348, 5-1-73, Cl. 210-274.000.

Weis, Henry M. Automated controls for lumber drying kiln. 3,744,144, 7-10-73, Cl. 34-16.500.

Weis, Siegfried K.: *See—*
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Weis, William B. Coil winding machine. 3,750,969, 8-7-73, Cl. 242-1.10r.

Weisang, Joseph Edouard: *See—*
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Weisang, Joseph Edouard; Szabo, Georges; and Maurin, Jean, to Compagnie Francaise de Raffinage. Dehydration catalysts, particularly for the dehydration of diols. 3,781,222, 12-25-73, Cl. 252-437.000.

Weisbach, Jerry A.: *See—*
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Weisbach, Jerry A., to Smith Kline and French Laboratories. 6-heterocyclic substituted penicillins. 3,755,299, 8-28-73, Cl. 260-239.100.

Weisbart, Melvin S.: *See—*
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Weisbeck, Ralph L.; and Daniels, Dennis, to Unipunch Products, Inc. Perforating device. 3,715,947, 2-13-73, Cl. 83-140.000.

Weisbeck, Ronald; Pampus, Gottfried; Suling, Carlhans; and Preis, Lothar, to Bayer Aktiengesellschaft. Process for producing carbon fibres. 3,769,390, 10-30-73, Cl. 423-447.000.

Weisbecker, Joseph A., to RCA Corporation. Computer memory with improved next word accessing. 3,728,686, 4-17-73, Cl. 340-172.500.

Weisbecker, Joseph A. Board game construction. 3,741,545, 6-26-73, Cl. 273-131.00b.

Weisbrod, Alfred L. Lamp shade. 3,745,332, 7-10-73, Cl. 240-108.00r.

Weischedel, Herbert Rudolf; and Westerman, George Raymond, to Bell Telephone Laboratories, Incorporated. Regulated converter circuit with pulse width modulation circuit using passive components. 3,743,916, 7-3-73, Cl. 321-2.000.

Weischedel, Richard C.: *See—*
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Weischedel, Richard C., to General Electric Company. Radiant energy sensor. 3,719,424, 3-6-73, Cl. 356-141.000.

Weise, Eberhard; Schulze, Manfred; and Rothert, Manfred, to Bayer Aktiengesellschaft. Production of aluminum fluoride. 3,755,548, 8-28-73, Cl. 423-489.000.

Weise, Gary V.; Moore, Richard C.; and Sweat, James C., to Newport News Shipbuilding and Dry Dock Company. Method of constructing ships. 3,742,889, 7-3-73, Cl. 114-65.00r.

Weise, George. Automatic remote control discharge system for portable fire extinguishers. 3,768,567, 10-30-73, Cl. 169-26.000.

Weise, Irvin B., to Anderson, Greenwood & Co. Pressure responsive valve. 3,709,258, 1-9-73, Cl. 137-627.500.

Weisenberg, Louis A.: *See—*
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Weisenburger, Lawrence P., to Aries Electronics, Inc., mesne. Low profile socket for integrated circuit pack. 3,710,299, 1-9-73, Cl. 339-17.0cf.

Weisenburger, Lawrence P., to Aries Electronics, Inc., mesne. Integrated circuit socket. 3,732,529, 5-8-73, Cl. 339-192.00r.

Weisenburger, Lawrence P., to Thomas & Betts Corporation. Method of interconnecting memory plane boards. 3,772,776, 11-20-73, Cl. 29-628.000.

Weisend, Burke A., to Package Machinery Company. Plastic injection molding machine monitor. 3,750,134, 7-31-73, Cl. 340-324.00a.





Weiser, Earnest F., to General Electric Company. Filter-to-line transient isolator. 3,731,150, 5-1-73, Cl. 317-20.000.

Weiser, Harald: *See—*





Peolmann, Fritz; Seidel, Siegfried; and Weissberger, Gunther, Weitzel, William H., and Lee, Gary, to Bell Telephone Laboratories, Incorporated. Regulated converter circuit with pulse width modulation circuit using passive components. 3,743,916, 7-3-73, Cl. 321-2.000.

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Weiser, Sidney, to Weiser/Robodyne Corporation. Method of fabricating curved surfaces. 3,762,207, 10-2-73, Cl. 72-388.000.
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Weisfeld, Lewis B.; Andreas, Holger; and Muller, Horst, to Ciba-Geigy Marienberg GmbH. Thermostabilized chlorine-containing polymers. 3,725,338, 4-3-73, Cl. 260-45.75k.
Weisfeld, Lewis B.; and Pause, Carl W., to Cincinnati Milacron Chemicals, Inc. Stabilized vinyl chloride polymers. 3,730,943, 5-1-73, Cl. 260-45.75r.
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Weisgerber, Willi, to Miller Printing Machinery Co. Sheet handling apparatus for a printing press. 3,772,990, 11-20-73, Cl. 101-230.000.
Weisglass, Louis L., to Berkey Technical. Color enlarging apparatus. 3,740,135, 6-19-73, Cl. 355-32.000.
Weisglass, Louis L.; Flieder, Robert A.; and Simmon, Alfred, to Berkey Photo, Inc. Light source for color enlargers. 3,754,823, 8-28-73, Cl. 355-35.000.
Weisglass, Louis L.; Flieder, Robert A.; and Rubin, Lewis, to Berkey Photo, Inc. Light color control apparatus. 3,754,824, 8-28-73, Cl. 355-35.000.
Weisglass, Louis L.; and Flieder, Robert A., to Berkey Photo, Inc. Illumination system for color enlargers and the like. 3,756,712, 9-4-73, Cl. 355-71.000.
Weiske, Wolfgang; and Vogt, Herbert, to Siemens Aktiengesellschaft. Semiconductor component structure for good thermal conductivity. 3,743,896, 7-3-73, Cl. 317-234.00r.
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Weisman, Irving H., to United States of America, Army. Apparatus and process for contacting immiscible liquids. 3,718,319, 2-27-73, Cl. 259-4.000.
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Weiss, Frank. Sealed link for instruments. 3,765,687, 10-16-73, Cl. 277-8.000.
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Weldes, Helmut H.; Schleyer, Walter L.; and Vessey, Eric W., to Philadelphia Quartz Company. Process for preparing spray-dried blended detergents. 3,753,930, 8-21-73, Cl. 252-527.000.
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Wells, Robert R.; and Nelson, Donald O., to Staco-Switch, Inc. Modular light display panel. 3,742,446, 6-26-73, Cl. 340-381.000.
Wells, Rodney Lee, to Allied Chemical Corporation. Process for preparing an improved antistatic fiber containing high molecular weight tris (B-hydroxyalkyl)-isocyanurate-aklylene oxide adducts. 3,728,305, 4-17-73, Cl. 260-45.850.
Wells, Rodney Lee, to Allied Chemical Corporation. Process for producing an improved antistatic polyamide fiber. 3,772,403, 11-13-73, Cl. 260-857.0pg.
Wells, Rodney Lee; Ulmer, Harry Edwards; and Mason, Paul James, to Allied Chemical Corporation. Substituted s-triazine formaldehyde adducts. 3,773,763, 11-20-73, Cl. 260-249.800.
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Welsh, Jay Y., to Diamond Shamrock Corporation. Process for recovering high purity free flowing crystalline manganese dioxide from impure manganese nitrate solutions. 3,780,158, 12-18-73, Cl. 423-49.000.
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Wendler, Norman L.; Taub, David; and Girotra, Narindar Nath, to Merck & Co., Inc. Preparation of d,l-zearalenones. 3,758,511, 9-11-73, Cl. 260-343.20f.
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Wendt, Gerhard R.; Clark, Donald E.; and Grant, Norman H., to American Home Products Corporation. 6-(1-Aminothiocycloalkanoyl amino) penicillanic acids. 3,734,904, 5-22-73, Cl. 260-239.100.
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Wenig, Norman B. Air distributor. 3,777,650, 12-11-73, Cl. 98-40.00v.
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Wenneborg, William Z.; Bunnelle, Philip R.; and Payne, Bobby R., to FMC Corporation. Method of subterranean drilling and mining. 3,730,592, 5-1-73, Cl. 299-17.000.
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Wenner, William S.; Stuhlmuller, Brian J.; Bouloutian, Ara; and Zakarian, Paul. Device which scans and detects for contents in a package. 3,712,468, 1-23-73, Cl. 209-88.000.
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Wentorf, Robert H., Jr.; and Rocco, William A., to General Electric Company. Diamond tools for machining. 3,745,623, 7-17-73, Cl. 25-95.00b.
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Wentworth, Henry C. Drapery rod installation template. 3,724,085, 4-3-73, Cl. 33-189.000.
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Whalen, James M., to Remcor Products Company. Water cooler heat exchanger. 3,739,842, 6-19-73, Cl. 165-164.000.

Whalen, Joseph J. Paint applicator. 3,728,755, 4-24-73, Cl. 15-210.00r.

Whalen, Mark E.; Trepanier, Norman W.; and Draus, Robert A., to Republic Steel Corporation. Solid state method for consolidating small pieces of metal into a workpiece. 3,744,118, 7-10-73, Cl. 29-403.000.

Whalen, Mark E.; and Malleck, Joseph W., to Republic Steel Corporation. Methods of finishing reconstituted metal. 3,752,710, 8-14-73, Cl. 148-12.000.

Whalen, Mark E.; Trepanier, Norman W.; Kraus, Robert A.; and Mallech, Joseph W., to Republic Steel Corporation. Solid state method for converting small pieces of metal into a void-free workpiece. 3,768,139, 10-30-73, Cl. 29-403.000.

Whaley, Hubert L.: *See—*
Adler, Laszlo; and Whaley, Hubert L., 3,776,026.

Whaley, Robert C., Jr., to Posey, J. Thornton; d/b/a Posey Company. Athletic aid. 3,738,654, 6-12-73, Cl. 273-55.00r.

Whaley, Warren R.: *See—*
Weseloh, Roger J.; and Whaley, Warren R., 3,710,774.

Whall, James M.: *See—*
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Whall, James M., to Polaroid Corporation. Photographic film processing apparatus. 3,766,842, 10-23-73, Cl. 95-89.00a.

Wham-O Mfg. Co.: *See—*
Gillespie, Richard L., Sr., 3,724,122.

Whang, Lee Yun. Modular knockdown display. 3,768,637, 10-30-73, Cl. 206-44.00r.

Whang, Sang Y., to Milgo Electronic Corporation. Coding and decoding system with multi-level format. 3,760,277, 9-18-73, Cl. 325-38.00a.

Whannel, Ralph E.: *See—*
Marsh, Richard P.; Whannel, Ralph E.; and Basso, Julius C., 3,734,452.

Wharmby, James D.: *See—*
Reda, Anthony F.; and Wharmby, James D., 3,768,134.

Wharton, Armistead; and Jackson, Earl V., to Xerox Corporation. Imaging apparatus. 3,728,018, 4-17-73, Cl. 355-46.000.

Wharton, Armistead, to Xerox Corporation. Optical system. 3,759,612, 9-18-73, Cl. 355-46.000.

Wharton, George C., III. Mining machine including means for utilizing vacuum at working face and methods of operation thereof. 3,726,562, 4-10-73, Cl. 299-12.000.

Wharton, Gerald R.: *See—*
Them, Edward G.; and Wharton, Gerald R., 3,732,518.

Wharton, James Hugh, to RCA Corporation. Gamma correction bandpass amplifier circuits. 3,708,615, 1-2-73, Cl. 178-5.4st.

Wharton, James Hugh, to RCA Corporation. Electromagnetic focusing and deflection assembly for cathode ray tubes. 3,721,931, 3-20-73, Cl. 335-213.000.

Wharton, Norman: *See—*
Nagel, Raymond; Wharton, Norman; and Cockburn, Thomas, 3,763,814.

Wharton, Richard F., to Illinois Tool Works Inc. Differential. 3,768,336, 10-30-73, Cl. 74-714.000.

Whateley, Eric Albert: *See—*
Hoyle, David John; and Whateley, Eric Albert, 3,752,276.

Whateley, Eric Albert, to Brown, David, Industries, Limited. Change-speed gearing. 3,769,857, 11-6-73, Cl. 74-730.000.

Whatley, Marvin E.: *See—*
Bell, Michael J.; and Whatley, Marvin E., 3,714,322.

WHB-Anbaumobel von Poschinger K.G.: *See—*
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Wheadon, Ellis G.: *See—*
Winterbottom, David A.; Wheadon, Ellis G.; and Higdon, Philip E., 3,770,511.

Wheat, Jeffrey Malcolm, to Plessey Handel und Investments A.G. Telecommunication exchange using cords and superhighways. 3,764,749, 10-9-73, Cl. 179-15.00a.

Wheat, Lawrence C.; and Tary, Orville L., to Libbey-Owens-Ford Company. Apparatus for producing all-glass multiple sheet glazing units. 3,715,198, 2-6-73, Cl. 65-152.000.

Wheatley, Carl Franklin, Jr.: *See—*
Einthoven, Willem Gerard; and Wheatley, Carl Franklin, Jr., 3,751,726.

Wheatley, Carl Franklin, Jr., to RCA Corporation. Heat sinking of semiconductor integrated circuit devices. 3,723,833, 3-27-73, Cl. 317-234.00r.

Wheatley, Christopher Cameron Hope; and George, Dennis, to United Kingdom Atomic Energy Authority. Formation of tubular articles. 3,775,337, 11-27-73, Cl. 252-301.10r.

Wheatley, Marion E.: *See—*
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Zeitner, Edward J., Jr.; Wheatley, Marion E.; Witherspoon, Romeo R.; and Meibuhr, Stuart G., 3,772,086.

Wheatley, Roger W.: *See—*
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Wheatley, Thomas, Jr. Full opening wafer valve. 3,720,225, 3-13-73, Cl. 137-268.000.

Wheatley, Thomas, Jr. Full-bore pipeline check valves adapted for rearrangement into alternative body styles. 3,720,228, 3-13-73, Cl. 137-454.200.

Wheatley, Thomas, Jr. Heat responsive safety valve. 3,726,299, 4-10-73, Cl. 137-75.000.

Wheaton, Harold L.; and Bishop, Thomas H., to TRW Inc. Method of preventing dross formation during remelting. 3,723,097, 3-27-73, Cl. 75-10.00v.

Wheaton Industries: *See—*
Finneran, James G., 3,766,570.
Flynn, Joseph C.; Panas, Walter; and Bonino, Joseph S., 3,761,219.
Heath, Harry Garett, Jr.; and Holzapfel, Carl, 3,778,210.
Von Suskil, Robert F., 3,743,473.
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Wheaton, Robert E., to Copley Press, Inc. Apparatus for punching and coating printing plates. 3,742,903, 7-3-73, Cl. 118-37.000.

Wheaton, Theodore C.; Tamagni, Albert J.; and Moshinsky, Robert W., to Wheaton Industries. Device for injection blow molding PVC bottles. 3,778,223, 12-11-73, Cl. 432-227.000.

Wheel Carrier Holdings (Proprietary) Limited: *See—*
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Wheel Trueing Tool Company of Canada, Ltd.: *See—*
Dela Gorgendiere, Choiseul J. J., 3,712,392.

Wheelabrator Corporation, The: *See—*
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Wheelabrator-Frye Inc.: *See—*
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Wheeler, Brian James: *See—*
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Wheeler, Bryce A., to Hughes Aircraft Company. Optical raster scan generator. 3,764,192, 10-9-73, Cl. 350-7.000.

Wheeler, Clarence W. Inline water carbonator. 3,761,066, 9-25-73, Cl. 261-78.00a.

Wheeler, Clayton A.: *See—*
Doughty, Robert L.; and Wheeler, Clayton A., 3,767,345.

Wheeler, Clayton A., to Monsanto Company. Apparatus for protecting an extrusion head from over pressure. 3,724,986, 4-3-73, Cl. 425-154.000.

Wheeler, Clayton E. Portable storage reel for lines. 3,731,887, 5-8-73, Cl. 242-96.000.

Wheeler, Daniel E., to Wiltron Company. Coupling apparatus. 3,717,811, 2-20-73, Cl. 324-57.00r.

Wheeler, Donald C.: *See—*
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Wheeler, Donald J.: *See—*
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Wheeler, Donald J.; and Lohrenz, Victor, said Lohrenz assor. to said Wheeler, Donald J. Shearing apparatus. 3,762,249, 10-2-73, Cl. 83-9.000.

Wheeler, Douglas W., to Signal Oil and Gas Company. Waste water treatment process. 3,725,264, 4-3-73, Cl. 210-44.000.

Wheeler, Edward L., to Uniroyal, Inc. 2,4,4-Tris-(alpha,alpha-dimethylbenzyl) diphenylamine. 3,751,472, 8-7-73, Cl. 260-570.00r.





Wheeler, Edward L., to Uniroyal, Inc. Derivatives of diphenylamine.


Whelan, James E.; and Jackson, George W., to General Motors Cor-

Wheeler, Edward L., to Uniroyal, Inc. Derivatives of diphenylamine. 3,758,519, 9-11-73, Cl. 260-390.000.

Wheeler, Edward L., to Uniroyal, Inc. N-(4-alpha, alpha-dimethylbenzylphenyl)-1-or- 2-naphthylamines. 3,781,361, 12-25-73, Cl. 260-570.00r.

Wheeler, Eugene F. Clamp for well pipe. 3,739,434, 6-19-73, Cl. 24-249.0dp.

Wheeler, Frank Arthur: *See—*
Boucher, Harold T.; Wheeler, Frank Arthur; and West, John Martin, 3,722,180.

Wheeler, Fred G.; and Pratl, Frank J., to Armour and Company. Preparation of toaster sandwich. 3,767,823, 10-23-73, Cl. 99-86.000.

Wheeler, Harry L., Jr. Separater apparatus for handling compressed air. 3,771,295, 11-13-73, Cl. 55-424.000.

Wheeler, Henry H., Jr., 50% to Lansdale, William M. and 50% to Wingate, Francis E. Process for solvent extraction of ores. 3,780,167, 12-18-73, Cl. 423-578.000.

Wheeler, James E., to General Electric Company. Plastic melt temperature control. 3,728,058, 4-17-73, Cl. 425-144.000.

Wheeler, John B., III; Sonia, John; Hayes, Thomas E.; and Retrochko, Robert P., to Union Carbide Corporation. Process for reusing thermoplastic matrices. 3,760,055, 9-18-73, Cl. 264-220.000.

Wheeler, Leon A.: *See—*
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Wheeler, Lloyd M. Sorting and pouring tray. 3,747,756, 7-24-73, Cl. 209-123.000.

Wheeler, Mildred S.; and Rothi, Robert D., to McDonnell Douglas Corporation. Tandem control valve. 3,726,186, 4-10-73, Cl. 91-384.000.

Wheeler, Mildred S.; and Rothi, Robert D., to McDonnell Douglas Corporation. Tandem control valve. 3,757,817, 9-11-73, Cl. 137-596.000.

Wheeler, Philip T., to Hardy Company, The. Tag. 3,775,882, 12-4-73, Cl. 40-10.00c.

Wheeler, Phillip R., to United States of America, Navy. Missile control system. 3,708,139, 1-2-73, Cl. 244-3.130.

Wheeler, Ralph; and Young, Leroy P. Walled enclosures. 3,744,456, 7-10-73, Cl. 119-20.000.

Wheeler, Raymond Leslie; and Henry, John, to British Hovercraft Corporation, Limited. Flexible skirt assemblies for air cushion vehicles. 3,770,079, 11-6-73, Cl. 180-127.000.

Wheeler, Raymond R. Hanger attachment rod. 3,760,995, 9-25-73, Cl. 223-85.000.

Wheeler, Robert G., to Wood Processes, Oregon Ltd. Process for making a fiber overlay web for a composite board. 3,748,222, 7-24-73, Cl. 162-165.000.

Wheeler, Robert S.: *See—*
Larson, Lars M.; Feasey, Raymond J.; and Wheeler, Robert S., 3,777,451.

Wheeler, Robert W.: *See—*
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Wheeler, Seth, to Litton Business Systems, Inc. Pressure recording sheet. 3,753,841, 8-21-73, Cl. 161-6.000.

Wheeler, Wendell J.: *See—*
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Wheeler, William E.: *See—*
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Wheelock, Julia E. Flower holder. 3,768,202, 10-30-73, Cl. 47-41.130.

Wheelwright, Robert W., to Wurlitzer Company, The. Musical instrument with digital data handling system and lighting display. 3,771,406, 11-13-73, Cl. 84-464.000.

Whelan, Edmund Kerran, to National Dairy Association of New Zealand Limited, The. Apparatus for compacting curd in the process of manufacturing cheese. 3,748,072, 7-24-73, Cl. 425-85.000.

Whelan, Edmund Kerran, to National Dairy Association of New Zealand, Limited, The. Apparatus for cutting compacted curd into pieces. 3,748,076, 7-24-73, Cl. 425-311.000.

Whelan, Edmund Kerran, to National Dairy Association of New Zealand, Limited, The. Apparatus for supplying salt to curd in cheese manufacture. 3,750,286, 8-7-73, Cl. 31-46.000.

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Whelan, James E.; and Jackson, George W., to General Motors Corporation. Switch actuating bourdon tube with mounting bolt providing a fluid communication between pressure source and bourdon tube. 3,761,655, 9-25-73, Cl. 200-81.800.

Whelan, James P., to Ad-Tec Products, Inc. Method of making a disposable filtering device. 3,738,889, 6-12-73, Cl. 156-263.000.

Whelan, John C., to Adams & Whelan. Method of restructuring rice. 3,753,727, 8-21-73, Cl. 99-81.000.

Whelan, Paul L. Liquid tester. 3,744,907, 7-10-73, Cl. 356-70.000.

Wheldon, Robert Joseph: *See—*
Cook, Kenneth George; and Wheldon, Robert Joseph, 3,758,803.

Wheldon, Wilbert G., to Northrop Corporation. Side force control devices. 3,750,985, 8-7-73, Cl. 244-83.00r.

Whelpley, Donald E., to Burroughs, V. P., and Sons, Inc. Flake and pellet cooler. 3,710,453, 1-16-73, Cl. 34-164.000.

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Whetham, William J., to Boeing Company, The. Runout compensation for magnetic milling force sensors. 3,759,139, 9-18-73, Cl. 90-11.00a.

Whetham, William J., to Boeing Company, The. Demodulator for magnetic milling force sensors. 3,777,125, 12-4-73, Cl. 235-151.110.

Whetstone, Albert; Fine, Samuel; and Phillips, Stanley, to Science Accessories Corporation. Apparatus for making spark chamber wire arrays. 3,714,689, 2-6-73, Cl. 29-25.200.

Whetstone, Clayton N. Laminated magnetic material. 3,756,788, 9-4-73, Cl. 29-194.000.

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Whetten, N. Rey; and Webster, Harold F., to General Electric Company. Air filter utilizing alternating current electric fields. 3,739,554, 6-19-73, Cl. 55-123.000.

Whetten, Nathan Rey, to General Electric Company. Method and apparatus for measuring size distribution of particles using a three-dimensional alternating current electric field. 3,740,149, 6-19-73, Cl. 356-102.000.

Whetten, Nathan Rey, to General Electric Company. Method and apparatus for measuring size distribution of particles using a two-dimensional alternating current electric field. 3,740,553, 6-19-73, Cl. 250-41.9ds.

Whetter, Ernest Robert: *See—*
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Whigham, Dale M.; and Amsterdam, Michael F., to Westinghouse Electric Corporation. Method for preparing solar cells. 3,758,348, 9-11-73, Cl. 148-175.000.

Whikehart, Richard E.; and Patrick, Rudolph R., to McDowell-Wellman Engineering Company. Pinch roll drive for endless conveyor belt. 3,763,993, 10-9-73, Cl. 198-203.000.

Whiley, George M., Limited: *See—*
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Whipperman, Ronald Lee, to Abbott Laboratories. Label useful for blind clinical studies of a medicament and method of the manufacture thereof. 3,740,081, 6-19-73, Cl. 283-6.000.

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Whipple, William D.; and Gifford, Howard W., to Prelude Corporation. Marine hauling apparatus. 3,722,126, 3-27-73, Cl. 43-6.500.

Whipple, William, Jr. Process and apparatus for the purification of a natural body of water. 3,755,142, 8-28-73, Cl. 210-63.000.

Whippo, Walt, to Product Horizons, Inc. Electrical plug guard. 3,763,457, 10-2-73, Cl. 339-42.000.

Whipps, George E., to Hunt, Rodney, Company. Slide gate. 3,760,593, 9-25-73, Cl. 61-28.000.

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Whitaker, William T. Remote meter reading apparatus. 3,778,771, 12-11-73, Cl. 340-150.000.

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Whitbread, John Edgar; and Attwell, Ronald Leslie, to British Railways Board. Slip-form paving machines. 3,709,116, 1-9-73, Cl. 94-46.0ac.

Whitby, Thomas Urquhart, to DuPont of Canada Limited. Plastic pirn sleeve. 3,752,414, 8-14-73, Cl. 242-118.320.

Whitchurch, Norton W. Interlocking device for plural circuit breaker assembly. 3,767,872, 10-23-73, Cl. 200-50.00c.

Whitcomb, Elmer W.; and Raba, Joseph W. Electro-optic device for improving reading ability. 3,748,753, 7-31-73, Cl. 35-35.00b.

White, Alan C.: *See—*
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White, Alan Chapman: *See—*
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White, Bobbie L.; and Sanders, J. L. Vehicle jack. 3,744,757, 7-10-73, Cl. 254-94.000.

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White, David Walter James. Pulse train method and apparatus for locating and identifying conductors in a cable. 3,742,350, 6-26-73, Cl. 324-66.000.

White, Deloy J. System for dubbing fresh sound tracks on motion picture films. 3,743,391, 7-3-73, Cl. 352-5.000.

White, Denis, to Doncasters Monk Bridge Limited. Forging dies for the forging of turbine and compressor blades or vanes. 3,762,210, 10-2-73, Cl. 72-413.000.

White, Donald D., to Bausch & Lomb Incorporated. Lens supporting structure for a dual power microscope. 3,764,193, 10-9-73, Cl. 350-37.000.

White, Donald Lawrence: *See—*
Bonner, William Adam; Warner, Arthur Woodward, Jr.; and White, Donald Lawrence, 3,743,970.

White, Donald M.: *See—*
White, Merwin G.; and White, Donald M., 3,737,381.

White, Donald R.: *See—*
Osburn, John D.; and White, Donald R., 3,745,452.

White, Douglas F.; Scadron, Marvin D.; and Faul, Joseph C., to American Standard, Inc. Airspeed and altitude measuring device. 3,738,167, 6-12-73, Cl. 73-181.000.

White, Douglas F.; Scardron, Marvin D.; and Faul, Joseph C., to American Standard, Inc. Airspeed and altitude measuring device. 3,739,638, 6-19-73, Cl. 73-181.000.

White, Douglas F., to American Standard, Inc. Measuring the velocity of a flowing fluid. 3,759,096, 9-18-73, Cl. 73-194.00b.

White, Duncan A.; and Morrison, William O., to Lincoln Electric Company, The. Pipe welding apparatus. 3,777,103, 12-4-73, Cl. 219-60.00a.

White, Dwain M.; and Hobbs, Stanley Y., to General Electric Company. Method for extruding polyacetylenes to produce high strength graphite precursors. 3,709,863, 1-9-73, Cl. 260-30.200.

White, Dwain M.; and Klopfer, Howard J., to General Electric Company. Copolymers of acetylenes and phenols. 3,748,305, 7-24-73, Cl. 260-47.0ua.

White, Dwain M. Bis (polyphenylene ether)-sulfone block copolymers. 3,770,699, 11-6-73, Cl. 260-49.000.

White, Dwain M., to General Electric Company. Bis(polyphenylene oxide)-urethane block copolymers. 3,770,850, 11-6-73, Cl. 260-858.000.

White, Earl R.: *See—*
Bose, Elaine A.; and White, Earl R., 3,725,406.

White, Earle A. Amusement book for children. 3,715,816, 2-13-73, Cl. 35-73.000.

White, Edward A. Shower accessory. 3,761,021, 9-25-73, Cl. 239-312.000.

White, Edward A.; and Bunting, James H., to Bowmar Instrument Corporation. Calculator display circuit. 3,781,852, 12-25-73, Cl. 340-324.00r.





White, Edward L.; Schwarcz, Joseph; and Lang, William D., to N L Industries, Inc. Antimony-containing inorganic composition of matter and method for preparing same. 3,740,245, 6-19-73, Cl.

White, James Carlton, Jr. Bar lock linkage. 3,747,376, 7-24-73, Cl. 70-18.000.

White, James E.: *See—*





White, Robert J., to Chevron Research Company. Power generation.

Laney, Campbell P., Jr.; White, William Thomas; and Mercer,

White, Edward L.; Schwarcz, Joseph; and Lang, William D., to N L Industries, Inc. Antimony-containing inorganic composition of matter and method for preparing same. 3,740,245, 6-19-73, Cl. 106-303.000.
White, Ellis R., to Shell Oil Company. 4,4,4-Trinitrobutyl cyanoacetate. 3,770,795, 11-6-73, Cl. 260-465.400.
White, Ernest W.: *See—*
Boys, Donald R.; and White, Ernest W., 3,717,119.
White, Erskine C.: *See—*
Matthews, Frederick R., Jr.; and White, Erskine C., 3,764,097.
White, Erskine C., to United States of America, National Aeronautics and Space Administration. Pressurized panel. 3,744,320, 7-10-73, Cl. 73-432.00r.
White, Eugene B., to Filters International, Inc. Reverse flow aquarium filter device. 3,720,319, 3-13-73, Cl. 210-169.000.
White, Eugene B., to Filters International, Inc. Reverse flow aquarium filter device. 3,747,762, 7-24-73, Cl. 210-169.000.
White, Eugene B., to Filters International, Inc. Cartridge-type filter element and housing therefor. 3,770,127, 11-6-73, Cl. 210-136.000.
White, Eugene T.; and McEnroy, Joseph H. Microfilm searching system. 3,778,630, 12-11-73, Cl. 250-557.000.
White Farm Equipment Company: *See—*
Kelley, Wilfred H., Jr., 3,768,595.
Pitsch, Ronald D., 3,768,568.
Zeltwanger, Earl D.; Quickstad, La Ron O.; and Laidig, Roger D., 3,744,572.
White, Frank F., to Automation Development Corporation. High speed unscrambler for bar feeders. 3,774,779, 11-27-73, Cl. 214-1.00p.
White, Fred K., to Miles Laboratories, Inc. Microbiological chamber apparatus. 3,726,764, 4-10-73, Cl. 195-127.000.
White, Fred K., to Miles Laboratories, Inc. Microbiological reaction chamber apparatus. 3,726,767, 4-10-73, Cl. 195-127.000.
White, Fred K., to Mulwhiteson Development Company. Antibiotic treatment of fish diseases. 3,737,526, 6-5-73, Cl. 424-181.000.
White, Frederick K.: *See—*
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Bryson, Millard C.; McKinney, Joel D.; Titmus, Robert A.; and White, Frederick K., 3,781,197.
White, George A.: *See—*
Davidson, Arthur R.; Haubner, John E.; and White, George A., 3,722,401.
White, Gerald W. Vacuum system cold trap. 3,719,052, 3-6-73, Cl. 62-3.000.
White, Grace H.: *See—*
White, William V., 3,767,828.
White, H. Thomas, Sr. Scooter skateboard. 3,751,062, 8-7-73, Cl. 280-87.04a.
White, Halbert C.; Strycker, Stanley J.; and Wysong, Don V., to Dow Chemical Company, The. Substituted 2-(2-imidazolin-2-ylthio) acetophenones. 3,715,367, 2-6-73, Cl. 260-309.600.
White, Harold D.: *See—*
Chana, Howard E.; Rado, Joseph; and White, Harold D., 3,717,131.
White, Hollis N. Apparatus for handling bales. 3,756,428, 9-4-73, Cl. 214-6.00b.
White, Howard M., to United States of America, Air Force. Method of expelling liquid propellant from a storage tank in a liquid rocket. 3,734,348, 5-22-73, Cl. 222-1.000.
White, Howard P., to Burroughs Corporation. Unitary ledger feeder and stacker with refeed from a stacker hold position. 3,776,545, 12-4-73, Cl. 271-4.000.
White, Hugh Edward, to RCA Corporation. Linearity correction circuit for a cathode ray tube. 3,763,393, 10-2-73, Cl. 315-276.00d.
White Instruments, Incorporated: *See—*
Van Ryswyk, Carl; and Boner, Charles Paul, 3,755,749.
White, Jack H. Surgical clamp. 3,742,957, 7-3-73, Cl. 128-346.000.
White, Jack Mort, to Sybron Corporation. Self-grounding mechanical span adjustment. 3,741,028, 6-26-73, Cl. 74-409.000.
White, James A.: *See—*
Fowler, Roland V.; White, James A.; and Cross, David C., 3,750,643.
White, James A., to General Electric Company. Self-cleaning oven door structure. 3,736,916, 6-5-73, Cl. 126-198.000.
White, James A., to General Electric Company. Flow-through shutter for oven door window. 3,760,792, 9-25-73, Cl. 126-198.000.
White, James C.: *See—*
Hunsinger, Peter; and White, James C., 3,715,067.
White, James C.; and Emge, Gene F., to Koehring Company. Traveling mold mechanism for forming plastic articles. 3,712,771, 1-23-73, Cl. 425-126.000.
White, James C. Splicable structural member. 3,738,690, 6-12-73, Cl. 287-189.36f.
White, James C. Process of bending structural members and tool therefor. 3,753,366, 8-21-73, Cl. 72-409.000.
White, James C., Jr.; and Molby, Lloyd A., to Capacity, Inc. Trailer lifting device. 3,767,069, 10-23-73, Cl. 214-86.00a.
White, James Carlton, Jr. Bar lock linkage. 3,747,376, 7-24-73, Cl. 70-18.000.
White, James E.: *See—*
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White, James E.; Correll, Quentin E.; Swain, Allan L.; Talbot, Leo Robert; Collado, Ernest E.; and Oudijk, Tommy A., to Day, Albert J. Credit card terminal. 3,752,074, 8-14-73, Cl. 101-269.000.
White, James F. Survival knife. 3,760,438, 9-25-73, Cl. 7-1.00b.
White, James F., Jr.: *See—*
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White, Jerome R., to Guardian Packaging Corporation. Multi-cavity microwave applicator. 3,739,130, 6-12-73, Cl. 219-10.550.
White, Jerry G. Display device. 3,760,952, 9-25-73, Cl. 211-168.000.
White, Jerry L.: *See—*
Hableb, Karlem A.; and White, Jerry L., 3,770,557.
White, John D. Repair patches and methods. 3,730,247, 5-1-73, Cl. 152-367.000.
White, John W. Mailbox construction. 3,749,302, 7-31-73, Cl. 232-19.000.
White, Joseph P.; Amantea, Robert; and Becke, Hans W., to United States of America, Navy, mesne. Current limiting integrated circuit. 3,769,561, 10-30-73, Cl. 317-235.000.
White, Kendall D., to United States Gypsum Company. Hot-roll embossing method. 3,732,908, 5-15-73, Cl. 144-328.000.
White, Kenneth M., to Western Rock Bit Company Limited. Digger tooth retainer. 3,738,032, 6-12-73, Cl. 37-142.00a.
White Knight Products Limited: *See—*
White, David John; and Knight, Benjamin Henry, 3,715,817.
White, Lawrence K. Snow leveler. 3,739,859, 6-19-73, Cl. 172-145.000.
White, Le Roy A.; Baum, Bernard O.; Holley, William H.; and Podall, Harold E., to United States of America, Interior. Microporous support for reverse osmosis membranes. 3,763,055, 10-2-73, Cl. 260-2.50m.
White Machine Co.: *See—*
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White, Malcolm Lunt, to Bell Telephone Laboratories, Incorporated. Mounting media for semiconductor fabrication. 3,752,717, 8-14-73, Cl. 156-17.000.
White, Marvin H.; Hamel, Richard G.; and O'Sullivan, David D., to Westinghouse Electric Corporation. Digital accelerometer. 3,727,209, 4-10-73, Cl. 340-262.000.
White, Marvin H.; O'Sullivan, David D.; and Hamel, Richard G., to Westinghouse Electric Corporation. Electronic fuze system. 3,750,583, 8-7-73, Cl. 102-70-20r.
White, Marvin H.; Hamel, Richard G.; and O'Sullivan, David D., to Westinghouse Electric Corporation. Digital accelerometer. 3,764,820, 10-9-73, Cl. 307-121.000.
White, Marvin H.; McCann, David H., Jr.; Mack, Ingham A. G.; and Blaha, Franklyn C., to Westinghouse Electric Corporation. Coherent sampled readout circuit and signal processor for a charge coupled device array. 3,781,574, 12-25-73, Cl. 307-304.000.
White, Matthew B., to Philco-Ford Corporation. Totally reflecting laser refractometer. 3,770,352, 11-6-73, Cl. 356-133.000.
White, Melvin. Asprin-capri or tab-capri. 3,730,337, 5-1-73, Cl. 206-47.00b.
White, Merwin G.; and White, Donald M., to Mutual Mining and Refining, Ltd. Apparatus for treating copper ores. 3,737,381, 6-5-73, Cl. 204-263.000.
White Motor Corporation: *See—*
Madzsar, George C.; and Kozma, Otto, 3,711,146.
Moon, Charles L., 3,726,262.
Muir, Earl B., 3,710,908.
Olsen, Gerald N.; and Washburn, Arthur R., 3,744,344.
White, Neville, to British Aircraft Corporation Limited. Space vehicle coupling mechanisms. 3,753,536, 8-7-73, Cl. 244-1.0sd.
White, Norman S.; and Zangrilli, Alfred; deceased (by Zangrilli, Mary; executrix), to Perry Plastics, Inc. Endotracheal tube holder and airway. 3,774,616, 11-27-73, Cl. 128-351.000.
White, Quentin M.: *See—*
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White, R. Winslow, to Rohm & Haas Company. Catalysts and esterification process. 3,714,234, 1-30-73, Cl. 260-486.00r.
White, Ralph L., Jr.: *See—*
Schwan, Thomas J.; and White, Ralph L., Jr., 3,748,326.
White, Richard M.: *See—*
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White, Robert Anthony: *See—*
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White, Robert B.: *See—*
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White, Robert E.: *See—*
Johnson, Thomas D.; Whalen, David F.; and White, Robert E., 3,714,393.
White, William V., 3,767,828.
White, Robert F.; Tavares, John F.; and Gann, Bernard M., to American Optical Corporation. Ear device adaptive liner. 3,731,320, 5-8-73, Cl. 2-205.000.



White, Robert J., to Chevron Research Company. Power generation. 3,759,036, 9-18-73, Cl. 60-39.505.
White, Robert J., to Chevron Research Company. Catalytic synthesis gas manufacture. 3,759,677, 9-18-73, Cl. 48-209.000.
White, Robert J., to Chevron Research Company. Gas production. 3,765,851, 10-16-73, Cl. 48-209.000.
White, Robert J.; and Egan, Clark J., to Chevron Research Company. Hydrocracking catalyst comprising a group VIII component and an amorphous aluminosilicate component. 3,769,235, 10-30-73, Cl. 252-455.00r.
White, Robert J., to Chevron Research Company. Gas production. 3,775,072, 11-27-73, Cl. 48-209.000.
White, Robert L.: *See—*
Thorsby, Claude A.; and White, Robert L., 3,715,114.
White, Robert L. Clamp. 3,729,780, 5-1-73, Cl. 24-156.00r.
White, Robert L., to General Motors Corporation. Pushbutton shift mechanism. 3,780,597, 12-25-73, Cl. 74-483.0pm.
White, Robert W. Top driven material shearing mixer and aerator. 3,779,531, 12-18-73, Cl. 261-87.000.
White, Roby Byron; and Tobey, Frederic Samuel, to Brady, W. H., Co. Flashing circuitry. 3,767,969, 10-23-73, Cl. 315-200.00a.
White, Ronald: *See—*
Crawford, Jimmie W.; and White, Ronald, 3,745,785.
White, Ronald E., to Fiber Industries, Inc. Multifilament yarn interlacing device. 3,727,274, 4-17-73, Cl. 28-1.400.
White, Roy Matison, Jr.: *See—*
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White, Sheldon S.: *See—*
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White, T. Stanley: *See—*
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White, Thomas Paul. Transversely adjustable boot. 3,748,756, 7-31-73, Cl. 36-2.50b.
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White, Velton C. Impression tray. 3,736,663, 6-5-73, Cl. 32-17.000.
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White, Wilfred A. S.; and West, Edgar R., to Jute Industries Limited. Method of laying protruding fibres, and increasing abrasion resistance of textile yarns. 3,778,988, 12-18-73, Cl. 57-12.000.
White, William B.: *See—*
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Wilson, William G.; Green, James H.; and White, William D., 3,716,010.
White, William D.; and Hopkins, Walker L., to Texaco Inc. Minimum operating pressure control system and method for controlling a product separator in a catalytic reforming unit. 3,731,071, 5-1-73, Cl. 235-151.120.
White, William D.; and Lynch, Charles R., to Texaco Inc. Means and method for an on-line determination of the flash point of lube oil fractions. 3,748,894, 7-31-73, Cl. 73-36.000.
White, William E.: *See—*
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White, William E., Jr., to Hydro Tech Services, Inc. Connector for tubular members. 3,713,675, 1-30-73, Cl. 285-18.000.
White, William E., Jr., to Hydro Tech Services, Inc. Submarine connection for misaligned pipes. 3,737,179, 6-5-73, Cl. 285-96.000.
White, William E., Jr.; and Billingsly, Lloyd E., to Hydro Tech Services, Inc. Method of joining pipes in a hostile environment. 3,780,421, 12-25-73, Cl. 29-466.000.
White, William Frederick, to International Business Machines Corporation. Self-aligning object placement apparatus. 3,765,542, 10-16-73, Cl. 214-1.0bt.
White, William H., Jr.: *See—*
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White, William Harold; and Dworschack, Roberg George, to Standard Brands Incorporated. Enzyme treatment. 3,725,202, 4-3-73, Cl. 195-66.00r.
White, William T.: *See—*
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White, William V.; deceased (by White, Grace H.; White, Claudia L.; and White, Robert E.; heirs), to General Foods Corporation. Confined volume coffee aroma. 3,767,828, 10-23-73, Cl. 426-387.000.
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White, Wilmer, to United States of America, Army. Percussion primer anvil. 3,726,221, 4-10-73, Cl. 102-45.000.
White, Wilmer; and Kowalick, James F., to United States of America, Army. Ignition system for caseless ammunition. 3,726,222, 4-10-73, Cl. 102-46.000.
White, Wilmer; and Ciccone, Thomas Q., to United States of America, Army. Primer. 3,771,454, 11-13-73, Cl. 102-45.000.
Whitecar, Alten E., to Smith Kline & French Laboratories. Stack package. 3,737,026, 6-5-73, Cl. 206-42.000.
Whitecar, Alten E., to Smith Kline & French Laboratories. Slide-sleeve package. 3,741,387, 6-26-73, Cl. 206-79.000.
Whited, Charles A., to Xerox Corporation. Automatic development control. 3,754,821, 8-28-73, Cl. 355-4.000.
Whiteford, Carlton L., to Creative Tools, Inc. Reversible drive ratchet hand tool with spherical handle. 3,742,787, 7-3-73, Cl. 81-61.000.
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Whitehead, Eric A. N.; Carpenter, Henry G.; and Chinn, Peter D., to Elliott Brothers (London) Limited. Data handling arrangements. 3,716,784, 2-13-73, Cl. 324-77.00b.
Whitehead, George B., to Elmatic Corporation. Snap-in type lamp bulb socket. 3,737,837, 6-5-73, Cl. 339-127.000.
Whitehead, George B., to Elmatic Corporation. Mounting and sealing arrangement for lamp sockets. 3,760,327, 9-18-73, Cl. 339-14.00r.
Whitehead, Jack; Williams, Frank Ronald; and Gosden, Derek Vernon, to British Titan Limited. Beneficiation process for titaniferous ores. 3,751,556, 8-7-73, Cl. 423-82.000.
Whitehead, James; and Jenkins, Stuart McEwen, to De La Rue Instruments Limited. Cash dispensing apparatus. 3,760,158, 9-18-73, Cl. 235-61.60r.
Whitehead, Paul Timothy, to General Electric Company Limited, The. Crossbar switch with resilient lost-motion connection between row co-ordinate and interposer members. 3,764,766, 10-9-73, Cl. 200-175.000.
Whitehead, Robert C., Jr.; and Leidy, Lester R., Jr., to Honeywell Inc. Differential pressure responsive apparatus. 3,780,588, 12-25-73, Cl. 73-398.0ar.
Whitehead, Stanley. Water vessel having double hull. 3,736,608, 6-5-73, Cl. 9-6.000.
Whitehorn, Richard M. Harmonic differential sprocket. 3,710,635, 1-16-73, Cl. 74-243.00r.
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Whitehouse, Harper John; and Speiser, Jeffrey M., to United States of America, Navy. Surface wave transducers with cancellation of secondary response. 3,757,256, 9-4-73, Cl. 333-30.00r.
Whitehouse, Harper John, to United States of America, Navy. Feedback-type acoustic surface wave device. 3,766,496, 10-16-73, Cl. 331-107.00a.
Whitehouse, Harper John; and Speiser, Jeffrey M., to United States of America, Navy. Acoustic surface wave correlators and convolvers. 3,770,949, 11-6-73, Cl. 235-181.000.
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Whitemore, Chatland; and Richardson, Gerald A., to Cambridge Instrument Company, Inc. Servo control circuit. 3,721,883, 3-20-73, Cl. 318-615.000.
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Whitener, Kevin F. Isolation aquarium. 3,757,739, 9-11-73, Cl. 119-5.000.
Whitener, Philip C.: *See*—
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Whitener, Robert V. Liquid sensing switch assembly. 3,757,134, 9-4-73, Cl. 307-118.000.
Whitesell, Lloyd M.; Schriber, Louis; and Loase, Raymond M., to Harris-Intertype Corporation. Continuous business forms. 3,727,908, 4-17-73, Cl. 270-53.000.
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Whiteside, Grady O.; and De Priest, Thomas Y. Apparatus for removing couplings from tubular goods. 3,708,855, 1-9-73, Cl. 29-237.000.
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Whitesides, Jack C., to Kelley Manufacturing Company. Rotary hoe. 3,766,988, 10-23-73, Cl. 172-548.000.
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Whitfield, Alan A.: *See*—
Orkin, Stanley S.; and Whitfield, Alan A., 3,711,171.
Whitfield, Carroll J., to Kelley Manufacturing Company. Peanut shaker dirt remover. 3,734,194, 5-22-73, Cl. 171-101.000.
Whitfield, Fred Sparks, to Millhaven Fibres Limited. Method and a simple apparatus therefor to efficiently dispose of liquid wastes containing combustible carbonaceous material. 3,734,035, 5-22-73, Cl. 110-7.00r.
Whitfield, John H., Jr., to Esso Production Company. Stinger connection. 3,739,590, 6-19-73, Cl. 61-72.300.
Whitfill, William A., Jr.: *See*—
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Witherspoon, William Herbert. Golf club. 3,759,527, 9-18-73, Cl. 273-171.000.
Whiting Corporation: *See*—
Ames, Victor H., 3,745,224.
Rushton, William E.; Seavoy, Gordon E.; and Morey, Woodruff A., 3,715,191.
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Whitley, Donald L.: *See*—
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Whitley, James Brooks, to Huber, J. M., Corporation. Hard media beneficiation process for wet clay. 3,743,190, 7-3-73, Cl. 241-4.000.
Whitley, John A.: *See*—
Rowe, Lacy A.; and Whitley, John A., 3,733,026.
Whitley, William P., Jr. Torsion bar suspension system for tandem trailer wheels. 3,722,908, 3-27-73, Cl. 280-124.00b.
Whitley, William P., Jr. Method for hot dip galvanizing torsion bar suspension systems for trailer wheels. 3,772,057, 11-13-73, Cl. 117-48.000.
Whitlock, Inc.: *See*—
Evans, Arthur J.; and Morin, Joseph C., 3,779,280.
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Whitlock, Larry K.: *See*—
Hendershot, William B., III; Tallent, Michael W.; Wald, David; and Whitlock, Larry K., 3,777,075.
Whitlock, Leslie A. Tire chain applying device. 3,756,097, 9-4-73, Cl. 81-15.800.
Whitman, Garo Arevian; Boothroyd, Wilson P.; and Dunbar, Elton E., to GTE Information Systems Incorporated. Monitoring apparatus for detecting the passage of objects past a point. 3,731,067, 5-1-73, Cl. 235-92.0fq.
Whitman, Jules I.: *See*—
Wood, Charles W.; and Wydro, Edwin S., 3,764,859.
Whitman, Robert J.: *See*—
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Whitmill, Robert L.: *See*—
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Whitmor Manufacturing Co., Inc.: *See*—
Brophy, Ira N.; and Felsenthal, Donald, 3,746,151.
Whitmore, Brian Edward. Dynamic balancing machines. 3,751,987, 8-14-73, Cl. 73-465.000.
Whitmore, Bruce C.: *See*—
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Whitmore, Derek, to International Computers Limited. Hubs. 3,761,033, 9-25-73, Cl. 242-74.000.
Whitmore, Edgar F.: *See*—
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Whitnah, Richard G.; and Goldstein, Abe, to United States of America, Navy. High-range resolution radar real-time display apparatus. 3,735,411, 5-22-73, Cl. 343-17.20r.
Whitney, Charles A.; Somerset, James P.; and Hathway, Randal B., to Superior Electric Company, The. Fine-coarse position indicating system. 3,729,669, 4-24-73, Cl. 318-594.000.
Whitney, David J.; and Newkirk, Terry F. Microwave ultrasonic delay line. 3,714,609, 1-30-73, Cl. 333-30.00r.
Whitney, Douglas E.: *See*—
Capablanca, Fernando A.; and Whitney, Douglas E., 3,776,554.
Whitney, Eugene C.: *See*—
Kilgore, Lee A.; Strait, Bernard S., Jr.; and Whitney, Eugene C., 3,735,217.
Whitney, Eugene C., to Westinghouse Electric Corporation. Dynamoelectric machine with differential protection system including means for air gap monitoring. 3,713,002, 1-23-73, Cl. 317-13.00r.
Whitney, Eugene C., to Westinghouse Electric Corporation. Vertical dynamoelectric machine with improved stator support means. 3,742,271, 6-26-73, Cl. 310-157.000.
Whitney, George O.: *See*—
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Whitney, Herbert A., to United Aircraft Corporation. One dimension cam tracer for an automatic milling machine. 3,748,964, 7-31-73, Cl. 90-13.00b.
Whitney, Joel G.: *See*—
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Whitney, John A.: *See*—
Streater, August L.; and Whitney, John A., 3,712,395.
Whitney, John A.; and Woods, Richard E., to Franklin Electric Co., Inc. Semiconductor thermal protection. 3,708,720, 1-2-73, Cl. 317-13.00c.
Whitney, John A.; Woods, Richard E.; and Hohman, William H., to Franklin Electric Co., Inc. Phase selective telemetry system. 3,714,451, 1-30-73, Cl. 307-3.000.
Whitney, John A.; and Sorensen, Peter F., to Franklin Electric Co., Inc. Change detector system. 3,735,347, 5-22-73, Cl. 340-146.200.
Whitney, John A.; Woods, Richard E.; and Hohman, William H., to Franklin Electric Co., Inc. Motor reversing and stopping circuit. 3,740,632, 6-19-73, Cl. 318-289.000.
Whitney, John A.; Woods, Richard E.; and Norman, William H., to Franklin Electric Co., Inc. Switching circuit for motor start winding. 3,761,792, 9-25-73, Cl. 318-221.00e.
Whitney, John A., to Franklin Electric Co., Inc. Apparatus for elimination of error in a detection system. 3,766,472, 10-16-73, Cl. 324-28.00d.
Whitney, Robert G.: *See*—
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Whitney, Robert J. Machine for and method of changing wooden framing members into preformed and bound units. 3,768,140, 10-30-73, Cl. 29-429.000.
Whitney, Robert J.; Gaston, Donald H.; and Nickell, Joe A. Machine and method for simultaneously forming a plurality of building sections. 3,777,357, 12-11-73, Cl. 29-429.000.
Whitney, Ronald L.: *See*—
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Whitney, Theodore R., to Murray, Everett C., Orloff, Frank D. and Rider, Miles I. Viewing and measuring system for remote thermal energy sources. 3,730,985, 5-1-73, Cl. 178-6.800.
Whitney, Thomas A.: *See*—
Klemann, Lawrence P.; Whitney, Thomas A.; and Langer, Arthur W., Jr., 3,755,447.
Langer, Arthur W., Jr.; and Whitney, Thomas A., 3,734,963.
Langer, Arthur W., Jr.; and Whitney, Thomas A., 3,755,533.
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Langer, Arthur W., Jr.; and Whitney, Thomas A., 3,764,385.
Langer, Arthur W., Jr.; and Whitney, Thomas A., 3,770,827.
Whitney, Thomas K., to Esso Research and Engineering Company. Hydrocarbon gels containing metal alkoxy gellants and a dehydrating agent. 3,775,069, 11-27-73, Cl. 44-7.00c.
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Mauk, Robert W.; and Scott, William B., 3,719,117.
Pfleiderer, George; and Paquet, Eugene H., 3,728,927.
Sawvell, Roger V., 3,779,122.
Scott, William B., 3,720,125.
Scott, William B., 3,728,919.
Scott, William B., 3,758,099.
Scott, William B., 3,762,264.
Whitney, Walter D. Straightening apparatus for vehicle bodies. 3,777,541, 12-11-73, Cl. 72-457.000.
Whitney, Wiley. Call forwarding arrangement for telephone systems. 3,710,033, 1-9-73, Cl. 179-18.0be.
Whitney, Wiley. Communication system providing combined audio-video service. 3,711,648, 1-16-73, Cl. 179-2.0tv.
Whitsel, Jay F., to Budd Company, The. Part interrogation system. 3,739,190, 6-12-73, Cl. 307-118.000.
Whitsett, Gilbert E. Plumbing trap. 3,725,964, 4-10-73, Cl. 4-197.000.
Whitson, Bobbie L.; and Morgan, John A., to Phillips Petroleum Company. Apparatus including an equalization chamber for discontinuous venting of a vessel. 3,780,761, 12-25-73, Cl. 137-565.000.
Whitt, James A., to General Electric Company. Flexible varnish. 3,721,641, 3-20-73, Cl. 260-33.4ep.
Whittake, Thomas F.: *See*—
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Whittaker, Arthur G., to Aerospace Corporation, The. Process for making chaoite. 3,733,394, 5-15-73, Cl. 423-460.000.
Whittaker Corporation: *See*—
Brison, Robert L., 3,771,686.
Johnson, Robert E., 3,772,938.
Kariagin, Nikolai; Laibson, Jerry; Hooper, Eric Ralph; Keogh, Jim Cowden, Jr.; and Pagan, Augustine Joseph, 3,778,855.
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Lasher, Edward A., 3,714,091.
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Whittaker, Dewey E.; and Jenks, Charles D., to Moore, Samuel, and Company. Composite hose having a grounding wire enclosed in a sleeve and wrapped about the core tube of the hose. 3,780,208, 12-18-73, Cl. 174-47.000.
Whittaker, Gary L., to Xerox Corporation. Reversal development. 3,712,728, 1-23-73, Cl. 355-10.000.
Whittaker, Gary L., to Xerox Corporation. Reversal development using polar liquid developers. 3,772,012, 11-13-73, Cl. 96-1.01y.
Whittaker, Harold F., to Thermotech Inc. Hot melt adhesive applicator. 3,774,817, 11-27-73, Cl. 222-334.000.
Whittaker, Henry C. Anti-pollution exhaust system for an internal combustion engine. 3,769,798, 11-6-73, Cl. 60-279.000.
Whittaker, Jack Dearden; Loveday, Harry Winston; Barbour, Denis Rigby; Tweedie, William; and Stein, George, to Greenbank Engineering Company, Limited and Easton & Johnson, Limited. Covers or hoods for paper and like conditioning machines. 3,762,067, 10-2-7, Cl. 34-201.000.
Whittaker, Robert H.: *See*—
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Whittaker, Stanley James, to Atomic Energy of Canada, Limited. Method and apparatus for fuelling a pressurised nuclear reactor. 3,756,914, 9-4-73, Cl. 176-32.000.
Whittaker, Thomas F.: *See*—
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Fricker, David C.; and Whittaker, Thomas F., 3,729,651.
Whittemore, Dwight S.: *See*—
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Whitten, Charles M.; Mansfield, Vaughn; Petrovic, Louis J.; and Agarwal, Jadgish C., to Peabody Coal Company. Coal desulfurization process. 3,759,673, 9-18-73, Cl. 44-1.00r.
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Whitten, David E., to Air-Dry Corporation of America. Ball lock control valve. 3,754,567, 8-28-73, Cl. 137-509.000.
Whitten, David E., to Air-Dry Corporation of America. Ribbon type flow control device. 3,758,069, 9-11-73, Cl. 251-58.000.
Whitten, Frank R.: *See*—
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Whittingham, Barron S., to Feed Recycling Co. Process for extracting sugars from cattle manure. 3,718,504, 2-27-73, Cl. 127-37.000.
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Whittington, George E. Angle head safety razor. 3,748,735, 7-31-73, Cl. 30-70.000.
Whittington, J. Mark C.; Meyer, John E.; and Tingle, Glenn D., to GAF Corporation. Oil absorbent foamed silicate for oil pollution control. 3,728,208, 4-17-73, Cl. 161-159.000.
Whittington, James H.: *See*—
Woodworth, William; Moulton, Marc L.; and Whittington, James H., 3,764,923.
Whittington, Jimmie L.: *See*—
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Whittington, Pat K. Automatic transmission revision and method. 3,747,196, 7-24-73, Cl. 29-401.000.
Whittington, Ray Jewel; and Resman, Boris Frank, to Union Carbide Corporation. Shrink wrap shirred casing package. 3,764,351, 10-9-73, Cl. 206-46.00f.
Whittington, Richard B., to Whitlock Inc. Protective wrapping for elongated member. 3,762,982, 10-2-73, Cl. 161-47.000.
Whittler, Larry Dale. Heat shield for a motorcycle. 3,756,623, 9-4-73, Cl. 280-289.000.
Whittmore, Thomas C., to Eastman Kodak Company. Ionizing apparatus. 3,745,413, 7-10-73, Cl. 317-4.000.
Whitwell, James H.: *See*—
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Whitwell, James H.; Parry, Sidney J. S.; and Gazda, Irving W., to Great Lakes Carbon Corporation. Nipple-electrode assembly and joint. 3,771,889, 11-13-73, Cl. 403-296.000.
Whitworth, Clyde Jesse, Jr.: *See*—
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Whitworth, Franka D., to Clark Equipment Company. Inboard strike-off blade actuating mechanism. 3,732,637, 5-15-73, Cl. 37-124.000.
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Whybro, Robert S. D.: *See*—
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Whyte, Donald E. Copy holders. 3,743,231, 7-3-73, Cl. 248-452.000.
Whyte, James Lyon, to Imperial Chemical Industries Limited. Coloration of polyester film materials. 3,728,124, 4-17-73, Cl. 96-84.00r.
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Wiatrowski, Stefan; Heid, Christian; and Keil, Karl-Heinz, to Cassella Farbewerke Mainkur Aktiengesellschaft. Process for dyeing textiles made of polyester or cellulose triacetate. 3,776,690, 12-4-73, Cl. 8-174.000.



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Wibau Westdeutsche Industrie- und Strassenbau Maschinen-Gesellschaft m.b.H.: *See—*
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Wible, Joseph B.; and Martin, Paul E., to Datcon Instrument Company. Unicoil electrical indicator instrument. 3,757,215, 9-4-73, Cl. 324-146.000.
Wible, Paul E., to Rucker Company, The. Ground fault protective system. 3,772,569, 11-13-73, Cl. 317-18.00d.
Wichman, William J.: *See—*
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Wichsteed, Robert James; and Wood, David Henry, to Spiro Engineering Limited. Apparatus for spreading butter and like spreadable substances. 3,724,414, 4-3-73, Cl. 118-1.000.
Wichterle, Otto; and Krejci, Lubomir, to Ceskoslovenska akademie ved. Method of molding capillary drain for surgery. 3,767,759, 10-23-73, Cl. 264-313.000.
Wick, Alexander E.: *See—*
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Wick, Helmut: *See—*
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Wick, Helmut, to Nordischer Maschinenbau Rud. Baader. Containers. 3,750,827, 8-7-73, Cl. 220-74.000.
Wick, Kurt; and Holl, Norbert, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Steam chamber. 3,736,082, 5-29-73, Cl. 425-4.000.
Wick, Mary Irene. Eyeglasses having readily removable lenses. 3,709,587, 1-9-73, Cl. 351-106.000.
Wick, Paul: *See—*
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Wick, Richard: *See—*
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Wick, Richard; and Bestenreiner, Friedrich, to Agfa-Gevaert Aktiengesellschaft. Method of recording, duplicating and reproducing images in the form of relief patterns. 3,731,994, 5-8-73, Cl. 352-38.000.
Wick, Richard; Winkler, Alfred; and Von Fischern, Bernhard, to Agfa-Gevaert Aktiengesellschaft. Automatic focusing arrangement. 3,733,989, 5-22-73, Cl. 95-44.00c.
Wick, Richard; Bestenreiner, Friedrich; Deml, Reinhold; and Helmberger, Josef, to Agfa-Gevaert Aktiengesellschaft. System for reproducing color images. 3,737,574, 6-5-73, Cl. 178-5.200.
Wick, Richard; Winkler, Alfred; and Kukuk, Wilhelm, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus with adjusting device for focussing and exposure control means. 3,747,498, 7-24-73, Cl. 95-45.000.
Wick, Richard; and Bestenreiner, Friedrich, to Agfa-Gevaert Aktiengesellschaft. Method and apparatus for recording and reproducing images on continuously moving cinematographic film. 3,761,609, 9-25-73, Cl. 178-5.4cd.
Wick, Richard; Brath, Alfred; and Wagensonner, Eduard, to Agfa-Gevaert Aktiengesellschaft. Method and arrangement for sound track recording in which background music is damped during speech signals. 3,778,558, 12-11-73, Cl. 179-100.2md.
Wickberg, Borje Vilhelm: *See—*
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Wicke, Charles H., to ACF Industries, Incorporated. Safety device for gate valve actuator. 3,771,540, 11-13-73, Cl. 137-75.000.
Wickenberg, Chester H. Concealed latching mechanism. 3,716,262, 2-13-73, Cl. 292-218.000.
Wickenden, Geoffrey Charles: *See—*
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Wicker, George Leonard, to Turner Brothers Asbestos Company Limited. Thermoplastic moulding compositions reinforced with a mixture of glass and asbestos fibers. 3,773,705, 11-20-73, Cl. 260-37.00n.
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Wickersheimer, Jack C., to Allis, Louis, Company, The. Speed sensor for mechanical adjustable speed drive. 3,735,167, 5-22-73, Cl. 310-168.000.
Wickerson, John T. R.; and Zak, Janusz M., to Massachusetts Institute of Technology. Treating food with polypeptide haddock extract to prevent the outgrowth of clostridum botolinum. 3,765,908, 10-16-73, Cl. 426-321.000.
Wickham, John L.; Ramstrom, Lee W.; Wordsworth, Albert G.; and Meloni, Robert A., to Black and Decker Manufacturing Company, The. Collet chuck operated by throttle control for rotary power tool. 3,724,563, 4-3-73, Cl. 173-163.000.
Wickham, John L.; Wordsworth, Albert G.; and Huffaker, David L., to Black and Decker Manufacturing Company, The. Speed control and cut-off device. 3,767,332, 10-23-73, Cl. 418-43.000.
Wickham Piano Plate Company, The: *See—*
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Wickham, William T.; Brown, Frank; Kleykamp, Donald L.; and Kossuth, Otto. Method of making a vacuum cleaner hose assembly. 3,733,697, 5-22-73, Cl. 29-628.000.
Wicki, Heinz, to Sandoz, Ltd. Hydroxymethylated polyazo dyes. 3,751,407, 8-7-73, Cl. 260-169.000.
Wicki, Heinz, to Sandoz Ltd. Azo-dye with a bis-(2-hydroxy-3-carboxyphenyl) methane coupling component. 3,759,892, 9-18-73, Cl. 260-145.00c.
Wickman Machine Tool Sales Limited: *See—*
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Gilbert, Harold James; and Dixon, Reginald John, 3,730,030.
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Wickman, Vernon C., to AMF Incorporated. Internal combustion engines. 3,738,338, 6-12-73, Cl. 123-90.270.
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Wicks, Steven A.; and Jones, Robert W., to United States of America, Navy. ECM pulse analyzer. 3,714,654, 1-30-73, Cl. 343-18.00e.
Wickson, Arthur K., to Garrett Corporation, The. Electrical fuse system. 3,728,583, 4-17-73, Cl. 317-33.0sc.
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Wiczer, Max. Door mechanisms for safes. 3,760,618, 9-25-73, Cl. 70-92.000.
Wiczer, Max. Lock anti-pick device. 3,765,199, 10-16-73, Cl. 70-423.000.
Widakowich, Marius, to Allmanna Svenska Elektriska Aktiebolaget. Thermoelectric apparatus composed of P-type and N-type semiconductor elements. 3,726,100, 4-10-73, Cl. 62-3.000.
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Widdig, Arno; Sasse, Klaus; Grewe, Ferdinand; Scheinpflug, Hans; Frohberger, Paul-Ernst; and Kaspers, Helmut, to Farbenfabriken Bayer Aktiengesellschaft. Substituted carbonyl-carbamidyl-benzimidazole-2-yl-carbamic acid esters. 3,711,503, 1-16-73, Cl. 260-39.200.
Widdig, Arno; Kuhle, Engelbert; Gladbach, Bergisch; Sasse, Klaus; Scheinpflug, Hans; Grewe, Ferdinand; Kaspers, Helmut; and Fronberger, Paul-Ernst, to Bayer Aktiengesellschaft. Substituted amidophenylthioureas. 3,720,682, 3-13-73, Cl. 260-294.80h.
Widdig, Arno; Grewe, Ferdinand; Scheinpflug, Hans; and Frohberger, Paul-Ernst, to Bayer Aktiengesellschaft. 1-(2-Cyclohex ylideniminophenyl)-3-alkoxy-carbonyl-2-thioureas. 3,763,219, 10-2-73, Cl. 260-470.000.
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Widdowson, Albert Henry; and Savage, Sidney Clifford, to Wildt Mellor Bromley Limited. Pattern control mechanisms for knitting machine. 3,709,003, 1-9-73, Cl. 66-50.00r.
Widdowson, Richard E., to General Motors Corporation. Air conditioning bypass control. 3,715,894, 2-13-73, Cl. 62-196.000.
Widdowson, Richard E., to General Motors Corporation. Suction throttling valve for automotive refrigerant system. 3,744,268, 7-10-73, Cl. 62-217.000.
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Widerby, Lennart, to Aktiebolaget Svenska Flaktfabriken. Joint between fireproof and pressuretight wall and ceiling elements. 3,724,886, 4-3-73, Cl. 287-189.36d.
Widerby, Lennart, to Aktiebolaget Svenska Flaktfabriken. Locking element for anchorage of a U-shaped ceiling section to a U-shaped wall section perpendicular to it. 3,726,552, 4-10-73, Cl. 287-189.36d.
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Widess, Moses B., to Amoco Production Company. Minimizing multiple reflecting. 3,735,337, 5-22-73, Cl. 340-15.5td.
Widham, Ernest G. Mail delivery signal device. 3,709,189, 1-9-73, Cl. 116-132.000.
Widhoff, Andre, to Frangeco, a Societe Anonyme Francaise. Device for stabilizing rear-tipping vehicles. 3,778,105, 12-11-73, Cl. 298-17.00s.
Widiger, Alexander H., Jr., to Dow Chemical Company, The. Purification of 2,4,5-trichlorophenol. 3,760,010, 9-18-73, Cl. 260-623.00r.
Widiger, Almar T.; and Kreh, Marvin J., to Dow Chemical Company, The. Non-blocking packaging film comprising an ethylene-vinyl copolymer blended with a fatty acid amide and calcium carbonate. 3,713,965, 1-30-73, Cl. 161-254.000.
Widiger, Hans; and Hoffmann, Dieter. Transport system for underground mining. 3,774,547, 11-27-73, Cl. 104-244.000.
Widl, Walter Herbert Erwin; and Mattsson, Orjan Mats, to Telefonaktiebolaget L M Ericsson. Apparatus for transmitting a data flow by means of a PCM-flow. 3,729,590, 4-24-73, Cl. 179-15.0ap.
Widlar, Robert J.: *See—*
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Widlund, Leif Urban Roland, to Molnlycke AG Golebargsvagen. Disposable diaper. 3,768,479, 10-30-73, Cl. 128-287.000.
Widmaier, Dieter, to Bosch, Robert, G.m.b.H. Valve plate body for axial piston device. 3,756,279, 9-4-73, Cl. 137-625.210.
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Widmann, Werner, to Transformatoren Union Aktiengesellschaft. Insulating arrangement for increasing breaking voltage stability of high voltage instrumentalities. 3,778,538, 12-11-73, Cl. 174-140.00r.
Widmayer, Don F., to Controlled Environment Systems, Inc. Electric current control apparatus. 3,781,598, 12-25-73, Cl. 315-107.000.
Widmer, J. Arthur; and Stumpf, Richard J., to MCA Inc. Optical image focusing device with audible indication. 3,743,416, 7-3-73, Cl. 355-56.000.
Widmer, Karl; and Zumsteg, Horst, to Schweizerische Aluminum AG. Device for the testing of seams of foil or sheet sealed containers. 3,712,112, 1-23-73, Cl. 73-37.000.
Widmont, Joseph C.: *See—*
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Wiebe, Jacob R. Car wash system. 3,712,335, 1-23-73, Cl. 137-599.000.
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Wiechers, Herbert; and Heikaus, Reinhard, to Bayer Aktiengesellschaft. Electrolytic apparatus including bipolar electrodes defining an enclosed volume and held in a non-conductive frame. 3,778,362, 12-11-73, Cl. 204-254.000.
Wiechert, Jay A., to Whirlpool Corporation. Bimetallic signal device for appliances. 3,711,726, 1-16-73, Cl. 307-117.000.
Wiechert, Rudolf: *See—*
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Wiechert, Rudolf; and Steinbeck, Hermann, to Schering AG. 15 alpha, 16 alpha-methylene steroids and processes for their production and use. 3,749,742, 7-31-73, Cl. 260-397.400.
Wieckowska, Jadwiga: *See—*
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Wiedermann, Wolfgang. Rotary drum furnace. 3,736,887, 6-5-73, Cl. 110-8.00r.
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Wiedman, Francis W., III: *See—*
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Wiedmann, Siegfried K., to International Business Machines Corporation. Stored charge storage cell using a non latching SCR type device. 3,729,719, 4-24-73, Cl. 340-173.0ca.
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Wieg, Heinrich J., to Bendix Corporation, The. Measuring apparatus. 3,757,423, 9-11-73, Cl. 33-174.00r.
Wiegand, Donald A., to United States of America, Army. Method for use of inorganic azides as photosensitive materials at low temperatures. 3,778,269, 12-11-73, Cl. 96-27.00r.
Wiegand, Hans, to Teleflex, Inc. Steering assembly. 3,730,130, 5-1-73, Cl. 115-18.00r.
Wiegand, Hans, to Teleflex, Inc. Actuator assembly. 3,766,801, 10-23-73, Cl. 74-480.00b.
Wiegand, John A., to Maremont Corporation. Shock absorber demonstration stand. 3,715,813, 2-13-73, Cl. 35-49.000.



Wiegand, John A., to Maremont Corporation. Shock absorber demonstration stand. 3,715,814, 2-13-73, Cl. 35-49.000.
Wieneke, Franz. Roll condenser for producing a rolled strand of stalk and/or leaf material. 3,750,561, 8-7-73, Cl. 100-89.000.



Wiesner, Richard, to Siemens Aktiengesellschaft. Method for mount- Wiig, Chester M., to Littell, E. J., Machine Company. Disc brake

Wiegand, John A., to Maremont Corporation. Shock absorber demonstration stand. 3,715,814, 2-13-73, Cl. 35-49.000.
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Wiegand, John R.; and Velinsky, Milton. Ferromagnetic memory readout device. 3,774,180, 11-20-73, Cl. 340-174.0sr.
Wiegand, John Richard, to Velinsky, Milton. Ignition system. 3,757,754, 9-11-73, Cl. 123-148.00e.
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Wiegand, William A. Water saver attachment for toilet tank flush valve. 3,733,618, 5-22-73, Cl. 4-51.00r.
Wiegardt, John L., Jr. System for growing concentrated populations of oysters and related shellfish. 3,766,888, 10-23-73, Cl. 119-4.000.
Wiegert, Philip E., to Mallinckrodt Chemical Works. Nitrilotriacyltriimino-tris-(2,4,6-triiodobenzoic acid) compounds. 3,781,338, 12-25-73, Cl. 260-501.110.
Wiegmann, Karl H., to Hull Corporation. Apparatus for impregnating wood with synthetic resin. 3,759,217, 9-18-73, Cl. 118-5.000.
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Wieland, George E., Jr.; and Rudzki, Eugene M., to Bethlehem Steel Corporation. Heat treatment of iron powder. 3,732,092, 5-8-73, Cl. 75-.5ba.
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Wienand, Michael; Jensen, Klaus; Primessing, Franz; and Alfter, Franz-Werner; to Dynamit Nobel Aktiengesellschaft. Apparatus for forming spiral wound pipes. 3,717,916, 2-27-73, Cl. 29-200.00b.
Wienand, Michael; Jensen, Klaus; Primessing, Franz; and Alfter, Franz-Werner, to Dynamit Nobel Aktiengesellschaft. Apparatus for the production of wound pipe of thermoplastic synthetic material. 3,740,294, 6-19-73, Cl. 156-429.000.
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Caiati, Frank P.; and Wight, David C., 3,781,824.
Wight, Edward M., to Glacier Industries Inc. Confection extrusion nozzle. 3,761,213, 9-25-73, Cl. 425-155.000.
Wight, George W., Jr., to Clevite Corporation. Elastomeric spring and frictional damping shock absorber. 3,752,462, 8-14-73, Cl. 267-140.000.
Wightman, John W. Positive liquid temperature controlling device. 3,778,594, 12-11-73, Cl. 219-430.000.
Wightman, Lawrance W., to Emerson Electric Co. Method of producing precision tapered tubes. 3,728,886, 4-24-73, Cl. 72-364.000.
Wightman, Lawrence W.; and Long, Thomas J., to Emerson Electric Co. Drill chuck with cemented aligning bushing. 3,712,632, 1-23-73, Cl. 279-1.001.
Wightman, Lawrence W.; and Long, Thomas J., to Emerson Electric Co. Precision chuck. 3,727,931, 4-17-73, Cl. 279-62.000.
Wightman, Warren J. Connector for ski training. 3,751,056, 8-7-73, Cl. 280-11.37e.
Wigle, Harold E.: *See—*
Toews, Vern J.; and Wigle, Harold E., 3,707,806.
Wiig, Chester M., to Littell, F. J., Machine Company. Disc brake structure. 3,735,843, 5-29-73, Cl. 188-72.100.
Wiig, Chester M., to Littell, F. J., Machine Company. Double cam driven feed roll. 3,754,705, 8-28-73, Cl. 226-90.000.
Wiita, Ronald E., to Borden Company, The. High gloss and low block coating composition containing plasticized vinyl resin latex and finely divided polyolefin particles. 3,755,238, 8-28-73, Cl. 260-29.6xa.
Wiitig, Karl; Wimmer, Guenther; Court, Patrick R. J.; and Akrell, Carl, to Optical Systems Corporation. Converter for CATV. 3,777,053, 12-4-73, Cl. 178-5.100.
Wijnhoven, Jan Mathijs Antoon: *See—*
Graff, Kurt; and Wijnhoven, Jan Mathijs Antoon, 3,756,357.
Wijn, Henricus Petrus Johannes: *See—*
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Wik-It Electronics Corporation: *See—*
Jackson, Thomas J.; Weltsch, Dan A.; and Beattie, Stephen J., 3,715,797.
Wikdahl, Anders Lennart. Process and apparatus for filtering cellulose fiber suspensions. 3,774,761, 11-27-73, Cl. 210-81.000.
Wikdahl, Nils Anders Lennart. Array of cyclonic separators. 3,747,306, 7-24-73, Cl. 55-349.000.
Wikdahl, Nils Anders Lennart. Cyclonic separator with liquid flow added axially. 3,764,006, 10-9-73, Cl. 209-211.000.
Wikelski, Karl W.; and Tyson, Henry K., to Dart Industries Inc. Packing retainer cup. 3,756,611, 9-4-73, Cl. 277-194.000.
Wiker, Frank: *See—*
Rupprecht, Charles F.; and Wiker, Frank, 3,742,794.
Wikey, Arnold. Water treatment apparatus. 3,769,196, 10-30-73, Cl. 204-275.000.
Wikholm, Ilmar Veikko. Circuit isolating switching arrangement. 3,766,336, 10-16-73, Cl. 179-175.300.
Wiking, Lars. Method for opening plastics-foil wrapped packages. 3,727,364, 4-17-73, Cl. 53-3.000.
Wikkerink, Lance A.; and Wikkerink, Lee R., to Lanson Industries, Inc. Process for making floor mat switches. 3,722,086, 3-27-73, Cl. 29-622.000.
Wikkerink, Lee R.: *See—*
Wikkerink, Lance A.; and Wikkerink, Lee R., 3,722,086.
Wikle, Keith Gordon; and O'Rourke, Richard George, to Brush Beryllium Company, The. Aluminum base alloy. 3,716,355, 2-13-73, Cl. 75-142.000.
Wikler, Simon J. Shoe construction with foot-stabilizing appliance. 3,726,287, 4-10-73, Cl. 128-617.000.
Wiklund, Per Martin; and Palm, Johan Ingemar, to Ostbergs Fabriks AB, mesne. Apparatus for severing the root system of the tree from the trunk during the tree-felling operation. 3,738,401, 6-12-73, Cl. 144-34.00r.
Wikman, Andrew O.: *See—*
Baker, Ralph W.; McCarthy, John H.; Place, Harold G.; and Wikman, Andrew O., 3,709,950.
Wikstrom, Gunnar Wilhelm, to Aktiebolaget Bahco Ventilation. Electrical heating units. 3,778,593, 12-11-73, Cl. 219-362.000.
Wikstrom, Stellan Brynolf; and Malmquist, Leo, to U.S. Philips Corporation. Microwave oven having synchronously rotatable reflectors. 3,742,177, 6-26-73, Cl. 219-10.550.
Wiktor, Dominik M., to Automatic Switch Co. Electrical switch having pivoted arm contact. 3,729,608, 4-24-73, Cl. 200-170.00r.
Wiland, Lawrence. Sheet interconnecting device. 3,757,389, 9-11-73, Cl. 24-150.00r.
Wilbeck Machine and Manufacturing, Inc.: *See—*
Wilbeck, Robert A., 3,708,018.
Wilbeck, Robert A., to Wilbeck Machine and Manufacturing, Inc. Twin-offset disc implement with releasable fastening means connecting dual frames. 3,708,018, 1-2-73, Cl. 172-313.000.
Wilbeck, Robert A., to Wibeck Machine and Manufacturing, Inc. Earth working implement with a pair of mobile units movable between a side-by-side working position and a trailing position. 3,727,697, 4-17-73, Cl. 172-313.000.
Wilber, Paul F.: *See—*
Myers, Julia S.; and Wilber, Paul F., 3,720,982.
Wilber, Thomas W., to Singer Company, The. Document transport mechanism. 3,713,735, 1-30-73, Cl. 355-11.000.
Wilber, William R.: *See—*
Vida, Julius A.; and Wilber, William R., 3,711,607.
Wilbert, Godfrey; and Brown, Thomas. Pigmented polymeric artificial floral product substrate with imparted fragrance essential oil of long duration. 3,775,227, 11-27-73, Cl. 161-30.000.
Wilbert, Michael E.: *See—*
Masterson, William Charles; and Wilbert, Michael E., 3,769,723.
Wilbertz, Otto: *See—*
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Wilbrecht, Lester L. Dust cover for switches. 3,723,692, 3-27-73, Cl. 200-168.00h.
Wilbrecht, Lester L. Snap-action switch. 3,770,921, 11-6-73, Cl. 200-68.000.
Wilbright, Arthur E. Barbecue grill with tilt top and shifting fire box. 3,757,675, 9-11-73, Cl. 99-446.000.
Wilbur, James Justin; and Kamholtz, Richard, to Harsco Corporation. Shore bracket. 3,771,753, 11-13-73, Cl. 248-295.000.
Wilbur, Robert Daniel, to American Cyanamid Company. Method of using steroid acetonides as growth promoting agents. 3,772,435, 11-13-73, Cl. 424-241.000.
Wilbur, Robert L., to Eastern Company, The. Valve structure for gas operated horn. 3,780,694, 12-25-73, Cl. 116-112.000.
Wilburn, Garlington C.: *See—*
Freeze, John A.; Price, Elmo D., Jr.; and Wilburn, Garlington C., 3,775,675.
Wilburn, Karl E. Powder horn. 3,775,889, 12-4-73, Cl. 42-90.000.
Wilchynski, Ronald E.: *See—*
Privee, Ralph A.; and Wilchynski, Ronald E., 3,749,532.
Wilcock, Donald F.; and Winn, Leo W., to Mechanical Technology Incorporated. Hybrid boost bearing assembly. 3,708,215, 1-2-73, Cl. 308-35.000.
Wilcom Products, Inc.: *See—*
Campbell, Richard H., Jr.; and Wilkens, William B., 3,711,767.
Wilcox, Albert F., to General Electric Company. Shaft rotation reversing device. 3,766,794, 10-23-73, Cl. 74-355.000.
Wilcox, Burdsal G., to Safeway Stores, Incorporated. Method and apparatus for detection of leaks in seals of packages. 3,708,949, 1-9-73, Cl. 53-53.000.
Wilcox, Burdsal Gardner: *See—*
Comstock, Alfred E.; and Wilcox, Burdsal Gardner, 3,739,668.
Wilcox, Charles A.: *See—*
Harbour, Philip F.; and Wilcox, Charles A., 3,736,768.
Wilcox, Charles A., to Westinghouse Electric Corporation. Ice maker and ice service drawer arrangement. 3,744,270, 7-10-73, Cl. 62-344.000.
Wilcox, David H., Jr., to Eastman Kodak Company. Di-(nitrodiphenylaminesulfonamido) compounds. 3,729,493, 4-24-73, Cl. 260-397.700.
Wilcox, Doyle E.: *See—*
Olson, Gust A.; and Wilcox, Doyle E., 3,762,800.
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Ormiston, Robert B.; and Wilcox, Gale F., 3,734,590.
Wilcox, George A.: *See—*
McLaughlin, George B.; and Wilcox, George A., 3,765,057.
Wilcox, Harold R., to Riggs & Lombard, Inc. Self-regulating system for mixing liquids. 3,776,252, 12-4-73, Cl. 137-99.000.
Wilcox, Henry O., to Denver Plastics Inc. Flexible sealing closure with frangible section. 3,779,416, 12-18-73, Cl. 220-27.000.
Wilcox, Howard A.: *See—*
Dinapoli, Nicholas; Friedman, Donald; Nicholls, Robin P.; Wilcox, Howard A.; and Wood, Charles E., 3,754,122.
Wilcox, Jack E., to United States of America, Air Force. Pulse coding system. 3,750,148, 7-31-73, Cl. 340-351.000.
Wilcox, Jack W., to Abex Corporation. Vane pump with pressure ramp tracking assist. 3,781,145, 12-25-73, Cl. 418-1.000.
Wilcox, James E.: *See—*
Gladstone, James E.; Wilcox, James E.; and Hawthorn, John, 3,719,517.
Wilcox, John C. Air gaging device. 3,751,971, 8-14-73, Cl. 73-37.900.
Wilcox, John P., to Case, J. I., Company. Self energizing valve means for fluid translating device. 3,748,062, 7-24-73, Cl. 418-177.000.
Wilcox, Lance C., to Electric Regulator Corporation. Semiconductor assembly. 3,755,719, 8-28-73, Cl. 317-234.00r.
Wilcox, Lyle C.: *See—*
Dunlap, Frederick A.; and Wilcox, Lyle C., 3,777,557.
Wilcox, Milton E., to Motorola, Inc. Deflection driver control circuit for a television receiver. 3,727,096, 4-10-73, Cl. 315-27.0td.
Wilcox, Milton E., to Motorola, Inc. Automatic gain control circuit. 3,740,471, 6-19-73, Cl. 178-7.30r.
Wilcox, Richard L., to Delavan Manufacturing Company. Aspirating spray head. 3,770,209, 11-6-73, Cl. 239-434.000.
Wilcox, Richard S.: *See—*
Warren, Joseph M.; and Wilcox, Richard S., 3,727,045.
Wilcox, Roger L. Process of making pile fabric floor covering. 3,719,537, 3-6-73, Cl. 156-72.000.
Wilcox, Thomas L., Jr. Disposable pallet. 3,763,791, 10-9-73, Cl. 108-51.000.
Wilcoxen, Charles H., Jr.: *See—*
De La Mare, Harold E.; and Wilcoxen, Charles H., Jr., 3,766,301.
Wilczek, Andrew S., to Varian Associates. Crossed-field microwave tubes having an improved control electrode geometry. 3,733,509, 5-15-73, Cl. 315-3.600.
Wilczynski, Mieczyslaw, to Motorola, Inc. Support for carrying case. 3,743,147, 7-3-73, Cl. 224-26.00r.
Wilczynski, Peter: *See—*
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Wild Heerbrugg Aktiengesellschaft: *See—*
Hildebrand, Klaus, 3,759,616.
Wild, Heinz K., to TeWilo Industries, Inc. Solid-foods dispenser. 3,750,913, 8-7-73, Cl. 222-387.000.
Wild, John J. Method of stool sample collection and testing apparatus therefor. 3,718,431, 2-27-73, Cl. 23-230.00b.
Wild, Jost: *See—*
Kappeler, Heinrich; and Wild, Jost. 3,781,333.
Wild, Norman R.: *See—*
Kirkpatrick, George M.; and Wild, Norman R., 3,747,098.
Wild, Norman R.; and Leavy, Paul M., Jr., to Sanders Associates, Inc. Fiber optic laser system. 3,731,225, 5-1-73, Cl. 331-94.50p.
Wild, Peter: *See—*
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Wild, Robert W.: *See—*
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Wildbolz, Rudolf: *See—*
Alt, Hans Rudolf; Just, Christian; and Wildbolz, Rudolf, 3,736,624.
Binder, Rolf; Grundler, Christof; and Wildbolz, Rudolf, 3,709,406.
Binder, Rolf; and Wildbolz, Rudolf, 3,712,682.
Staheli, Paul; and Wildbolz, Rudolf, 3,708,210.
Wilde, Arthur E., to Fluor Drilling Services, Inc. Flotation and access apparatus for sub-sea drilling structures. 3,717,113, 2-20-73, Cl. 114-.50d.
Wilde, Arthur G.: *See—*
Currier, John W.; Gadbois, Richard T.; and Wilde, Arthur G., 3,716,066.
Wilde, Dennis; and Ormskirk, Hoscar NR, to Pilkington Brothers Limited. Treatment of glass sheet. 3,776,712, 12-4-73, Cl. 65-348.000.
Wilde, Geoffrey Light; and Rodgers, Leonard John, to Rolls-Royce (1971) Limited. Air intake for a gas turbine engine. 3,763,874, 10-9-73, Cl. 137-15.100.
Wilde, Harold A. High capacity low pollutant airport design. 3,729,153, 4-24-73, Cl. 244-114.00r.
Wilde, Herbert J.: *See—*
Anderson, James R.; and Wilde, Herbert J., 3,727,208.
Wilde, Raymond John: *See—*
Parke, John Pedlow; and Wilde, Raymond John, 3,759,834.
Wilde, Sheldon L., to H-C Industries, Incorporated. Container marker and inking apparatus therefor. 3,724,365, 4-3-73, Cl. 101-40.000.
Wilde, Sheldon L., to H-C Industries, Incorporated. Self-adjusting coding apparatus. 3,727,547, 4-17-73, Cl. 101-35.000.
Wilde, Thomas J. Method of melting iron with lumps of carbon coke. 3,770,418, 11-6-73, Cl. 75-43.000.
Wildeman, Arno Edgar, to Cosmopolitan Textile Company, Limited. Apparatus for producing stitch bonded fabric. 3,760,607, 9-25-73, Cl. 66-85.00a.
Wilder, Arthur G.; and Bridwell, Harold C., to Christensen Diamond Products Company. Drill bits and methods of producing drill bits. 3,757,878, 9-11-73, Cl. 175-329.000.
Wilder, Arthur G.; and Bridwell, Harold C., to Christensen Diamond Products Company. Drill bits and methods of producing drill bits. 3,757,879, 9-11-73, Cl. 175-329.000.
Wilder, Donald L.: *See—*
Scray, Eugene J., Jr.; and Wilder, Donald L., 3,718,910.
Wilder, Gene R., to Monsanto Company. N-Tert-alkylamino pyrrolidinylthiocarbonyl sulfides. 3,709,905, 1-9-73, Cl. 260-326.830.
Wilder, Holen L.: *See—*
Cier, Harry E.; and Wilder, Holen L., 3,755,473.
Wilder, Joseph R.; and Kanbar, Maurice S. Disposable surgical retractors. 3,729,006, 4-24-73, Cl. 128-303.00r.
Wilder, Lawrence B.: *See—*
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Vincent, Renic P.; and Wilder, Lawrence B., 3,712,387.
Wilder, Lawrence B.; and Vincent, Renic P.; deceased (Vincent, Meta Luella; administratrix). Drilling cost indicator. 3,761,701, 9-25-73, Cl. 235-193.000.
Wilder, Stevens E.: *See—*
Schlaffer, Edward J.; and Wilder, Stevens E., 3,759,233.
Wilder, Thomas C., to Kennecott Copper Corporation. Two stage selective leaching of copper and nickel from complex ore. 3,736,125, 5-29-73, Cl. 75-21.000.
Wilder, Thomas C.; and Andreola, John J., to Kennecott Copper Corporation. Recovery of copper, nickel, cobalt and molybdenum from complex ores. 3,753,686, 8-21-73, Cl. 75-21.000.



Wilder, William H.; and Benjamin, Ivan E., to Eaton Yale & Towne, Inc. Lubrication system for limited slip differential. 3,762,503, 10-2-73, Cl. 184-6.120.
Wilderman, Giles H., to Kenting Drilling Limited. Draw works for drilling rig. 3,717,205, 2-20-73, Cl. 173-147.000.
Wilderman, Giles H., to Kenting Drilling Limited. Carrier mounted drilling unit. 3,734,210, 5-22-73, Cl. 175-85.000.
Wildgruber, Otto: *See—*
Gottschalk, Friedrich; and Wildgruber, Otto, 3,733,575.
Wildhaber, Ernest. Optical scanner with laser. 3,781,078, 12-25-73, Cl. 350-6.000.
Wildi, Bernard S.; and Miller, Robert E., to Monsanto Company. Protein-acetylinic ester complex to retard digestion in the rumen. 3,718,478, 2-27-73, Cl. 99-2.00r.
Wildi, Bernard S., to Monsanto Company. Methylolated olefin-maleimide copolymers and method for preparing same. 3,737,412, 6-5-73, Cl. 260-67.500.
Wildi, Bernard S.; Westman, Thomas L.; and Keay, Leonard, to Monsanto Company. Stable polymer-enzyme oral hygiene compositions. 3,751,561, 8-7-73, Cl. 424-48.000.
Wildi, Edwin, to Maschinenfabrik Benninger AG. Warp creel. 3,773,274, 11-20-73, Cl. 242-131.100.
Wildi, Theodore, to Lab-Volt (Quebec) Limited. Snap track. 3,756,637, 9-4-73, Cl. 287-189.360.
Wildi, Theodore, to Lab-Volt (Quebec) Limited. Bread-boarding terminal. 3,757,282, 9-4-73, Cl. 339-221.00r.
Wilding, Edwin L., to Griffin & Company. Method of processing tobacco in a blend-bulk silo. 3,735,881, 5-29-73, Cl. 214-152.000.
Wilding, Frank, to Imperial Chemical Industries Limited. Production of thermoplastic filamentary yarn. 3,737,503, 6-5-73, Cl. 264-167.000.
Wilding, Morris D.: *See—*
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Wildman, Alexander J., to Consyne Corporation. Orthodontic bracket. 3,748,740, 7-31-73, Cl. 32-14.00a.
Wildman, Alexander J., to Consyne Corporation. Orthodontic bracket. 3,780,437, 12-25-73, Cl. 32-14.00a.
Wildman, J. Grant. Crease cutter. 3,739,473, 6-19-73, Cl. 30-164.900.
Wildsmith, Eric, to Lilly Industries, Limited. Production of erythromycylamine compounds. 3,780,019, 12-18-73, Cl. 260-210.00e.
Wildt, Hans A., to Du Pont de Nemours, E. I., and Company. Composite pigments and their preparation. 3,726,700, 4-10-73, Cl. 106-300.000.
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Widdowson, Albert Henry; and Savage, Sidney Clifford, 3,709,003.
Wilenichik, Jerzy J. Slide selector switch with segmented terminals and collector means. 3,772,486, 11-13-73, Cl. 200-16.00c.
Wiles, David M.; and Suprunchuk, Tony, to Canadian Patents and Development Limited. Thiocarbohydrazone fungicides. 3,734,757, 5-22-73, Cl. 106-186.000.
Wiles, Donald Ray: *See—*
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Loomis, Clifford R., Jr.; Wiles, Jerald R.; and Newton, Russell A., 3,762,253.
Wiles, Philip, to Erie Technological Products, Inc. Semiconductor device with soldered terminals and plastic housing and method of making the same. 3,708,722, 1-2-73, Cl. 317-234.00r.
Wiley, Bruce F., to Phillips Petroleum Company. Pressure control. 3,720,487, 3-13-73, Cl. 417-572.000.
Wiley, Bruce F., to Phillips Petroleum Company. Sonic logging apparatus. 3,734,233, 5-22-73, Cl. 181-.5ag.
Wiley, Daniel E.; McDougal, Harmon A.; and Turner, Allan L., to PPG Industries, Inc. Rotary table for flaking apparatus. 3,768,551, 10-30-73, Cl. 165-93.000.
Wiley, Daryl D.: *See—*
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Wiley, David R., to Betz Laboratories, Inc. Stabilization of fuel additives. 3,713,792, 1-30-73, Cl. 44-4.000.
Wiley, Donald E., to Exomet Incorporated. Exothermic hot topping composition. 3,713,852, 1-30-73, Cl. 106-38.270.
Wiley, Donald Field, to Cosden Oil & Chemical Company. Method for extruding synthetic thermoplastic sheet material having a variegated colored pattern. 3,769,380, 10-30-73, Cl. 264-40.000.
Wiley, John P., to International Business Machines Corporation. Photographic line tracing apparatus. 3,709,125, 1-9-73, Cl. 95-12.000.
Wiley, Mabry Eileen: *See—*
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Wiley, Mary I. Robe construction. 3,742,519, 7-3-73, Cl. 2-88.000.
Wiley, Philip K. Tension adjustable releasable ski binding and method. 3,716,248, 2-13-73, Cl. 280-11.35t.
Wiley, Richard H., to Miles Laboratories, Inc. Citroylformic acid and its production. 3,751,458, 8-7-73, Cl. 260-535.00p.
Wiley, Richard H., to Miles Laboratories, Inc. Production of citric acid. 3,755,436, 8-28-73, Cl. 260-535.00p.
Wiley, Robert L., to Si Lite, Incorporated. Spill-proof ice cube tray. 3,776,504, 12-4-73, Cl. 249-121.000.
Wiley, Ronald O.; and Urman, Edward A. Method and apparatus for supplying pressurized meat materials for filling a casing. 3,727,268, 4-17-73, Cl. 17-35.000.
Wiley, Roy A., to Westinghouse Electric Corporation. Wiring device such as female connector with deformable insulating housing element for maintaining contact alignment. 3,781,769, 12-25-73, Cl. 339-189.00r.
Wiley, Wallace F., Jr., to Bonzer Inc. Radar presence detection at preselected range. 3,757,327, 9-4-73, Cl. 343-7.500.
Wiley, William O.: *See—*
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Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Vehicle structure. 3,719,245, 3-6-73, Cl. 180-90.000.
Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Foot pedal for motor vehicle. 3,722,320, 3-27-73, Cl. 74-560.000.
Wilfert, Karl; and Barenyi, Bela, to Daimler-Benz Aktiengesellschaft. Motor vehicle body. 3,726,559, 4-10-73, Cl. 296-28.00r.
Wilfert, Karl, to Daimler-Benz Aktiengesellschaft. Safety installation for the passengers of vehicles, especially passenger motor vehicles. 3,779,577, 12-18-73, Cl. 280-150.0ab.
Wilgus, Donovan R.: *See—*
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Wilharm, Larry: *See—*
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Wilharm, Treo, to Bosch, Robert, Photokino G.m.b.H. Operating means for use in fading mechanisms of motion picture cameras. 3,740,146, 6-19-73, Cl. 352-91.000.
Wilhart, Helmut: *See—*
Hamilton, Billy Harold; and Wilhart, Helmut, 3,735,235.
Wilhelm, Arthur L.; Wilhelm, Leonard M.; and Wilhelm, Lawrence L. Pressure indicator for pneumatic tire. 3,719,198, 3-6-73, Cl. 137-228.000.
Wilhelm, Billy M. Arrangement for inhibiting the unthreading of casing string. 3,753,464, 8-21-73, Cl. 166-242.000.
Wilhelm, Frederick C.: *See—*
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Hayes, John C.; Mitsche, Roy T.; Rausch, Richard E.; and Wilhelm, Frederick C., 3,751,502.
Mitsche, Roy T.; and Wilhelm, Frederick C., 3,772,213.
Wilhelm, Frederick C., to Universal Oil Products Company. Hydrocarbon isomerization process. 3,723,554, 3-27-73, Cl. 260-668.00a.
Wilhelm, Frederick C., to Universal Oil Products Company. Hydrocarbon isomerization process. 3,723,556, 3-27-73, Cl. 260-668.00a.
Wilhelm, Frederick C. Hydrocarbon conversion catalyst. 3,725,304, 4-3-73, Cl. 252-441.000.
Wilhelm, Frederick C., to Universal Oil Products Company. Dehydrogenation with a platinum-lead catalytic composite. 3,755,480, 8-28-73, Cl. 260-668.00d.
Wilhelm, Frederick C., to Universal Oil Products Company. Method of manufacturing a supported catalyst containing platinum group metal rhenium or group IVA metal. 3,759,841, 9-18-73, Cl. 252-441.000.
Wilhelm, Frederick C., to Universal Oil Products Company. Bimetallic catalytic composite. 3,761,426, 9-25-73, Cl. 252-439.000.
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Wilhelm, Friedrich; Karrer, Johann; and Pedretti, Alberto, to Karner System AG. Method for liquid treatment of textile material. 3,771,954, 11-13-73, Cl. 8-149.100.
Wilhelm, Gary, to Plainfield Ordnance Corporation. Apparatus for joining the slide-bolt and the barrel-frame of a firearm. 3,728,939, 4-24-73, Cl. 89-196.000.
Wilhelm, Gary; and Yellin, Mark C. Hand gun and ammunition therefor. 3,729,848, 5-1-73, Cl. 42-13.000.
Wilhelm, Gary. Firearm. 3,740,884, 6-26-73, Cl. 42-17.000.
Wilhelm, George E.; and Nagy, Stanley S., to Sperry Rand Corporation. Article having an electroless deposition and method of producing such article. 3,721,613, 3-20-73, Cl. 204-29.000.
Wilhelm, George E.; Nagy, Stanley S.; and Hahn, Moon T., to Sperry Rand Corporation, mesne. Method of producing a magnetic storage medium. 3,751,345, 8-7-73, Cl. 204-29.000.
Wilhelm, Gerhard; Hockenberger, Lothar; and Soyka, Manfred, to Rutgerswerke Aktiengesellschaft. Process of making shelf-stable



mixtures of thiol, oxidizer and accelerator precursor. 3,716,515, 2-13-73, Cl. 260-37.00r.

Wilke, Raud A., to Koehring Company. Control valve with semi-au-

mixtures of thiol, oxidizer and accelerator precursor. 3,716,515, 2-13-73, Cl. 260-37.00r.
Wilhelm G.m.b.H.: *See*—
Stahlecker, Fritz, 3,779,620.
Wilhelm, Gunter: *See*—
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Wilhelm, Hans; Gulbins, Klaus; and Hartmann, Heinrich, to Badische Anilin- & Soda-Fabrik Aktiengesellschaft. Crosslinkable coating agents. 3,721,640, 3-20-73, Cl. 260-31.20n.
Wilhelm, Harley A.; and McClosky, James K., to United States of America, Atomic Energy Commission. Method of making uranium dioxide bodies. 3,761,546, 9-25-73, Cl. 264-.500.
Wilhelm, John Raymond. Water closets. 3,719,958, 3-13-73, Cl. 4-76.000.
Wilhelm, John Raymond. Fire escapes. 3,750,843, 8-7-73, Cl. 182-72.000.
Wilhelm Karl-Heinz, to Draiswerke GmbH., Firma. Screen arrangement for stirring mills. 3,780,957, 12-25-73, Cl. 241-172.000.
Wilhelm, Lawrence L.: *See*—
Wilhelm, Arthur L.; Wilhelm, Leonard M.; and Wilhelm, Lawrence L., 3,719,198.
Wilhelm, Leonard M.: *See*—
Wilhelm, Arthur L.; Wilhelm, Leonard M.; and Wilhelm, Lawrence L., 3,719,198.
Wilhelm, Max; and Riess, Walter, to Ciba-Geigy Corporation. Aminoalkyl-ethanonthracenes. 3,778,467, 12-11-73, Cl. 260-490.000.
Wilhelm Volhmar Bonner Wachebleiche und Wachswarenfabrik: *See*—
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Wilhelm, Wilhelm, to Siemens Aktiengesellschaft. Data distribution line arrangement. 3,780,316, 12-18-73, Cl. 307-209.000.
Wilhelm, Will KG., Firma: *See*—
Dietrich, Toni, 3,712,569.
Wilhelmi, Heiner, to Jurid Werke GmbH. Axle identifying brake warning system. 3,755,774, 8-28-73, Cl. 340-52.00a.
Wilhelmi, Julius B., to TRW Inc. Caster glide. 3,722,026, 3-27-73, Cl. 16-42.000.
Wilhelms, Gerhard; and Stichnoth, Werner, to Fa. Carl Bruns Werkzeufabrik GmbH. Vehicle seat support. 3,756,552, 9-4-73, Cl. 248-399.000.
Wilhelmsen, Carl R., to United States of America, Navy. Adaptive AGC system. 3,714,622, 1-30-73, Cl. 340-16.000.
Wilhelmsen, Harald: *See*—
Bennett, Clarence L., Jr.; De Lorenzo, Joseph D.; and Wilhelmsen, Harald, 3,763,424.
Wilhelmsen, Paul G.: *See*—
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Wilhelmson, Jack L.; Weichselbaum, Theodore E.; and Braun, Vernon F., to Sherwood Medical Industries Inc. Infusion system. 3,731,679, 5-8-73, Cl. 128-214.00f.
Wilhelmson, Jack L.; Weichselbaum, Theodore E.; and Braun, Vernon F., to Sherwood Medical Industries, Inc. Infusion system. 3,739,943, 6-19-73, Cl. 222-59.000.
Wilhelmus, Hermanus Johannes: *See*—
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Wilhelmy, Charles S.: *See*—
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Wilhite, Benjamin Melvin: *See*—
Yeager, Harold Everett; Krage, Richard F.; and Wilhite, Benjamin Melvin, 3,776,223.
Wilk, Stanley H.: *See*—
Niederjohn, Russell K.; and Wilk, Stanley H., 3,740,684.
Wilk, Stanley H.; and Lord, Bernard W., to General Electric Company. Shock-absorbing spring clamp for electric induction apparatus. 3,772,627, 11-13-73, Cl. 336-197.000.
Wilke, David J.; and Kraus, James R., to Pennsylvania Wire Rope Corporation. Vehicle emergency brake actuating mechanism. 3,741,033, 6-26-73, Cl. 74-512.000.
Wilke, Gunther; and Bonnemann, Helmut, to Studiengesellschaft Kohle mbH. Process for the catalytic mixed oligomerization of 1,3-diolefins with alpha-unsaturated organic compounds. 3,755,386, 8-28-73, Cl. 260-410.90r.
Wilke, Heinz: *See*—
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Wilke, Howard C.; and Williams, Romaine A., to Anderson Bros. Mfg. Co. Packaging machine with cutting mechanism. 3,708,954, 1-9-73, Cl. 53-329.000.
Wilke, Joseph V., to Graco Inc. Liquid agitator and dispensing system. 3,740,026, 6-19-73, Cl. 259-67.000.
Wilke, Raud A., to Koehring Company. Control valve. 3,722,541, 3-27-73, Cl. 137-596.000.
Wilke, Raud A., to Koehring Company. Control valve with metering type valve spool. 3,729,026, 4-24-73, Cl. 137-625.690.
Wilke, Raud A., to Koehring Company. Control valve with semi-automatically indexed valve element. 3,738,379, 6-12-73, Cl. 137-106.000.
Wilke, Richard. Ball-threaded spindle nut with at least one individual overflow insert member. 3,771,382, 11-13-73, Cl. 74-459.000.
Wilken, Duane J. Watch stem winder. 3,774,389, 11-27-73, Cl. 58-73.000.
Wilkening, Gail A.; and Hefley, Ervin R., to Prentice, E. V., Co. Pressure regulating system for a dryer apparatus. 3,739,484, 6-19-73, Cl. 34-51.000.
Wilkening, Hermann: *See*—
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Wilkens, Christian. Method of knitting a pile fabric on a warp knitting machine. 3,710,598, 1-16-73, Cl. 66-192.000.
Wilkens, Gunther; Lehmler, Hansfriedrich; and Krahl, Alfred, to Messer Griesheim G.m.b.H. Electric arc welding process. 3,732,393, 5-8-73, Cl. 219-137.000.
Wilkens, Henry W.; and Sabatino, Daniel D., to Flowtron Industries Inc. Fuel consumption meter. 3,714,823, 2-6-73, Cl. 73-113.000.
Wilkens, Mark W., to Farinon Electric. Redundant FM transmitting system. 3,754,188, 8-21-73, Cl. 325-56.000.
Wilkens, William B.: *See*—
Campbell, Richard H., Jr.; and Wilkens, William B., 3,711,767.
Wilker, Paul S.; Kiss, William B.; and Neathway, Graham A., to Microsystems International Limited. Substrate positioned determination structure and method. 3,758,745, 9-11-73, Cl. 219-121.01m.
Wilkerson Corporation: *See*—
Horst, John Vander, 3,762,224.
Wilkerson, Gary C. Multi-purpose automotive airfoil. 3,762,758, 10-2-73, Cl. 296-1.00s.
Wilkerson, William D.; and Henry, A. P., to Bertea Corporation. Hydraulic system. 3,747,351, 7-24-73, Cl. 60-476.000.
Wilkes, Donald F., to Rolamite, Incorporated. Mechanical apparatus. 3,719,097, 3-6-73, Cl. 74-100.000.
Wilkes, Donald F., to Rolamite, Incorporated. Ski bindings. 3,773,344, 11-20-73, Cl. 280-11.35t.
Wilkes, John B., to Chevron Research Company. Sulfation process for secondary alcohols. 3,755,407, 8-28-73, Cl. 260-459.000.
Wilkes, John D. Safety ski binding system. 3,731,943, 5-8-73, Cl. 280-11.35d.
Wilkes, Lambert H.; and Jones, Joseph K., to Cotton, Incorporated. Seed cotton handling apparatus. 3,749,003, 7-31-73, Cl. 100-35.000.
Wilkes Pool Corporation: *See*—
Barrera, Salvatore E., 3,747,768.
Barrera, Salvatore E., 3,756,275.
Wilkes, Raymond Steele; and Witzel, Homer D., to Deere & Company. Shaft coupling mechanism. 3,747,966, 7-24-73, Cl. 287-119.00r.
Wilkes, Richard B., to Hipotronics, Inc. Method and apparatus for testing twisted pair wire to locate electrical insulation faults or measure twist or wire runout or sense breaks in the conductors. 3,763,426, 10-2-73, Cl. 324-54.000.
Wilkey, Frank, Jr., to International Business Machines Corporation. Multiple display device. 3,777,059, 12-4-73, Cl. 178-7.880.
Wilkie, Genevieve: *See*—
Kopasz, Joseph, 3,756,322.
Wilkie, Ronald N.: *See*—
Doman, Patrick A.; and Wilkie, Ronald N., 3,768,440.
Wilkie, Wendell. Buttonhole opener. 3,735,716, 5-29-73, Cl. 112-110.000.
Wilkin, John P., to Armstrong-Blum Manufacturing Company. Stop gage for band saw conveyor or the like. 3,718,061, 2-27-73, Cl. 83-201.000.
Wilking, Werner C.; and Moore, Glenn R., to Microdot Inc. Lamp socket for illuminating an area. 3,757,111, 9-4-73, Cl. 240-152.000.
Wilkins, Don E., to Marcon Marketing Concepts, Inc. Display system. 3,756,421, 9-4-73, Cl. 211-163.000.
Wilkins, Kenneth Ross: *See*—
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Wilkins, Mark L.: *See*—
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Wilkins, Mark L.; Holt, Albert C.; Cline, Carl F.; and Froeschner, Kenneth E., to United States of America, Atomic Energy Commission. Armor of cermet with metal therein increasing with depth. 3,743,569, 7-3-73, Cl. 161-225.000.
Wilkins, Paul E.: *See*—
Budd, Allan L.; and Wilkins, Paul E., 3,776,023.
Wilkins, Paul E.; and Budd, Allan L., to Monitor Labs, Inc. Gas analyzer utilizing infrared emission from gaseous molecules. 3,749,495, 7-31-73, Cl. 356-51.000.
Wilkins, Ronald D.: *See*—
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Wilkins, Ronald D.; and May, Morris B., to ACF Industries, Incorporated. Globe valve having hydraulic balancing. 3,742,984, 7-3-73, Cl. 137-629.000.
Wilkins, Roy A., Jr. Disposable garbage container. 3,762,454, 10-2-73, Cl. 150-1.000.
Wilkinson, Alan John: *See*—
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Wilkinson, Alfred John: *See*—
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Wilkinson, Bruce L., to Pioneer Magnetics, Inc. Power supply current detector system. 3,768,012, 10-23-73, Cl. 324-177.000.
Wilkinson, Bruce L., to Pioneer Magnetics, Inc. Power inverter circuit. 3,769,571, 10-30-73, Cl. 321-45.00r.
Wilkinson, Charles H. Adjustable holder for skiis and ski poles. 3,768,711, 10-30-73, Cl. 224-45.00s.
Wilkinson, David B. Forced air heater. 3,781,165, 12-25-73, Cl. 432-62.000.
Wilkinson, Donald Ross: *See*—
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Wilkinson, Dwight Martin, to B & K Machinery International Limited. Method and apparatus for drying solvents. 3,757,427, 9-11-73, Cl. 34-32.000.
Wilkinson, Ernest James, to Communications Satellite Corporation. Dual frequency dual polarized antenna feed with arbitrary alignment of transmit and receive polarization. 3,742,506, 6-26-73, Cl. 343-176.000.
Wilkinson, Ernest James, to Communications Satellite Corporation. Satellite antenna autotrack system permitting error signals to appear at the earth station. 3,772,701, 11-13-73, Cl. 343-100.0cs.
Wilkinson, Frank: *See*—
Corliss, Robert F.; and Wilkinson, Frank, 3,720,232.
Wilkinson, Geoffrey, to Johnson, Matthey & Co., Limited. Catalyst compositions formed by transition metal cations and methods of making and using such catalysts. 3,725,305, 4-3-73, Cl. 252-429.00r.
Wilkinson, Geoffrey, to Johnson, Matthey & Co., Limited. Catalysis. 3,748,332, 7-24-73, Cl. 260-270.00r.
Wilkinson, Horace Allan, to Monier Research & Development Pty. Ltd. Pipe making machine. 3,776,677, 12-4-73, Cl. 425-262.000.
Wilkinson, James E.: *See*—
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Wilkinson, John N., to Optical Radiation Corporation. Projection light source and optical system. 3,720,460, 3-13-73, Cl. 352-198.000.
Wilkinson, John R., to Samsonite Corporation. Orientation sensitive luggage latch. 3,756,639, 9-4-73, Cl. 292-179.000.
Wilkinson, Keith, to King, Geo. W., Limited. Transfer conveyors. 3,742,861, 7-3-73, Cl. 104-96.000.
Wilkinson, Lester: *See*—
Barr, Paul N.; Wilkinson, Lester; and Neal, Stuart M., 3,731,659.
Schertz, Burtron D.; and Wilkinson, Lester, 3,712,992.
Wilkinson, Lester, to General Motors Corporation. Electronic fuel injection system. 3,727,592, 4-17-73, Cl. 123-32.0ba.
Wilkinson, Lester, to General Motors Corporation. Electronic fuel injection system having high speed compensation. 3,732,853, 5-15-73, Cl. 123-32.0ea.
Wilkinson, Norman, to Lucas, Joseph, (Industries) Limited. Vehicle direction switch with automatic return and headlight dimmer control. 3,718,784, 2-27-73, Cl. 200-61.270.
Wilkinson, Norman, to Lucas, Joseph, (Industries) Limited. Direction indicator switches with cancelling mechanism. 3,745,278, 7-10-73, Cl. 200-61.270.
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Wilkus, Edward V.; and Berger, Abe, to General Electric Company. Xanthenyl ketone containing organosilicon materials. 3,715,370, 2-6-73, Cl. 260-335.000.
Will, Eugen, to Minnesota Mining and Manufacturing Company. Marking apparatus. 3,709,191, 1-9-73, Cl. 118-8.000.
Will, Gareth W.: *See*—
Evans, Joseph H.; and Will, Gareth W., 3,770,556.
Will, Gunther. Porous polymeric compositions processes and products. 3,763,056, 10-2-73, Cl. 260-2.501.
Will, Gunther B. G. P. Method of producing porous polymerizates from water-in-oil emulsions. 3,734,867, 5-22-73, Cl. 260-2.50r.
Will, Harold C., to Crompton & Knowles Corporation. Coloring nickel modified olefinic polymers with an aromatic orthohydroxy carboxylic acid and azo pigment, print paste composition and fibers colored thereby. 3,758,270, 9-11-73, Cl. 8-42.00d.
Will, Peter M.: *See*—
Franaszek, Peter A.; Grossman, David D.; and Will, Peter M., 3,720,875.
Willach, Horst, to Huwil-Werke Hugo Willach & Sohne. Magnetic lock with relatively slidable elements. 3,757,551, 9-11-73, Cl. 70-276.000.
Willach, Rudolf; and Rafael, Aruth, to Deutsche Babock & Wilcox Aktiengesellschaft. Waste heat boiler for heat furnaces. 3,721,217, 3-20-73, Cl. 122-379.000.
Willaman, Ernest R. Trailer hitch. 3,741,587, 6-26-73, Cl. 280-406.00a.
Willard, Edwin J., to Longview Fibre Company. Apparatus for overturning stacked sheet material. 3,727,744, 4-17-73, Cl. 198-33.0ad.
Willard, Henry G., to General Electric Company. Multi-phase electric circuit breaker. 3,761,776, 9-25-73, Cl. 317-33.00r.
Willard, Henry G.; and Acampora, Vincent P., to General Electric Company. Electric circuit breaker with electronic trip control unit. 3,761,777, 9-25-73, Cl. 317-33.00r.
Willard, Henry G., to General Electric Company. Static trip control unit for electric circuit breaker. 3,761,778, 9-25-73, Cl. 317-33.00r.
Willard, Jack August, to Formica Corporation. Textured coal plate surfaced with furnace cement. 3,718,496, 2-27-73, Cl. 117-10.000.
Willard, John Gordon; and Matson, Robert Dale, to Jefferson Chemical Company, Inc. Antifreeze composition. 3,769,220, 10-30-73, Cl. 252-75.000.
Willard, Robert C.: *See*—
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Willard, Roland B.; Walsh, William J.; and Larson, John I., to Sybron Corporation. Electric test tube heater. 3,737,627, 6-5-52, Cl. 219-521.000.
Willchemco, Inc.: *See*—
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Willco-Horgerate Med. Apparatebau G.m.b.H.: *See*—
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Willcox, Dale F.: *See*—
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Willcox, Frederick P. Printer having individual character chips. 3,731,778, 5-8-73, Cl. 197-16.000.
Willcox, Frederick P. Printer for off-line printing of subscript and super-script characters and coded vertical tab setting. 3,738,472, 6-12-73, Cl. 197-71.000.
Willcox, Leland J. Golf ball practice driving apparatus. 3,758,118, 9-11-73, Cl. 273-201.000.
Willems, Gilbert C.; and Farmer, Ray H., to United States of America, Army. Dynamic lead guidance system for homing navigation. 3,718,293, 2-27-73, Cl. 244-3.160.
Willems, Hans: *See*—
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Willems, Josef Frans, to Agfa-Gevaert N.V. Photographic silver bleaching solution. 3,748,136, 7-24-73, Cl. 96-60.00r.
Willems, Jozef Frans: *See*—
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Willems, Jozef Frans, to Gevaert-Agfa, N.V. Process for the develop-



Williams, Allan E., to Thiokol Chemical Corporation. Thrust control

Willems, Jozef Frans, to Gevaert-Agfa, N.V. Process for the development of photographic material. 3,713,827, 1-30-73, Cl. 96-66.300.

Willems, Jozef Frans, to Agfa-Gevaert N.V. Method for developing silver halide emulsions. 3,723,117, 3-27-73, Cl. 96-29.000.

Willems, Jozef Frans; and Schots, Paul Maurice, to Agfa-Gevaert. Development of photographic material. 3,740,221, 6-19-73, Cl. 96-29.00r.

Willems, Jozef Frans, to Gevaert-Agfa N.V. Development of photographic silver halide material. 3,749,575, 7-31-73, Cl. 96-66.300.

Willems, Jozef Frans, to Agfa-Gevaert N.V. Hydrophilic film-forming colloid composition. 3,762,928, 10-2-73, Cl. 96-114.500.

Willems, Leonardus Franciscus; Neelen, Joseph Jacobus Marie; and Cardozo, Benjamin Lopes, to U.S. Philips Corporation. Device for the audible reproduction of a cardiogram with speech-like sounds. 3,732,868, 5-15-73, Cl. 128-2.06g.

Willen, Charles, to Willen, Charles, & Cie. Multiple-tool tool-holder. 3,742,792, 7-3-73, Cl. 82-36.00r.

Willen, Charles, to Willen, Charles, & Cie. Tool holders for machine tools. 3,750,498, 8-7-73, Cl. 82-36.00r.

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Willett, Colin S., to United States of America, Army. Interferometric angular sensor and reference. 3,765,772, 10-16-73, Cl. 356-110.000.

Willett, Colin S.; and Kruger, John G., to United States of America, Army. Laser cavity configuration yielding dual output beam. 3,772,609, 11-13-73, Cl. 331-94.500.

Willett, Harold A., to Cane Machinery & Engineering Company, Inc. Sugar cane topper for V-cutter harvester. 3,760,569, 9-25-73, Cl. 56-10.700.

Willett, Richard M., to Iowa State University Research Foundation, Inc. System for spectrum analysis including digital filter with variable sampling rate. 3,708,746, 1-2-73, Cl. 324-77.00d.

Willett, Richard M.; and Passeri, David P., to Iowa State University Research Foundation, Inc. Adaptive digital frequency discriminator. 3,746,997, 7-17-73, Cl. 325-349.000.

Willette, Edward E.; and Mazur, Conrad F., to Standard Oil Company. Continuous process for making thermoformed articles of manufacture. 3,733,381, 5-15-73, Cl. 264-47.000.

Willetts, Elwood H. Vehicle suspension structure. 3,767,222, 10-23-73, Cl. 280-104.50b.

Willey, Monroe M., to Du Pont de Nemours, E. I., and Company. Coating composition of an acrylic oxazoline containing polymer and cellulose acetate butyrate. 3,711,433, 1-16-73, Cl. 260-17.00r.

Willey, Sally Margaret. Buckles. 3,748,700, 7-31-73, Cl. 24-172.000.

Willfurth, Erich. Single recessed base light. 3,753,217, 8-14-73, Cl. 240-2.00w.

Willhalm, Bruno: *See—*
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Willhite, Glen Paul, to Kansas University Endowment Association, The. Production of oil from well cased in permafrost. 3,766,985, 10-23-73, Cl. 166-302.000.

William Cotton Limited: *See—*
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Blood, Raymond; and Marriott, Eric Walter, 3,740,973.

William, John, to International Telephone and Telegraph Corporation. Connector housing removal tool. 3,769,680, 11-6-73, Cl. 29-203.00h.

William, Laurence Lyman; and Coscia, Anthony Thomas, to American Cyanamid Company. Water soluble cationic thermosetting poly(N-carbamoyl)polyalkylenepolyamine resins and wet strength paper containing the same. 3,773,736, 11-20-73, Cl. 260-68.000.

William Prym-Werke KG: *See—*
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William Prym-Werke KG, Firma: *See—*
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Williamann, Franz, to GIS AG. Vacuum lifting device. 3,743,340, 7-3-73, Cl. 294-64.00r.

Williamitis, Victor A., to General Motors Corporation. Self-cleaning cooking oven. 3,732,857, 5-15-73, Cl. 126-19.00r.

Williams, Alan F.; and Phillips, Edward H., to Tydeman Machine Works, Inc. Hydrostatic spool bearing for use in tracer assembly of pattern controlled machine. 3,731,563, 5-8-73, Cl. 82-14.00a.

Williams, Albert L.: *See—*
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Williams, Allan E., to Thiokol Chemical Corporation. Thrust control and modulation system. 3,759,039, 9-18-73, Cl. 60-231.000.

Williams, Allan L.: *See—*
Williams, Allan L.; and Heck, Lyle D. (said Heck assor. to said), 3,718,922.

Williams, Allan L.; and Heck, Lyle D., said Heck assor. to said Williams, Allan L. Product monitoring apparatus, system and method. 3,718,922, 2-27-73, Cl. 340-280.000.

Williams, Alverson B.: *See—*
Vogelei, Robert A.; Kirkman, Richard W.; and Williams, Alverson B., 3,732,784.

Williams, Alverson B., to General Motors Corporation. Belt arrangement. 3,754,775, 8-28-73, Cl. 280-150.00b.

Williams, Alvin D. Piston structure. 3,744,382, 7-10-73, Cl. 92-206.000.

Williams, Alvin R., to United States Steel Corporation. Method of making an embossed composite sheet. 3,769,129, 10-30-73, Cl. 156-209.000.

Williams, Andrew Sinclair. Fluid combining apparatus. 3,771,542, 11-13-73, Cl. 137-93.000.

Williams, Arthur; and Davenport, Donald Ray, to Richen Inc. Mounting assembly for looms and the like. 3,749,340, 7-31-73, Cl. 248-24.000.

Williams, Arthur B., to Singer Company, The. Crystal controlled frequency discriminator. 3,778,727, 12-11-73, Cl. 329-104.000.

Williams, Arthur G. Combination resuscitating, aspirating and gastric draining apparatus. 3,730,179, 5-1-73, Cl. 128-145.500.

Williams, Arthur L.; and Ellis, Robert S., to Wean United Inc. Flash welding method. 3,771,215, 11-13-73, Cl. 29-482.000.

Williams, Barbara. Puppet manipulator and puppet-manipulator combination. 3,742,644, 7-3-73, Cl. 46-126.000.

Williams, Barney V. Boat dry docking device. 3,727,415, 4-17-73, Cl. 61-65.000.

Williams, Benjamin F., to Benwilco Inc. Rotary engine having axially sliding vanes. 3,780,709, 12-25-73, Cl. 123-8.230.

Williams, Bernhard O.: *See—*
Jensen, Herman G.; and Williams, Bernhard O., 3,732,875.

Williams, Bert B., to Esso Production Research Company. Method for acidizing subterranean formations. 3,734,186, 5-22-73, Cl. 166-282.000.

Williams, Billy G.; and Bohn, Francis Lewis, to Allied Chemical Corporation. Recovery of ε-caprolactam. 3,761,467, 9-25-73, Cl. 260-239.30a.

Williams, Bryn T.: *See—*
Barefoot, Charles A.; and Williams, Bryn T., 3,726,279.

Williams, Burton M., to Fibreboard Corporation. Remote starting control circuit for welder power supply. 3,748,561, 7-24-73, Cl. 318-484.000.

Williams, Cecil E. Method of and apparatus for measuring in situ the formation factor. 3,728,622, 4-17-73, Cl. 324-9.000.

Williams, Charles E., to Hough Manufacturing Corporation. Floating constant contact seal for operable partitions. 3,755,968, 9-4-73, Cl. 49-488.000.

Williams, Charles Edington, to General Electric Company, Limited, The. Circuit arrangements for operating electric discharge lamps. 3,710,184, 1-9-73, Cl. 315-227.000.

Williams, Charles J., to Universal Oil Products Company. Laminate of cotton paper core with resin phosphorescent material scribed to expose core. 3,767,517, 10-23-73, Cl. 161-2.000.

Williams, Charles K.: *See—*
Molloy, Edward W.; and Williams, Charles K., 3,732,836.

Williams, Charles R.: *See—*
Corey, Albert E.; Donermeyer, Donald D.; Fantl, Joel; and Williams, Charles R., 3,716,547.
Corey, Albert E.; Donermeyer, Donald D.; Fantl, Joel; and Williams, Charles R., 3,723,381.
Corey, Albert E.; Donermeyer, Donald D.; Fantl, Joel; and Williams, Charles R., 3,770,679.

Williams, Charles S. Lighting fixture. 3,736,417, 5-29-73, Cl. 240-78.00r.

Williams, Charles S. Lighting fixture. 3,742,209, 6-26-73, Cl. 240-73.0bj.

Williams, Charles W.; and Gedcke, Dale A., to Ortec, Incorporated. Bootstrapped charge-sensitive low noise amplifier. 3,713,031, 1-23-73, Cl. 330-16.000.

Williams, Charlie L., to Ithaca Textiles, Inc. Method and construction for form fitting panty hose. 3,763,668, 10-9-73, Cl. 66-178.00a.

Williams, Chester I. Wedge-held U-bolt clamp. 3,771,884, 11-13-73, Cl. 403-188.000.

Williams, Christian B.: *See—*
Poppe, Martin C., Jr.; Beukers, John M.; Meranda, James I.; and Williams, Christian B., 3,754,260.

Williams, Clarence O. Spring drive apparatus and method. 3,732,949, 5-15-73, Cl. 185-40.00r.

Williams, Connie E. Electrical pickup for guitar and combination. 3,763,736, 10-9-73, Cl. 84-329.000.

Williams, Cyril G. Cab for agriculture tractors and the like. 3,776,358, 12-4-73, Cl. 180-84.000.





Williams, D. Michael, to Agridustrial Electronics, Inc. Moisture tester for continually flowing granular materials. 3,760,267, 9-18-73, Cl. 324-61.00r.

Williams, Dale: *See—*
Davies, James A.; Williams, Dale; and Hill, Thomas L., 3,733,260.

Williams, Darrell Andrew; Wisinski, Adam Prus; and Hay, David Gilbert, to ICI Australia Limited. Adjustable close guide. 3,749,297, 7-31-73, Cl. 226-199.000.

Williams, Darrell Andrew; and Wisinski, Adam Prus, to ICI Australia, Limited. Method of pumping explosive slurry. 3,769,874, 11-6-73, Cl. 86-20.00c.

Williams, Darrell E.: *See—*
Post, Stephen F., 3,741,034.

Williams, David C., to Ashland Oil, Inc. Pelletizer control system. 3,743,461, 7-3-73, Cl. 425-148.000.

Williams, David Eyre, to Rolls-Royce Limited. Gas turbine engine. 3,729,930, 5-1-73, Cl. 60-39.380.

Williams, David Gordon, to Lucas, Joseph, (Industries) Limited. Direction indicating systems for road vehicles. 3,747,062, 7-17-73, Cl. 340-81.00f.

Williams, David H., Jr.: *See—*
Mac Mahon, Paul H., 3,764,976.

Williams, David L., to United States of America, Health, Education and Welfare. Glucose determination apparatus. 3,770,607, 11-6-73, Cl. 204-195.00p.

Williams, David L., to Monsanto Company. Urea determination and electrode therefor. 3,776,819, 12-4-73, Cl. 204-1.00t.

Williams, David M., to Church, Bruce, Inc. Method and apparatus for herbicide application in row crops. 3,730,431, 5-1-73, Cl. 239-1.000.

Williams, David R., 20% to Lee, Raymond, Organization, Inc., The. Workwatch. 3,719,037, 3-6-73, Cl. 58-74.000.

Williams, David R., 50% to Savage, Mary Jane. Facial treatment apparatus. 3,749,092, 7-31-73, Cl. 128-256.000.

Williams, David T., to Board of Regents State of Florida. Spectrometer system. 3,756,721, 9-4-73, Cl. 356-80.000.

Williams, Delmas D. Apparatus for opening tobacco curing sticks. 3,776,392, 12-4-73, Cl. 214-1.00r.

Williams, Donald D.: *See—*
Alexander, Joe K.; and Williams, Donald D., 3,778,021.

Williams, Donald D.; deceased (by Williams, Gloria M.; widow), to Hughes Aircraft Company. Nutation damper. 3,730,457, 5-1-73, Cl. 244-1.0sa.

Williams, Donald D., to Hughes Aircraft Company. Velocity control and orientation of a spin-stabilized body. 3,758,051, 9-11-73, Cl. 244-15.00a.

Williams, Donald E., to Acra-Plant, Inc. Clearing attachment for planter shoes. 3,718,191, 2-27-73, Cl. 172-196.000.

Williams, Donald L.: *See—*
Smith, Claude A.; and Williams, Donald L., 3,730,151.

Williams, Donald L., to General Motors Corporation. Ball valve electromagnetic fuel injector. 3,731,880, 5-8-73, Cl. 239-585.000.

Williams, Donald S. Bag filling device. 3,727,374, 4-17-73, Cl. 53-189.000.

Williams, E. R.: *See—*
Birchler, Robert O.; and Williams, E. R., 3,716,764.

Williams, Earl C., to General Electric Company. Process for discrete element transfer from a continuous tape to a discrete substrate. 3,738,888, 6-12-73, Cl. 156-238.000.

Williams, Earl P.: *See—*
Field, Nathan D.; and Williams, Earl P., 3,723,375.

Williams, Edgar L., Jr. Portable electric flashlight. 3,735,119, 5-22-73, Cl. 240-10.60r.

Williams, Edward B., Jr. Mill tool. 3,726,351, 4-10-73, Cl. 175-410.000.

Williams, Edward G.: *See—*
Baker, John R.; and Williams, Edward G., 3,776,760.

Williams, Eric Farmer; Turner, Thomas David; and Johnson, Peter Raymond, to Westinghouse Brake and Signal Company, Limited. Electro-magnetically controlled fluid-pressure systems. 3,761,142, 9-25-73, Cl. 303-22.00r.

Williams, Ernest Wynne: *See—*
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Williams, Ferd E.: *See—*
Nozik, Arthur Jack; Tribit, Samuel; and Williams, Ferd E., 3,725,099.

Williams, Francis A.; and Dudley, Harvey H., to Eastman Kodak Company. Automatic or presettable diaphragm apparatus. 3,781,099, 12-25-73, Cl. 352-141.000.

Williams, Frank R.: *See—*
Gridley, Porter F.; Brennan, James J., Jr.; Williams, Frank R.; and Hagopian, Erivan, 3,769,257.
Jordan, Merrill E.; Burbine, William G.; and Williams, Frank R., 3,725,103.

Williams, Frank Ronald: *See—*
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Williams, Fred D., to Hydril Company. Pipe protector. 3,741,252, 6-26-73, Cl. 138-110.000.

Williams, Frederick C., to Hughes Aircraft Company. Polyphase encoding-decoding system. 3,731,311, 5-1-73, Cl. 343-17.2pc.

Williams, Frederick G., Jr.: *See—*
Carleton, Joseph G.; McEwen, Cassius R.; and Williams, Frederick G., Jr., 3,708,948.

Williams, Galen. Swinging type trailer hitch. 3,751,072, 8-7-73, Cl. 280-49.000.

Williams, Garner W.: *See—*
Brown, William D.; Robertshaw, Thomas L.; and Williams, Garner W., 3,729,347.

Williams, Garold H. Liquid heater and storage means. 3,709,198, 1-9-73, Cl. 122-14.000.

Williams, Garold H. Portable liquid heater and food warmer. 3,730,165, 5-1-73, Cl. 126-266.000.

Williams, Garold H. Combination space and hot water heater. 3,763,848, 10-9-73, Cl. 126-101.000.

Williams, Geoffrey A.: *See—*
Seager, Brent H. A.; and Williams, Geoffrey A., 3,751,631.

Williams, George E.; and Larsen, Olaf E., to Phillips Petroleum Company. Apparatus for producing pipe having a bend. 3,748,077, 7-24-73, Cl. 425-317.000.

Williams, George J. Window alarm particularly useful with metal windows. 3,742,479, 6-26-73, Cl. 340-274.000.

Williams, George J. Door position signalling system. 3,778,806, 12-11-73, Cl. 340-274.000.

Williams, Gerald H., to Evans Products Company. Trolley system for freight bracing bulkhead assemblies. 3,741,127, 6-26-73, Cl. 105-376.000.

Williams, Gerald H., to Evans Products Company. Trolley arrangement for freight bracing bulkhead assembly. 3,745,934, 7-17-73, Cl. 105-376.000.

Williams, Gilmer A.: *See—*
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Williams, Glen L.; Church, George W., Jr.; and Miller, Ronald A., to Church's Fried Chicken, Inc. Napkin dispenser. 3,726,435, 4-10-73, Cl. 221-59.000.

Williams, Gloria M.: *See—*
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Williams, Glynn P.: *See—*
Abrams, Harold B.; Haynes, Benjamin O.; and Williams, Glynn P., 3,735,366.

Williams Gold Refining Company, Incorporated: *See—*
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Williams, Grahame I.: *See—*
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Williams, Gwilym Iorwerth: *See—*
Campbell, John; Freeman, Roger Francis Argyll; and Williams, Gwilym Iorwerth, 3,765,227.

Williams, Harold H. Instant water heater. 3,768,458, 10-30-73, Cl. 126-350.00r.

Williams, Harold Pritchard; and Gijbels, Martinus Hubertus Cornelis, to U.S. Philips Corporation, mesne. Method of manufacturing glass. 3,775,081, 11-27-73, Cl. 65-134.000.

Williams, Harold R. Film dryer. 3,740,866, 6-26-73, Cl. 34-58.000.

Williams, Harrison L., to Preformed Line Products Company. Cable indicating, flotation and vibration damping devices. 3,772,718, 11-20-73, Cl. 9-8.00r.

Williams Harvey Research Corporation: *See—*
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Williams, Herschel C.: *See—*
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Schutze, Henry G.; Williams, Herschel C.; Neureiter, Norman P.; and Bown, Delos E., 3,737,486.

Williams, Hubert L., to Clow Corporation. Butterfly valve with shim seat adjustment. 3,726,505, 4-10-73, Cl. 251-307.000.

Williams, Hugh Charles, to Imperial Tobacco Group Limited. Apparatus for treating a fleece of fibrous material. 3,769,990, 11-6-73, Cl. 131-81.000.

Williams Instruments, Inc.: *See—*
Williams, Robert A.; and Holt, David M., 3,778,709.

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Williams, Robert A., 3,781,676.

Williams, Jack C., to Texaco Inc. Method and system for transporting different types of fluid in a pipeline. 3,750,687, 8-7-73, Cl. 137-1.000.

Williams, Jack L. R.: *See—*
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Williams, Jack L. R.; Laakso, Thomas M.; and Borden, Douglas G., to Eastman Kodak Company. Photosensitive element comprising light-sensitive polymers. 3,776,737, 12-4-73, Cl. 96-115.00r.

Williams, Jack Leroy: *See—*
Zinkgraf, Bernhard A.; and Williams, Jack Leroy, 3,776,419.

Williams, Jackie H.: *See—*
Kuchmak, Myron; Williams, Jackie H.; Taylor, Linnard; and Witter, Robert F., 3,764,556.





Williams, James C.; Purdy, Karl T.; and Gobel, Le Moyne D., to





Koppern, Heinz; Kubath, Helmut; and Williams, [illegible]

Williams, James C.; Purdy, Karl T.; and Gobel, Le Moyne D., to Consumer & Industrial Tools Corporation. Mechanically driven ratchet wrench. 3,726,161, 4-10-73, Cl. 81-60.000.
Williams, James E.: *See—*
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Williams, James Edgar, to Bell Telephone Laboratories, Incorporated. Tape reel hold down mechanism. 3,712,561, 1-23-73, Cl. 242-68.300.
Williams, James Jeffrey Llewelyn: *See—*
Cotton, John Michael; Williams, James Jeffrey Llewelyn; and Cosserat, David Cockburn, 3,771,146.
Williams, Jerome. Machine for compressing and flattening junked automobiles. 3,757,680, 9-11-73, Cl. 100-100.000.
Williams, Jerry G., to United States of America, National Aeronautics and Space Administration. Light intensity strain analysis. 3,715,915, 2-13-73, Cl. 73-88.00a.
Williams, Joel L.; and Stannett, Vivian T. Stopcock-joint assembly. 3,734,127, 5-22-73, Cl. 137-583.000.
Williams, John; and Gilman, Paul, to Eastman Kodak Company. Photographic intensification process and composition. 3,730,721, 5-1-73, Cl. 96-48.0pd.
Williams, John C.: *See—*
Rehberger, Louis W.; Williams, John C.; and Demme, John P., 3,716,303.
Williams, John Charles: *See—*
Dental, Andrew Gomperz; Van Uitert, Le Grand Gerard; and Williams, John Charles, 3,718,601.
Pinnow, Douglas Arthur; Van Uitert, Legrand Gerard; and Williams, John Charles, 3,778,132.
Williams, John K., to Central Texas Iron Works, Inc. Gas cleaning apparatus. 3,755,851, 9-4-73, Cl. 15-346.000.
Williams, John R.; and Norden, Burnice N., to United States of America, National Aeronautics and Space Administration. Holographic thin film analyzer. 3,744,912, 7-10-73, Cl. 356-108.000.
Williams, John T., Sr. Air pollution control system. 3,747,502, 7-24-73, Cl. 98-43.000.
Williams, Joseph L. Tavern and lounge closing system. 3,761,913, 9-25-73, Cl. 340-309.500.
Williams, Keith A., to Phillips Petroleum Company. Porous electrode having cavity with impervious dome. 3,730,858, 5-1-73, Cl. 204-59.00r.
Williams, Kendall Scott: *See—*
Druss, Barry Lewis; and Williams, Kendall Scott, 3,727,932.
Williams, Kenneth C.; and Cook, Shirl E., to Ethyl Corporation. Preparation of organolead-silicon compounds. 3,775,454, 11-27-73, Cl. 260-437.00r.
Williams, Kerry Charles: *See—*
Williams, Patrick Yelverton; Williams, Kerry Charles; and Heath, Charles Edward, 3,744,253.
Williams, Laurence Lyman: *See—*
Coscia, Anthony Thomas; and Williams, Laurence Lyman, 3,734,977.
Williams, Laurence Lyman; and Coscia, Anthony Thomas, to American Cyanamid Company. Polyamidepoly amine-epichlorohydrin wet strength resin. 3,733,290, 5-15-73, Cl. 260-29.20n.
Williams, Laurence Lyman; and Coscia, Anthony Thomas, to American Cyanamid Company. Thermosetting glyoxalated ionic glucopyranosyl polymer and wet strength paper having a content thereof. 3,740,391, 6-19-73, Cl. 260-233.30r.
Williams, Laurence Lyman; and Coscia, Anthony Thomas, to American Cyanamid Company. 2-Vinyl-1-cycloamidinepropionamide polymers. 3,772,259, 11-13-73, Cl. 260-88.70r.
Williams, Laurence Lyman; and Coscia, Anthony Thomas, to American Cyanamid Company. Glyoxal substituted vinyl alcohol-acrylamide graft polymers. 3,772,407, 11-13-73, Cl. 260-875.000.
Williams, Laurence Lyman; and Coscia, Anthony Thomas, to American Cyanamid Company. Paper containing a polyamidepolyamine-epichlorohydrin wet strength resin. 3,778,339, 12-11-73, Cl. 162-164.000.
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Duckett, John C.; Ensley, Rufus Neal; Williams, Leland E.; and Logan, Arthur D., 3,739,675.
Williams, Leonard H. Automatic stabilizer for powered irrigation pipe lines. 3,726,366, 4-10-73, Cl. 188-6.000.
Williams, Leonard H. Sprinkler system and adapter valve therefor. 3,750,954, 8-7-73, Cl. 239-178.000.
Williams, Lester W. Convertable sewing machine cabinet. 3,765,739, 10-16-73, Cl. 312-30.000.
Williams, Lloyd Stuart: *See—*
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Williams, Louis B., Jr., to Monsanto Company. Device for locating and identifying threadline defects. 3,765,777, 10-16-73, Cl. 356-200.000.
Williams, Lucien C.: *See—*
Gacs, Peter T.; and Williams, Lucien C., 3,722,017.
Williams, Lynn A.: *See—*
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Williams, Malcolm; and Hodgson, Duncan Barry, to Lucas, Joseph, (Industries) Limited. Engine test method and apparatus. 3,745,817, 7-17-73, Cl. 73-117.300.
Williams, Malcolm; and Cockshott, Charles Peter, to Lucas, Joseph, (Industries) Limited. Inductor alternator. 3,781,580, 12-25-73, Cl. 310-168.000.
Williams, Malcolm Clarence, to Girling Limited. Retaining clip. 3,738,406, 6-12-73, Cl. 151-41.750.
Williams, Marguerite R., to Surgical Appliance Industries, Inc. Postoperative garment. 3,713,450, 1-30-73, Cl. 128-564.000.
Williams, Mathew, Jr.: *See—*
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Williams, Melvin. Automatic clinical chemistry analyzer. 3,756,783, 9-4-73, Cl. 23-253.00r.
Williams, Merl A., to Central Soya Company, Inc. Method for determining the durability of pellets and apparatus therefor. 3,766,776, 10-23-73, Cl. 73-78.000.
Williams, Michael, to Emerson Electric Co. Electric heating assemblies. 3,778,592, 12-11-73, Cl. 219-336.000.
Williams, Milton Guy, Jr.; and Rausch, Henry, Jr., to Fiber Industries, Inc. Pack for spinning heterofilament fibers. 3,716,317, 2-13-73, Cl. 425-198.000.
Williams, Nathan P.: *See—*
Betts, Robert E.; and Williams, Nathan P., 3,750,581.
Williams, Neville Ronald; and Lloyd, Henry, to United Kingdom Atomic Energy Authority. Nuclear fuel. 3,773,867, 11-20-73, Cl. 264-.500.
Williams, Norman H., to Varian Associates. Adjustable X-ray beam collimator with shutter for illumination of the radiation pattern. 3,767,931, 10-23-73, Cl. 250-511.000.
Williams, Norman L.; and Ryan, Allen L., to Warwick Electronics, Inc. Tape recorder. 3,780,965, 12-25-73, Cl. 242-204.000.
Williams, Olin A., Jr.; and Peatman, John B. Technique for correlation method of determining system impulse response. 3,718,813, 2-27-73, Cl. 235-181.000.
Williams, Orris. Ice fishing box. 3,745,689, 7-17-73, Cl. 43-17.000.
Williams, Patrick Robert, to Temtool Pty., Limited. Method of and apparatus for sharpening small hand tools. 3,733,751, 5-22-73, Cl. 51-3.000.
Williams, Patrick Robert, to Temtool Pty. Limited. Guillotine sharpener. 3,745,721, 7-17-73, Cl. 51-249.000.
Williams, Patrick Yelverton; Williams, Kerry Charles; and Heath, Charles Edward, to Stamford Australia Pty., Ltd. Oil spill boom. 3,744,253, 7-10-73, Cl. 61-1.00f.
Williams, Patrick Yelverton. Collapsible wheel chair. 3,758,150, 9-11-73, Cl. 297-45.000.
Williams, Paul M. Medicated feed supplement for treating cattle. 3,709,987, 1-9-73, Cl. 424-128.000.
Williams, Peter J.: *See—*
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Williams, Ralph L. Electrical discharge apparatus. 3,715,300, 2-6-73, Cl. 204-312.000.
Williams, Ralph L. Article conveyor system. 3,722,661, 3-27-73, Cl. 198-76.000.
Williams, Ralph P.: *See—*
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Williams, Ralph P.; and Lothan, Rector P., to Phillips Petroleum Company. Metal tarnish removers. 3,741,834, 6-26-73, Cl. 252-542.000.
Williams, Ralph P., to Phillips Petroleum Company. Removal of mercury compounds from water. 3,769,205, 10-30-73, Cl. 210-21.000.
Williams, Raymond; and Leckenby, Robert Edwin, to United Kingdom Atomic Energy Authority. Air bearings. 3,718,379, 2-27-73, Cl. 308-9.000.
Williams, Raymond, to United Kingdom Atomic Energy Authority. Air bearings. 3,758,177, 9-11-73, Cl. 308-9.000.
Williams, Raymond G.: *See—*
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Williams, Raymond Joseph, to Eastman Kodak Company. Method and apparatus for inspection of photographic prints. 3,768,905, 10-30-73, Cl. 355-77.000.
Williams, Raymond L.: *See—*
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Williams, Raymond Leroy, to Dresser Industries, Inc. Earth boring machine with a readily replaceable drill rod chuck. 3,744,577, 7-10-73, Cl. 173-163.000.
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Tucker, John R.; and Williams, Raymond R., 3,710,696.
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Williams, Reed F. Hair cutting apparatus. 3,731,379, 5-8-73, Cl. 30-29.500.



Williams, Richard, to RCA Corporation. Apparatus for and method of reproducing an electrostatic charge pattern. 3,776,634, 12-4-73, Cl. 355-133.000.
Williams, Richard A.: *See—*
Tatusku, Philip A.; and Williams, Richard A., 3,777,220.
Tatusku, Philip A.; and Williams, Richard A., 3,777,221.
Williams, Richard D.: *See—*
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Williams, Richard D.; and Michaels, Fred G., to General Motors Corporation. Shift control mechanism. 3,739,656, 6-19-73, Cl. 74-473.00r.
Williams, Richard D., to Warn-Belleview, Inc. Cam and spring operated positive clutch. 3,753,479, 8-21-73, Cl. 192-89.00a.
Williams, Richard Fred: *See—*
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Williams, Richard Jean, to RCA Corporation. Anti-condensation device for infra-red detector. 3,746,873, 7-17-73, Cl. 250-83.30h.
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Williams, Richard M., to Burroughs Corporation. Document encoding apparatus. 3,734,011, 5-22-73, Cl. 101-91.000.
Williams, Richard M. Encode selector system. 3,768,078, 10-23-73, Cl. 340-172.500.
Williams, Robert, to Sun Chemical Corporation. Sheet feeding apparatus for coating machines. 3,774,905, 11-27-73, Cl. 271-49.000.
Williams, Robert A.; and Holt, David M., to Williams Instruments, Inc. Curve following stray energy test system. 3,778,709, 12-11-73, Cl. 324-72.000.
Williams, Robert A., to Williams Instruments, Inc., mesne. Contact structure for test probe. 3,781,676, 12-25-73, Cl. 324-72.500.
Williams, Robert Carl, to Dresser Industries, Inc. Borehole shock absorber. 3,750,423, 8-7-73, Cl. 64-23.000.
Williams, Robert E.: *See—*
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Williams, Robert F., Jr.: *See—*
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Williams, Robert F., Jr.; and Morrison, Edward D., to Eastman Kodak Company. Radiation sensitive films comprising a polyphenylene oxide base. 3,743,508, 7-3-73, Cl. 96-87.00r.
Williams, Robert G.: *See—*
Goodrich, George M.; Williams, Robert G.; and Webbere, Fred J., 3,726,333.
Webbere, Fred J.; and Williams, Robert G., 3,730,251.
Webbere, Fred J.; and Williams, Robert G., 3,731,728.
Williams, Robert G.; and Berthold, Wolfgang K., to International Telephone and Telegraph Corporation. Image comparison device and method. 3,714,439, 1-30-73, Cl. 250-201.000.
Williams, Robert G.; Howard Lawrence W.; Thompson, Richard J.; Prater, Johnny L.; and Ryder, Steven P., to United States of America, Army. Hydro-dynamic testing apparatus. 3,750,459, 8-7-73, Cl. 73-49.400.
Williams, Robert H. Rotary combustion engine. 3,745,979, 7-17-73, Cl. 123-8.150.
Williams, Robert H. Rotary internal combustion engine. 3,777,720, 12-11-73, Cl. 123-8.090.
Williams, Robert J. W.: *See—*
Quintilian, Bartholomew F.; and Williams, Robert J. W., 3,729,815.
Williams, Robert M., to United States of America, Navy. Circulation control rotor system. 3,713,750, 1-30-73, Cl. 416-20.000.
Williams, Robert M., to United States of America, Navy. Minimum drag circulation profile. 3,756,540, 9-4-73, Cl. 244-35.00r.
Williams, Robert M.; and Murphy, Richard D., to United States of America, Navy. Circulation control airfoil system. 3,764,092, 10-9-73, Cl. 244-42.0cd.
Williams, Robert Spencer, to G.W.B. Boilers Limited. Industrial boilers. 3,756,201, 9-4-73, Cl. 122-2.000.
Williams, Roger B., Jr.; Loshbough, Richard C.; and Deitemeyer, Stanley A., to Reliance Electric Company. Electronic weighing system with digital readout. 3,709,309, 1-9-73, Cl. 177-165.000.
Williams, Roger B., Jr., to Reliance Electric Company. Integrating conveyor scale. 3,754,126, 8-21-73, Cl. 235-151.330.
Williams, Roger E., Jr. Color code tabs for mating seat belts ends. 3,768,862, 10-30-73, Cl. 297-385.000.
Williams, Roger J.; and Young, Marvin Kendall. Method for enzymatic conversion of lactose to glucose and galactose in lactose containing fluids. 3,753,725, 8-21-73, Cl. 99-54.000.
Williams, Roger Morley: *See—*
Stirling, Harold James; Williams, Roger Morley; Hampson, Peter Samuel; and Price, James Kenneth, 3,715,515.
Williams, Romaine A.: *See—*
Wilke, Howard C.; and Williams, Romaine A., 3,708,954.
Williams, Ronald D., to Stewart-Warner Corporation. Signal regenerator circuit for paging receiver. 3,768,090, 10-23-73, Cl. 340-311.00r.
Williams, Ronald O., to Stewart-Warner Corporation. Battery conservation circuit. 3,769,593, 10-30-73, Cl. 325-492.000.
Williams, Ross E., to United States of America, Navy. Scanning aperture partially coherent optical correlator. 3,768,907, 10-30-73, Cl. 356-71.000.
Williams, Roy M., Jr., to Sanders Associates, Inc. Current steering amplifier. 3,750,039, 7-31-73, Cl. 330-13.000.
Williams, Russell T. Shiftable footing for trailers. 3,740,077, 6-19-73, Cl. 280-475.000.
Williams, Shelby, Industries, Inc.: *See—*
Bartle, Peter, 3,755,853.
Williams, Sidney B.: *See—*
Edgerton, Bradford W.; Williams, Sidney B.; and Westcott, Vernon C., 3,754,440.
Williams, Stanley Austen. Electrode boilers. 3,760,775, 9-25-73, Cl. 122-382.000.
Williams, Steele D., to Harrington, F. Edward. Impulse burner system and burner therefor. 3,737,279, 6-5-73, Cl. 431-158.000.
Williams, Sylvester V., 15% to Andrus, Elwin L. Apparatus for continuously teeming and solidifying virgin fluid metals. 3,741,152, 6-26-73, Cl. 118-405.000.
Williams, Tegwyn Pierce: *See—*
Jenkinson, Timothy John; and Williams, Tegwyn Pierce, 3,752,678.
Williams, Terence: *See—*
Jenkins, Walter Norman; and Williams, Terence, 3,728,147.
Williams, Thomas A., to Scott Machine Development Corporation. Packaging method and apparatus. 3,745,740, 7-17-73, Cl. 53-26.000.
Williams, Thomas Blair: *See—*
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Williams, Thomas C.: *See—*
Berger, Sidney E.; and Williams, Thomas C., 3,726,710.
Williams, Thomas H.: *See—*
Hill, James D.; Naylor, Hugh E., III; West, Donald L.; and Williams, Thomas H., 3,769,631.
Williams, Thomas H. Moving sound speaker system including a plurality of speakers and a control signal generating device. 3,757,046, 9-4-73, Cl. 179-1.00g.
Williams, Thomas Henry: *See—*
Uskokovic, Milan Radoje; and Williams, Thomas Henry, 3,772,366.
Williams, Thurston V.; and Cheever, Leo H., to O. K. Tool Company, Inc., The. Controlled tool for machining compound surfaces. 3,713,254, 1-30-73, Cl. 51-34.00a.
Williams, Thurston V. Autopilot system controlling entry of a craft into forbidden zones. 3,749,335, 7-31-73, Cl. 244-77.00b.
Williams, Vernon L.: *See—*
Iorizzo, Robert P.; and Williams, Vernon L., 3,764,935.
Williams, Verril E. Self-propelled snow vehicle. 3,756,334, 9-4-73, Cl. 180-5.00r.
Williams, Victor E. Crazy tires. 3,712,359, 1-23-73, Cl. 152-352.000.
Williams, Walter Q., to Interlake, Inc. Coil unreeler. 3,717,313, 2-20-73, Cl. 242-54.00r.
Williams, Wayne M. Umbrella tent. 3,738,378, 6-12-73, Cl. 135-2.000.
Williams, Wilfred A. Magnifying attachment for tweezers. 3,744,883, 7-10-73, Cl. 350-244.000.
Williams, Wilhelm A. Separable multiple envelopes openable without tools. 3,708,107, 1-2-73, Cl. 229-69.000.
Williams, Will B., 1/2 to Benson, Harry J., mesne. Gas conditioning apparatus with baffles and dryer unit. 3,711,256, 1-16-73, Cl. 48-180.00r.
Williams, William D., to Aquology Systems, Inc. Apparatus for emptying sewage or waste facility of a boat. 3,751,187, 8-7-73, Cl. 417-234.000.
Williams, William George, to EMI Limited. Improvements relating to electroluminescent light sources. 3,772,556, 11-13-73, Cl. 313-108.00a.
Williams, Willie V. Method of splicing synthetic thermoplastic carpet yarn ends. 3,741,836, 6-26-73, Cl. 156-158.000.
Williams, Wilmore: *See—*
Luksas, Anthony J.; and Williams, Wilmore, 3,711,303.
Williamson, Alexander; Robinson, John Donald; and Brass, James Richard, to Imperial Chemical Industries Limited. Heat exchanger. 3,768,550, 10-30-73, Cl. 165-76.000.
Williamson, Alfred, Limited: *See—*
Williamson, Frank Miles, 3,709,145.
Williamson, Burch A., to Ledex, Inc. Rotary wafer switch with flanged rotor. 3,737,593, 6-5-73, Cl. 200-11.00d.
Williamson, Charles Brainerd, III: *See—*

Kunstmann, Martin Paul; Williamson, Charles Brainerd, III; and Porter, John Norman, 3,728,448.

Williamson, Charles W.: *See—*
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Williamson, Clifford: *See—*
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Williamson, David T. N.; Moffat, James; and Wood, William, to Molins Machine Company, Limited. Loading units for machine tools. 3,709,384, 1-9-73, Cl. 214-16.40r.

Williamson, David T. N.; Hutchison, James Moffat; and Wilson, Kenneth C., said Hutchison, said Williams and said Wilson assors. to Molins Machine Company Limited. Machine tools and more particularly to data-controlled machine tools. 3,710,466, 1-16-73, Cl.29-27.00r.

Williamson, David Vincent Stewart, to Du Pont de Nemours, E. I., and Company. Coated yarns. 3,739,567, 6-19-73, Cl. 57-153.000.

Williamson, Dennis F., to General Electric Company. Circuit breaker monitor for uninterruptable power systems including a static bypass. 3,714,452, 1-30-73, Cl. 307-86.000.

Williamson, Donald E., to Cordis Corporation. Nonpolarizable muscle stimulating electrode. 3,749,101, 7-31-73, Cl. 128-418.000.

Williamson, Douglas Herbert: *See—*
Steele, Thomas; Eccles, George Oswald; and Williamson, Douglas Herbert, 3,719,431.

Williamson, Everett W.: *See—*
McConnell, John A.; and Williamson, Everett W., 3,730,387.

Williamson, Frank Miles, to Williamson, Alfred, Limited. Ticket issuing and like machines. 3,709,145, 1-9-73, Cl. 101-66.000.

Williamson, Harry, Jr. Apparatus for processing a bed of fluidized solids. 3,733,713, 5-22-73, Cl. 34-57.00a.

Williamson, Herschel M.: *See—*
Goade, James C.; McDonald, John A.; and Williamson, Herschel M., 3,750,537.

Williamson, Hugh C., to Westinghouse Electric Corporation. Hose and hose storage arrangement for a portable dishwasher. 3,710,819, 1-16-73, Cl. 137-355.170.

Williamson, Hugh C., to Universal Metal Products, Inc. Hose clamp. 3,733,654, 5-22-73, Cl. 24-20.0tt.

Williamson, James A., Jr., to Du Pont de Nemours, E. I., and Company. NO - $NO_2$ analyzer. 3,718,429, 2-27-73, Cl. 23-232.00r.

Williamson, James N.: *See—*
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Williamson, James R.: *See—*
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Williamson, James Thomson Davidson: *See—*
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Williamson, John E., to Kenney Manufacturing Company. Master carrier for drapery traverse rod. 3,736,620, 6-5-73, Cl. 16-87.40r.

Williamson, Kenneth D.: *See—*
Caelisch, Howard G.; Keister, Robert O.; Reed, Denvil E., Jr.; and Williamson, Kenneth D., 3,751,361.

Williamson, Reginald Ian; and Lowey, Roy, to L.T.W. Electronics Limited. Printed circuit mask manufacture. 3,736,857, 6-5-73, Cl. 95-12.000.

Williamson, Robert T.; and Georgopoulos, Christos J., to Raytheon Company. Switching circuitry for semiconductor diodes. 3,710,145, 1-9-73, Cl. 307-270.000.

Williamson, Roger C.: *See—*
Harper, Earl F.; and Williamson, Roger C., 3,769,360.

Williamson, Ronald Eugene; Porter, Sidney Clark, Jr.; and Shotting, Kenneth Frederic, to Combustion Engineering, Inc. Automated bricklaying device. 3,757,484, 9-11-73, Cl. 52-749.000.

Williamson, Shellie O.: *See—*
Bragg, Gary O.; Bahr, Russel F.; and Williamson, Shellie O., 3,716,901.

Williamson, Stearns: *See—*
Gullberg, Herbert E. H:son; and Williamson, Stearns, 3,779,573.

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Osborn, Coy D., 3,766,947.
Ver Nooy, Burton, 3,755,908.
Vernooy, Burton, 3,732,625.

Williamson, Walter A., mesne: *See—*
Freyling, Edward N., Jr., 3,781,860.

Williamson, William A., to Clark Equipment Company. Multi-function integrated control mechanism. 3,721,357, 3-20-73, Cl. 214-138.00r.

Williamson, William Robert Nigel; Hicks, Terence Alan; and Day, Elaine Hilda, to Lilly Industries Limited. Phenyl alkyl amine derivatives. 3,729,475, 4-24-73, Cl. 260-293.730.

Willich, Jean Herbert; and De Baan, Johannes J., to Bilstein, August, Firma. Hydraulic impact absorber. 3,774,895, 11-27-73, Cl. 267-136.000.

Willie, Edward N.: *See—*
Volkers, Walter K.; and Willie, Edward N., 3,717,876.

Williford, Jerry G., to Collins Radio Company. RC active filter apparatus. 3,714,603, 1-30-73, Cl. 330-109.000.

Williford, John F.; and Pilger, James P., to Battelle Development Corporation, The. Method for producing continuous lengths of metal matrix fiber reinforced composites. 3,776,297, 12-4-73, Cl. 164-86.000.

Williger, Achac. Dismantable shuttering in the form of a box. 3,762,676, 10-2-73, Cl. 249-53.000.

Willigman, John: *See—*
Cartier, Roger J.; Obermann, George; and Willigman, John, 3,752,944.

Willim, Fritz: *See—*
Neumann, Friedhelm; and Willim, Fritz, 3,765,572.

Willinger, Allan H., to Metaframe Corporation. Protective shipping and display wrapper for an aquarium. 3,718,275, 2-27-73, Cl. 229-14.00c.

Willinger, Allan H., to Metaframe Corporation. Aquarium filter. 3,720,317, 3-13-73, Cl. 210-94.000.

Willinger, Allan H.; Dinnerstein, Albert J.; and Kagan, Avihu, to Metaframe Corporation. Disposable filtration cartridge. 3,738,494, 6-12-73, Cl. 210-169.000.

Willinger, Allan H.; and Dinnerstein, Albert J., to Metaframe Corporation. Rock and gravel bed simulation for aquariums. 3,744,454, 7-10-73, Cl. 119-5.000.

Willinger, Allan H.; Dinnerstein, Albert J.; and Kagan, Avihu, to Metaframe Corporation. Aquarium filtration indicator. 3,746,168, 7-17-73, Cl. 210-87.000.

Willinger, Allan H.; and Dinnerstein, Albert J., to Metaframe Corporation. Aquarium filtration device. 3,746,169, 7-17-73, Cl. 210-87.000.

Willinger, Allan H., to Metaframe Corporation. Wall-mount air pump. 3,746,478, 7-17-73, Cl. 417-413.000.

Willinger, Allan H., to Metaframe Corporation. Fish net. 3,747,250, 7-24-73, Cl. 43-11.000.

Willinger, Allan H.; and Kennedy, Melvin R., to Mattel, Inc. Valveless pump. 3,751,188, 8-7-73, Cl. 417-240.000.

Willinger, Allan H.; and Dinnerstein, Albert J., to Metaframe Corporation. Display package for aquarium accessories. 3,763,997, 10-9-73, Cl. 206-45.340.

Willinger, Allan H., to Metaframe Corporation. Feed-bottle. 3,776,195, 12-4-73, Cl. 119-72.500.

Willis, Alvin B. Tail light adapter assembly. 3,717,758, 2-20-73, Cl. 240-8.300.

Willis, Arnold L., to MSL Industries, Inc. Pillow construction. 3,753,263, 8-21-73, Cl. 5-337.000.

Willis, Billy E.: *See—*
Matthews, Roy S.; and Willis, Billy E., 3,741,165.

Willis, Candler A., Jr., to General Electric Company. Lighting system with auxiliary lamp control circuit. 3,737,720, 6-5-73, Cl. 315-91.000.

Willis, Clarence Jesse: *See—*
Bankert, Jon Calvin, Jr.; Lutchansky, Milton; Osifchin, Nicholas; and Willis, Clarence Jesse, 3,750,058.

Willis, David M.; Young, William O., Jr.; and Quattlebaum, Walter J., to Butte Knitting Mills. Method of preparing packages of yarn for subsequent treatment. 3,710,431, 1-16-73, Cl. 29-428.000.

Willis, Donald Henry, to RCA Corporation. Horizontal oscillator control for plural operating mode television receivers. 3,740,489, 6-19-73, Cl. 178-69.5tv.

Willis, Donald Henry, to RCA Corporation. Video amplifiers. 3,742,376, 6-26-73, Cl. 330-21.000.

Willis, Douglas. Playground toy. 3,730,520, 5-1-73, Cl. 272-1.00r.

Willis, Edward O.; Musser, Lester W., Jr.; and Seagraves, James E., to United States of America, Navy. Chaff dispensing system. 3,721,196, 3-20-73, Cl. 102-89.000.

Willis, Frederick Gordon, Jr., 30% to Birch, Richard J. Electromagnetically actuated artificial heart. 3,733,616, 5-22-73, Cl. 3-1.000.

Willis, Frederick Gordon, Jr., 30% to Birch, Richard J. Magnetically actuated pump with flexible membrane. 3,768,931, 10-30-73, Cl. 417-322.000.

Willis, Grant N., 25% to Claymer, Frederick H., Jr., 5% to Whiting, John R., 10% to Jones, Mack C., 3% to Dallon, Robert E. and 1% to Dion, Warren E. Switching system. 3,763,341, 10-2-73, Cl. 200-153.00r.

Willis, James E.: *See—*
Boster, Everett E.; and Willis, James E., 3,759,407.

Willis, Lyle G. Method of registering film negatives. 3,751,817, 8-14-73, Cl. 33-184.500.

Willis, Roland G.; and Wabnitz, Herbert E., Jr., to Eastman Kodak Company. Process for inhibiting the bleaching of photographic silver images. 3,749,572, 7-31-73, Cl. 96-4.000.

Willis, Thomas Edward, to Du Pont de Nemours, E. I., and Company. Guide device for separating yarn ends. 3,747,317, 7-24-73, Cl. 57-106.000.

Willis, Wilburn C.; and LaBarge, Robert L., to Aluminum Company of America. Tear-off closure with reinforcing rib. 3,743,129, 7-3-73, Cl. 215-46.00a.

Willis, Wilburn Coy, to Aluminum Company of America. Knurled closure. 3,717,275, 2-20-73, Cl. 215-43.00r.

Willis, Wilfred: *See—*
Gabriel, Lester H.; and Willis, Wilfred, 3,754,954.

Willison, Richard M.: *See—*
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Willits, Samuel P.; and Mohan, William L., to Spartanics, Ltd. Random oriented decoder for label decoding. 3,743,820, 7-3-73, Cl. 235-61.11e.

Willke, Herbert L.; and Abraham, James G., to Armco Steel Corporation. Leg supported offshore structure with jacking apparatus. 3,743,247, 7-3-73, Cl. 254-89.000.

Willke, Theodore L.: *See—*
Lawson, Maurice O.; and Willke, Theodore L., 3,725,737.

Willkins, Donald E. Prefabricated modular rough plumbing unit. 3,774,631, 11-27-73, Cl. 137-357.000.

Willmarth, Charles T. Wire splice guage and connector. 3,716,653, 2-13-73, Cl. 174-87.000.

Willmott, Colin B., to Chamberlain Manufacturing Corporation. Radio controlled system for garage door opener. 3,716,865, 2-13-73, Cl. 343-225.000.

Willmroth, Gunter. System for pneumatic emptying of non-pressurizable containers filled with bulk material. 3,774,792, 11-27-73, Cl. 214-310.000.

Willms, Charles F., to Norris Industries, Inc. Quick opening device for dry-pipe valves of automatic sprinkler systems. 3,727,878, 4-17-73, Cl. 251-57.000.

Willmund, Wolf-Dieter: *See—*
Stein, Werner; Plapper, Jurgen; and Willmund, Wolf-Dieter, 3,724,999.

Willner, Horst, to Bayerische Berg-, Hutten- und Salzwerke Aktiengesellschaft. Solar and planetary gear system with load pressure compensation. 3,757,608, 9-11-73, Cl. 74-801.000.

Willner, Kurt. Apparatus for the control of traveling constructional implements. 3,778,168, 12-11-73, Cl. 356-152.000.

Willot, Antoine, to Consortium General Textile, S.A. Disposable pants and the method of manufacturing same. 3,756,878, 9-4-73, Cl. 156-70.000.

Willoughby, Eric O., to University of Adelaide, The. Generation of navigating planes for aircraft landing utilizing parabolic cheese aerial. 3,716,862, 2-13-73, Cl. 343-108.000.

Willoughby, John H.; and Broome, Barry G. Anamorphic lens system. 3,749,477, 7-31-73, Cl. 350-181.000.

Willow Hill Industries, Inc.: *See—*
Puzik, Otto V., 3,735,719.
Puzik, Otto V., 3,769,691.

Willox, J. Hebden. Tamper-resistant guard duct for electric pole riser cables. 3,740,455, 6-19-73, Cl. 174-101.000.

Wills, Arnold: *See—*
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Wills, Frank E., to Borg-Warner Corporation. Temperature control system with multiple thermostats. 3,768,545, 10-30-73, Cl. 165-27.000.

Wills, John H.: *See—*
Miller, James R.; Pierce, Richard H.; Linton, Robert W.; and Wills, John H., 3,714,068.

Wills, Walter R.: *See—*
Komline, Thomas R., Sr.; and Wills, Walter R., 3,723,712.

Willsey, Charles H., to Seymour Foods, Inc. Article handling apparatus. 3,752,340, 8-14-73, Cl. 214-314.000.

Willsey, William W. Vehicle liquid tank transport with flexible partition. 3,727,795, 4-17-73, Cl. 220-22.000.

Willson, Elmer E.; and Pouch, Thomas M., to Multifastener Corporation, Part orienting device. 3,759,418, 9-18-73, Cl. 221-157.000.

Willson, James K. V.; and Eskridge, Marshall. Vascular tissue removing device. 3,749,085, 7-31-73, Cl. 128-2.00b.

Willson, James R., to Robertshaw Controls Company. Cooking computer. 3,731,059, 5-1-73, Cl. 235-61.00a.

Willson, James R.; and Carey, Donald W., to Robertshaw Controls Company. Method for stabilizing and employing temperature sensitive materials exhibiting martensitic transitions. 3,748,197, 7-24-73, Cl. 148-131.000.

Willson, John E.; Austin, Carl F.; and Sayler, William H., said Austin assor to United States of America, Navy. Pressure mold for removing liquid from material being cast. 3,756,756, 9-4-73, Cl. 425-84.000.

Willutzki, Kort. Vacuum tube for accelerating charged particles, such as electrons or ions, by high electric direct voltages. 3,771,000, 11-6-73, Cl. 313-63.000.

Willy, Glenn R., to Standard Pressed Steel Co. Collar assembly for use with a rivet. 3,733,958, 5-22-73, Cl. 85-37.000.

Willy, John Robert, to Sangamo Electric Company. Electrolytic capacitor having low value inductance and equivalent series resistance. 3,753,051, 8-14-73, Cl. 317-230.000.

Willyoung, David M., to General Electric Company. Compact connection system for polyphase armature winding. 3,739,213, 6-12-73, Cl. 310-198.000.

Willyoung, David M., to General Electric Company. Flow surge equipment for dynamoelectric machine. 3,755,702, 8-28-73, Cl. 310-53.000.

Wilmanns, Ingo; and Barz, Alfred, to Leybold-Heraeus-Verwaltung GmbH. Process monitoring and control arrangement. 3,721,910, 3-20-73, Cl. 328-141.000.

Wilmans, Stephen C. Paint applicator. 3,712,748, 1-23-73, Cl. 401-197.000.

Wilmer, James A.: *See—*
Huffman, Harold W.; and Wilmer, James A., 3,761,300.

Wilmer, Michael E.: *See—*
Rittler, Alfred J.; and Wilmer, Michael E., 3,765,026.

Wilmers, Gottlieb: *See—*
Froede, Walter; Wilmers, Gottlieb; and Dekitsch, Anton, 3,765,392.

Wilmes, Fran. Fresh air vent. 3,727,539, 4-17-73, Cl. 98-41.000.

Wilmot, George E., Jr., to United Aircraft Corporation. Ejector with variable mixing section and primary nozzle areas. 3,721,387, 3-20-73, Cl. 239-416.400.

Wilmot, Kenneth, to Neotechnic Engineering Limited. Valve assemblies for aerosol containers. 3,727,806, 4-17-73, Cl. 222-402.200.

Wilmot, Richard D.: *See—*
Cantwell, Thomas C., Jr.; and Wilmot, Richard D., 3,727,218.

Wilmot, Richard D.; Bradshaw, Oscar G.; and Wiggins, David G., to Hughes Aircraft Company. Video processing system. 3,720,942, 3-13-73, Cl. 343-7.700.

Wilmot, Richard Dean, to Hughes Aircraft Company. Radar video processing apparatus. 3,727,215, 4-10-73, Cl. 343-5.0dp.

Wilms, Carl Alfred: *See—*
Barron, Charles Dwain; Geczy, Bela; and Wilms, Carl Alfred. 3,780,815.

Wilms, Carl Alfred, to Jackson, Byron, Inc. Chain actuated pipe tongs. 3,739,663, 6-19-73, Cl. 81-57.390.

Wilms, Hermann: *See—*
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Wilms, Karl-Heinz, to Optische Werke G. Rodenstock. Slit lamp. 3,735,125, 5-22-73, Cl. 240-413.000.

Wiloth, Fritz: *See—*
Jaeger, Friedrich; Koepp, Hans-Martin; Wiloth, Fritz; and Eismann, Rudolf, 3,756,990.

Wilowski, Theodore. Traction device. 3,747,237, 7-24-73, Cl. 36-59.00c.

Wilputte Corporation: *See—*
Peck, John C., 3,777,680.

Wilsch, Herbert: *See—*
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Wilsch, Herbert; and Zanner, Johann, Jr., to Agfa-Gevaert Aktiengesellschaft. Motion picture projector for use with plural types of film-containing magazine. 3,744,889, 7-10-73, Cl. 352-72.000.

Wilseck, James: *See—*
Dewar, Donald M.; and Wilseck, James, 3,710,879.

Wilsker, Jay M.; and Miranker, Samuel H., to Automatic Steam Products Corporation. Garment dewrinkling process and apparatus. 3,765,580, 10-16-73, Cl. 223-52.000.

Wilson & Chandler, mesne: *See—*
Wilson, Harold W., 3,773,910.

Wilson, Alexander John, to Girling Limited. Platform for pit weighing device. 3,747,716, 7-24-73, Cl. 177-134.000.

Wilson, Alfred L.: *See—*
Ossenkop, Robert J.; and Wilson, Alfred L., 3,738,650.

Wilson, Allen B. Aid for use in sitting down or standing up. 3,739,793, 6-19-73, Cl. 135-45.000.

Wilson, Anthony Ian, to Teleflex Limited. Vehicle seats, especially aircraft seats. 3,741,513, 6-26-73, Cl. 248-429.000.

Wilson, Arthur C., to General Electric Company. Windowed oven door with rotatable inner panel. 3,749,081, 7-31-73, Cl. 126-200.000.

Wilson, Arthur K.: *See—*
Wilson, Arthur K.; and Bookbinder, Oscar (said Bookbinder assor. to said), 3,748,461.

Wilson, Arthur K.; and Bookbinder, Oscar, said Bookbinder assor. to said Wilson, Arthur K. Strip lighting structure. 3,748,461, 7-24-73, Cl. 240-51.11R.

Wilson, Arthur L., to Lee, Raymond, Organization, Inc., The. Reciprocating motor with conductive disc armature. 3,718,829, 2-27-73, Cl. 310-27.000.

Wilson, Ben F., to United States of America, Army. Low L/D rocket engine with tangential-tangential injection. 3,717,999, 2-27-73, Cl. 60-258.000.

Wilson, Bernard: *See—*
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Wilson, Bruce N.; and Hindersinn, Raymond R., to Hooker Chemical Corporation. Oxyalkylated derivatives of phenolphthalein. 3,758,422, 9-11-73, Cl. 260-47.0eq.

Wilson, Burton D.; Haist, Grant M.; and Olivares, Ismael A., to Eastman Kodak Company. Photosensitive and thermosensitive element, composition and process. 3,751,255, 8-7-73, Cl. 96-66.00r.

Wilson, Calvin L.; and Fox, John H., Jr., to Reynolds Metals Company. Pressure regulator construction and system utilizing the same. 3,762,431, 10-2-73, Cl. 137-116.300.

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Wilson, Clyde L. Automotive additive. 3,752,766, 8-14-73, Cl. 252-57.000.
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Wilson, David G., to Massachusetts Institute of Technology. Automatic zone-fare ticketing for public transportation vehicles. 3,749,219, 7-31-73, Cl. 194-4.00r.
Wilson, David G.; and Smith, Ora E., to Massachusetts Institute of Technology. Impact sensor and coder apparatus. 3,759,085, 9-18-73, Cl. 73-12.000.
Wilson, David J.; and Wilson, David J., Jr. Crown remover. 3,755,901, 9-4-73, Cl. 32-43.000.
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Wilson, Donald C., to FMC Corporation. Keying grip clamp for holding a thin flexible article. 3,763,524, 10-9-73, Cl. 24-243.00k.
Wilson, Donald G. Mailing and return envelope. 3,747,837, 7-24-73, Cl. 229-73.00r.
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Wilson, Donald Victor, to Hoffmann-La Roche Inc. Imidazolyl derivatives of proteins and polysaccharides. 3,759,890, 9-18-73, Cl. 260-112.00r.
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Wilson, Farris H., Jr., to Goodyear Tire & Rubber Company, The. Reductive alkylation reactions using modified nickel catalyst systems. 3,739,026, 6-12-73, Cl. 260-576.000.
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Wilson, Francis B.; and Rodenkirch, Mathew E., to Singer Company, The. Predictive position feedback controller for web guide control system. 3,748,565, 7-24-73, Cl. 318-609.000.
Wilson, Frank. Golf target. 3,741,549, 6-26-73, Cl. 273-181.00a.
Wilson, Frank. Protective pads. 3,747,654, 7-24-73, Cl. 150-1.50r.
Wilson, Frank G. Wringer mop head replacement and actuator mechanism. 3,727,259, 4-17-73, Cl. 15-119.00a.
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Wilson, George A., to I-T-E Imperial Corporation. Racking safety disconnect switch for vacuum circuit breakers. 3,772,489, 11-13-73, Cl. 200-50.0aa.
Wilson, George A., to I-T-E Imperial Corporation. Draw out switchgear-compartment shutter. 3,778,568, 12-11-73, Cl. 200-50.0aa.
Wilson, George E., to Houdaille Industries, Inc. Method of treating sewage using high polymer ratio flocculation agent biologically produced in situ. 3,763,039, 10-2-73, Cl. 210-6.000.
Wilson, Gerald E., to Schlumberger Technology Corporation. Retrievable well packer. 3,714,983, 2-6-73, Cl. 166-120.000.
Wilson, Gerald L., to Massachusetts Institute of Technology. Magnetic circuit breaker. 3,716,685, 2-13-73, Cl. 200-147.00r.
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Wilson, Harold P., to Vulcan Materials Company. Electrodialytic production of stannic oxide sol. 3,723,273, 3-27-73, Cl. 204-180.00p.
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Wilson, Harold W., to Golden Cycle Corporation, The. Process for the entrapment and recovery of sulfur dioxide gas. 3,720,754, 3-13-73, Cl. 423-244.000.
Wilson, Harold W., to Golden Cycle Corporation, The, mesne. Process for the beneficiation of waste copper slag by removal and recovery of its content of copper and zinc. 3,744,990, 7-10-73, Cl. 75-24.000.
Wilson, Harold W., to Wilson & Chandler, mesne. Preparation of solid composition of matter containing large percentages of sulfuric acid. 3,773,910, 11-20-73, Cl. 423-530.000.
Wilson, Harold W., to Golden Cycle Corporation, The. Process for separation and recovery of gold. 3,778,252, 12-11-73, Cl. 75-101.00r.
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Wilson, Harry C. Self latching hinge. 3,715,778, 2-13-73, Cl. 16-180.000.
Wilson, Harry Howard, Jr. Overhead projection apparatus. 3,711,194, 1-16-73, Cl. 353-99.000.
Wilson, Harry R., to McQuay-Perfex Inc. Engine cooling system for vehicles. 3,715,001, 2-6-73, Cl. 180-68.00r.
Wilson, Haydn, to Kent Instruments Limited. Apparatus for measurement of gas mixture properties. 3,720,594, 3-13-73, Cl. 204-195.00s.
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Wilson, Homer M., to Petrolite Corporation. Resistance-capacitance meter. 3,711,770, 1-16-73, Cl. 324-57.00r.





Wilson, Homer M., to Petrolite Corporation. Corrosion ratemeter. 3,717,566, 220-73, Cl. 204-195.00c.
Wilson, Homer M., to Petrolite Corporation. Corrosion ratemeter. 3,730,869, 5-1-73, Cl. 204-195.00c.
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Wilson, James W., to Union Oil Company of California. Technique for injecting fluids into subterranean formations. 3,730,273, 5-1-73, Cl. 166-269.000.
Wilson, Jesse C.; Borel, Melvin J.; and Weaver, Charles B., to Texas Instruments, Incorporated. Color infrared detecting set. 3,742,124, 6-26-73, Cl. 178-5.20r.
Wilson, Jimmie E. Power gutter cleaners. 3,751,749, 8-14-73, Cl. 15-92.000.
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Wilson, John Dennis, to United Kingdom of Great Britain and Northern Ireland, Secretary of State for Defence in Her Britannic Majesty's Government of the. Cooling of hot fluid ducts. 3,737,152, 6-5-73, Cl. 263-44.000.
Wilson, John E., to Carborundum Company, The. Refractory faced blast furnace wear element. 3,765,662, 10-16-73, Cl. 266-27.000.
Wilson, John Edwin. Base support assembly for vacuum vessels. 3,750,819, 8-7-73, Cl. 215-13.00r.
Wilson, John H., to Telex Computer Products, Inc. Reel hub latch. 3,747,867, 7-24-73, Cl. 242-68.300.
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Wilson, Joseph G. Garden seeder. 3,745,945, 7-17-73, Cl. 111-96.000.
Wilson, Joseph R. Heat exchanger. 3,732,919, 5-15-73, Cl. 165-110.000.
Wilson, Josie Dianne. Means for securing hair pieces and the like to the head and a method of using same. 3,724,470, 4-3-73, Cl. 132-46.00r.
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Wilson, Randy Eugene, to Litton Systems, Inc. Modular printed circuit board assembly. 3,778,681, 12-11-73, Cl. 317-101.0dh.
Wilson, Raymond; deceased (by Wilson, Kathryn; executrix); and Mendelson, Emanuel S. Adjustable binaural tube assembly. 3,746,124, 7-17-73, Cl. 131-24.000.
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Wilson, Raymond F.; Cole, Edward L.; and Peck, Reese A., to Texaco Inc. Treatment of heavy petroleum oils. 3,733,259, 5-15-73, Cl. 208-86.000.
Wilson, Raymond F.; and Cole, Edward L., to Texaco Inc. Treatment of heavy petroleum oils. 3,779,895, 12-18-73, Cl. 208-86.000.
Wilson, Raymond W., to Ford Motor Company. Tractor-implement hydraulic lift system. 3,753,467, 8-21-73, Cl. 172-3.000.
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Wilson, Richard C., to Aluminum Company of America. Indicator element for ball bat. 3,779,551, 12-18-73, Cl. 273-72.00a.
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Wilson, Richard L.; and Worbois, Robert J., to Westinghouse Air Brake Company. Apparatus for detecting emergency venting of brake pipe. 3,749,453, 7-31-73, Cl. 303-67.000.
Wilson, Richard W., to Motorola, Inc. Contact for piezoelectric crystals. 3,721,841, 3-20-73, Cl. 310-9.400.
Wilson, Richard W., to Motorola, Inc. Method of providing thermally conductive ground connections for integrated circuits. 3,735,485, 5-29-73, Cl. 29-591.000.
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Wilson, Robert Glen. Soil compactor. 3,737,244, 6-5-73, Cl. 404-117.000.
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Wilson, Robert Laverne, to Ehrsam Company, The. Safety device for a slack take-up weight of a belt conveyor. 3,753,488, 8-21-73, Cl. 198-208.000.
Wilson, Robert M., to Dare Products, Incorporated. Coreless double flanged insulator. 3,749,819, 7-31-73, Cl. 174-158.00f.
Wilson, Robert M., to Dare Products, Incorporated. Clip-type electrical fence insulator. 3,752,902, 8-14-73, Cl. 174-163.00f.
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Wilson, Robert Woodrow, to Bell Telephone Laboratories, Incorporated. Synchronous satellite tracking system. 3,747,095, 7-17-73, Cl. 343-7.400.
Wilson, Roger Allan, to Du Pont de Nemours, E. I., and Company. Fluid stripping devices. 3,765,195, 10-16-73, Cl. 68-175.000.
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Wilt, M. Duane: *See—*
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Wilt, Marvin Duane, to Teledyne Industries, Inc. Metal detection system for indicating the motion and direction of motion of a body having magnetic properties. 3,745,450, 7-10-73, Cl. 324-41.000.
Wilt, Marvin Duane, to Teledyne Industries, Inc. (Geotech Division). Intrusion signature detector requiring both frequency and amplitude shifts. 3,745,552, 7-10-73, Cl. 340-261.000.
Wilt, Ted. Suitcase divider. 3,734,249, 5-22-73, Cl. 190-41.00b.
Wiltberger, Jon C.: *See—*
Oberto, Edwin L.; Ryan, David E.; and Wiltberger, Jon C., 3,767,118.
Wilton Corporation: *See—*
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Wilton, Donald P.: *See—*
Cline, Richard F.; and Wilton, Donald P., 3,719,763.
Wilton, John, to Foseco International Limited. Heat-insulating shaped compositions. 3,770,466, 11-6-73, Cl. 106-56.000.
Wilton-Davies, Colin C., to National Research Development Corporation. Method and apparatus for monitoring electrocardiac signals. 3,707,959, 1-2-73, Cl. 128-2.06a.
Wiltron Company: *See—*
Dunwoodie, Duane E., 3,774,107.
Wheeler, Daniel E., 3,717,811.
Wiltrout, Dale E., to Ultradynamics Corporation. Carwash water reclaim system. 3,774,625, 11-27-73, Cl. 134-104.000.
Wiltsey, Donald G.; Oberhofer, Alfred W.; Bloemke, Richard E.; and Karklins, Arnold, to Nalco Chemical Company. Composition and process for cleaning ion exchange resins. 3,748,285, 7-24-73, Cl. 252-531.000.
Wiltsey, Howard E.: *See—*
Jaeschke, Ralph L.; Moyer, William H.; and Wiltsey, Howard E., 3,749,216.
Wiltshire, Arthur J.; Ranallo, Henry U.; and Czumber, Frank E., to Structural Fibers, Inc. Apparatus for making fiber preform. 3,736,086, 5-29-73, Cl. 425-92.000.
Wiltshire, Arthur J. Apparatus for inserting a flexible preform in a mold. 3,781,155, 12-25-73, Cl. 425-392.000.
Wiltshire Cutlery Company Proprietary Limited: *See—*
Bayly, Peter Kingsley, 3,774,350.
Wiltshire, Reginald Harold: *See—*
Denning, Ralph Murch; Wiltshire, Reginald Harold; and Woodward, Clifford Stanley, 3,729,934.
Wilwerding, Dennis J., to Honeywell Inc. Adapter circuit for use with auto exposure camera. 3,776,112, 12-4-73, Cl. 95-10.0ce.
Wilwerding, Dennis Joseph, to Honeywell Inc. Computer type flash apparatus with noise inhibiting quench circuit. 3,758,822, 9-11-73, Cl. 315-241.00p.
Wily, John L.: *See—*
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Wilzig, Emil Karl: *See—*
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Wiman, Robert Edgar: *See—*
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Wimberly, Louis. Board game apparatus. 3,779,555, 12-18-73, Cl. 273-134.00d.
Wimer, William W.; and Bushick, Ronald D., to Sun Research and Development Co. Integrated terephthalic acid process. 3,766,257, 10-16-73, Cl. 260-515.00p.
Wimmer, Guenther: *See—*
Wittig, Karl; Wimmer, Guenther; Court, Patrick R. J.; and Akrell, Carl, 3,777,053.
Wimmer, Gunther W.: *See—*
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Wimmer, Hans, to West Company, The. Two compartment ampul syringe. 3,766,917, 10-23-73, Cl. 128-218.00m.
Wimmer, Robert. Production of glass fiber-reinforced plastic articles. 3,720,540, 3-13-73, Cl. 117-139.000.
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Hrach, Josef; and Wimmer, Theodor, 3,709,859.
Win, Maung Hla: *See—*
McDonnell, Robert William; and Win, Maung Hla, 3,781,228.
Winand, Louis M.; and Goret, Jean R., 50% to Produits Chimiques Pechiney-Saint-Gobain and 50% to UCB (Union-Chimique-Chemische Bedrijven). Extraction of phosphoric acid at saline solutions state. 3,767,769, 10-23-73, Cl. 423-309.000.
Winans, Charles F.; and Cardina, James A., to Goodyear Tire & Rubber Company, The. Process of preparing aromatic sulfonic acid salts of hexamethylenetetramine. 3,772,285, 11-13-73, Cl. 260-248.500.
Winans, Dale D.; and Sherwin, Amos G. Water-base flaw detection method. 3,777,143, 12-4-73, Cl. 250-302.000.
Winbauer, Alois P., to Mohawk Precision Corporation. Edge sharpening tool. 3,766,649, 10-23-73, Cl. 30-287.000.
Winberg, Douglas F., to Subsurface Machine and Manufacturing Inc. Tunneling machine. 3,776,595, 12-4-73, Cl. 299-31.000.
Winberg, Paul N.; and Winberg, Robert W. Intermediate clamp for contour seamer. 3,722,437, 3-27-73, Cl. 112-121.120.
Winberg, Raanar O. Mixing capsule in particular for dental preparation. 3,756,571, 9-4-73, Cl. 259-60.000.
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Wince, Vearl S., to Holophane Company, Inc. Luminaire comprising means for reducing temperature of exterior refractor. 3,725,697, 4-3-73, Cl. 240-93.000.
Winchcombe, John J.; Windsor, John P. G.; and Biggs, Ian, to Dunlop Holdings Limited. Treatment of plastics materials. 3,708,362, 1-2-73, Cl. 156-82.000.
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Winchell, Frank J., to General Motors Corporation. Vehicle occupant restraining belt system. 3,743,319, 7-3-73, Cl. 280-150.0sb.
Winchell, Harry S.: *See—*
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Wincklhofer, Robert C.; and Weedon, Gene C., to Allied Chemical Corporation. Polyblend gems and the like and methods for producing them. 3,762,976, 10-2-73, Cl. 156-173.000.
Wincklhofer, Robert Charles: *See—*
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Windecker, John C.; and Hayman, William. Dental instrument. 3,724,081, 4-3-73, Cl. 32-40.00r.
Windecker, Roland T., to Texas Instruments, Incorporated. Electronic control system. 3,761,734, 9-25-73, Cl. 307-92.000.
Windel, Hermann, Firma: *See—*
Postulka, Simon; Vorderbrugge, Hermann; and Thermann, Hans-Christof, 3,737,963.
Windelman, Paul F., to United States of America, Interior. Multiple conductor bundle support and spacer. 3,739,077, 6-12-73, Cl. 174-149.00r.
Windemuth, Erwin: *See—*
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Windemuth, Erwin; and Trense, Ulrich, to Bayer Aktiengesellschaft. Process for the production of allophanate polyisocyanates. 3,769,318, 10-30-73, Cl. 260-471.00c.
Winder, Jesse W. Motorcycle trail hitch. 3,711,120, 1-16-73, Cl. 280-292.000.
Winders, Calvin M. Flow control valve means. 3,738,611, 6-12-73, Cl. 251-294.000.
Winders, Gordon R., to Nuclear Fuel Services, Inc. End fitting retainer for nuclear fuel assembly. 3,769,158, 10-30-73, Cl. 176-78.000.
Windham, Robert L. Sewage back-up sensor assembly. 3,774,187, 11-20-73, Cl. 340-243.000.
Windholz, Thomas B.: *See—*
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Windholz, Thomas B.; Johnston, David B. R.; and Patchett, Arthur A., to Merck & Co., Inc. 13-Aminogonanes and N-acyl and N-alkyl derivatives thereof. 3,714,208, 1-30-73, Cl. 260-397.400.
Windings, Inc.: *See—*
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Newman, James W., 3,748,817.
Wagner, William A.; and Newman, James W., 3,747,861.
Windisch, Stefan, to Aerojet-General Corporation. Titanium cutting tools with high binder phase content. 3,764,275, 10-9-73, Cl. 29-182.700.
Windischman, Edward F.; Chambers, John M.; and Werner, Howard E., to Sherwood Medical Industries, Inc. Structure for connecting a flexible tube to a syringe. 3,752,510, 8-14-73, Cl. 285-334.400.
Windish, Thomas J.: *See—*
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Windle, William K.: *See—*
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Schmedding, Herbert; and Helbig, Helmut, 3,734,849.
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Windsor, George C. P., to Warwick Electronics Inc. Pull-proof control knob. 3,719,378, 3-6-73, Cl. 287-53.00h.
Windsor, John P. G.: *See—*
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Windsor, Lynne E., to Carter, James B., Limited. Three wire electrical plug. 3,760,326, 9-18-73, Cl. 339-14.00r.
Windsor Machine Company, Limited: *See—*
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Windsor, Meredith M.; and Heller, Ronald D., to D-D-D Engineering & Service Corporation. Wire terminating apparatus. 3,741,261, 6-26-73, Cl. 140-1.000.
Windsor, Robert K. Device for applying materials to the area of the eye. 3,779,245, 12-18-73, Cl. 128-233.000.
Windstrup, Robert F., to Continental Can Company, Inc. Modular conveyor support assembly. 3,739,904, 6-19-73, Cl. 196-204.000.
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Wines, David D. Motor vehicle camper unit. 3,756,649, 9-4-73, Cl. 296-23.00r.
Winfree, Virginia R. Combination bicycle seat. 3,771,827, 11-13-73, Cl. 297-192.000.
Wing, Albert L. Router template attachment. 3,716,085, 2-13-73, Cl. 144-144.00r.
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Wing, Frederick Donald. Free core grinding drill. 3,718,130, 2-27-73, Cl. 125-20.000.



Wing, George S. Internally reactive structural joinder system.



Winkle, Gunther, to Krauss-Maffei Aktiengesellschaft. Transport
Winkler, Klaus, to Siemens Aktiengesellschaft. System

Wing, George S. Internally reactive structural joinder system. 3,759,119, 9-18-73, Cl. 81-57.390.

Wing, Howard. Joint structure. 3,747,965, 7-24-73, Cl. 287-54.00c.

Wing, James M. Fan fold apparatus. 3,762,699, 10-2-73, Cl. 270-73.000.

Wing, Malcolm E.: *See—*
Firtz, Richard B.; Livesay, William R.; and Wing, Malcolm E., 3,745,358.

Wing, Milton S.: *See—*
Tischler, Larry G.; and Wing, Milton S., 3,773,850.

Wing, Milton S.; and Mathews, Glenn W., to Dow Chemical Company, The. Vapor phase preparation of norbornenes. 3,763,253, 10-2-73, Cl. 260-666.0py.

Wing, Milton Silas: *See—*
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Wing, Stephen C.: *See—*
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Wing, Willis Guy; Baker, George Edward March; and Smith, Rodney Frank, to Sperry Rand Limited. Synchros. 3,732,479, 5-8-73, Cl. 318-654.000.

Wingard Limited: *See—*
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Wingardh, Uno, to Sprinter Pack AB. Container with lid for liquids. 3,717,274, 2-20-73, Cl. 215-1.00c.

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Winge, John L., to Bendix Corporation, The. Brake shoe centering mechanism. 3,724,611, 4-3-73, Cl. 188-216.000.

Wingerd, Winston Harold; and Damisch, Russell D., to Borden, Inc. Modified skim milk and process for its preparation. 3,756,831, 9-4-73, Cl. 99-54.000.

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Ullrich, Martin; Erdmenger, Rudolf; Kunze, Heinrich; Nothen, Karl; Appel, Hansgunter; and Wingler, Frank, 3,741,272.

Wingler, Frank; and Bartl, Herbert, to Bayer Aktiengesellschaft. Low molecular weight halogen-containing copolymers. 3,745,192, 7-10-73, Cl. 260-615.00p.

Wingler, Frank; Pedain, Josef; Appel, Hansgunter; and Bartl, Herbert, to Bayer Aktiengesellschaft. Pulverisable acrylate resins. 3,753,958, 8-21-73, Cl. 260-78.50r.

Wingler, Frank J. Over running clutch. 3,767,019, 10-23-73, Cl. 197-45.000.

Wingrove, Earl R., Jr.: *See—*
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Winicov, Murray W.: *See—*
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Cantor, Abraham; and Winicov, Murray W., 3,770,641.
Cantor, Abraham; and Winicov, Murray W., 3,777,022.

Wininger, Charles W. Ball batting paddle. 3,721,441, 3-20-73, Cl. 273-97.000.

Wink, Randall W.: *See—*
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Winkel Machine Company, Inc.: *See—*
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Van Linder, Ronald C.; and Van Linder, Basil R., 3,743,114.
VanLinder, Ronald C.; and VanLinder, Basil R., 3,752,361.

Winkelblech, Kermit W., to Du Pont de Nemours, E. I., and Company. Colloidal dispersions of ammonia-comminuted particles of methylmethacrylate-acid-copolymers. 3,740,367, 6-19-73, Cl. 260-29.67a.

Winkelman, Earl A.; and Fitzsimmons, Paul A., to Matthews, Jas. H., & Co. Retread tire marking method and apparatus. 3,739,662, 6-19-73, Cl. 76-107.00r.

Winkelmann, Hans Dieter; Rosendahl, Friedrich Karl; Oertel, Harald; and Rinke, Odenthal-Globusch Heinrich, to Bayer Aktiengesellschaft. Process for the preparation of β-formylaminopropionic. 3,758,553, 9-11-73, Cl. 260-482.00r.

Winkelmann, Herbert E., to General Motors Corporation. Brush and spring holder assembly. 3,739,205, 6-12-73, Cl. 310-42.000.

Winkelmann, Herbert E., to General Motors Corporation. Clearance take up bearing assembly. 3,770,990, 11-6-73, Cl. 308-72.000.

Winkelstein, Robin A.: *See—*
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Winkhaus, Gunter; Wargalla, Gerhard; and Kampf, Fritz, to Vereinigte Aluminium-Werke Aktiengesellschaft. Method of removing deposits formed in bauxite extraction. 3,753,776, 8-21-73, Cl. 134-3.000.

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Winkle, Gunther, to Krauss-Maffei Aktiengesellschaft. Transport system with moving-platform terminal. 3,727,558, 4-17-73, Cl. 104-21.000.

Winkler & Dunnebier Maschinenfabrik und Eisengiesserei: *See—*
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Winkler, Alexander: *See—*
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Winkler, Alfred: *See—*
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Wick, Richard; Winkler, Alfred; and Von Fischern, Bernhard, 3,733,989.
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Winkler, Alfred; Winkler, Friedrich; Neudecker, Karl; and Zanner, Johann, Jr., to Agfa-Gevaert Aktiengesellschaft. Motion picture camera with fading means. 3,712,720, 1-23-73, Cl. 352-91.000.

Winkler, Alfred, to Agfa-Gevaert Aktiengesellschaft. Single-lens reflex camera. 3,722,388, 3-27-73, Cl. 95-31.0ac.

Winkler, Alfred, to Agfa-Gevaert Aktiengesellschaft. Camera with impeller-actuated source of artificial light. 3,735,679, 5-29-73, Cl. 95-11.50r.

Winkler, Alfred, to Agfa-Gevaert Aktiengesellschaft. Motion picture camera. 3,765,754, 10-16-73, Cl. 352-90.000.

Winkler, Alfred; Lermann, Peter; and Fauth, Guenter, to Agfa-Gevaert Aktiengesellschaft. Photographic apparatus for use with percussively ignitable flash lamps. 3,777,641, 12-11-73, Cl. 95-11.001.

Winkler, Alfred; Lermann, Peter; and Fauth, Guenter, to Agfa-Gevaert Aktiengesellschaft. Camera for use with percussively ignitable flash lamps. 3,777,642, 12-11-73, Cl. 95-11.001.

Winkler, Charles L.: *See—*
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Winkler, Charles L., to Westinghouse Electric Corporation. Distance slowdown control for elevator systems. 3,747,710, 7-24-73, Cl. 187-29.00r.

Winkler, Charles L.; and Wavre, Andre, to Westinghouse Electric Corporation. Floor selector for an elevator car. 3,750,850, 8-7-73, Cl. 187-29.00r.

Winkler, Charles L., to Westinghouse Electric Corporation. Speed pattern generator for elevator systems. 3,774,729, 11-27-73, Cl. 187-29.00r.

Winkler, Charles L., to Westinghouse Electric Corporation. Terminal slowdown control for elevator system. 3,779,346, 12-18-73, Cl. 187-29.00r.

Winkler, Frederic V. Hair stylists accessory tray or the like. 3,715,038, 2-6-73, Cl. 211-128.000.

Winkler, Friedrich: *See—*
Winkler, Alfred; Winkler, Friedrich; Neudecker, Karl; and Zanner, Johann, Jr., 3,712,720.

Winkler, Friedrich; and Zanner, Johann, Jr., to Agfa-Gevaert Aktiengesellschaft. Auxiliary drive for components of photographic apparatus. 3,728,013, 4-17-73, Cl. 352-166.000.

Winkler, Friedrich; and Zanner, Johann, to Agfa-Gevaert Aktiengesellschaft. Magazine for storage of cassettes containing convoluted motion picture film. 3,741,375, 6-26-73, Cl. 206-1.00r.

Winkler, Gerhard: *See—*
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Winkler, Gerhard B.: *See—*
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Winkler, Gustav A., to Motorola, Inc. Tape cartridge ejection mechanism. 3,747,940, 7-24-73, Cl. 274-4.00b.

Winkler, Hans J. S.; and Neumann, Friedrich E., to Shell Oil Company. Hydroformylated block copolymers. 3,776,981, 12-4-73, Cl. 260-880.00b.

Winkler, Harold W.: *See—*
Kronenberg, Francis E.; Olson, Alexius B.; Poirot, James M.; Rohweder, Gerald D.; and Winkler, Harold W., 3,717,025.

Winkler, John A., to Lee, Raymond, Organization, Inc., The. Fishing equipment retriever. 3,769,734, 11-6-73, Cl. 43-17.200.

Winkler, Josef: *See—*
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Winkler, Joseph; Bredbenner, Charles W.; and Adlum, Lawrence G., to Tenneco Chemicals Inc. Process for preparing substantially nonlustrous open pore polyurethane foams in situ and foam prepared thereby. 3,748,288, 7-24-73, Cl. 260-2.5ah.

Winkler, Joseph, to Tenneco Chemicals, Inc. Vinyl polymer plastisol composition. 3,758,430, 9-11-73, Cl. 260-27.00r.

Winkler, Julius G.; and Corazzini, Pasquale, to Compo Industries, Inc. Apparatus provided with lasting tabs and method of lasting. 3,757,436, 9-11-73, Cl. 36-46.500.

Winkler, Klaus, to Siemens Aktiengesellschaft. Magnetic tape apparatus with graduated brake and/or motor torque for controlling tape winding. 3,729,148, 4-24-73, Cl. 242-182.000.





Winkler, Klaus, to Siemens Aktiengesellschaft. System for scanning the loop-warning barriers of pneumatic buffer chambers in magnetic tape units. 3,747,818, 7-24-73, Cl. 226-1.000.

Winkler, Laszlo: *See—*
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Winkler, Richard H., to Spectrotherm Corporation. Electronic switch for an operational amplifier circuit. 3,770,890, 11-6-73, Cl. 178-7.600.

Winkler, Robert, to Escher Wyss Limited. Process for evaporating NaCl brine to separate NaCl crystals from $Na_2SO_4$. 3,712,797, 1-23-73, Cl. 23-296.000.

Winkler, Robert J., to Long Mile Rubber Company. Wrist alarm for children. 3,747,328, 7-24-73, Cl. 58-57.500.

Winkler, Rudolf, to Sandoz Ltd. Process for the production of 1,5-dihydroxyanthraquinone. 3,773,800, 11-20-73, Cl. 260-383.000.

Winkler, Ted: *See—*
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Winkler, Tommy H. Drum anchor. 3,710,670, 1-16-73, Cl. 84-421.000.

Winkler, Wolfgang: *See—*
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Winkless, Robert A., to Continental Can Company, Inc. Method for pigmented side striping of can bodies. 3,713,862, 1-30-73, Cl. 117-17.500.

Winn, Fred M., Jr., to Dow Chemical Company, The. Mixing apparatus. 3,741,533, 6-26-73, Cl. 259-4.000.

Winn, James B., Jr., to Archilithic Co., The. Dispensing gun for fiber rovings and cementitious materials. 3,740,260, 6-19-73, Cl. 117-104.00r.

Winn, Leo W.: *See—*
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Winn, Leo W., to Mechanical Technology Incorporated. Hydrodynamic foil bearings. 3,747,997, 7-24-73, Cl. 308-9.000.

Winn, Lucius A., Jr. Motor drive for a lawn mower. 3,732,673, 5-15-73, Cl. 56-249.000.

Winn, Oliver H., to General Electric Company. Cap-reactor power groove ballast circuit. 3,775,720, 11-27-73, Cl. 336-69.000.

Winn, Ray; and Ennis, Joseph C. Thermoluminescent radiation detector. 3,775,614, 11-27-73, Cl. 250-337.000.

Winn, Russell Edward: *See—*
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Winn, William C.: *See—*
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Winnick, Charles N., to Halcon International, Inc. Poly(ethylene terephthalate) from acyloxyethy terephthalates. 3,756,987, 9-4-73, Cl. 260-75.00r.

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Winning, Guy. Rotational casting machine. 3,775,036, 11-27-73, Cl. 425-174.400.

Winningham, Truman, to Truman Smog Control Inc. Method, apparatus and systems for separating particulate matter from gases laden therewith and accumulating the particulate matter. 3,733,787, 5-22-73, Cl. 55-228.000.

Winningham, Truman, to Truman Smog Control, Inc. Sludge separator. 3,779,153, 12-18-73, Cl. 100-116.000.

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Winquist, Knut Ludvig; and Backman, Sture Anders, to Graffman, Johan H. Fuel-injection carburetors having fuel regulator. 3,720,403, 3-13-73, Cl. 261-50.00a.

Winslow, Charles E., Jr.; Plentovish, Jack; and Kise, Mearl A., to Virginia Chemicals Inc. Method of recovering chemical values from a formate-sodium aydrosulfite reaction mixture. 3,718,732, 2-27-73, Cl. 423-199.000.

Winslow, Frank Thomas; and Stanish, Robert Bernard. Display apparatus. 3,731,412, 5-8-73, Cl. 40-106.210.

Winslow, James C. Seed dispensing wheel. 3,773,224, 11-20-73, Cl. 222-139.000.

Winslow, John M.; and Sagawa, Burt K., to Minnesota Mining and Manufacturing Company. Heat developable diazo type sheets. 3,754,916, 8-28-73, Cl. 96-75.000.

Winslow, Lester M.: *See—*
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Winslow, Lester M., to United States of America, Navy. Liquid cooled band edge oscillation prevention for a TWT. 3,771,010, 11-6-73, Cl. 315-3.500.

Winslow, Lester M., to United States of America, Navy. Backward wave prevention for a TWT helix. 3,781,588, 12-25-73, Cl. 315-3.500.

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Winsor, John; and Carruthers, John. Desulphurisation and hydrogenation of aromatic-containing hydrocarbon fractions. 3,714,030, 1-30-73, Cl. 208-210.000.

Winstead, Jordan D.; and Barnes, Robert B. Engine block stand. 3,719,356, 3-6-73, Cl. 269-48.000.

Winstead, Thomas W. Method for reclaiming the selvage of foamed thermoplastic web. 3,723,582, 3-27-73, Cl. 264-37.000.

Winstel, Guenter: *See—*
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Winstel, Gunter, to Siemens Aktiengesellschaft. Procedure and preparation for the production of homogeneous and plane parallel epitactic growth layers of semiconducting compounds by melt epitaxy. 3,762,943, 10-2-73, Cl. 117-201.000.

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Winston, Emanuel A. Bubble producing toy. 3,708,909, 1-9-73, Cl. 46-7.

Winston, Emanuel A. Friction drive toy. 3,732,645, 5-15-73, Cl. 46-75.000.

Winston, Eric, to Jerrold Electronics Corporation. Electrical connector operable for diverse coaxial cable center conductor diameters. 3,757,279, 9-4-73, Cl. 339-177.00r.

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Winstrom, Willis L.; Engel, John T.; Sigler, Alan D.; and Thomas, George David, to Vitamin Premixers of Omaha, Inc. Stabilized vitamin A additive. 3,708,583, 1-2-73, Cl. 424-312.000.

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Winter, Augustus P. Linear positive displacement pump with rotary to reciprocating drive. 3,771,918, 11-13-73, Cl. 417-266.000.

Winter, Christian, to Huck, Robert and Evers, Gunter Rene. Lipstick case. 3,728,034, 4-17-73, Cl. 401-84.000.

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Winter, Gerhard; Zirngibl, Hans; and Mansmann, Manfred, to Bayer Aktiengesellschaft. Production of fibrous alkali metal hexatitanates. 3,760,068, 9-18-73, Cl. 423-598.000.

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Winter, Phillip M.; and Gardner, Gary A. Spheroidal peening particles adhesively bonded to a woven cloth. 3,778,241, 12-11-73, Cl. 161-87.000.

Winter, Richard M.; and Aylard, William F., to Non-Ferrous International Corporation, mesne. Method and apparatus for working or finning tubing. 3,765,207, 10-16-73, Cl. 72-78.000.

Winter, Roland; and Seltzer, Raymond, to Ciba-Geigy Corporation. Diamino triazines. 3,755,322, 8-28-73, Cl. 260-249.600.

Winter, Ronald C.; and Knief, Enno A., to Cutler-Hammer, Inc. Multiposition bi-directional rotary means for a switch or the like. 3,748,915, 7-31-73, Cl. 74-128.000.

Winter, Sigbert, to Bosch, Robert, G.m.b.H. Hydraulic system. 3,769,800, 11-6-73, Cl. 60-445.000.

Winter, Werner; Thiel, Max; Stach, Kurt; Schmidt, Felix Helmut; and Stork, Harald, to Boehringer Mannheim Gesellschaft mit beschrankter Haftung. Anti-cholesterol phenoxyacetic acid esters. 3,736,334, 5-29-73, Cl. 260-335.000.

Winter, Werner; Fauland, Erich; Stach, Kurt; Schmidt, Felix Helmut; and Aumuller, Walter, to Boehringer Mannheim Gesellschaft mit beschrankter Haftung. Anti-diabetically active sulfonyl-ureas and sulfonyl-semicarbazides. 3,752,851, 8-14-73, Cl. 260-553.0da

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Winters, Arthur R., to Pengo Corporation. Pilot bit with reinforcing ribs. 3,736,996, 6-5-73, Cl. 175-392.000.

Winters, Donald C., to Congoleum Industries, Inc. Fibrous base felt containing cellulosic fibers, 10% to 50% asbestos fibers, and 1% to 5% of water soluble catronic polyacrylic resin as a drainage aid. 3,725,196, 4-3-73, Cl. 162-145.000.

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Winters, Henry, 50% to Militana, Salvatore G. Method of fabricating hollow frame structures for boats and the like. 3,775,214, 11-27-73, Cl. 156-245.000.

Winters, Hilary M.: *See—*
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Winters, Kenneth W., 20% to Flynn, Maurice J., Max, Henry L. and Albright, Charles F.; d/b/a Flynn, Max and Albright. Hot box actuated and detecting brake air line vent. 3,755,669, 8-28-73, Cl. 246-169.00a.

Winters, Mary M. Aquatic apparatus with bouyancy control structure. 3,751,030, 8-7-73, Cl. 272-1.00b.

Winters, Michael E.; and Han, Wyong S., to Uniroyal Inc. Wire reinforced rubber product. 3,715,266, 2-6-73, Cl. 161-140.000.

Winters, Richard D., to General Semiconductor Industries, Inc. Electromagnetic pulse suppressor. 3,777,219, 12-4-73, Cl. 317-61.500.

Winters, Theron C. Fishing accessory and method. 3,711,985, 1-23-73, Cl. 43-25.200.

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Winther, Shirley M.: *See—*
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Wirth, Wayne M., to Minnesota Mining and Manufacturing Company. Locking coupling mechanism for reel storage container. 3,754,421, 8-28-73, Cl. 70-63.000.

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Wirz, Willy Walter. Apparatus for the rapid electrometric determination of ion activity. 3,753,084, 8-14-73, Cl. 324-30.00c.

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Wisdom, Dorothea R. Continuous solvent recovery process. 3,775,053, 11-27-73, Cl. 8-142.000.

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Wisdom, William H. Method for cleaning carpets and like materials. 3,733,176, 5-15-73, Cl. 8-149.100.

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Wise, Elmo E. Ankle supports. 3,777,751, 12-11-73, Cl. 128-166.000.

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Wise, Eugene H.; and Friend, Alden E., to Sloane, R & G, Manufacturing Company, Inc. Fire prevention device. 3,726,050, 4-10-73, Cl. 52-1.000.

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Wise, Layton A., to Mine Safety Appliances Company. Compressed gas breathing apparatus. 3,776,422, 12-4-73, Cl. 222-3.000.

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Wise, Lowell G., to Sherwin-Williams Company, The. Method of electrocoating using a flowing mercury cathode. 3,723,274, 3-27-73, Cl. 204-181.000.

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Wise, Robert C.: *See—*
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Wise, Robert G., to Cincinnati Milacron Inc. Tracing feed rate steering control. 3,715,646, 2-6-73, Cl. 318-632.000.

Wise, Robert G., to Cincinnati Milacron Inc. Tracing feed rate control circuit. 3,743,910, 7-3-73, Cl. 318-578.000.

Wise, Walter R., to Garlock Inc. Method and apparatus for bonding an element to a conical surface. 3,751,796, 8-14-73, Cl. 29-559.000.

Wise, Warren M., to Corning Glass Works. Bicarbonate ion sensitive electrode. 3,723,281, 3-27-73, Cl. 204-195.001.

Wise, William B.: *See—*
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Wiseman, Barry R. Microfilmed information retrieval system. 3,746,440, 7-17-73, Cl. 353-108.000.

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Wiser, Charles E.; and Peterson, Donald O., to Air Preheater Company, Inc., The. Opening mechanism for incinerator door. 3,742,876, 7-3-73, Cl. 110-176.000.

Wiser, Joseph E.: *See—*
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Wisfeld, Werner; Wirth, Hans; and Lotz, Walter, to Laboratorium fur Adsorptionstechnik GmbH. Method of producing drinking water from contaminated ground and surface water. 3,755,157, 8-28-73, Cl. 210-17.000.

Wisfeld, Werner; Wirth, Hans; Lotz, Walter; and Kratz, Alfred, to Laboratorium fur Adsorptionstechnik GmbH. Method of and apparatus for the purification of water containing organic contaminants. 3,779,909, 12-18-73, Cl. 210-29.000.

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Wisler, Lee Gail, to Electric Furnace, The. Heat treating furnace. 3,750,904, 8-7-73, Cl. 214-21.000.





Wisman, Gerrit Marinus; and Van Rijs, Pieter Adam, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek

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Wisman, Gerrit Marinus; and Van Rijs, Pieter Adam, to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek ten behoeve van Nijverheid, Handel en Verkeer. Device for degassing a liquid. 3,771,288, 11-13-73, Cl. 55-204.000.

Wismer, Marco: *See—*
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Wisner, Kenneth R. Magnetic tape system with variable speed reproduction. 3,746,801, 7-17-73, Cl. 179-100.20t.

Wisner, Louis M., to Celotex Corporation, The. Orbital perforator. 3,747,447, 7-24-73, Cl. 83-2.000.

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Wisniewski, Raymond B., to United States of America, Army. Pulse ratio modulation valve. 3,780,763, 12-25-73, Cl. 137-599.000.

Wisniewski, Wladyslaw; Piotrowski, Jan; and Szeler, Zbigniew, to Centrum Techniki Okretowej Przedsiebiorstwo Panstwowe Wyodrebnione. Geared engine. 3,728,050, 4-17-73, Cl. 418-165.000.

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Wisotzky, Otto G., to GTE Automatic Electric Laboratories, Incorporated. Tone keying circuit for telephone inband signaling system. 3,764,753, 10-9-73, Cl. 179-84.0vf.

Wisotzky, Otto G., to GTE Automatic Electric Laboratories, Incorporated. Dial pulse correcting circuit. 3,772,474, 11-13-73, Cl. 179-16.0ea.

Wisotzky, Otto G.; Blackburn, Tom L.; and Urbach, Roy J. G., to GTE Automatic Electric Laboratories, Incorporated. Pulse-correcting system for a telephone signaling system. 3,781,482, 12-25-73, Cl. 179-16.0ea.

Wisotzky, Reuben; and Petersen, Richard E., to Pandel-Bradford, Inc. Method of making suede-like plastic. 3,709,752, 1-9-73, Cl. 156-79.000.

Wisotzky, Reuben; and Slosberg, Davis K., to Pandel-Bradford, Inc. Method of preparing resin-backed tufted carpet tiles. 3,728,182, 4-17-73, Cl. 156-72.000.

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Wisser, William L., to Narco Scientific Industries, Inc. Multiple socket connector apparatus. 3,721,941, 3-20-73, Cl. 339-17.0cf.

Wissler, Bernhard; and Dietsche, Erich, to Dietsche, Roman, Firma. Brush. 3,723,015, 3-27-73, Cl. 401-278.000.

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Wissmann, Kurt. Bulk conveyor. 3,747,742, 7-24-73, Cl. 198-221.000.

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Witkowski, Henry J. Ball game. 3,778,055, 12-11-73, Cl. 273-1.00r.

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Witt, Ernst-Christian; Stach, Kurt; Thiel, Max; Schmidt, Felix Helmut; and Stork, Harald, to Boehringer Mannheim Gesellschaft mit beschrankter Haftung. Phenoxy-alkyl-carboxylic acid compounds. 3,781,328, 12-25-73, Cl. 260-471.00r.

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Witte, Robert S.; Dailey, C. Lee; Eck, Milford J.; and Rutherford, Walter H., to TRW Inc. Cold cathode construction for gaseous laser. 3,721,916, 3-20-73, Cl. 331-94.500.

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Witte, Wolfgang, to Bodenseewerk Perkin-Elmer & Co., GmbH. Observing device for heated sample cells. 3,730,630, 5-1-73, Cl. 356-74.000.

Witteles, Abraham A., to Singer Company, The, mesne. Radiation method for determining semiconductor stability and reliability. 3,723,873, 3-27-73, Cl. 324-158.00t.

Wittels, William. Kaolin based ceramic tile containing granite, feldspar and alumina particles. 3,759,726, 9-18-73, Cl. 106-45.000.

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Wittenzellner, Ernst, to Siemens Aktiengesellschaft. Monostable multivibrator pulse-forming circuit. 3,742,257, 6-26-73, Cl. 307-273.000.

Wittenzellner, Georg; and Stark, Hans, to Maschinenfabrik Reinhausen Gebruder Scheubeck K.G. Transfer switch for tap-changing regulating transformers with improved contact structure. 3,739,111, 6-12-73, Cl. 200-11.0tc.

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Woitun, Eberhard; Ohnacker, Gerhard; Narr, Berthold; Horch, Ulrike; and Kadatz, Rudolf, to Boehringer Ingelheim G.m.b.H. 2-Heterocyclic amino-4-morpholino-thieno(3,2-d)pyrimidines. 3,763,156, 10-2-73, Cl. 260-247.100.
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Wolf, Charles B.; Fey, Maurice G.; and Azinger, Frederick A., Jr., to Westinghouse Electric Corporation. Arc detecting material admission apparatus for use in combination with an electric arc heater. 3,760,151, 9-18-73, Cl. 219-383.000.
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Wolf, Edgar, to Redactron Corporation. Speed insensitive reading and writing apparatus for digital information. 3,720,927, 3-13-73, Cl. 340-174.10h.
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Wolfe, John E.; Ledges, George E.; and Glascock, Homer H., to General Electric Company. Storage system with collimated electron beam for minimal spherical aberration. 3,760,383, 9-18-73, Cl. 340-173.0cr.
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Wolfe, Maston B., Jr., to Standard Manufacturing Company, Incorporated. Lift truck. 3,727,774, 4-17-73, Cl. 214-1.00d.
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Wooden, John A., to Brookside Corporation. Plastic fan hub. 3,708,243, 1-2-73, Cl. 416-134.000.

Wood, Carl O., to Westinghouse Electric Corporation. Centrifugal fan inlet vane capacity control. 3,781,127, 12-25-73, Cl. 415-147.000.

Wood, Charles D., to Southwest Research Institute. Explosive seismic energy source with quick release valve. 3,750,837, 8-7-73, Cl. 181-.50h.

Wood, Charles D., to Southwest Research Institute. Apparatus having a filter disposed across a fluid passageway. 3,756,416, 9-4-73, Cl. 210-408.000.

Wood, Charles D., III, to Southwest Research Institute. Method of and apparatus for producing a repetitive seismic impulse. 3,744,018, 7-3-73, Cl. 340-12.0sd.

Wood, Charles D., III; and Clark, John M., Jr., to Southwest Research Institute. Method of and apparatus for providing an impact to a vehicled carried penetrating tool. 3,752,240, 8-14-73, Cl. 173-1.000.

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Wood, Dennis E., to Curlator Corporation. Method for manufacturing non-woven textile articles. 3,755,028, 8-28-73, Cl. 156-62.200.

Wood, Dennis E., to Curlator Corporation. Machine for forming random fiber webs. 3,768,119, 10-30-73, Cl. 19-156.300.

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Wood, Donald W., to Argus Chemical Corporation. Styrene polymerization with ring substituted alkyl perbenzoates and new branched chain alkyl perbenzoates. 3,743,630, 7-3-73, Cl. 260-93.502.

Wood, Dryl Gower, to International Business Machines Corporation. Air drive keyboard tester. 3,768,622, 10-30-73, Cl. 197-19.000.

Wood, Edward G. Portable power unit support. 3,741,670, 6-26-73, Cl. 408-92.000.

Wood, Edwin L.; and Gibson, Roger E., to Eastman Kodak Company. Stabilizer system for cellulose ester plastics. 3,723,147, 3-27-73, Cl. 106-176.000.

Wood, Eric, to Refuse Compaction Ltd. Method of baling town or urban refuse. 3,747,516, 7-24-73, Cl. 100-38.000.

Wood, Ernest C.; and Samuels, Peter B. Method and apparatus for suturing skin wounds. 3,753,438, 8-21-73, Cl. 128-335.000.

Wood, Ernest C.; and Samuels, Peter B., 1/5 to Levaux, Rene G. Clip applicator. 3,775,825, 12-4-73, Cl. 29-212.00d.

Wood, Frederick C.: *See—*
Kelley, Arnold E.; Reeg, Cloyd P.; Wood, Frederick C.; and Cheadle, George D., 3,728,251.

Wood, Frederick J., Jr.: *See—*
Chase, David O.; Maloney, Martin V.; Wood, Frederick J., Jr.; and Wood, Barry B., 3,708,821.
Chase, David O.; Maloney, Martin V.; Wood, Frederick J., Jr.; and Wood, Barry B., 3,717,896.

Wood, Gary J.; and Wood, Bonnie G. Split socket wrench and method of using same. 3,780,604, 12-25-73, Cl. 81-64.000.

Wood, Geoffrey Brian. Chimney liners. 3,780,639, 12-25-73, Cl. 98-58.000.

Wood, George R. Motorcycle chain guard. 3,724,582, 4-3-73, Cl. 180-33.00r.

Wood, Gordon G.; and McCabe, James L., to Woodco Ltd. Truss and method of making same. 3,778,946, 12-18-73, Cl. 52-223.00r.

Wood, Graham Charles: *See—*
Houghton, Roger Reid; and Wood, Graham Charles, 3,729,391.

Wood, Guy B.: *See—*
Busch, Edward R.; and Wood, Guy B., 3,715,592.

Wood, Hamilton L., to Acme Visible Records, Inc. Mounting means for carrier. 3,724,793, 4-3-73, Cl. 248-247.000.

Wood, Hamish C. S.; and Stuart, Alexander, to University of Strathclyde. Pteridine derivatives and method. 3,725,408, 4-3-73, Cl. 260-251.500.

Wood, Harold B., Jr.: *See—*
Howell, Edward R.; Wood, Harold B., Jr.; and Sayad, Richard S., 3,779,927.

Wood, Harold V.; and Brown, Terry D., to Phillips Petroleum Company. Copolymers stabilized with a thiouracil compound. 3,737,484, 6-5-73, Cl. 260-880.00b.

Wood, Harrison F.; and Bernstein, Sidney. Test for hemolytic streptococci and test media therefor. 3,781,192, 12-25-73, Cl. 195-100.000.

Wood, Herbert Leslie, to Imperial Chemical Industries Limited. Granular propellant containing $KNO_3$ and unsaturated ester. 3,776,787, 12-4-73, Cl. 149-7.000.

Wood Industries, Inc.: *See—*
Fusco, Ralph L., 3,752,075.
Trier, James J.; and Enz, John H. F., 3,734,017.

Wood Institute for Industrial Research & Distribution: *See—*
Moret, Michel Antoine Cesar; Bergman, Manfred; Jousson, Pierre Jean; and Mira, Jean, 3,756,225.

Wood, Jack: *See—*
Boyce, Clive B. C.; Barker, Michael D.; and Wood, Jack, 3,709,902.

Wood, James M., Jr., to Ethyl Corporation. Preparation of beryllium hydride. 3,743,710, 7-3-73, Cl. 423-645.000.

Wood, James M., Jr., to Ethyl Corporation. Prereduction process. 3,758,289, 9-11-73, Cl. 75-10.000.

Wood, Jerry L.: *See—*
Browning, William C.; Chesser, Billy G.; and Wood, Jerry L., 3,709,819.
Browning, William C.; Chesser, Billy G.; and Wood, Jerry L., 3,738,934.

Wood, John C.: *See—*
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Wood, John Irving: *See—*
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Wood, John W., to Black and Decker Manufacturing Company, The. Attachment coupling for power tool. 3,724,237, 4-3-73, Cl. 64-4.000.

Wood, John W., to Black and Decker Manufacturing Company, The. Drill hammer-drill mechanism for power tool. 3,730,281, 5-1-73, Cl. 173-48.000.

Wood, Joseph T., to Baxter Laboratories, Inc. Tamperproof and reusable sterile closure assembly. 3,730,376, 5-1-73, Cl. 220-27.000.

Wood, Kenneth G.: *See—*
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Wood, Lawrence H.: *See—*
Eichelberger, William E.; and Wood, Lawrence H., 3,781,846.

Wood, Lawrence M., to Eastman Kodak Company. Shutter control mechanism. 3,709,113, 1-9-73, Cl. 95-10.0ct.

Wood, Lee. Exercise device. 3,737,162, 6-5-73, Cl. 272-68.000.

Wood, Lewis: *See—*
Huntington, Robert C.; and Wood, Lewis, 3,729,694.

Wood, Lloyd Murray, to Polymer Corporation Limited. Carton packing device. 3,735,561, 5-29-73, Cl. 53-245.000.

Wood, Lorin A.: *See—*
Donovan, Bradford P.; and Wood, Lorin A., 3,738,594.
Farr, Alton E.; Welch, Graydon L.; and Wood, Lorin A., 3,746,284.

Wood, Louis L., to Grace, W. R., & Co. Method for preparing polyurethane from polyisocyanate and polyalkanolamine using a blocking acid salt. 3,779,994, 12-18-73, Cl. 260-77.5aq.

Wood, Lowell L., Jr.: *See—*
Jensen, Carl A.; and Wood, Lowell L., Jr., 3,715,110.

Wood, Marc, Societe Anonyme Pour la Promotion des Eschanges Techniques Internaux: *See—*
Gewiss, Lucien Victor, 3,726,408.

Wood, Marvin E.: *See—*
Weis, Frank G.; and Wood, Marvin E., 3,730,348.

Wood, Michael Burke, to International Research & Development Company, Limited. Fluid transfer means. 3,731,865, 5-8-73, Cl. 277-15.000.

Wood, Myrick R.; Duane, Bernard H.; and Lessor, Delbert L., to United States of America, Atomic Energy Commission. Permanent magnet probe flowmeter. 3,736,798, 6-5-73, Cl. 73-194.0em.

Wood, Neil Frederick: *See—*
Leyland, Boris Nicholas; and Wood, Neil Frederick, 3,756,906.
Leyland, Boris Nicholas; and Wood, Neil Frederick, 3,758,374.

Wood, Orin Lew: *See—*
Thorne, Gale H.; Wood, Orin Lew; and Knudson, Kay L., 3,738,914.

Wood, Paul A. Block and building construction using same. 3,717,967, 2-27-73, Cl. 52-259.000.

Wood, Prentice J., to Mead Corporation, The. Article carrier. 3,715,029, 2-6-73, Cl. 206-65.00e.

Wood, Prentice J., to Mead Corporation, The. Carrier for flanged articles. 3,722,945, 3-27-73, Cl. 294-87.200.

Wood, Prentice J., to Mead Corporation, The. Article carrier and method of interlocking a pair of panels in face contacting relation. 3,750,363, 8-7-73, Cl. 53-32.000.

Wood, Prentice J., to Mead Corporation, The. Article carrier. 3,754,680, 8-28-73, Cl. 220-113.000.

Wood Processes, Oregon Ltd.: *See—*





Wheeler, Robert G., 3,748,222.

Wood, Remsen V. Extreme pressure platen-and-roller die-press for precise working of web structures. 3,730,088, 5-1-73, Cl. 101-269.000.

Wood, Rex C.: *See—*
United States of America, National Aeronautics and Space Administration with respect to an invention of, 3,741,001.

Wood, Richard A. Apparatus for sorting products. 3,776,381, 12-4-73, Cl. 209-111.600.

Wood, Richard P.: *See—*
Davis, Carlton J., Sr.; Wood, Richard P.; and Miller, Everett R., 3,734,814.

Wood, Robert J. Door check and door stop combination. 3,708,825, 1-9-73, Cl. 16-49.000.

Wood, Robert Spurgeon: *See—*
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Wood, Russell E.: *See—*
Farney, Samuel D.; and Wood, Russell E., 3,743,010.

Wood, Russell E., to Carrier Corporation. Control for air conditioning apparatus. 3,709,769, 1-9-73, Cl. 161-22.000.

Wood, Russell E., to Carrier Corporation. Control for air conditioning apparatus. 3,777,803, 12-11-73, Cl. 165-2.000.

Wood, Sidney B., Jr., to Tennis Services, Inc. Playing court surface and method of constructing same. 3,771,787, 11-13-73, Cl. 273-29.00r.

Wood, Thomas E. Pack frame. 3,734,366, 5-22-73, Cl. 224-25.00a.

Wood, Thomas F.; and Heilweil, Emanual, to Givaudan Corporation. Novel synthetic musk odorants. 3,769,348, 10-30-73, Cl. 260-590.000.

Wood, Walter B.; Shuler, Bernard R.; Bromm, Charles A.; and Welch, Wilson A., to American Air Filter Company, Inc. Light and filter assembly for ceiling structure. 3,715,578, 2-6-73, Cl. 240-9.00r.

Wood, Walter Bruce. Filtered air breathing zone. 3,724,172, 4-3-73, Cl. 55-97.000.

Wood, Warren A.; and Fechner, John T., to Pittsburgh Forests, Inc. Feeder for wood flaking or chipping machine. 3,736,967, 6-5-73, Cl. 144-172.000.

Wood, Wilbur R., to Westinghouse Electric Corporation. Optical straight line detector. 3,740,153, 6-19-73, Cl. 356-170.000.

Wood, Wilbur R., to Westinghouse Electric Corporation. Optical image processor. 3,743,422, 7-3-73, Cl. 356-71.000.

Wood, William: *See—*
Williamson, David T. N.; Moffat, James; and Wood, William, 3,709,384.

Wood, William; Griffiths, Mary; and Sellers, John, to French, Thomas, & Sons Limited. Curtain heading tape. 3,741,259, 6-26-73, Cl. 139-387.000.

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Wood, William Robert; and Burrough, Donald E., to Deere & Company. Header having harvester reel with tangle-preventing filler plates thereon. 3,733,796, 5-22-73, Cl. 56-220.000.

Woodall, Alan; and Honey, Chesleigh Brian, to Chapman, Clarke and Thompson, John, Limited. Friction welding or like machines. 3,717,295, 2-20-73, Cl. 228-2.000.

Woodall, Hubert C., Jr.: *See—*
Nisbet, John L.; and Woodall, Hubert C., Jr., 3,764,448.

Woodall Industries Inc.: *See—*
Shuman, Robert A., 3,752,102.

Woodall, Jerry M.: *See—*
Dumke, William P.; Rideout, Vincent L.; and Woodall, Jerry M., 3,780,359.
Rupprecht, Hans S.; and Woodall, Jerry M., 3,773,571.

Woodbridge, David D.; and Garrett, William R., to National Shellfish Processors, Inc. Artificial clutch for growing oysters. 3,738,318, 6-12-73, Cl. 119-4.000.

Woodbridge, Richard G., III. Manufacture of edible protein from marine animals by the use of ammonia. 3,754,927, 8-28-73, Cl. 99-18.000.

Woodbury, James R., to Standard Research Institute. Method and apparatus for pulse width control for brushless DC motors. 3,764,869, 10-9-73, Cl. 318-138.000.

Woodco Ltd.: *See—*
Wood, Gordon G.; and McCabe, James L., 3,778,946.

Woodcock, Richard F.: *See—*
Snitzer, Elias; Robinson, Charles C.; and Woodcock, Richard F., 3,711,787.

Woodcock, Richard F., to American Optical Corporation. High efficiency erbium glass laser. 3,755,757, 8-28-73, Cl. 331-94.500.

Woodcock, Sidney J., to General Electric Company. Steam reheater control for turbine power plant. 3,766,732, 10-23-73, Cl. 60-64.000.

Woodcock, Thomas A., to A-T-O Inc. Leg guard. 3,761,960, 10-2-73, Cl. 2-22.000.

Woodell, Rudolph: *See—*
Anderson, Ronald D.; and Woodell, Rudolph, 3,756,441.

Woodell, Rudolph, to Du Pont de Nemours, E. I., and Company. Hydrophilic textile products. 3,774,387, 11-27-73, Cl. 75-140.00r.

Wooden, John A., to Brookside Corporation. Plastic fan hub. 3,708,243, 1-2-73, Cl. 416-134.000.

Wooden, John A., to Brookside Corporation. Reinforced plastic fan hub. 3,709,633, 1-9-73, Cl. 416-134.000.

Wooden, John A., to Brookside Corporation. Flexible blade fan. 3,773,435, 11-20-73, Cl. 416-132.000.

Wooden, Robert P.; and Page, William G., to Pillsbury Company, The. Cleaning and sanitizing concentrate containing lemon-lime fragrance. 3,733,277, 5-15-73, Cl. 252-106.000.

Woodfill, Larry R., to Lee, Raymond, Organization, Inc., The. Nut harvesting apparatus. 3,748,838, 7-31-73, Cl. 56-328.000.

Woodford, Charles E.; and Powe, Wilbert C. Educational devices. 3,768,179, 10-30-73, Cl. 35-35.00d.

Woodford Manufacturing Company: *See—*
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Woodgate, Paul E., to Eastman Kodak Company. Preparation of dialkali dihydroxybenzene disulfonates. 3,772,379, 11-13-73, Cl. 260-512.00r.

Woodgate, Richard E., to Labatt Breweries of Canada Limited. Carrier for bottles and the like and divider structure therefor. 3,752,385, 8-14-73, Cl. 229-15.000.

Woodhall, Edwin S.: *See—*
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Woodham, George W.; and Stuart, James L., to Dart Industries, Inc. Apparatus for the continuous production of glass fiber reinforced thermoplastic. 3,712,776, 1-23-73, Cl. 425-202.000.

Woodhams, Raymond T., to Canadian Patents and Development Limited. Polymeric high performance composites. 3,764,456, 10-9-73, Cl. 161-171.000.

Woodhead, Daniel, Inc.: *See—*
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Woodhead, James Louis; Dell, Ronald Michael; Junkinson, Anthony Richard; and Wilkinson, Raymond Westrop, to United Kingdom Atomic Energy Authority. Preparation of mixed oxides. 3,725,298, 4-3-73, Cl. 252-317.000.

Woodhead, James Louis, to United Kingdom Atomic Energy Authority. Production of ceria. 3,761,571, 9-25-73, Cl. 423-263.000.

Woodhouse, Fred N.: *See—*
Johnson, Robert B.; and Woodhouse, Fred N., 3,743,398.

Woodie, Paul E.; and Edwards, James B., to American Totalisator Company, Inc. Ticket issuing machine. 3,757,685, 9-11-73, Cl. 101-60.000.

Woodie, Paul E., to American Totalisator Company, Inc. Selective punch. 3,780,939, 12-25-73, Cl. 234-115.000.

Woodie, Paul W.; and Low, Emery M., to American Totalisator Company, Inc. Ticket issuing machine with utter control. 3,774,530, 11-27-73, Cl. 101-66.000.

Woodier, George H., to Curtiss-Wright Corporation. Fluid metering apparatus. 3,715,177, 2-6-73, Cl. 418-171.000.

Woodier, James G., to Bell & Howell Company. Image display from continuously moving image carrier. 3,730,615, 5-1-73, Cl. 352-109.000.

Wooding, Patrick J., to Consarc Corporation. Electric furnace, particularly of the type using a dry crucible to melt highly reactive metals, and method. 3,728,100, 4-17-73, Cl. 75-10.000.

Woodland, Daniel, Inc.: *See—*
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Woodle, Robert A., to Texaco Inc. Means and method for controlling a solvent refining unit to provide optimum yields of refined oil and extract oil. 3,718,809, 2-27-72, Cl. 235-151.120.

Woodle, Robert A., to Texaco Inc. Method and apparatus for monitoring the molecular weight of hydrocarbon mixtures. 3,720,096, 3-13-73, Cl. 73-53.000.

Woodle, Robert A., to Texaco Inc. Production of lubricating oils. 3,725,245, 4-3-73, Cl. 208-86.000.

Woodle, Robert A., to Texaco Inc. Lubricating oil refining process. 3,746,635, 7-17-73, Cl. 208-36.000.

Woodle, Robert A., to Texaco Inc. Adsorption-desorption process for removing an unwanted component from a reaction charge mixture. 3,767,563, 10-23-73, Cl. 208-85.000.

Woodle, Robert A., to Texaco Inc. Lube oil manufacture. 3,779,896, 12-18-73, Cl. 208-86.000.

Woodley, Clifford E.: *See—*
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Woodley, Clifford E.; and Carter, Herbert S., said Carter assor. to said Woodley, Clifford E. Pallets. 3,722,430, 3-27-73, Cl. 108-58.000.

Woodley, Warren D.: *See—*
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Woodling, George V. Fluid valve means having feathering action

Woodling, George V. Fluid valve means having feathering action. 3,710,826, 116-73, Cl. 137-625.210.

Woodling, George V. Rotary valve component means. 3,715,175, 2-6-73, Cl. 418-61.000.

Woodling, George V. Independent control means for fluid pressure device. 3,716,311, 2-13-73, Cl. 418-61.000.

Woodling, George V. Fluid pressure device having outside-inside rotary valve means. 3,722,546, 3-27-73, Cl. 137-625.210.

Woodling, George V. Fluid seal means surrounding bearing means. 3,722,966, 3-27-73, Cl. 308-187.100.

Woodling, George V. Anti-friction orbital and rotary device. 3,723,032, 3-27-73, Cl. 418-61.000.

Woodling, George V. Rotary valve device having a plurality of controlled working passages. 3,742,979, 7-3-73, Cl. 137-625.20a.

Woodling, George V. Directly mounted rotary valve on an axial thrust bearing load shaft. 3,743,450, 7-3-73, Cl. 418-61.000.

Woodling, George V. Fluid pressure device including axially positionable shaft means and rotary valve means. 3,748,067, 7-24-73, Cl. 418-61.000.

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Woodman, Brian W.: *See—*
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Woodring, William B., to Olin Mathieson Chemical Corporation. Cartridge. 3,728,966, 4-24-73, Cl. 102-42.00c.

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Woodruff, George M., to General Foods Corporation. Method of producing perforated plastic film. 3,719,736, 3-6-73, Cl. 264-156.000.

Woodruff, George N., to TRW Inc. Low voltage spark drill. 3,708,022, 1-2-73, Cl. 175-16.000.

Woodruff, Howard W. Door blocking device. 3,731,341, 5-8-73, Cl. 16-82.000.

Woodruff, Oscar G. Attachment for tenderizing meat. 3,744,400, 7-10-73, Cl. 91-345.000.

Woodruff, Robert L.: *See—*
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Woodrum, Harold L.: *See—*
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Woods, David, to J.G. Furniture Company, Inc. Desk configuration having stationery organizer. 3,719,407, 3-6-73, Cl. 312-197.000.

Woods, David H.; and Thorne-Booth, George M. Vehicle travel speed control and monitoring method and apparatus. 3,727,046, 4-10-73, Cl. 246-182.00c.

Woods, David H., to Westinghouse Electric Corporation. Shift register. 3,743,858, 7-3-73, Cl. 307-221.00r.

Woods, David H., to Westinghouse Electric Corporation. Transfer gate. 3,748,497, 7-24-73, Cl. 307-255.000.

Woods, David H., to Westinghouse Electric Corporation. Vehicle control system, a method of and apparatus for providing an interlock control signal. 3,775,750, 11-27-73, Cl. 340-171.00r.

Woods, Donald C.: *See—*
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Woods, Edward G.; and West, Robert C., to Esso Production Research Company. Thermal process for recovering oil. 3,739,852, 6-19-73, Cl. 166-303.000.

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Woods Hole Oceanographic Institution: *See—*
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Woods, James E., to Litton Business Systems, Inc. Labeler. 3,769,139, 10-30-73, Cl. 156-358.000.

Woods, James Robert, Jr.; and White, Roy Matison, Jr., to Scitron Corporation. Suction curettage. 3,774,613, 11-27-73, Cl. 128-304.000.

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Woods, Lee O., to General Electric Company. Thermostatic switch. 3,753,195, 8-14-73, Cl. 337-347.000.

Woods, Marion D., to Stoody Company. System for producing valves as for internal-combustion engines. 3,743,815, 7-3-73, Cl. 219-76.000.

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Woods, Richard E.; and Hohman, William H., to Franklin Electric Co., Inc. Motor start winding switch controlled by phase of main winding current. 3,777,232, 12-4-73, Cl. 318-221.00e.

Woods, Ritchey Paul, Jr.: *See—*
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Woods, Robert E., Jr.: *See—*
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Woods, Robert L., to United States of America, Army. Fluidic fuel injection device having air modulation. 3,771,504, 11-13-73, Cl. 123-119.00r.

Woods, Roger M.: *See—*
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Woods, Warren W.; and Hunt, Mack W., to Continental Oil Company. Preparation of overbased nitrogen-containing ashless dispersions. 3,755,172, 8-28-73, Cl. 252-51.50a.

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Woods, William G.; Whiten, Joseph G.; and Nies, Nelson P., to United States Borax & Chemical Corporation. Halogenated polymeric compositions containing zinc borate. 3,718,615, 2-27-73, Cl. 260-28.000.

Woods, William G.; Hunter, Don L.; Stone, James D.; and Le Fevre, Cecil W., to United States Borax & Chemical Corporation. Trifluoromethyl-1,3-phenylenediamine compounds. 3,764,625, 10-9-73, Cl. 260-577.000.

Woods, William L., Jr.: *See—*
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Woodson, Charles S., to Youngstown Sheet and Tube Company, The. Crack-resistant pipe. 3,718,161, 2-27-73, Cl. 138-153.000.

Woodson, Edgar F. Obstetrical instrument. 3,776,240, 12-4-73, Cl. 128-361.000.

Woodson, Herbert Horace, to Massachusetts Institute of Technology. Eddy-current shield superconducting machine. 3,772,543, 11-13-73, Cl. 310-52.000.

Woodson, Kenneth W. Putty mixing container for caulking gun-type dispenser. 3,730,394, 5-1-73, Cl. 222-137.000.

Woodson, Leslie A.: *See—*
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Woodstream Corporation: *See—*
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Woodville, Mary C.: *See—*
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Woodward, Arthur S., to Mattel, Inc. Curve accessory usable with track system for toy wheeled vehicles. 3,708,116, 1-2-73, Cl. 238-10.00e.

Woodward, Clifford Stanley: *See—*
Denning, Ralph Murch; Wiltshire, Reginald Harold; and Woodward, Clifford Stanley, 3,729,934.





Woodward, Cyril H. T. Automatic sheet winding apparatus and method of winding a skid of sheet material. 3,720,407, 3-13-73, Cl. 271-18.00r.

Woodward, Elinor D.: *See—*
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Woodward, Ernest F. Stake pocket adapter. 3,764,177, 10-9-73, Cl. 296-43.000.

Woodward, Fred E.; Krasner, Dora A.; and Krefting, Sherman, to Diamond Shamrock Corporation. Polyurethane coating for moisture vapor barrier. 3,726,825, 4-10-73, Cl. 260-29.2tn.

Woodward, Frederick W., to Thornber, Donald and Bernic, Thornber B. Tent for rear-doored vehicle. 3,746,386, 7-17-73, Cl. 296-23.0mc.

Woodward Governor Company: *See—*
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Davis, Donald L., 3,751,993.
Witt, Ronald L., 3,772,884.

Woodward, James R., to Rohr Industries, Inc. Liquid interface diffusion bonded titanium. 3,768,985, 10-30-73, Cl. 29-191.000.

Woodward, James R., to Rohr Industries, Inc. Liquid interface diffusion method of bonding titanium and titanium alloy honeycomb sandwich panel structure. 3,769,101, 10-30-73, Cl. 148-127.000.

Woodward, John W.: *See—*
Czarnecki, Stephen J.; Evers, Harry G.; Kellogg, Frank; Newcum, William W.; Vogel, Richard F.; and Woodward, John W., 3,760,117.

Woodward, John W., to GTE Automatic Electric Laboratories, Incorporated. Called line status testing circuit. 3,770,898, 11-6-73, Cl. 179-18.0ab.

Woodward, John W., to GTE Automatic Electric Laboratories, Incorporated. Trunk selection scanning circuit. 3,781,485, 12-25-73, Cl. 179-18.0fg.

Woodward, Morton P.; deceased (by Woodward, Elinor D.; executrix), to Universal Instruments Corporation. Servo system with direct computer control. 3,739,158, 6-12-73, Cl. 235-151.110.

Woodward, Myrneth L., to General Motors Corporation. Motor vehicle automatic headlamp switching system. 3,775,639, 11-27-73, Cl. 315-82.000.

Woodward, Oakley McDonald, to RCA Corporation. $TM_{01}$ mode exciter and a multimode exciter using same. 3,715,688, 2-6-73, Cl. 333-1.000.

Woodward, Oakley McDonald, to United States of America, Navy, mesne. Compact waveguide-coax transition. 3,725,824, 4-3-73, Cl. 333-21.00r.

Woodward, Oakley McDonald, to RCA Corporation. Multifrequency antenna system including an isolation section open circuited at both ends. 3,735,413, 5-22-73, Cl. 343-730.000.

Woodward, Robert B.: *See—*
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Woodward, Robert Burns: *See—*
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Heusler, Karl; and Woodward, Robert Burns, 3,716,465.

Woodward, Robert Burns. Azetidino-thiazolidinemethane carboxylic acid and process for their manufacture. 3,708,476, 1-2-73, Cl. 260-243.00c.

Woodward, Robert Newell; and Sidebotham, Nelson Robert, to Eastman Kodak Company. Silver halide emulsions stabilized with manganous salts. 3,720,516, 3-13-73, Cl. 96-110.000.

Woodward, Roger V. Adjustable width folding door. 3,750,737, 8-7-73, Cl. 160-206.000.

Woodward, Stephen Guild; and Treschitta, John Phillip, to Bunker-Ramo Corporation, The. High density electrical connector. 3,745,509, 7-10-73, Cl. 339-14.00r.

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Woodworth, William; Moulton, Marc L.; and Whittington, James H., to United States of America, Navy. Automatic pulse level control. 3,764,923, 10-9-73, Cl. 328-175.000.

Woodworth, William H.: *See—*
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Woodworth, William H., to United States of America, Navy. Television camera. 3,714,498, 1-30-73, Cl. 315-19.000.

Woodworth, William H.; and Cunningham, Robert D., to United States of America, Navy. Method of aiming a television guided missile. 3,742,812, 7-3-73, Cl. 89-1.50e.

Woody, Albert L.: *See—*
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Woody, Bernard A.: *See—*
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Woodyard, John D.: *See—*
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Woofter, Cecil B., to Vernon Company, The. Self-locking caddy with unique suspension means. 3,744,623, 7-10-73, Cl. 206-19.50r.

Woog, Rudolf: *See—*
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Woolard, William J. Combination fireplace cover and article of furniture. 3,736,024, 5-29-73, Cl. 297-217.000.

Woolcock, Alan; McDougall, Ian Leitch; and Barber, Anthony Clifford, to Imperial Metal Industries (Kynoch) Limited. Superconducting composite. 3,760,092, 9-18-73, Cl. 174-126.0cs.

Woolcock, Geoffrey Dennis, to Evanwoods Limited. Bearings. 3,767,277, 10-23-73, Cl. 308-9.000.

Woolcombers Limited; a/t/a Westbrook Lanolin Company: *See—*
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Wooldridge, Kenneth Robert Harry; and Basil, Berkeley, to May & Baker Limited. Benzene derivatives. 3,726,919, 4-10-73, Cl. 260-562.00a.

Wooley, Lee A., to Scott & Fetzer Company, The. Sequential timer. 3,738,185, 6-12-73, Cl. 74-116.000.

Woolf, Cyril: *See—*
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Dear, Robert E. A.; and Woolf, Cyril, 3,770,838.
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Oxenrider, Bryce C.; Woolf, Cyril; Dear, Robert E. A.; and Beyleveld, Wilhelmus M., 3,752,840.
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Woolf, Cyril; Dear, Robert E. Z.; and Young, David E., to Allied Chemical Corporation. Perfluoroalkyl cyanates. 3,761,501, 9-25-73, Cl. 260-453.0al.

Woolf, Harold: *See—*
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Woolf, Philip L.: *See—*
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Woolfson, Martin G., to Westinghouse Electric Corporation. Method and system for centroidal TV tracking. 3,769,456, 10-30-73, Cl. 178-6.800.

Woolgar, Robert John: *See—*
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Woollacott, Derrick Sunnocks, to Colorapid Limited. Apparatus processing photographic material. 3,779,147, 12-18-73, Cl. 95-96.000.

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Woolley, Donald D., to Gillette Company, The. Continuous process of manufacturing polymeric composition writing points and devices. 3,778,495, 12-11-73, Cl. 264-177.00f.

Woolley, Edward R.: *See—*
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Woolley, Lee A., to Scott & Fetzer Company, The. Motor constructions including a sliding stop member. 3,748,508, 7-24-73, Cl. 310-41.000.

Woolley, Richard P., to Ball Brothers Research Corporation. Assembly for measuring the magnitude of unbalance in an object. 3,724,279, 4-3-73, Cl. 73-462.000.

Woolman, Myron. Classroom for paired learning. 3,778,911, 12-18-73, Cl. 35-60.000.

Woolridge, George, to National Distillers and Chemical Corporation. Adapter for coextrusion apparatus. 3,743,460, 7-3-73, Cl. 425-131.000.

Woolslayer, Homer J.; Woolslayer, Joseph R.; Jenkins, Cecil; and Campbell, Erwin A., to Moore, Lee C., Corporation. Method of handling drill pipe. 3,716,155, 2-13-73, Cl. 214-152.000.

Woolslayer, Joseph R.: *See—*
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Woolston, Lionel L.: *See—*
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Woonton, Kent; Short, Jeffrey R., III; and Roach, Kenneth N., to Short, J. R., Milling Company. Method for making foundry moulds. 3,739,834, 6-19-73, Cl. 164-18.000.

Woosley, Kenneth D.: *See—*
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Davis, Howard C.; Pritz, Howard B.; and Burton, Charles A., 3,715,174.
Roe, Elverton O.; and Moore, Charles Gregg, 3,751,748.
Sommer, Herbert J., 3,779,669.

Wooster, George Sidney; and Kirss, Voldemar, to Allied Chemical Corporation. Heat resistant urethane coatings. 3,748,315, 7-24-73, Cl. 260-75.0nt.

Wooten, George W.; Iltis, Rumult; and Johnson, Victor L., to Monsanto Research Corporation. Chemiluminescent method and apparatus. 3,749,929, 7-31-73, Cl. 250-369.000.

Wootten, William A. Interlocking seam structure. 3,779,448, 12-18-73, Cl. 229-48.00r.

Wopschall, Paul R. Indicating device. 3,760,766, 9-25-73, Cl. 116-135.000.

Worbis, Siegfried: *See—*
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Worcester, Ben C., Jr.; and Watson, Doma A., to Johnson & Johnson. Preformed cross-laid fabric. 3,773,606, 11-20-73, Cl. 161-82.000.

Worcester, Joseph A., to General Electric Company. Multiple spreadband tuning in a varactor tuned radio receiver. 3,715,671, 2-6-73, Cl. 325-468.000.

Worcester, Joseph A., to General Electric Company. Frequency switching circuitry for varactor tuned radio receivers. 3,750,030, 7-31-73, Cl. 325-422.000.

Worcester Valve Company, Limited, The: *See—*
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Worden, Donald A., to Marietta Scientific Controls, Inc. Power and speed control for double-acting cylinder-and-piston motor. 3,739,813, 6-19-73, Cl. 137-625.650.

Worden, Donald P., to Tenneco Inc. Method for determining formability of material. 3,757,567, 9-11-73, Cl. 73-81.000.

Worden, George M., Sr.: *See—*
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Worden, George M., Sr.; and Lane, Alexander M., to Wyssmont Company, Inc. Apparatus and methods for heat treating materials and incinerating vaporous off-products. 3,728,797, 4-24-73, Cl. 34-32.000.

Worden, Nelson B.: *See—*
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Worden, Robert A.: *See—*
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Worden, Robert F., to General Electric Company. Means and method for modifying the flesh-tone response of a color television receiver. 3,711,635, 1-16-73, Cl. 178-5.4he.

Worden, William W. Means and method of producing an expanded cereal product. 3,714,886, 2-6-73, Cl. 99-238.000.

Words on Wheels Limited: *See—*
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Wordsworth, Albert G.: *See—*
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Worick, Ralph E., Jr. Laboratory fume hood. 3,726,206, 4-10-73, Cl. 98-115.0lh.

Work, George A., to TRW Inc. Method and apparatus for calibrating a solar array. 3,708,669, 1-2-73, Cl. 250-205.000.

Work, John S., to American Pipeline Equipment Company. Internal pipe line-up clamp. 3,765,665, 10-16-73, Cl. 269-27.000.

Work, Josiah: *See—*
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Work, Peter Twatt, to Ceramic Engineering Limited. Pressure control apparatus for controlling the flow of viscous fluids. 3,721,262, 3-20-73, Cl. 137-488.000.

Work, William M.: *See—*
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Workings, John Louis, to Information Appliances Corporation. Multi-position thumbwheel switch assembly cylindrically arranged fixed contact rods. 3,772,485, 11-13-73, Cl. 200-11.0tw.

Workman, Clayton E., to General Mills, Inc. Fibrous products from thermoplastic polyamide polymers. 3,772,136, 11-13-73, Cl. 161-169.000.

Workman, David E., to Samsonite Corporation. Connector for tables. 3,741,130, 6-26-73, Cl. 108-64.000.

Workman, Harold W., to Iowa State University Research Foundation, Inc. Intravenous pressure monitor. 3,738,356, 6-12-73, Cl. 128-2.05d.

Workman, Larry D.: *See—*
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Workman, Michall K.: *See—*
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Workman, Robert L. Pressurized fluid applicator for sheathed cables and the like. 3,731,764, 5-8-73, Cl. 184-15.00r.

Workman, William, Jr., to Gardner-Denver Company. Automatic speed shift for power tool. 3,739,659, 6-19-73, Cl. 74-751.000.

Workman, William, Jr.; and Doig, George, to Gardner-Denver Company. Control system for balancing hoist. 3,758,079, 9-11-73, Cl. 254-168.000.

Works, George A.; Murray, John C.; Ostroff, Edward D.; and Freedman, Nathan, to Raytheon Company. Remotely powered transponder. 3,745,569, 7-10-73, Cl. 343-6.5ss.

Worland, Donovan, to Landor, Walter, Associates, mesne. Optical display system and method for creating a theatrical illusion. 3,776,621, 12-4-73, Cl. 352-85.000.

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World Patent Development Corporation: *See—*
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Worley, George W., to Traxel Manufacturing Company. Cycle saddle and method of forming same. 3,756,653, 9-4-73, Cl. 297-195.000.

Worley, James C.; and Price, Robert, to Sperry Rand Corporation. Surface wave bandpass filter with non-linear FM input and output transducers and design method therefor. 3,753,166, 8-14-73, Cl. 333-72.000.

Worley, Lauren D., to Coleman Company, Inc., The. Safety latch assembly for picnic coolers. 3,713,681, 1-30-73, Cl. 292-78.000.

Worley, Raymond Arnold. Wall construction device. 3,777,427, 12-11-73, Cl. 52-127.000.

Worley, Richard A. Filler for use between a bedspring and a separate mattress. 3,751,742, 8-14-73, Cl. 5-317.000.

Worlidge, Ronald Frederick. Liquid cleansing means. 3,767,049, 10-23-73, Cl. 210-108.000.

Worline, Paul W., to Acraloc Corporation. Vacuum nozzle. 3,722,558, 3-27-73, Cl. 141-65.000.

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Wormald, Colin Norman: *See—*
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Worner, Gunter, to Daimler-Benz Aktiengesellschaft. Blocking synchronization for change-speed transmissions of motor vehicles. 3,737,016, 6-5-73, Cl. 192-53.00f.

Worner, Gunter; and Schrape, Peter, to Daimler-Benz Aktiengesellschaft. Installation for engaging a reverse-speed gear wheel in motor vehicle change-speed transmissions. 3,745,847, 7-17-73, Cl. 74-339.000.

Worner, Gunter, to Daimler-Benz Aktiengesellschaft. Blocking synchronizing arrangement for motor vehicle change-speed gears. 3,779,352, 12-18-73, Cl. 192-53.00f.

Worner, Howard Knox; and Siddons, Ronald, to Conzinc Riotinto of Australia, Limited. Continuous production of liquid steel using arc furnaces. 3,752,663, 8-14-73, Cl. 75-12.000.

Worner, Otto, to Daimler-Benz Aktiengesellschaft. Method for fastening the blades of a rotor for hydrodynamic units. 3,708,846, 1-9-73, Cl. 29-156.8cf.

Worner, Otto; Brugger, Franz; and Weller, Erwin, to Daimler-Benz Aktiengesellschaft. Slip-ring arrangement especially for brake slippage control installations of motor vehicles. 3,719,916, 3-6-73, Cl. 339-3.00r.

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Worrall, Brian Stanley, to Expert Industrial Controls Limited. Indicator means for electromagnetic devices. 3,733,570, 5-15-73, Cl. 335-255.000.

Worrel, Calvin J., to Ethyl Corporation. Lubricant compositions. 3,725,277, 4-3-73, Cl. 252-51.50r.

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Worsham, Lester A. Spring-actuated spin casting rod. 3,754,346, 8-28-73, Cl. 43-19.000.

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Worson, Lee, to Edoco Technical Products, Inc. Concrete joint sealing means. 3,712,188, 1-23-73, Cl. 94-18.000.

Worster, Hans E.; and Pudek, Marian F., to MacMillan Bloedel, Limited. Two-stage sodium-oxygen pulping. 3,773,611, 11-20-73, Cl. 162-25.000.

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Worth, Joseph H.; Miller, Howard A.; and Glover, Clyde P., to Eastman Kodak Company. Photosensitive and thermosensitive elements and process for development. 3,748,137, 7-24-73, Cl. 96-67.000.

Worthen, John H., to Federal Products Corporation. Precision square. 3,716,920, 2-20-73, Cl. 33-174.00m.

Worthing Turbine International Inc.: *See—*
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Worthington, Carl A. Modular building structure. 3,724,142, 4-3-73, Cl. 52-73.000.

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Worthington, Harvey R., Jr., to Searle Medidata Inc. Projection apparatus for multiple-sector slide transparencies. 3,715,157, 2-6-73, Cl. 353-25.000.

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Worthington, Mark N. Direct reading comfort index thermometer. 3,771,364, 11-13-73, Cl. 73-336.000.

Worthington, Ralph Eric; Thompson, William Henry; Somers, Thomas Noel Enda; and Drechsel, Erhart K., said Worthington, Thompson and Somers assors. to said Fitzwilton, Limited and said Drechel assor. to said Pennzoil Company. Method of manufacture of potassum phosphate. 3,767,770, 10-23-73, Cl. 423-309.000.

Worthington, Robert D. Log splitter for use with vehicles having hydraulic pressure systems. 3,760,854, 9-25-73, Cl. 144-193.00a.

Worthington, Stanley W. Apparatus for controlling direction of movement of refuse body compacting and unloading blade. 3,734,316, 5-22-73, Cl. 214-82.000.

Worthington, Wayne H. Apparatus for controlling direction of movement of a cycling fluid motor. 3,742,971, 7-3-73, Cl. 137-106.000.

Worthington, William Douglas, to Ferranti Limited. Distance measuring system. 3,716,858, 2-13-73, Cl. 343-7.300.

Worthington-Cei Incorporated: *See—*
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Worthy, Gloria V. Exercising device for the lip and cheek area. 3,744,485, 7-10-73, Cl. 128-67.000.

Wortman, Donald E. Valveless fluid pump. 3,781,143, 12-25-73, Cl. 417-557.000.

Wortman, Donald L. Artificial heart utilizing blood pulsing fluid oscillators. 3,771,174, 11-13-73, Cl. 3-1.000.

Wortman, Stanley. Spectacle positioning and securing devices. 3,741,635, 6-26-73, Cl. 351-123.000.

Worwag, Eberhard, to Progress-Elektrogerate Mauz & Pfeiffer. Sweeping machine. 3,772,727, 11-20-73, Cl. 15-49.00c.

Wosaba, Charles L., II, to Procter & Gamble Company, The. Airfelt diaper with short fiber material in the pinning area. 3,757,785, 911-73, Cl. 128-287.000.

Woskow, Marvin Z.; and Christmann, Harold F., to Petro-Tex Chemical Corporation. Promoted oxidative dehydrogenation process. 3,751,512, 8-7-73, Cl. 260-680.00e.

Wossner, Felix, to Fichtel & Sachs AG. Apparatus for levelling a vehicle chassis. 3,709,517, 1-9-73, Cl. 280-104.000.

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Wowk, Anatole, to M & T Chemicals Inc. Halo(organo)tin thiocarboxylates. 3,758,341, 9-11-73, Cl. 260-429.700.

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Wowk, Anatolle, to M & T Chemicals Inc. Bis[hydrocarbyl(halo)(mercapto)tin] oxide. 3,758,537, 9-11-73, Cl. 260-429.700.

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Woythal, Robert T.; and Kirschnik, James L., to Kearney & Trecker Corporation. Adapter for drill speeder. 3,752,595, 8-14-73, Cl. 408-124.000.

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Wreen, George T., Jr.; Mann, Hugh W.; and Zeek, Elwood R., to Virginia Chemicals, Inc. Liquid trapping suction accumulator. 3,754,409, 8-28-73, Cl. 62-503.000.

Wreghitt, Kenneth W.; Pusfy, Peter Shirley; and Munro, Donald Gilbert, to Avco Corporation. Modular container. 3,749,273, 7-31-73, Cl. 220-1.500.

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Wren, John Pelham, to Plessey Handel und Investments A.G. Record players. 3,731,938, 5-8-73, Cl. 274-23.00r.

Wren, Ruth M. Seam presser. 3,742,882, 7-3-73, Cl. 112-217.000.

Wrench, Richard E.; and Smith, Benjamin F., Jr., to Texaco Inc. Hydrotreating-hydrocracking process for manufacturing gasoline range hydrocarbons. 3,779,897, 12-18-73, Cl. 208-89.000.

Wrenn, George T.; and Mann, H. William, to Virginia Chemicals Inc. Receiver drier housing for automobile air conditioning systems. 3,759,062, 9-18-73, Cl. 62-474.000.

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Wright, Allen C., to Haws Drinking Fountain Company. Operating handle connector arrangement for drinking fountain freeze-proof valve. 3,739,805, 6-19-73, Cl. 137-294.000.

Wright, Allen C., to Haws Drinking Faucet Company. Valve assembly for water fountains and the like. 3,753,448, 8-21-73, Cl. 137-609.000.

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Wright, Carl Macey, to RCA Corporation. Carry generation means for multiple character adder. 3,757,098, 9-4-73, Cl. 235-175.000.

Wright, Carl Macey, to RCA Corporation. Keyboard encoder. 3,778,815, 12-11-73, Cl. 340-365.00s.

Wright, Charles B., Sr., to Penn Corporation. Display candle. 3,744,957, 7-10-73, Cl. 431-126.000.

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Wright, Clarence. Vehicle cooling system. 3,770,049, 11-6-73, Cl. 165-41.000.

Wright, Colin S.; Fogelsong, Robert L.; Johnson, Jerold W.; and Jouhal, Teja S., to American Hoist & Derrick Company. Method of compressing paper products. 3,762,309, 10-2-73, Cl. 100-3.000.

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Wright, Donald F., to Westinghouse Canada Limited. Method of monitoring airport runway end identification lamps. 3,710,157, 1-9-73, Cl. 307-131.000.

Wright, Donald J.; and Fisher, Gerald E. Offset signal correction system. 3,735,273, 5-22-73, Cl. 328-163.000.

Wright, Donald James; Boote, James; and Joyce, Burton, to Wright Engineering Company (Nottingham) Limited. Sound reducing device for use with bar fed machinery. 3,752,259, 8-14-73, Cl. 181-33.00m.

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Wright, Donald R., to Dow Chemical Company, The. Extrusion apparatus. 3,764,043, 10-9-73, Cl. 222-55.000.

Wright, Earl R. Adjustable easel construction. 3,759,482, 9-18-73, Cl. 248-449.000.

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Wright, Edward S.; Angstadt, John W.; and Garrow, Gerald L., to Blaw-Knox Company. Apparatus for deep-fat cooking. 3,754,468, 8-28-73, Cl. 99-403.000.

Wright, Edward S.; Angstadt, John W.; and Krolopp, Otto C., to Blaw-Knox Food and Chemical Equipment, Inc. Adjustable tensioning device for circular screens. 3,776,382, 12-4-73, Cl. 209-403.000.

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Wright, Felix William, to A.P.V. Company Limited, The. Plate heat exchangers. 3,760,873, 9-25-73, Cl. 165-166.000.

Wright, Floyd A.; and Hargest, Thomas S. Pressure regulating controller. 3,731,680, 5-8-73, Cl. 128-214.00e.

Wright, Frank, to Jaguar Cars Limited. Electrical wiring system. 3,745,419, 7-10-73, Cl. 317-137.000.

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Wright, George C.; Kozel, Charles; Baraglis, Nathan; and Marciszewski, Ed, to Methode Manufacturing Corporation. Environmentally controlled video tube assembly. 3,748,521, 7-24-73, Cl. 313-325.000.

Wright, George Carlin; and Yu, Chia Nien, to Morton-Norwich Products, Inc. 3-Substituted-as-triazino (5,6-c) quinolines. 3,721,670, 3-20-73, Cl. 260-248.0as.

Wright, George H.; and Phelan, Charles S., to Shur-Lok Corporation. Sandwich panel insert and installation holder assembly and method of handling. 3,722,671, 3-27-73, Cl. 206-65.00k.

Wright, George W., to Crown Cork & Seal Company, Inc. Apparatus for stripping container bodies from metal working punches. 3,771,344, 11-13-73, Cl. 72-345.000.

Wright, Gerald D.; and Arendts John P., to Kelco Company. Process for production of alginates. 3,773,753, 11-20-73, Cl. 260-209.600.

Wright, Graham Lennox; and Ward, George Richard. Web tension devices. 3,763,701, 10-9-73, Cl. 73-144.000.

Wright, Harold Austin, to Sinclair-Koppers Company. Suspension polymerization of vinyl aromatic monomers in the presence of unsaturated carboxylic acid. 3,755,282, 8-28-73, Cl. 260-93.50w.

Wright, Harry Gilbert; and Dischert, Robert Adams, to RCA Corporation. Shuttering apparatus for television cameras. 3,715,486, 2-6-73, Cl. 178-7.200.

Wright, Harry Walter. Back support. 3,720,965, 3-20-73, Cl. 5-327.00b.

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Wright, Herschel E., to Beckman Instruments, Inc. Centrifuge rotor with removable tunnion pins. 3,722,791, 3-27-73, Cl. 233-26.000.

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Wright, Hershel Earl. Method and device for producing foam. 3,709,437, 1-9-73, Cl. 239-343.000.

Wright, Howard N., Jr.; and Hagemeyer, Hugh J., Jr., to Eastman Kodak Company. Process for producing mixed esters from aldehydes. 3,714,236, 1-30-73, Cl. 260-494.000.

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Wright, James A., to Emerson Electric Co. Ignition and control system for gas burners. 3,776,684, 12-4-73, Cl. 431-66.000.

Wright, James A.; and Forrest, Robert L., to Emerson Electric Co. Ignition and control systems for gas burners. 3,778,218, 12-11-73, Cl. 431-67.000.

Wright, James C.; and Nemfth, Petfr, to Cutler-Hammer, Inc. Method and apparatus for inserting a three-sided wrap. 3,716,960, 2-20-73, Cl. 53-3.000.

Wright, James F., to Stucki, A., Company. Railway bogie spring group snubber assembly. 3,772,995, 11-20-73, Cl. 105-197.0db.

Wright, Jerry L. Detasseling device. 3,724,184, 4-3-73, Cl. 56-51.000.

Wright, John B., to Upjohn Company, The. 4H-(1) Benzothieno(3,2-beta)pyran-4-one-2-carboxylic acids and related compounds. 3,772,336, 11-13-73, Cl. 260-330.500.

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Wright, Kenneth F. A., to Exceltronic Industries, Ltd. Dishwashing machine. 3,724,636, 4-3-73, Cl. 198-19.000.

Wright, Kenneth L., to Security Patent Anchor Company Limited, The. Anchors for marine use. 3,716,012, 2-13-73, Cl. 114-207.000.

Wright, Kenneth O. Method of teaching use of drinking straw. 3,773,256, 11-20-73, Cl. 239-1.000.

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Wright, Leslie J.; and Ford, Reginald G., to Cities Service Oil Company. Wellbore instrument sealing apparatus. 3,731,939, 5-8-73, Cl. 277-34.000.

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Wright, Maurice James, to Lucas, Joseph, (Industries) Limited. Instruments for checking the operation of earth leakige circuit breakers. 3,745,453, 7-10-73, Cl. 324-51.000.

Wright, Maurice James, to Lucas, Joseph, (Industries) Limited. Electrical systems for road vehicles. 3,746,962, 7-17-73, Cl. 320-61.000.

Wright, Nelpher. Shower curtain support. 3,766,572, 10-23-73, Cl. 4-149.000.

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Wright, Orval George, to Wright Aluminum Limited. Snow vehicle attachment. 3,736,005, 5-29-73, Cl. 280-150.00c.

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Wright, Richard O., to Wright, Juanell L. Guitar body. 3,771,408, 11-13-73, Cl. 84-291.000.

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Wright, Robert C., Jr. Tornado alarm. 3,717,861, 2-20-73, Cl. 340-236.000.

Wright, Robert C., Jr. Superconductive switch apparatus. 3,732,438, 5-8-73, Cl. 307-245.000.

Wright, Robert J.; Chapin, John S.; Mah, George; and Karstendiek, Claude A., to Dow Chemical Company, The. Sputter deposition of refractory carbide on metal working tools. 3,709,809, 1-9-73, Cl. 204-192.000.

Wright, Robert J., to Research Laboratories of Australia Pty. Limited. Method of and means for controlling corona emission. 3,711,710, 1-16-73, Cl. 250-49.5gc.

Wright, Robert L. Packaging for dispensing material. 3,729,156, 4-24-73, Cl. 244-136.000.

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Wright, Roy. Bean vine cutter. 3,717,984, 2-27-73, Cl. 56-229.000.

Wright, Roy F., to Phillips Petroleum Company. Plasticized lactone polymer composition. 3,730,934, 5-1-73, Cl. 260-31.600.

Wright, Roy L. Vertically adjustable shower head. 3,737,107, 6-5-73, Cl. 239-588.000.

Wright, Sam W., to Firestone Tire & Rubber Company, The. Process of making foam rubber, and the foam rubber thus produced. 3,719,614, 3-6-73, Cl. 260-2.501.

Wright, Theron E., to Raven Industries, Inc. Heavy load lifting balloon. 3,773,279, 11-20-73, Cl. 244-31.000.

Wright, Thomas A., to Hi-Ram, Inc. Automatic seat latch unlocking apparatus and circuit therefor. 3,761,730, 9-25-73, Cl. 307-10.00r.

Wright, Thomas B., to TRW Inc., mesne. Self-locking nut. 3,729,757, 5-1-73, Cl. 10-86.00a.

Wright, Thomas P.; and Rafferty, John W., to Wright, J. A., & Company. Tarnish preventive composition. 3,758,315, 9-11-73, Cl. 106-8.000.

Wright, Wallace, to Rohr Industries, Inc. Thrust reversing apparatus. 3,764,096, 10-9-73, Cl. 244-110.00b.

Wright, William; and Mathewson, Myron, to Carrier Corporation. Tube cutting read structure. 3,739,666, 6-19-73, Cl. 82-59.000.

Wright, William Blythe, Jr., to American Cyanamid Company. N-(aminoalkyl) thienyl 3,2-beta thiophene-2-carboxamides and methods of preparation. 3,733,322, 5-15-73, Cl. 260-247.100.

Wright, William Blythe, Jr.; and Brabander, Herbert Joseph, to American Cyanamid Company. N-[2-(4 Phenyl-1-piperazinyl)alkyl]benzo [b]thiophene or benzofuran 2-carboxamides. 3,734,915, 5-22-73, Cl. 260-268.0ft.

Wright, William Blythe, Jr.; and Brabander, Herbert Joseph, to American Cyanamid Company. N-(tert-amino alkyl)-2-indenecarboxamides and methods of preparing the same. 3,734,916, 5-22-73, Cl. 260-268.0bc.

Wright, William Blythe, Jr.; and Brabander, Herbert Joseph, to American Cyanamid Company. N-(morpholino alkyl)-2-indenecarboxamides and methods of preparing the same. 3,746,708, 7-17-73, Cl. 260-247.20a.

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Wright, William E., to General Electric Company. Apparatus for producing radiographs of curved planes in an object. 3,743,832, 7-3-73, Cl. 250-61.500.

Wright, William H., to Zumbiel, C. W., Company, The. Beverage bottle carrier. 3,722,738, 3-27-73, Cl. 220-113.000.

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Wyant, Gerald Willis. Cabinet for selectively dispensing different types of paper towels. 3,713,561, 1-30-73, Cl. 221-44.000.
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Wyatt, Gerald A.; and Anderson, Gail A., to Minnesota Mining and Manufacturing Company. Electrical component. 3,723,948, 3-27-73, Cl. 339-99.00r.
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Wyatt, Kenneth L., to Western Electric Company, Incorporated. Method and apparatus for conveying paramagnetic elongated articles. 3,742,678, 7-3-73, Cl. 53-236.000.
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Wyeth, Nathanial Convers; Roseveare, Ronald Newman; and Carmichael, Keith Stewart, to Du Pont de Nemours, E. I., and Company. Noneverting bottom for thermoplastic bottles. 3,718,229, 2-27-73, Cl. 215-1.00c.
Wyeth, Nathaniel Convers; and Roseveare, Ronald Newman, to Du Pont de Nemours, E. I., and Company. Biaxially oriented poly(ethylene terephthalate) bottle. 3,733,309, 5-15-73, Cl. 260-75.00t.
Wyeth, Nathaniel Convers; and Roseveare, Ronald Newman, to Du Pont de Nemours, E. I., and Company. Apparatus for preparing a biaxially oriented thermoplastic article. 3,778,214, 12-11-73, Cl. 425-326.000.
Wyeth, William Albert: *See—*
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Wygasch, Ewald. Method of drying and demercurizing hydrogen. 3,736,724, 6-5-73, Cl. 55-29.000.
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Wykes, Robert D., to Morgan Construction Company. Roll passes for rolling a bar of continuously cast non-ferrous metal and the
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Wyland, Roy Bruce, 1/2 to Kuhl, Henry Y. and 1/2 to Kuhl, Paul R., Sr. Carton closing machine. 3,728,842, 4-24-73, Cl. 53-376.000.

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Wylie, Richard D.; and Morrison, Bobby, to Deering Milliken Research Corporation. Coin machine. 3,717,940, 2-27-73, Cl. 34-236.000.

Wylie, Roger. Three-phase organics separation process. 3,758,601, 9-11-73, Cl. 260-674.00a.

Wyman, Dennis G. Electric power cord and method of making. 3,708,608, 1-2-73, Cl. 174-70.00r.

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Wyman, Lewis C.: *See—*
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Wyman, Russell A., to Canadian Patents and Development Limited. Concentration of spodumene using flotation. 3,710,934, 1-16-73, Cl. 209-5.000.

Wymore, Charles E.; and Dahlberg, Clayton P., to Burroughs Corporation. Addressing system responsive to a transfer vector for accessing a memory. 3,781,812, 12-25-73, Cl. 340-172.500.

Wynants, Marcelle. Form of brassiere. 3,749,102, 7-31-73, Cl. 128-505.000.

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Wynkoop, Raymond; and Kohn, Edward M., to Sun Research and Development Co. Process for making electrode grade coke. 3,781,198, 12-25-73, Cl. 208-86.000.

Wynn, John F., Jr., to United States of America, Navy. Submarine towing system. 3,722,452, 3-27-73, Cl. 114-235.00b.

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Randall, David I.; and Wynn, Robert W., 3,713,805.

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Wysocki, Joseph J.: *See—*
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Wysocki, Joseph J.; Adams, James E.; Becker, James H.; Madrid, Robert W.; and Haas, Werner E., to Xerox Corporation. Imaging system in which either a liquid crystalline material or an electrode is shaped in an image configuration. 3,718,380, 2-27-73, Cl. 30-160.0lc.

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Yahle, Daniel I., to United States of America. Reusable pressure release valve. 3,780,759, 12-25-73, Cl. 137-467.000.

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Yakata, Akio; and Kinoshita, Tsuneo, to Tokyo Shibaura Electric Co., Ltd. Memory protective systems for computers. 3,781,811, 12-25-73, Cl. 340-172.500.

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Yakovleva, Antonina Karpovna: *See—*
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Yakubowski, Carl, to International Business Machines Corporation. Linear carrier sender and receiver. 3,730,595, 5-1-73, Cl. 302-2.00r.

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Yale, Harry L.; and Sowinski, Francis A., to Squibb, E. R., & Sons, Inc. Derivatives of 5,11-dihydrodebenzoxazepones and process therefor. 3,714,192, 1-30-73, Cl. 260-333.000.

Yale, Harry L., to Squibb, E. R., & Sons, Inc. Antimicrobial isocyanides. 3,714,221, 1-30-73, Cl. 260-465.00f.

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Yale, Harry Louis; and Petigara, Ramesh B., to Squibb, E. R., & Sons, Inc. 5,11-Dihydrodibenzoxa (or thia) zepine derivatives. 3,714,201, 1-30-73, Cl. 260-333.000.

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Yale, Harry Louis; and Petigara, Ramesh B., to Squibb, E. R., & Sons, Inc. Quinobenzoxa(or thia)zepin-3-ones. 3,759,923, 9-18-73, Cl. 260-283.00s.

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Yamada, Hayao, to Nittan Company, Limited. Sound generator. 3,721,840, 3-20-73, Cl. 310-9.100.

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Yamada, Hisafumi: *See*—
Sahara, Hiroshi; Nagai, Tamiji; and Yamada, Hisafumi, 3,772,583.

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Yano, Seisaku; Hosono, Shinichi; Kida, Kazuyoshi; and Yamazaki, Sigez, to Teijin Limited. Adjustment of filling tension in fluid jet loom and apparatus thereof. 3,744,533, 7-10-73, Cl. 139-194.000.
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Yazawa, Kazuhiko, to Hitachi, Ltd. Solid state oscillator-detector device of electromagnetic waves. 3,763,407, 10-2-73, Cl. 317-235.000.
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Yazawa, Masahide; Tani, Haruhisa; Matsumoti, Masaki; and Sasaki, Yasuo, to Polymer Processing Research Institute Ltd. Method for developing and converging a band of fibers or threads. 3,713,190, 1-30-73, Cl. 19-65.00t.
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Yazawa, Masahide, to Polymer Processing Research Institute, Ltd. Process for producing crimped fibers by continuous wet heat setting and apparatus therefor. 3,763,527, 10-9-73, Cl. 28-1.600.
Yazawa, Yasaburo; and Kawazoko, Yoshiako, to Nippon Kokan Kabushiki Kaisha. Apparatus for continuous cold rolling. 3,721,114, 3-20-73, Cl. 72-231.000.
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Yeager, Weldon O. Safety garment structure. 3,777,309, 12-11-73, Cl. 2-2.500.
Yeagle, Richard J., to Skuttle Manufacturing Company. Humidifiers. 3,774,588, 11-27-73, Cl. 126-113.000.
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Yellin, Bernard. Cage for pets and the like. 3,742,909, 7-3-73, Cl. 119-17.000.
Yellin, Haim; Konifino, Eliezer; and Gan, Ramat, to Assia Chemical Laboratories Ltd. Process for the preparation of 4-chloro-N-furfuryl-5-sulfamoyl anthranilic acid. 3,780,067, 12-18-73, Cl. 260-347.002.
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Yim, Woongsoon Michael; and Yocom, Perry Niel, to RCA Corporation. Electroluminescent device comprising a transition metal oxide doped with a trivalent rare earth element. 3,728,594, 4-17-73, Cl. 317-235.00r.
Yimaz, Mahmut. Adjustable tool guide and support. 3,762,829, 10-2-73, Cl. 408-105.000.





Yindra, Leonard J.; and Klug, Joseph R., to American Hospital Supply Corporation. Power-operated pedestal table and safety clutch therefor. 3,707,930, 1-2-73, Cl. 108-147.000.
Ying, Sui-Chun: *See—*
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Yocum, Fred D. Molded loudspeaker diaphragm. 3,768,590, 10-30-73, Cl. 181-32.00r.
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Yoda, Naoya; Kurihara, Masaru; Dokoshi, Noriaki; Tanaka, Chiaki; and Eguchi, Masaomi, to Toray Industries, Inc. Method for producing a polyamideimide and product of said method. 3,716,519, 2-13-73, Cl. 260-47.0cb.
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Yokata, Tuneo, to Funai Electric Co., Ltd. Selective tape recorder for endless tape cartridges. 3,779,560, 12-18-73, Cl. 274-4.00f.
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Yokota, Hidekuni; and Yokota, Shingo. Device for balancing axial thrust on the impeller shaft of pumps. 3,746,461, 7-17-73, Cl. 415-104.000.
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Yokota, Noriyuki; Tokuda, Shingo; Ito, Yoshiro; and Takatomi, Hiroshi, to Osaka Soda Co., Ltd. Treatment process for removal of metals and treating agent therefor. 3,755,161, 8-28-73, Cl. 210-36.000.
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Yokotsuka, Tamotsu; Iwaasa, Takashi; and Fujii, Mitsuharu, to Kikkoman Shoyu Co., Ltd. Hydrolysis of glutamine within foods and beverages to glutamic acid. 3,717,470, 2-20-73, Cl. 99-16.000.
Yokotsuka, Tamotsu; Iwaasa, Takashi; and Fujii, Mitsuharu, to Kikkoman Shoyu Co., Ltd. Glutaminase Ga. 3,721,606, 3-20-73, Cl. 195-62.000.
Yokoyama, Eisuke, to Kawaguchiko Seimitsu Kabushiki Kaisha. Cam operated retarded timer switch assembly with dashpot type air timer unit. 3,737,596, 6-5-73, Cl. 200-34.000.





Yokoyama, Etsuzo; and Oono, Yasuya, 1/2 to Kabushiki Kaisha Yonemochi, Jutaro. Method of smelting high quality ferrosilicon.

Yokoyama, Etsuzo; and Oono, Yasuya, 1/2 to Kabushiki Kaisha T.I.C. and 1/2 to Hitachi, Ltd. Time-setting device. 3,729,601, 4-24-73, Cl. 200-38.00r.
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Yoshikawa, Minoru; and Ishii, Masaaki, to Canon Kabushiki Kaisha. Magnetic recording and reproducing device for use with an endless recording medium with means for indicating a recordable state within one cycle of the endless recording medium. 3,711,654, -16-73, Cl. 179-100.20s.
Yoshikawa, Nobuharu: *See—*
Fukukawa, Sadaomi; Shimomura, Takefumi; Ijichi, Ichiro; Yoshikawa, Nobuharu; and Murakami, Tomoyuki, 3,772,063.
Yoshikawa, Sadayoshi; and Kawamura, Hiroshi, to New Nippon Electric Company, Ltd. Circuits for centering pictures on television screens. 3,733,513, 5-15-73, Cl. 315-27.0td.
Yoshikawa, Sadayoshi; and Arita, Mitsuo, to New Nippon Electric Company, Ltd. Deflection and picture position adjusting apparatus. 3,760,221, 9-18-73, Cl. 315-27.0td.
Yoshikawa, Seiichi. Rivet head forming tool. 3,762,199, 10-2-73, Cl. 72-67.000.
Yoshikawa, Tadashi: *See—*
Sugawara, Naoyuki; Yamada, Junji; Yamate, Takeshi; and Yoshikawa, Tadashi, 3,771,623.
Yoshikawa, Tomizo. Brake for bicycles. 3,752,005, 8-14-73, Cl. 74-480.00r.
Yoshikawa, Yoshio; Kondo, Hiroshi; Sugio, Akitoshi; and Kato, Tomotake, to Mitsubishi Edogawa Kagaku Kabushiki Kaisha. Apparatus for treating a mixture. 3,772,799, 11-20-73, Cl. 34-92.000.
Yoshikazu, Sano: *See—*
Tomita, Tamaki; Kusakabe, Takesi; Kurimoto, Mikishi; Isuneo, Iwami; Keniti, Iwami; Nomura, Kenzi; and Yoshikazu, Sano, 3,775,837.
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Yoshimatsu, Akira: *See—*
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Numakura, Toshihiko; and Yoshimatsu, Morio, 3,730,983.
Yoshimatsu, Shigeki: *See—*
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Yoshimoto, Hiromu, to Daido Steel Co., Ltd. Covered type heat treatment combustion furnace. 3,733,174, 5-15-73, Cl. 432-199.000.
Yoshimoto, Hiroshi: *See—*
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Yoshimoto, Masasumi: *See—*
Nakajima, Tomio; Sugita, Sadao; Kishida, Yukichi; Yoshimoto, Masasumi; and Ishida, Noboru, 3,772,023.
Yoshimoto, Toshio; Fujimori, Makoto; Kaneko, Seiya; Takeda, Yukihisa; and Koyama, Haruo, to Bridgestone Tire Company Limited. Process for producing hydrogenated hydrocarbon polymers, oil-extended rubber compositions and process for producing them. 3,756,97, 9-4-73, Cl. 260-33.6aq.
Yoshimoto, Toshio; Imamura, Takaaki; and Tanaka, Kazuo. Rubbery compositions. 3,769,256, 10-30-73, Cl. 260-41.0sa.
Yoshimura, Chozo, to Okuno Chemical Industry Company Limited. Method for sealing anodized aluminum. 3,749,596, 7-31-73, Cl. 117-127.000.
Yoshimura, Hirofumi, to Kabushiki Kaisha Yashica. Camera shutter. 3,712,194, 1-23-73, Cl. 95-10.0ct.
Yoshimura, Hirofumi; Takahata, Hisatoshi; Furuhata, Akio; and Nishimura, Susumu, to Kabushiki Kaisha Yashica. Exposure time controls for cameras operating with flash illumination. 3,748,978, 7-31-73, Cl. 95-10.0ce.
Yoshimura, Ippei: *See—*
Yoshida, Ryonosuke; Yoshimura, Ippei; and Takehara, Masahiro, 3,758,525.
Yoshimura, Ippei; Fukue, Norihiko; Sakamoto, Hiroshi; Murofushi, Isashi; Hiyama, Takami; and Matsunaga, Takao, to Ajinomoto Co., Inc. Spiroacetal diamine-epoxide liquid as curing agent for epoxy resins. 3,773,790, 11-20-73, Cl. 260-340.700.
Yoshimura, Kazuo, to Tokyo Shibaura Electric Co., Ltd. Tape recorder-operating device with automatic exchange from rewind or quick feed to reproduction by sensing nonrecorded section. 3,735,054, 5-22-73, Cl. 179-100.20s.
Yoshimura, Kenji: *See—*
Kato, Toshio; and Yoshimura, Kenji, 3,769,321.
Yoshimura, Kenziro: *See—*
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Yoshimura, Kiyotaka; Asano, Shiro; Honda, Tadatoshi; and Tsuchiya, Ryoji, to Mitsui Toatsu Chemicals, Incorporated. Process for the regeneration of catalyst for hydration of nitrile compounds. 3,766,088, 10-16-73, Cl. 252-412.000.
Yoshimura, Noboru, to Aisin Seiki Kabushiki Kaisha. Door latch mechanism. 3,767,243, 10-23-73, Cl. 292-216.000.
Yoshimura, Shiegetake: *See—*
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Yoshimura, Shohei; Matsui, Takeshi; and Yamaguchi, Takeshi, to Toyo Boseki Kabushiki Kaisha. Paper-like polymeric films and production therefor. 3,773,608, 11-20-73, Cl. 161-168.000.
Yoshimura, Shoichiro: *See—*
Katagiri, Takeo; Hiromori, Kunio; Yoshimura, Shoichiro; Suda, Kazuyoshi; and Tanaka, Jinichi, 3,724,657.





Yoshimura, Shoichiro; Suda, Kazuyoshi; and Kagoshima, Saburo, to Nippon Electric Company, Limited. Open type stacking device. 3,729,191, 4-24-73, Cl. 271-86.000.
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Yoshimura, Susumu: *See—*
Sano, Reiji; Yoshimura, Susumu; Asakawa, Shirow; and Hasegawa, Katsue, 3,765,888.
Yoshimura, Susumu; and Sano, Reiji. Ionic conductive solid electrolyte. 3,708,424, 1-2-73, Cl. 252-62.200.
Yoshimura, Susumu; Asakawa, Shirow; and Hasegawa, Katsue, to Matsushita Electric Industrial Co., Ltd. Solid electrolyte. 3,709,820, 1-9-73, Cl. 252-62.200.
Yoshimura, Susumu. Organic solid electrolyte. 3,709,821, 1-9-73, Cl. 252-62.200.
Yoshimura, Tamotsu: *See—*
Kimura, Tomiaki; Ohmura, Yasuhiro; Yoshimura, Tamotsu; Kohyama, Katsuhisa; and Watanabe, Kenzo, 3,778,402.
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Yoshinaga, Eiichi: *See—*
Sugiyama, Hironari; Yoshinaga, Eiichi; and Itoh, Hideo, 3,721,736.
Yoshinaga, Eiichi; Takahashi, Yoshio; and Kado, Masaru, to Kumiai Chemical Industry Co., Ltd. Agricultural and horticultural granule formulation and methods for preparing the same and for using thereof. 3,708,573, 1-2-73, Cl. 424-23.000.
Yoshinaga, Fumihiro: *See—*
Kubota, Koji; Kamijo, Hirotaka; Onoda, Takiko; Yoshinaga, Fumihiro; and Okumura, Shinji, 3,723,249.
Okumura, Shinji; Yoshinaga, Fumihiro; Kubota, Koji; and Kamijo, Hirotaka, 3,716,453.
Yoshinaga, Fumihiro; Kobota, Koji; Fujita, Itsuo; and Okumura, Shinji, to Ajinomoto Co., Inc. Method of producing L-isoleucine by fermentation. 3,767,529, 10-23-73, Cl. 195-30.000.
Yoshinaga Prince Co., Ltd.: *See—*
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Yoshinaga, Sadao, to Yoshinaga Prince Co., Ltd. Filter apparatus for removing tar and other deleterious substances from tobacco smoke. 3,777,765, 12-11-73, Cl. 131-187.000.
Yoshinari, Kazuhiko: *See—*
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Yoshino, Takachika; Saito, Shigeru; and Sasaki, Yutaka, to Nitto Chemical Industry Co., Ltd. Catalyst composition for the oxidation and the oxidative dehydrogenation of olefins. 3,716,496, 2-13-73, Cl. 252-439.000.
Yoshino, Takeo: *See—*
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Yoshio Yazaki: *See—*
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Yoshioka, Kengo; Kishikawa, Naoto; and Takao, Hiroyuki, to Nippon Steel Corporation. Apparatus for changing the charge distribution in a vertical furnace. 3,732,994, 5-15-73, Cl. 214-36.000.
Yoshioka, Michio: *See—*
Nezu, Kazuo; Imabayashi, Ziro; Watanabe, Kazutaka; Iritani, Tadamitsu; Kataoka, Kouju; and Yoshioka, Michio, 3,718,762.
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Yoshioka, Yoshihide; Kobayashi, Shigekazu; and Mizobe, Akio, to Kuraray Co., Ltd. Method of manufacturing polyvinyl alcohol fiber of improved property. 3,776,994, 12-4-73, Cl. 264-170.000.
Yoshioka, Yoshio: *See—*
Imai, Kin-Ichi; Yoshioka, Yoshio; Toda, Jun; and Aoki, Hisashi, 3,719,660.
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Yoshioka, Yoshio, to Hitachi, Ltd. Circuit breaker. 3,721,786, 3-20-73, Cl. 200-148.00a.
Yoshioka, Yoshio; Hirasawa, Kunio; and Kashimura, Katsuichi, to Hitachi, Ltd. Fluid operated piston circuit breaker with floating position valve actuator. 3,740,506, 6-19-73, Cl. 200-82.00b.
Yoshioka, Yoshio, to Hitachi, Ltd. Gas-blast circuit breaker having a floating puffer piston driven by electromagnetic force. 3,745,281, 7-10-73, Cl. 200-148.00r.
Yoshioka, Yoshitomo. Apparatus and method for spraying or sprinkling granular material. 3,771,696, 11-13-73, Cl. 222-199.000.
Yoshioka, Yoshitomo. Device for recovering cooking oil separately from the heating furnace of a deep fryer. 3,776,125, 12-4-73, Cl. 99-403.000.
Yoshitake, Hiroshi: *See—*
Ito, Ken; Terao, Shinichiro; Sugahara, Hirotaka; Yamada, Takashi; Dohgane, Iwao; Chinuki, Takashi; Yoshitake, Hiroshi; and Fujino, Hidekazu, 3,723,580.
Ito, Ken; Kaminaka, Hiroshi; Kotera, Norio; Yamamoto, Shinji; Dogane, Iwao; Shigehiro, Kosuke; Kuruma, Hiroshi; Chinuki, Takashi; Yoshitake, Hiroshi; Tanimoto, Kenji; Hasegawa, Shinichi; and Kobayashi, Nobuki, 3,725,484.
Yoshitake, Norito; and Imazeki, Ryoji, to Fujitsu Limited. System for diagnosing an input-output control unit. 3,710,350, 1-9-73, Cl. 340-172.500.
Yoshitake, Tatumi; and Azetu, Masami, to Nishinippon Electric Wire & Cable Co., Ltd. Apparatus for winding up wire, strand, cable or the like. 3,753,342, 8-21-73, Cl. 57-71.000.
Yoshitake, Toshihiko: *See—*
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Shirano, Kenji; and Yoshitake, Toshihiko, 3,716,396.
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Yoshizawa, Atsushi; and Kitazawa, Takaji, to Nihon Rika Seishi Kabushiki Kaisha. Paste for gummed tape and process for producing the same from hydrolyzed starch. 3,770,672, 11-6-73, Cl. 260-17.4st.
Yoshizawa, Junji: *See—*
Hidaka, Hiroyoshi; Matsumoto, Ikuo; and Yoshizawa, Junji, 3,776,913.
Yoshizawa, Katuyuki, to Nisson Motor Company, Limited. Dry-disc friction clutch. 3,776,337, 12-4-73, Cl. 192-110.00b.
Yoshizawa, Keiichi: *See—*
Oishi, Masaaki; Takahashi, Yoshinaga; and Yoshizawa, Keiichi, 3,732,449.
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Yoshizawa, Masao; Mikami, Takeo; Kobayashi, Nobuo; and Iida, Akira, to Dainippon Ink and Chemicals, Incorporated and Dainippon Ink Institute of Chemical Research. Method of preparing phosphorous containing oligomers or polymers. 3,760,037, 9-18-73, Cl. 260931.000.
Yoshizawa, Michi: *See—*
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Homma, Noriyuki; Noro, Yoshihiko; and Yoshizawa, Shigeru, 3,732,551.
Young, Carter R.; and James, Henry J., to Otis Engineering Corporation. Method and apparatus for testing and sampling wells.





Young, Eric Whichell: *See—*

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Yoshizawa, Shigeru; Mikami, Itsuo; Kamoshita, Gen-Ichi; and Saito, Nobuo, to Hitachi, Ltd. Driving system in magnetic single wall domain device. 3,763,478, 10-2-73, Cl. 340-174.0tb.

Yosim, Samuel J.; Grantham, Le Roy F.; and Huber, Donald A., to Rockwell International Corporation. Non-polluting disposal of explosives and propellants. 3,778,320, 12-11-73, Cl. 149-109.000.

Yosimura, Tatuwo: *See—*
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Yosowitz, Edward E.; and McGhan, Donald K., to Heyer-Schulte Corporation. Cervical cuff. 3,741,216, 6-26-73, Cl. 128-346.000.

Yost, Albert J. Paint roller cleaning apparatus. 3,731,697, 5-8-73, Cl. 134-138.000.

Yost, Betty Jane, to Ledex, Inc. Spline for rotary actuator. 3,743,987, 7-3-73, Cl. 335-228.000.

Yost, Edward F., Jr., to Spectral Data Corporation. Method of multispectral photography and protector. 3,714,875, 2-6-73, Cl. 95-12.200.

Yost, Edward F., Jr., to Spectral Data Corporation. Spectral-zonal color reconnaissance system. 3,715,962, 2-13-73, Cl. 95-12.500.

Yost, Edward F., Jr., to Spectral Data Corporation. Multispectral camera. 3,720,146, 3-13-73, Cl. 95-12.200.

Yost, Edward F., Jr., to Spectral Data Corporation. Preregistered multispectral photographs. 3,739,700, 6-19-73, Cl. 95-12.200.

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Yost, Marshall E.: *See—*
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Yotsumoto, Kokichi, to Caterpillar Mitsubishi Ltd. Suction gas protective device in motor vehicle. 3,737,002, 6-5-73, Cl. 180-69.00r.

Yotsumoto, Takashi: *See—*
Miyazaki, Toshio; Omura, Etuzou; Katakabe, Kyoku; Yotsumoto, Takashi; Ikeda, Fumiaki; Takashima, Yoshiro; Makita, Minoru; Iwase, Kenji; Tsutsumiuti, Hideo; Sueyoshi, Hiromu; and Maesaka, Tomio, 3,765,818.

Yotsutani, Koichiro, to Sharp Kabushiki Kaisha. Control assembly for radio receiver. 3,763,711, 10-9-73, Cl. 74-10.270.

Yotsuyanagi, Keiichi: *See—*
Takamizawa, Hideo; and Yotsuyanagi, Keiichi, 3,763,045.

Yott, Edward W.: *See—*
Cataldo, Roy S.; and Yott, Edward W., 3,754,776.

Youden, David H.: *See—*
Hahn, Robert S.; Lindsay, Richard P.; Robillard, Edward G.; and Youden, David H., 3,745,710.

Youden, David H., to Heald Machine Company, The. Machine tool. 3,708,923, 1-9-73, Cl. 51-165.930.

Youdin, Myron; and Riech, Theobald, to New York University. Lamp for use in a high pressure environment. 3,754,133, 8-21-73, Cl. 240-11.20e.

Youdin, Myron; Barker, June N.; and Reich, Theobald, to New York University. Apparatus for determining local cerebral blood flow. 3,769,966, 11-6-73, Cl. 128-2.05f.

Youhanaian, Lawrence A., to Littelfuse, Inc. Audio signalling device. 3,760,411, 9-18-73, Cl. 340-388.000.

Youhne, Young: *See—*
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Youmans, Albert P.; and Kirton, Lionel A., to Signetics Corporation. Vacuum chuck assembly for semiconductor manufacture. 3,740,900, 6-26-73, Cl. 51-235.000.

Youmans, Albert P., to Signetics Corporation. Semiconductor structure, assembly and method. 3,761,782, 9-25-73, Cl. 317-234.00r.

Young, Alan M.; and Webb, Edwin Y., to Dicom Industries. Tape apparatus. 3,776,488, 12-4-73, Cl. 242-183.000.

Young, Alexander Irwin: *See—*
Messervey, William Albert; Wyeth, William Albert; and Young, Alexander Irwin, 3,774,092.

Young, Archie R., II; and Hunt, Herschel, to Thiokol Chemical Corporation. Process for preparing hydrazinium diperchlorate. 3,745,210, 7-10-73, Cl. 423-462.000.

Young, Arnold E., to Dow Chemical Company, The. Vapor phase transvinylation process. 3,755,387, 8-28-73, Cl. 260-410.910.

Young, Arthur W. Tillage implement. 3,770,066, 11-6-73, Cl. 172-194.000.

Young, Bill M.: *See—*
Carnes, James D.; Young, Bill M.; and Totty, Kenneth D., 3,776,311.

Young, Byron A., to Varian Associates. Method and apparatus for eliminating count scatter introduced by phase-locked loop frequency multipliers. 3,731,196, 5-1-73, Cl. 324-.50e.

Young, Carl T.: *See—*
Chai, Hi D.; Mills, Stephen H.; Pawletko, Joseph P.; Peters, Francis E.; and Young, Carl T., 3,745,495.

Young, Carter R.; and James, Henry J., to Otis Engineering Corporation. Method and apparatus for treating and preparing wells for production. 3,710,862, 1-16-73, Cl. 166-278.000.

Young, Cecil G.: *See—*
Anderson, Irvin O., Jr.; and Young, Cecil G., 3,768,734.

Young, Charles Gilbert, to American Optical Corporation. Rectangular disc laser. 3,715,682, 2-6-73, Cl. 331-94.50p.

Young, Charles J. Interlocking puzzle. 3,721,446, 3-20-73, Cl. 273-157.00r.

Young, Chauncey; and Watson, William H., to Rexham Corporation, mesne. Easy opening structure for drumhead carton. 3,741,463, 6-26-73, Cl. 229-17.00r.

Young, Chauncey, to Rexham Corporation. Seals for drumhead cartons. 3,746,243, 7-17-73, Cl. 229-37.00r.

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Young, Christopher John: *See—*
Desty, Denis Henry; and Young, Christopher John, 3,709,654.

Young, Dale L. Rivet setting apparatus with axially movable collar. 3,774,437, 11-27-73, Cl. 72-391.000.

Young, Dale Travis: *See—*
Rowe, Harrison Edward; and Young, Dale Travis, 3,723,921.

Young, David A.; and Brannock, Kent C., said Young assor. of 1/2 Eastman Kodak Company. Reduction of triphenylphosphine oxide with iron to triphenylphosphine. 3,780,111, 12-18-73, Cl. 260-606.50p.

Young, David E.: *See—*
Gould, Douglas E.; Young, David E.; Anderson, Lowell Ray; and Fox, William Burke, 3,755,405.
Kisling, James W., III; and Young, David E., 3,764,168.
Woolf, Cyril; Dear, Robert E. Z.; and Young, David E., 3,761,501.

Young, David E.; Kisling, James W., III; and Nutter, Benjamin P., to Schlumberger Technology Corporation. Methods for offshore drill stem testing. 3,741,305, 6-26-73, Cl. 166-250.000.

Young, David E., to Schlumberger Technology Corporation. Well packer apparatus. 3,749,166, 7-31-73, Cl. 166-123.000.

Young, David E., to Schlumberger Technology Corporation. Well tool anchoring apparatus. 3,749,167, 7-31-73, Cl. 166-217.000.

Young, David E., to Schlumberger Technology Corporation. Velocity sensitive safety valve mechanism. 3,765,443, 10-16-73, Cl. 137-460.000.

Young, David Edward: *See—*
Gould, Douglas Eugene; Anderson, Lowell Ray; Young, David Edward; and Fox, William Burke, 3,716,570.

Young, David Edward; Anderson, Lowell Ray; Gould, Douglas Eugene; and Fox, William Burke, to Allied Chemical Corporation. Novel fluoroalkyl chloroformates and a method for their preparation. 3,732,274, 5-8-73, Cl. 260-463.000.

Young, David W. Aircraft contained perspective radar display and guidance for approach and landing. 3,778,821, 12-11-73, Cl. 343-5.00r.

Young, Dean Arthur, to Union Oil Company of California. Hydrocarbon conversion method. 3,766,056, 10-16-73, Cl. 208-111.000.

Young, Don L., Jr.: *See—*
Sands, Ronald L.; and Young, Don L., Jr., 3,773,282.

Young, Donald C., to Union Oil Company of California. Fertilizer solutions containing soluble iron complexes. 3,753,675, 8-21-73, Cl. 71-1.000.

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Young, Donald G., to Dow Corning Corporation. Primer for adhesion of silicone rubber to metal. 3,772,122, 11-13-73, Cl. 156-329.000.

Young, Donald Marion, to Amsted Industries Incorporated. Bolster snubber wear plate. 3,712,247, 1-23-73, Cl. 105-197.0db.

Young, Einar T., to Sun Oil Company. Remotely operable register resetting mechanism. 3,720,370, 3-13-73, Cl. 235-94.00r.

Young, Einar T., to Sun Oil Company of Pennsylvania. Motor fuel dispensing apparatus. 3,727,796, 4-17-73, Cl. 222-26.000.

Young, Einar T., to Sun Oil Company. Gasoline dispensing nozzle. 3,734,339, 5-22-73, Cl. 222-56.000.

Young, Einar T., to Sun Oil Company of Pennsylvania. Operation of control valve in apparatus for dispensing blends of two liquids. 3,747,624, 7-24-73, Cl. 137-100.000.

Young, Elgin E., to PPG Industries, Inc. Method and apparatus for temperature control of a rotating metal oxide scraper element. 3,777,802, 12-11-73, Cl. 161-1.000.

Young, Elliott: *See—*
Austin, Peter William; Crabtree, Allen; Leng, John Lindley; Robert, Denis; Ridyard, Annesley; and Young, Elliott, 3,725,383.

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Young, Eric Whichell: *See—*
Dobinson, Bryan; Stark, Bernard Peter; and Young, Eric Whichell, 3,746,685.

Young, Ernest L. Mobile home holdown apparatus. 3,769,764, 11-6-73, Cl. 52-23.000.

Young, Evan Johnson; and Summers, Charles Gene, to Monsanto Company. Non-discoloring antidegradants. 3,761,525, 9-25-73, Cl. 260-619.00a.

Young, Francis Graham; and Wilson, Christopher Guy Scott, to National Research Development Corporation. Flow meter. 3,722,278, 3-27-73, Cl. 73-228.000.

Young, Frank, to United States of America, Navy. System for detecting dropout and noise characteristics of magnetic tape with switch means to select which characteristic to be selected. 3,755,731, 8-28-73, Cl. 328-34.0ta.

Young, Frank G.; and Pennington, Leroy R., to Union Carbide Corporation. Catalytic process for dehydration of alcohols. 3,780,127, 12-18-73, Cl. 260-682.000.

Young, Fred M., to Young Radiator Company. Heat exchanger. 3,710,853, 1-16-73, Cl. 165-81.000.

Young, Fred M., to Young Radiator Company. Heat exchanger header and core construction. 3,710,858, 1-16-73, Cl. 165-178.000.

Young, Fred M.; and Jones, Ronald E., to Young Radiator Company. Heat-exchange core assembly machine. 3,733,673, 5-22-73, Cl. 29-202.00r.

Young, Fred M., to Young Radiator Company. Method of making a radiator. 3,763,536, 10-9-73, Cl. 29-157.30b.

Young, Fred M., to Young Radiator Company. Reinforced sectional radiator. 3,776,301, 12-4-73, Cl. 165-67.000.

Young, Frederick J.; and Elco, Richard A., to Westinghouse Electric Corporation. Position sensor utilizing a primary and secondary shielded from one another by a ferromagnetic shield and a magnet whose position relative to the shield changes the shielding.3,777,255, 12-4-73, Cl. 324-34.0ps.

Young, Freeman M.; deceased (by Young, Mary M.; administratrix); and Lock, Michael V., said Lock assor. to Deering Milliken Research Corporation. Polymers of improved flame retardance. 3,775,165, 11-27-73, Cl. 117-136.000.

Young, Fu-Dah, to American Cyanamid Company. Predominantly aqueous substituted triamcinolone compositions. 3,780,176, 12-18-73, Cl. 424-239.000.

Young, Gar. Food packaging system and temperature-resistant insert thereof. 3,759,720, 9-18-73, Cl. 99-171.00h.

Young, George Harold Sidney, to United Kingdom of Great Britain and Northern Ireland, Minister of Aviation in Her Britannic Majesty's Government of the. Gas-producing compositions. 3,759,765, 9-18-73, Cl. 149-19.910.

Young, George M. Variable load auger apparatus. 3,722,715, 3-27-73, Cl. 214-17.00d.

Young, George W.: *See—*
Parrott, Orville C.; and Young, George W., 3,717,256.

Young, George W., to American Air Filter Company, Inc. Filter latch. 3,733,793, 5-22-73, Cl. 55-493.000.

Young, George W., to American Air Filter Company, Inc. Latch for a filter apparatus. 3,759,017, 9-18-73, Cl. 55-481.000.

Young, Gideon Maurice; Silman, Harold; and Hill, Eric John, to Vacu-Blast Limited. Apparatus for correcting misprinted matter on sheet material. 3,715,838, 2-13-73, Cl. 51-12.000.

Young, Harold K.; and Wald, Herbert, to Bethlehem Steel Corporation. Exhaust system for furnace retort. 3,721,429, 3-20-73, Cl. 261-123.000.

Young, Harold K.; Wald, Herbert; Blanch, William O.; and Meadows, Lacy C., to Bethlehem Steel Corporation. Method of applying particles to a surface. 3,741,789, 6-26-73, Cl. 117-16.000.

Young, Henry J. Auxiliary door lock. 3,739,608, 6-19-73, Cl. 70-209.000.

Young, Herbert D.: *See—*
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Young, Homer F.: *See—*
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Young, J. Beverly, Jr., to Honeywell Information Systems, Inc. Binary arithmetic using analog comparators. 3,728,531, 4-17-73, Cl. 235-175.000.

Young, Jack P., to United States of America, Atomic Energy Commission. Slotted probe for spectroscopic measurements. 3,733,130, 5-15-73, Cl. 356-74.000.

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Young, James Douglas, to Gearhart-Owen Industries, Inc. Apparatus for setting a large bore packer in a well. 3,776,307, 12-4-73, Cl. 166-125.000.

Young, James E., to Combustion Engineering, Inc. Hot top securing system. 3,722,848, 3-27-73, Cl. 249-197.000.

Young, James E. Imaging method and materials. 3,769,012, 10-30-73, Cl. 96-48.00r.

Young, James L.: *See—*
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Young, James M.; and Whitney, George O. Method of making brick panels. 3,755,521, 8-28-73, Cl. 264-69.000.

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Young, James W.; Cason, George A.; and Kunkel, Ernest O., to Dresser Industries, Inc. Hopper for an earth boring machine. 3,746,107, 7-17-73, Cl. 175-207.000.

Young, James W.; Cason, George A.; and Kunkel, Ernest O., to Dresser Industries, Inc. Reaction post for an earth boring machine. 3,750,763, 8-7-73, Cl. 173-34.000.

Young, James W.; Cason, George A.; and Kunkel, Ernest O., to Dresser Industries, Inc. Drill pipe positioner for earth boring machine. 3,750,769, 8-7-73, Cl. 175-85.000.

Young, James W.; and Arrington, Thomas L., to Dresser Industries, Inc. Earth boring machine with multi-motor drive. 3,766,995, 10-23-73, Cl. 175-53.000.

Young, Jeffrey W.: *See—*
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Young, Jesse R. Holder for a plurality of weapons. 3,731,818, 5-8-73, Cl. 211-64.000.

Young, Jesse R. Artist's aid apparatus. 3,749,472, 7-31-73, Cl. 350-121.000.

Young, Joe W.: *See—*
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Young, John Dixon: *See—*
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Young, John E., to Armco Steel Corporation. Sheet truck and the like. 3,730,547, 5-1-73, Cl. 280-116.000.

Young, John P.: *See—*
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Young, John P.; and Ng, Wahling H., to United States of America, Army. Method for retarding the decomposition of hydrazine rocket fuels in contact with maraging steels. 3,734,792, 5-22-73, Cl. 149-36.000.

Young, John R.; and McElwain, John C., to North American Rockwell Corporation. Shielded angular drive transmitting joint and shielded quickly detachable coupling thereof. 3,733,854, 5-22-73, Cl. 64-32.000.

Young, John S., to GTE Automatic Electric Laboratories, Incorporated. Ring trip circuit. 3,749,846, 7-31-73, Cl. 179-84.00r.

Young, John T.; Michels, Charles E.; Zimmermann, Thomas C.; and Hagemann, Gilbert M., to Reliance Electric Company, mesne. Reversible manual and automatic labeling machine. 3,733,236, 5-15-73, Cl. 156-360.000.

Young, Larry L. Animal carrying device for motorcycles. 3,765,375, 10-16-73, Cl. 119-96.000.

Young, Leroy P.: *See—*
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Young, Loring E.: *See—*
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Young, Milton R. Rock crusher and grinding mill. 3,761,025, 9-25-73, Cl. 241-107.000.

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Young, Raymond H., Jr., to Monsanto Company. Photoconductive coating compositions using a poly(vinyl-halbenzal) binder. 3,718,463, 2-27-73, Cl. 96-1.800.
Young, Raymond H., Jr., to Monsanto Company. Electrophotographic composition employing poly(vinyl-halobenzal) binder for organic photoconductors. 3,729,312, 4-24-73, Cl. 96-1.500.
Young, Richard K.; and Dockery, Calvin D., to Phillips Petroleum Company. Apparatus for surface treatment of interior or parison preform. 3,732,067, 5-8-73, Cl. 432-85.000.
Young, Richard W.: *See—*
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Young, Richard W., to Polaroid Corporation. Diffusion transfer image receiving element. 3,752,692, 8-14-73, Cl. 117-68.000.
Young, Richard W., to Polaroid Corporation. Silver transfer diffusion process. 3,765,889, 10-16-73, Cl. 96-29.00r.
Young, Robert B., to AAI Corporation. Projectile, cartridge, and method. 3,714,896, 2-6-73, Cl. 102-41.000.
Young, Robert B., to Pan-Nova, Inc. Change calculating coin-return system. 3,768,617, 10-30-73, Cl. 194-13.000.
Young, Robert D., to Canyon Research Corporation. Counting devices. 3,711,015, 1-16-73, Cl. 235-98.00r.
Young, Robert Eric. Temperature measurement. 3,707,873, 1-2-73, Cl. 73-362.00r.
Young, Robert Eric. Displacement transducers. 3,756,081, 9-4-73, Cl. 73-336.500.
Young, Robert F. Sport shoe with quickly removable spikes. 3,731,406, 5-8-73, Cl. 36-67.00d.
Young, Robert H.: *See—*
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Young, Robert William, to Autic Developments Limited. Liquid metering device with time delayed closure. 3,731,856, 5-8-73, Cl. 222-477.000.
Young, Roger G. Pipe mover. 3,756,426, 9-4-73, Cl. 214-1.00p.
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Young, S. N. Jack. Vehicle air deflector. 3,726,207, 4-10-73, Cl. 98-2.120.
Young, Sanford Tyler; and Hill, Kenneth Lee, to FMC Corporation. Substituted dioxanes as herbicides. 3,753,678, 8-21-73, Cl. 71-88.000.
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Young, William G.; and Horning, Frederick G., to Salem Tool Company, The. Auger section positioning hoist having pendent control means. 3,746,110, 7-17-73, Cl. 175-85.000.
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Youngblood, Douglas J., to Texaco Inc. Means and method for controlling independent operating parameters in a process system. 3,728,526, 4-17-73, Cl. 235-151.100.
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Youngblood, Douglas J.; Cooper, Thomas A.; and Colvert, James H., to Texaco Inc. Production of low pour fuel oils. 3,767,564, 10-23-73, Cl. 208-92.000.
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Yovanovich, Joseph T., 1/2 interest to Berger, Milton. Method and apparatus for coating cylindrical paper products with a plastic material. 3,755,046, 8-28-73, Cl. 156-429.000.
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Yukinaga, Hisajiro; Nan Jo, Yoshimasa; and Wada, Takashi. Composition for preventing russett on pome fruit comprising casein and hydrated silicone dioxide. 3,720,530, 3-13-73, Cl. 106-146.000.
Yukutomi, Masuo; Tanaka, Yoshitaka; Genda, Satosi; and Kitaura, Masaki, to Kyodo Chemical Co., Ltd. Process for preparing 2,4-dihydroxybenzophenone. 3,769,349, 10-30-73, Cl. 260-591.000.
Yulkowski, Leon, to Admiral Lock Company, mesne. Molded bearing for cast door levers. 3,762,753, 10-2-73, Cl. 292-349.000.
Yulkowski, Leon, to General Lock Company. Door lock. 3,769,822, 11-6-73, Cl. 70-107.000.
Yumde, Yasufumi; Iyama, Akiyoshi; Ito, Toshi; and Nakajima, Toshihiko, to Hitachi, Ltd. Color television system for converting sequential color television signals into simultaneous color television signals. 3,758,708, 9-11-73, Cl. 178-5.40c.
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Yungul, Sulhi H., to Chevron Research Company. Gravimetric determination of anomalies lateral to boreholes. 3,747,403, 7-24-73, Cl. 73-151.000.
Yurasko, George, Jr. Flame spraying. 3,743,533, 7-3-73, Cl. 117-105.200.
Yurick, John J., to International Rectifier Corporation. D-C voltage control with adjustable pulse width and repetition rate. 3,742,333, 6-26-73, Cl. 321-45.00c.





Yurimoto, Juntaro; Ito, Ikoh; Kiku, Takashi; Doi, Toshiki; and Zabrodsky, Zdenek; Chonek, Oldrich; Sebela, Jiri; and Mares,





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Yurugi, Shojiro; and Kikuchi, Shintaro, to Takeda Chemical Industries, Ltd. Pyrimidopyridazine derivatives. 3,764,598, 10-9-73, Cl. 260-246.00b.
Yuryan, Joseph B., to Lapointe Machine Tool Company, The. Attachment for broach sharpening machine. 3,762,106, 10-2-73, Cl. 51-241.000.
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Yuska, Leonard J., to United States of America, Navy. Universal extractor tool. 3,759,559, 9-18-73, Cl. 294-15.000.
Yussen, Albert, to Telecommunications Corporation of America. Apparatus for preventing the dialing of certain telephone numbers. 3,748,402, 7-24-73, Cl. 179-90.00d.
Yuta, Koichi, to Olympus Optical Co., Ltd. Precision copying lens. 3,744,880, 7-10-73, Cl. 350-214.000.
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Yzerman, Henk, to Bausch & Lomb Incorporated. Stereo-photogrammetric system. 3,765,094, 10-16-73, Cl. 33-1.00a.
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Zabolotny, Ernest R., to Carrier Corporation. Electrolytic cell apparatus for the destruction of odorous impurities in a gas stream. 3,755,130, 8-28-73, Cl. 204-237.000.
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Zacks, Leo L., to Acushnet Van & Storage, Inc. Collapsible bookcase. 3,728,002, 4-17-73, Cl. 312-259.000.
Zacpal, Zdenek; and Nemecek, Petr, to Prerovske strojirny, narodni podnik. Arrangement for burning of pulverulent and fine grain material. 3,752,455, 8-14-73, Cl. 432-58.000.
Zadig, Ernest A. Testing apparatus for selectively controlled equipment. 3,735,381, 5-22-73, Cl. 340-279.000.
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Zadra, Mario D., to Goodyear Tire & Rubber Company, The. Hydrogenation process. 3,751,515, 8-7-73, Cl. 260-683.900.
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Zaffaroni, Alejandro, to Alza Corporation. Therapeutic adhesive tape. 3,734,097, 5-22-73, Cl. 128-268.000.
Zaffaroni, Alejandro, to Alza Corporation. Bandage for controlled release of vasodilators. 3,742,951, 7-3-73, Cl. 128-268.000.
Zaffaroni, Alejandro, to Alza Corporation. Novel azalkane prostaglandin compounds. 3,764,620, 10-9-73, Cl. 260-501.200.
Zaffaroni, Alejandro, to Alza Corporation. Device for suppressing fertility. 3,777,015, 12-4-73, Cl. 424-15.000.
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Zahn, Paul, to Messerschmitt-Bolkow-Blohm Gesellschaft mit beschrankter Haftung. Thermoelectric device. 3,723,189, 3-27-73, Cl. 136-205.000.
Zahn, Wolfgang; Findeis, Gunter; and Muller, Dieter, to Agfa-Gevaert Aktiengesellschaft. Method and apparatus for the production of color prints. 3,709,601, 1-9-73, Cl. 355-38.000.
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Zahn, Wolfgang, to Agfa-Gevaert Aktiengesellschaft. Photographic copying apparatus. 3,734,614, 5-22-73, Cl. 355-67.000.
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Zaias, Narbo, to Research Corporation. Fungicidal compositions comprising griseofulvin and thiabendazole and methods of utilizing same. 3,773,959, 11-20-73, Cl. 424-270.000.
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Zakharychev, Ardalion Vladimirovich; Serebryakova, Tatyana Andreevna; Ananchenko, Sofya Nikolaevna; and Torgov, Igor Vladimirovich, to Institut Khimii-Prirodnykh Soedineny Im. M.M. Shemuakina akademie Nauk SSSR. Method of producing D-or DL-17α-acetate of 3-methyl ether of D-homoestradiol. 3,714,235, 1-30-73, Cl. 260-491.000.
Zakheim, Howard, to Du Pont de Nemours, E. I., and Company. Bidirectional delay connector. 3,727,552, 4-17-73, Cl. 102-27.00r.
Zakhi, Lester. Polish can. 3,765,048, 10-16-73, Cl. 15-258.000.
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Zakrewsky, Czeslaw; Taubken, Werner; and Muller, Erwin, said Zakrewsky and said Taubken assors. to said Muller, Erwin. Electromagnetically operated stapler. 3,766,455, 10-16-73, Cl. 318-135.000.
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Zaky, Amin Y., to Stromberg-Carlson Corporation. Frequency ringing test trunk circuit. 3,712,963, 1-23-73, Cl. 179-175.20b.
Zaleski, Anne Margaret. Combination toy dog and vacuum cleaner. 3,771,192, 11-13-73, Cl. 15-330.000.
Zaleski, John, to Mallory, P. R., & Co., Inc. Reserve electric cell. 3,748,183, 7-24-73, Cl. 136-114.000.
Zaleski, John F., to Mallory, P. R., & Co., Inc. Flat cell and method of making. 3,726,717, 4-10-73, Cl. 136-111.000.
Zaleski, John F., to Mallory, P. R., & Co., Inc. Electric cell with depolarizer compensated against current erosion effects. 3,738,869, 6-12-73, Cl. 136-14.000.
Zall, David M.: *See—*
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Zambon, Giacomo R., to Udylite Corporation, The. Conveying machine with process selector. 3,760,927, 9-25-73, Cl. 198-19.000.
Zamboni, Frank J., to Zamboni, Frank J., & Co. Water removal machine for artificial turf. 3,736,619, 6-5-73, Cl. 15-340.000.
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Zammit, Frank X.; and Schad, Anthony G., to Westinghouse Electric Corporation, mesne. Concealed adjustable element for electronic circuit cards. 3,710,194, 1-9-73, Cl. 317-101.00r.
Zamora, Pablo Perez, to Procter & Gamble Company, The. Process for softening fabrics in a dryer. 3,743,534, 7-3-73, Cl. 117-109.000.
Zamorano, Luis Ramirez. Apparatus for pressing connector members on structural elements. 3,732,715, 5-15-73, Cl. 72-253.000.
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Zanders, Jan H. P. A., to Oce-van der Grinten N.V. Apparatus for collating sheets. 3,721,435, 3-20-73, Cl. 271-64.000.
Zandonatti, Raymond A., to Tektronix Inc. Electrical connection members for electronic devices and method of making same. 3,753,290, 8-21-73, Cl. 29-628.000.
Zandonatti, Raymond A., to Tektronix, Inc. Thermal switch. 3,763,454, 10-2-73, Cl. 337-404.000.
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Zanis, Charles A.; and Helferich, Richard L., to United States of America, Navy. Lamellar crucible for induction melting titanium. 3,734,480, 5-22-73, Cl. 266-39.000.
Zanis, Yakov Benediktovich: *See—*
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Zankl, Walter: *See—*
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Zankowski, John S., to Eastman Kodak Company. Electrolytic cell for recovering metal from a solution containing ions thereof, and method for operating same. 3,751,351, 8-7-73, Cl. 204-109.000.
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Zanner, Johann, Jr., to Agfa-Gevaert Aktiengesellschaft. Projector for use with magazines and reels for motion picture film. 3,712,719, 1-23-73, Cl. 352-73.000.
Zanni, Vincenzo, to Olivetti, Ing. C., & C., S.p.A. Machine for cutting and stripping back electric wires and cables. 3,727,492, 4-17-73, Cl. 81-9.50a.
Zanoni, Carl A., to Zygo Corporation. Detecting the position of a surface by focus modulating the illuminating beam. 3,768,910, 10-30-73, Cl. 356-167.000.
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Zanoni, Paul, to Bennett Pump Incorporated, mesne. Compact pump/air separator apparatus. 3,715,863, 2-13-73, Cl. 55-204.000.
Zanoni, Paul; and Shunta, Richard F., to Bennett Pump Incorporated. Staged throttling float valve. 3,734,124, 5-22-73, Cl. 137-430.000.
Zanpirri, Anthony P.; Trechock, Jack; and Joseph, Robert T., to FMC Corporation. Coating of reactive form coke by catalytic deposition of glanz carbon. 3,725,019, 4-3-73, Cl. 44-10.00r.
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Zappe, Hans H., to International Business Machines Corporation. High gain Josephson device. 3,764,863, 10-9-73, Cl. 317-234.00r.
Zappe, Hans H., to International Business Machines Corporation. Apparatus for measuring pulsed signals using Josephson tunneling devices. 3,764,905, 10-9-73, Cl. 324-102.000.
Zappia, Anthony I. Blow head assembly. 3,732,088, 5-8-73, Cl. 65-261.000.
Zappia, Anthony T. Air squeeze ware tester. 3,777,556, 12-11-73, Cl. 73-94.000.
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Zar, Jacob L., to Avco Corporation. Superconductive magnets used in magnetohydrodynamic devices. 3,740,593, 6-19-73, Cl. 310-11.000.
Zar, Jacob L., to Avco Corporation. Laser mirror positioning apparatus. 3,753,150, 8-14-73, Cl. 331-94.500.
Zar, Jacob L., to Avco Corporation. Modular aerodynamic laser window. 3,768,035, 10-23-73, Cl. 331-94.500.
Zarebski, Edward, to Scott Paper Company. Photosensitive medium comprising a furfurylidene, a lower haloalkane, and a homopolymer of polyvinyl chloride as binder. 3,745,012, 7-10-73, Cl. 96-90.00r.
Zaremba, Dieter, to Porsche, Dr.-Ing. H.c.F., K.G., Firma. Disengageable connection for drawbridge girders. 3,744,075, 7-10-73, Cl. 14-1.000.
Zaremba, John P., Jr.; Cooney, Peter D.; Hadden, Craig W.; and Shupp, David E., to Progressive Products, Inc. Drain plug assembly. 3,727,638, 4-17-73, Cl. 137-572.000.
Zaremski, Donald R., to Allegheny Ludlum Industries, Inc. Trim members and production thereof. 3,713,903, 1-30-73, Cl. 148-6.15r.
Zaretsky, Leo G., to Control Data Corporation. Reference power supply having an output voltage less than its control element. 3,747,008, 7-17-73, Cl. 330-110.000.
Zarezankov, Georgy Khristovich; Khokhlov, Alexander Semenovich; Cherepnev, Valery Ivanovich; Druzhinin, Nikolai Sergeevich; and Budtolaev, Konstantin Nikolaevich, to Vsesojuzny Nauchno-Issledovatelsky i Proektny-Konstruktorsky Institut Metallurgicheskogo Mshinostroenia. Method for gauging the linear cross-sectional dimensions of moving rolled products and an apparatus for its realization. 3,713,739, 1-30-73, Cl. 356-163.000.
Zarfoss, James R.; Snader, Earle S.; and Hale, Elden A., Sr., to Koppers Company, Inc. Closure for exhaust stack. 3,745,907, 7-17-73, Cl. 98-59.000.
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Zarowin, Charles B., to International Business Machines Corporation. Metal vapor discharge tube using metal and semi-metal compounds in a discharge tube. 3,720,877, 3-13-73, Cl. 330-4.300.
Zarowin, Charles Bezalel, to International Business Machines Corporation. Three-phase voltage tripling rectifier circuit. 3,764,886, 10-9-73, Cl. 321-15.000.
Zarraga, Carlos Alberto. Unit of orientation for peripheral ophthalmometry. 3,765,753, 10-16-73, Cl. 351-6.000.
Zaruba, Wenzel; and Sehnal, Jan, to Textol Systems, Inc. Linear actuator system with reversing means. 3,709,047, 1-9-73, Cl. 74-25.00.
Zaruba, Wenzel, to Textol Systems, Inc. Linear actuator with yoke actuated pitch control. 3,717,042, 2-20-73, Cl. 74-25.000.
Zarumb, Solomon. Remote sensing apparatus and methods. 3,768,908, 10-30-73, Cl. 356-113.000.
Zasadny, Ronald J.; Gallagher, James A.; and Trix, Herbert Phelps, to BASF Wyandotte Corporation. Method for improving adhesion of polyurethane coatings to substrates. 3,756,845, 9-4-73, Cl. 117-72.000.
Zastawny, Jaroslaw, to Canron Limited. Pipe coupling. 3,720,428, 3-13-73, Cl. 285-368.000.
Zatell, Vincent A., to Universal Oil Products Company. Method of modifying a tinned tube for boiling enhancement. 3,768,290, 10-30-73, Cl. 72-68.000.
Zatorsky, Nicholas Ignatius, Jr., to Textron Inc. Hand-held power tool with rotary tool disc at end of reversible forwardly projecting arm. 3,735,489, 5-29-73, Cl. 30-390.000.
Zatsky, Norman C.; and Wiesner, Leo, to Timex Corporation. Synchronized quartz crystal watch. 3,756,014, 9-4-73, Cl. 58-28.00r.
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Zauderer, Bert, to General Electric Company. Uniform ionization means for MHD generators. 3,736,447, 5-29-73, Cl. 310-11.000.
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Zauft, Karl-Heinz, to Siemens Aktiengesellschaft. Test tube for body liquids. 3,754,872, 8-28-73, Cl. 23-292.000.
Zaugg, Harold Elmer, to Abbott Laboratories. Lactonic acetals. 3,741,989, 6-26-73, Cl. 260-343.600.
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Zaugg, Roland; Glanzmann, Werner; and Fluck, Josef, to Schild, A., S.A. Correction mechanism for calendar watches. 3,714,774, 2-6-73, Cl. 58-58.000.
Zaugg, Roland, to Schild, A., S.A. Calendar driving mechanism for date and week day indicating timepiece. 3,721,085, 3-20-73, Cl. 58-58.000.
Zaugg, Roland, to Schild, A., S.A. Watch movement including alarm mechanism. 3,732,686, 5-15-73, Cl. 58-57.500.
Zaugg, Roland, to Schild, A., S.A. Fine-adjustment device for watch-movement regulator-assembly. 3,745,763, 7-17-73, Cl. 58-109.000.
Zaugg, Roland, to Schild, A., S.A. Watch movement with off-center wheel and pinion. 3,779,002, 12-18-73, Cl. 58-59.000.
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Zawadzki, Antoni. Automatic rocker and glider. 3,758,156, 9-11-73, Cl. 297-260.000.



Zawadzki, George Z., to Von Duprin, Inc. Latch bolt retractor. Zecchini, Antonio. Sewing machine, in particular for making the edg-



Heinz, Karl; Zeile, Karl; Dangelmayr, Peter; Gi-

Zawadzki, George Z., to Von Duprin, Inc. Latch bolt retractor mechanism. 3,730,574, 5-1-73, Cl. 292-92.000.
Zawadzki, George Z., to Von Duprin, Inc. Push plate panic exit device. 3,767,238, 10-23-73, Cl. 292-21.000.
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Zbikowski, Theodore H., to Tonka Corporation. Wheel and tire assembly for toy vehicles. 3,730,594, 5-1-73, Cl. 301-63.0pw.
Zbikowski, Theodore H.; Pauly, Ronald R.; and Pfeilsticker, Lee J., to Tonka Corporation. Ladder for toy fire engine. 3,735,528, 5-29-73, Cl. 46-215.000.
Zbikowski, Theodore H.; and Pauly, Ronald R., to Tonka Corporation. Wheeled toy with sounding rasp and rotating head member. 3,750,329, 8-7-73, Cl. 46-107.000.
Zbinden, Rudolf. Cold circular saw. 3,768,358, 10-30-73, Cl. 83-466.100.
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Zdele, Feinhard, to SWF-Spezialfabrik fur Autozubehor Gustav Rau GmbH. Windshield wiper mounting arm construction for motor vehicles. 3,760,452, 9-25-73, Cl. 15-250.350.
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Zieman, Simone. Toilet cover chair. 3,716,872, 2-20-73, Cl. 4-1.000.
Ziemba, Ludwik. Holder for fish hooks. 3,729,856, 5-1-73, Cl. 43-57.50r.
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Ziemelis, Ojars J.; Coppock, Richard A.; Sonnenberg, Hartmut; and Mengers, Paul E., to GTE Sylvania Incorporated. Incoherent to coherent image converter. 3,774,124, 11-20-73, Cl. 332-7.510.
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Ziesche, Kurt; Hans, Waldemar; Duffner, Josef; Brune, Gerhard; and Grob, Alfred, to Bosch, Robert, G.m.b.H. Solenoid valve. 3,732,893, 5-15-73, Cl. 137-625.650.
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Zievers, James F., to Industrial Filter & Pump Mfg. Co. Sugar recovery method and apparatus. 3,711,329, 1-16-73, Cl. 127-9.000.
Zievers, James F.; and Novotny, Charles J., to Industrial Filter & Pump Mfg. Co. Sugar recovery method. 3,730,770, 5-1-73, Cl. 127-46.00b.
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Zievers, James F.; and Riley, Clay W., to Industrial Filter & Pump Mfg. Co. Evaporator and entrainment separator. 3,760,566, 9-25-73, Cl. 55-223.000.
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Ziff, Robert E.: *See—*
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Ziffer, Jack, to Pabst Brewing Company. Non-dusting and moisture-resistant enzyme compositions. 3,737,376, 6-5-73, Cl. 195-63.000.
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Zifferer, Kenneth B. Expansion anchor with conically tapered and threaded interacting parts. 3,742,809, 7-3-73, Cl. 85-84.000.
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Zika, Harry T., to Union Carbide Corporation. Surfactant composition. 3,746,096, 7-17-73, Cl. 166-311.000.
Zikan, Viktor: *See—*
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Zilahy, Zoltan E.: *See—*
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Zilberblat, Georg Solomovich. Method of cultivating leishmania. 3,743,579, 7-3-73, Cl. 195-80.000.
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Zill, Fred W., to Schlumberger Technology Corporation. Methods and apparatus for use in investigating earth formations. 3,745,521, 7-10-73, Cl. 340-18.ctm.
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Zima, Joseph J., Jr. Metal tape abutment slide. 3,744,134, 7-10-73, Cl. 33-138.000.
Zimar, Frank: *See—*
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Zimet, Robert A.; and Bain, James B., to Datron Systems, Inc. Reed relay. 3,760,311, 9-18-73, Cl. 335-152.000.
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Rosse, Thomas A.; Blackmer, David E.; Zindler, Jerrold; and

Zimmer, George A., to Borg-Warner Corporation. One-way clutch. 3,730,316, 5-1-73, Cl. 192-41.00a.

Zimmer, Gerhard: *See—*
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Zimmer, Gerhard; and Stein, Hermann. Aerosol hair-setting composition comprising an interpolymer of an N-3-oxoalkylamide and α,β-unsaturated aliphatic acid. 3,735,003, 5-22-73, Cl. 424-47.000.

Zimmer, Johannes: *See—*
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Zimmer, Karl R. Method of producing hidden registered printing. 3,711,353, 1-16-73, Cl. 156-267.000.

Zimmer, Kurt; and Schneider, Wilhelm, to Beche & Grohs GmbH. Double-acting press with hydraulically coupled hammer and anvil. 3,780,560, 12-25-73, Cl. 72-407.000.

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Zimmer, Peter. Apparatus for the production of seamless hollow cylinders. 3,763,030, 10-2-73, Cl. 204-281.000.

Zimmer, Russell D.; and Kerber, Marvin C. Remote control system for locking device. 3,760,422, 9-18-73, Cl. 343-225.000.

Zimmer, Siegfried: *See—*
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Zimmer, Walter George A. Laser guidance system for grade control. 3,727,332, 4-17-73, Cl. 37-97.000.

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Zimmer-Galler, Roswitha, to United States of America, Navy. Ferrocene derivatives. 3,755,311, 8-28-73, Cl. 260-240.00r.

Zimmerbeutel, Gerd: *See—*
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Zimmerer, Arthur L.; Zimmerer, Bernard J.; and Zimmerer, Paul B., to Lindsay Manufacturing Co. Towable drive tower for center pivot irrigation systems. 3,730,435, 5-1-73, Cl. 239-213.000.

Zimmerer, Arthur L.; Zimmerer, Bernard J.; and Zimmerer, Paul B. Flexible joints for an overhead irrigation system. 3,738,687, 6-12-73, Cl. 285-5.000.

Zimmerer, Bernard J.: *See—*
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Zimmerman, Abraham A.; Furlong, Louis E.; and Vadekar, Mohan, to Esso Research and Engineering Company. Gasoline composition providing enhanced engine operation. 3,709,668, 1-9-73, Cl. 44-72.000.

Zimmerman, Abraham A.; Furlong, Louis E.; and Shannon, Hugh F., to Esso Research and Engineering Company. Composition for improving airfuel ratio distribution in internal combustion engines. 3,733,184, 5-15-73, Cl. 44-80.000.

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Zimmerman, D. W., Mfg., Inc.: *See—*
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Stone, Charles W., 3,756,563.

Zimmerman, Daniel D., to Johns Hopkins University, The. Apparatus for sealing packages. 3,756,490, 9-4-73, Cl. 228-46.000.

Zimmerman, Eli. Toothbrush mouthwash rinser kit. 3,734,106, 5-22-73, Cl. 132-79.000.

Zimmerman, Henry A., to Tektronix, Inc. Display baseline stabilization circuit. 3,771,056, 11-6-73, Cl. 324-57.00r.

Zimmerman, James E.: *See—*
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Zimmerman, James E. Superconductive quantum interference device having two cavities isolated by a superconductive weak link. 3,758,854, 9-11-73, Cl. 324-43.00r.

Zimmerman, John G., Jr. Reciprocating slide type handgun automatic firearms. 3,731,590, 5-8-73, Cl. 89-163.000.

Zimmerman, Joseph P. Toilet ventilation device. 3,763,505, 10-9-73, Cl. 4-213.000.

Zimmerman, Lester, to Vernitron Medical Products, Inc. Disposable human blood dialysis device. 3,741,395, 6-26-73, Cl. 210-321.000.

Zimmerman, Michael C.: *See—*
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Zimmerman, Neil L. Hydro-disintegrator. 3,753,408, 8-21-73, Cl. 111-7.100.

Zimmerman, Richard Henry: *See—*
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Zimmerman, Richard Henry; and Brenneman, Richard Lee, to AMP Incorporated. Method and electrolyte for electrodepositing a gold-arsenic alloy. 3,753,874, 8-21-73, Cl. 204-43.00g.

Zimmerman, Robert L.: *See—*
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Zimmermann & Jansen Gesellschaft mit beschrankter Haftung: *See—*
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Zimmermann, Adolf, Maschinenbau: *See—*
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Zimmermann, Erich; and Forster, Nikolaus, to Rheinstahl Huttenwerke AG. Method and apparatus for joining the electrodes of an electroslag remelting system. 3,752,896, 8-14-73, Cl. 13-18.000.

Zimmermann, Ernest F., to Ampex Corporation. Apparatus for shearing webs. 3,730,043, 5-1-73, Cl. 83-502.000.

Zimmermann, Erwin: *See—*
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Zimmermann, Frank: *See—*
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Zimmermann, Frederick N., to March Manufacturing Company. Condensate pump. 3,758,236, 9-11-73, Cl. 417-360.000.

Zimmermann, Gert. Device for separating disc-like objects, particularly coins. 3,726,290, 4-10-73, Cl. 133-3.00r.

Zimmermann, Guenter. Closure apparatus. 3,759,013, 9-18-73, Cl. 53-329.000.

Zimmermann, Guenter. Drawing apparatus for sealing containers. 3,760,563, 9-25-73, Cl. 53-329.000.

Zimmermann, Hans: *See—*
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Zimmermann, Hans; Rudolph, Otfried; and Kuhn, Wilfried, to VEB Polygraph Leipzig Kombinat fur Polygraphische Maschinen und Ausrustungen. Sheet turning mechanism for perfectors. 3,742,847, 7-3-73, Cl. 101-230.000.

Zimmermann, Helmuth; and Kielwein, Helmut, to Fr. Hesser Maschinenfabrik A.G. Intermediate conveyor system for use with bagging and cartoning machines. 3,777,453, 12-11-73, Cl. 53-251.000.

Zimmermann, Hubert: *See—*
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Zimmermann, Thomas C.: *See—*
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Zimmermann, Ulrich, to Sulzer Brothers Limited. Nuclear power station for a gaseous working medium. 3,748,228, 7-24-73, Cl. 176-60.000.

Zimmermann, Vincent H.: *See—*
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Zimmermann, Wilfried: *See—*
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Zimmern, Bernard. Liquid injection system for globoid-worm compressor. 3,752,606, 8-14-73, Cl. 418-97.000.

Zimmet, Hans, to VEB Pentacon Dresden Kamera- und Kinowerke. Microfilm camera with longitudinal and cross slides movable in steps. 3,778,151, 12-11-73, Cl. 355-53.000.

Zimpleman, Marion D. Clamping device. 3,710,423, 1-16-73, Cl. 24-67.500.

Zimprich, John W., to Modine Manufacturing Company. Heat exchanger. 3,708,012, 1-2-73, Cl. 165-152.000.

Zinchenko, Vasily Ivanovich; Salmanova, Ljudmila Sergeevna; and Minchuk, Filipp Leontievich. Enzyme treatment of grape pulp for wine production. 3,737,324, 6-5-73, Cl. 99-35.000.

Zinck, Eugen. Motor operated hand hoe. 3,773,112, 11-20-73, Cl. 172-42.000.

Zincone, Robert: *See—*
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Zincone, Robert, to United Aircraft Corporation. Composite helicopter rotor and blade. 3,754,840, 8-28-73, Cl. 416-226.000.

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Zindler, Jerrold, to Instrumentation Laboratory, Inc. Dispenser apparatus. 3,735,902, 5-29-73, Cl. 222-363.000.

Zingaro, William P., to Philips Electronics and Pharmaceutical Industries Corporation. Multi-anode X-ray tube. 3,753,020, 8-14-73, Cl. 313-60.000.

Zink, Anton, to Daimler-Benz Aktiengesellschaft. Bearing support for heater valve shaft in internal combustion engines. 3,774,879, 11-27-73, Cl. 251-303.000.

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Zink, John Smith; Goodnight, Hershel; and Reed, Robert D., 3,715,181.
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Zink, John S.; Reed, Robert D.; and Goodnight, Hershel E., to Zink, John, Company. High intensity burner. 3,749,548, 7-31-73, Cl. 431-158.000.

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Zink, John Smith; Goodnight, Hershel; and Reed, Robert D., to Zink, John, Company. Fuel burner assembly. 3,715,181, 2-6-73, Cl. 431-184.000.

Zink, John Smith; Goodnight, Hershel; and Reed, Robert D., to Zink, John, Company. Burner assembly for liquid fuel. 3,720,495, 3-13-73, Cl. 431-184.000.

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Zinker, Norman, to International Technical Industries. Method and means for amplifying the stress and strain in a stress-sensitive component. 3,717,039, 2-20-73, Cl. 73-398.00r.

Zinkgraf, Bernhard A.; and Williams, Jack Leroy, to Krafto Corporation. Container and rack for presenting articles. 3,776,419, 12-4-73, Cl. 221-197.000.

Zinkin, De Wayne; Coker, Cliff J.; and Gustafson, Kenneth A. Adjustable friction type exercising device. 3,759,511, 9-18-73, Cl. 272-58.000.

Zinkin, Harold, to Whittaker Corporation. Weight training device. 3,743,282, 7-3-73, Cl. 272-58.000.

Zinkovsky, Viktor Petrovich; Sukoian, Nariman Alexandrovich; Alyanov, Vladimir Fedorovich; and Frolov, Jury Fedorovich. Device for holding and longitudinal displacing of electrode. 3,717,712, 2-20-73, Cl. 13-15.000.

Zinn, Walter H.; and Lichtenberger, Harold V., to Combustion Engineering, Inc. Fuel element grid support for nuclear reactor. 3,769,159, 10-30-73, Cl. 176-78.000.

Zinnes, Harold; Lindo, Neil A.; and Shavel, John, Jr., to Warner-Lambert Company. 4-Hydroxy-2, n-dimethyl-2h-1,2-benzothiazine-3-carboxanilide 1,1-dioxide and process therefor. 3,714,155, 1-30-73, Cl. 260-243.00r.

Zinnes, Harold; Schwartz, Martin L.; and Shavel, John, Jr., to Warner-Lambert Company. 2-Oxo-N-(2-thiazolyl)-3-indolinecarboxamide. 3,749,731, 7-31-73, Cl. 260-306.80r.

Zinnes, Harold; and Lindo, Neil A., to Warner-Lambert Company. N-(pyridyl)2H 1-benzothiopyran-3-carboxamide-4-hydroxy 1,1-dioxides. 3,769,292, 10-30-73, Cl. 260-294.80c.

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Bentholm, Svend A. R., and W. E. Koenen, to Akzona Inc. Process for the manufacture of rapidly disintegrating solid dosage unit forms. Re. 27,679, 6–19–73, Cl. 424—148.
Bereza, Albert, to Westinghouse Electric Corp. Method of sealing and evaculating vacuum envelopes. Re. 27,733, 8–14–73, Cl. 29—472.7.
Bergstedt, Karl A., to AB Penta. Hydraulic mechanisms for boats with tiltable propeller housing. Re. 27,633, 5–1–73, Cl. 115—41.
Berney, Joseph C. Foldable case setup apparatus. Re. 27,631, 5–1–73, Cl. 93—53.
Billett Ronald J., Terence H. West, to FMC Corp. Strapping machine. Re. 27,744, 8–28–73, Cl. 100—8.
Blattner, Hans: *See*—
Schindler, Walter, and Blattner. Re. 27,622.
Bock, Robert V.: *See*—
Carlson, Carl B., and Bock. Re. 27,791.
Boehringer, Ingelheim GmbH: *See*—
Koppe, Herbert, Engelhardt, Ludwig, and Zelle. Re. 27,822.
Bolduc, Lee R., G. F. Schwoboda, by Medtronic, Inc. Magnetically coupled implantable servomechanism. Re. 27,661, 6–5–73, Cl. 338—12.
Bolger, Leonard F., to Shell Oil Co. Operating technique for sulfur slurry pipeline. Re. 27,831, 12–4–73, Cl. 302—66.
Borg-Warner Corp.: *See*—
Alessi, Samuel P. Re. 27,851.
Harlin, Lester E., and Moore. Re. 27,691.
Botefuhr, Harold R., to McGraw-Edison Co. Radial arm saw. Re. 27,565, 1–23–73, Cl. 143—6.







Bottenbruch, Ludwig: *See*—
Clark Equipment Co.: *See*—

Bottenbruch, Ludwig: *See—*
Schnell, Hermann, Bottenbruch, Weirauch, Hechelhammer, Streib, and Fritz. Re. 27,682.

Bouricius, Willard G., and B. J. Schultz, to International Business Machines Corp. Method for calculating survival coefficients. T912,004, 7–10–73, Cl. 444—001.

Bramley, Anthony, and J. F. Gilbert; said Gilbert assignor to said Bramley. Production of netting. Re. 27,544, 1–9–73, Cl. 161—57.

Brannon, Timothy L., H. T. Mehl, and M. R. Zick, to International Business Machines Corp. Multi-phase nucleus loading for a virtual storage system. T912,006, 7–10–73, Cl. 444—001.

Breen, Alvin L., and M. Sussman, to E. I. du Pont de Nemours and Co. Fluid jet process for twisting yarn. Re. 27,717, 8–7–73, Cl. 57—157.

Briand, Roger H., to Campagnie International Pour L, Informatique. Numerical data processing system. Re. 27,779, 10–9–73, Cl. 340—172.

Britt Tech Corp.: *See—*
Nortsrud, Iven R., and Threlkeld. Re. 27,855.

Brody, Donald E.: *See—*
Cain, Clifford W., Jr., and Brody. Re. 27,572.

Brooks, Warren B., C. O. Baker, and E. L. Jones, to Mobil Oil Corp. Subsea production system. Re. 27,745, 8–28–73, Cl. 166—500.

Brown, Chester B.: *See—*
Speese, Donald V., and Brown. Re. 27,687.

Brown, Neuberne H., Jr., D. P. Butler, J. M. Carter, M. Ferik, and P. E. Ogle, to Evans Products Co. Inflatable bulkhead for railroad car. Re. 27,615, 4–17–73, Cl. 105—369.

Brumlik, George C. Self-gripping fastening device. Re. 27,725, 8–7–73, Cl. 24—204.

Brunner, Augusto J., F. Costa, and L. Falcone, to Flexa Industria Materie Plastiche S.p.A. Waterproof fabric and method for forming the same. Re. 27,614, 4–3–73, Cl. 16—53.

Buehrle, William B., to Motorola, Inc. Two-state communication devices having combined clock and information signals. Re. 27,810, 11–20–73, Cl. 325—321.

Bujtar, Carlo.: *See—*
Ballini, Giuliano, and Bujtar. Re. 27,843.

Burnett, John S.: *See—*
Roinestad, Gerald C., Rodman, and Burnett. Re. 27,690.

Burnstine, Donald C.: *See—*
Stafford, Thomas S., Burnstine, and Paul. Re. 27,703.

Burroughs Corp.: *See—*
Carlson, Carl B., and Bock. Re. 27,791.
Schneider, Stanley, and Tillman. Re. 27,801.

Burrus, Thomas W., to RCA Corp. Blanking circuits for television receivers. Re. 27,793, 10–30–73, Cl. 178—7.50.

Butler, David P.: *See—*
Brown, Neuberne H., Jr., Butler, Carter, Ferik, and Ogle. Re. 27,615.

Butler, James G.: *See—*
Ashton, Robert, Gullickson, and Butler. Re. 27,554.

Byers, James Otto, to Sanders Associates, Inc. Fluid flow control valve. Re. 27,758, 9–11–73, Cl. 137—625.620.

Cain, Clifton W., Jr., and D. E. Brody, to Johns-Manville Corp. Diatomaceous silica pigments and the like. Re. 27,572, 2–6–73, Cl. 106—288.

Campbell, Jack M.: *See—*
Niven, William W. Jr. Re. 27,841.

Canron Ltd.: *See—*
Stewart, John K., and Beckmann. Re. 27,604.

Carlson, Carl B., and R. V. Bock, to Burroughs Corp. Digital computer with memory lock operation. Re. 27,791, 10–30–73, Cl. 340—172.50.

Carmichael, Thomas, and D. U. Howard, to Sherwood Products Corp. Vehicle flush toilet. Re. 27,833, 12–11–73, Cl. 4—115.

Carmichael, Thomas F., and R. J. Maier, to Syncro Corp. Ignition system. Re. 27,704, 7–24–73, Cl. 123—148.

Carrier Corp.: *See—*
Stankavich, Anthony J. Re. 27,603.

Carson, Raymond R. Machine for gathering, stacking and transporting hay. Re. 27,706, 7–24–73, Cl. 56—350.

Carter, Jack H.: *See—*
Brown, Neuberne H., Jr., Butler, Carter, Ferik, and Ogle. Re. 27,615.

Celanese Corp.: *See—*
Paliyenko, Paul, and Coates. Re. 27,587.

Ceramic Cooling Tower Co.: *See—*
Frohwerk, Paul A. Re. 27,853.

Chapman, Frederick F., and D. Hill, to Ernest E. Runnion. Cutter-head structure. Re. 27,654, 6–5–73, Cl. 144—229.

Charier-Vadrot, Pierre. Process for preparation of gelatinous material from animal collagen. Re. 27,583, 2–20–73, Cl. 424—360.

Chen, Richard J., to Polaroid Corp. Air venting means for photographic film unit. Re. 27,795, 10–30–73, Cl. 95—13.

Ciba-Geigy AG: *See—*
Schwander, Hans R., Zenhausern, and Hindermann. Re. 27,800.

Ciba-Geigy Corp.: *See—*
Schindler, Walter, and Blattner. Re. 27,622.
Speese, Donald V., and Brown. Re. 27,687.

Cincinnati Milacron Inc.: *See—*
Kauffman, Harry D. Re. 27,707.

Clark Equipment Co.: *See—*
Gondeck, Frederick V., Hickox, Kennedy, Perez, and Thompson. Re. 27,593.
McIntosh, Richard F. Re. 27,731.

Clary Corp.: *See—*
Mayo, George L. Re. 27,760.

Clauson, Arthur D., to Sun Electric Corp. Actuated pin contact switch. Re. 27,713, 7–31–73, Cl. 200—81.9.

Coates, Herbert W.: *See—*
Paliyenko, Paul, and Coates. Re. 27,587.

Cohen, Herman. Process for preserving citrus fruit food products. Re. 27,646, 5–29–73, Cl. 99—186.

Cole, Edward N., to General Motors Corp. Vehicular transmission pump drives. Re. 27,553, 1–16–73, Cl. 74—730.

Commercial Solvents Corp.: *See—*
Woodlings, Eric T. Re. 27,815.

Compagnie International Pour L, Informatique: *See—*
Briand, Roger H. Re. 27,779.

Container Corp. of America: *See—*
Helms, Charles R. Re. 27,624.

Continental Can Co., Inc.: *See—*
Stec, Frederick J. Re. 27,796.

Controls Company of America: *See—*
Strathearn, Donald M., Thornbery, and Willcox. Re. 27,609.

Corrsin, Lester, to Curtis Instruments, Inc. Operating time indicator. Re. 27,556, 1–23–73, Cl. 324—182.

Costa, Fulvio: *See—*
Brunner, Augusto J., Costa, and Falcone. Re. 27,614.

Cousino, Ralph E., to Orrtronico Inc. Tape cartridge. Re. 27,584, 2–20–73, Cl. 242—15.19.

Cox, Eugene B., to General Electric Co. Impregnated polypropylene film in a sealed housing. Re. 27,823, 11–27–73, Cl. 174—17.

Cox, Eugene B., to General Electric Co. Capacitor with impregnated polypropylene dielectric. Re. 27,824, 11–27–73, Cl. 317—259.

Craig, Dwin R., to Logestronics, Inc. Automatic focusing apparatus using a diffusing element. Re. 27,817, 11–27–73, Cl. 259—204.

Crook, Edward J., Jr., to American Hoist & Derrick Co. Coupling link. Re. 27,620, 4–17–73, Cl. 59—85.

Crosman Arms Co., Inc.: *See—*
Vadas, John F., and Desrochers. Re. 27,568.

Cummins Engine Co., Inc.: *See—*
Enos, Carl E. Re. 27,642.

Curtis Instruments, Inc.: *See—*
Corrsin, Lester. Re. 27,556.

Cypher, James H., to PPG Industries, Inc. Method and apparatus for bending and tempering glass sheets. Re. 27,634, 5–1–73, Cl. 65—104.

Dahms, Francis A., to Emhart Corp. Triple gob settle blowhead and baffle construction. Re. 27,834, 12–11–73, Cl. 65—261.

Dainihon Bungu Kabushiki Kaisha: *See—*
Horie, Yukio. Re. 27,636.

Daniels, Charles K., and J. P. McCarthy, to E. G. & G. International, Inc. Underwater guidance method and apparatus. Re. 27,750, 9–11–73, Cl. 340—3.

Data Card Corporation: *See—*
Drillick, Jacob H. Re. 27,809.

Davis, Craig M.: *See—*
Baxter, William F., Jr., and Davis. T912,002.

Dean, Duff L., and K. E. Balliet, by Triple D Industries, Inc., to Triple D Industries, Inc. Boat fender structures. Re. 27,589, 2–27–73, Cl. 114—219.

Dean, Duff L., deceased, by J. C. Dean; said Dean assignor to Triple D Industries, Inc. Boat fender structures. Re. 27,666, 6–12–73, Cl. 114—219.

Dean, Jean C.: *See—*
Dean, Duff L. Re. 27,666.

Deere and Co.: *See—*
Soteropulos, Gust, and Barnes. Re. 27,657.

Deknatel, Inc.: *See—*
Shave, William H., and Kurtz. Re. 27,735.

Deslauriers, Clovis F. Apparatus for die cutting and scoring. Re. 27,768, 10–2–73, Cl. 83—9.

Desrochers, Donald A.: *See—*
Vadas, John F., and Desrochers. Re. 27,568.

Diaz, Raul R., to Soto, Angelo. Protective device for fire hydrants. Re. 27,616, 4–17–73, Cl. 137—382.5.

DiCicco, Alexander M.: *See—*
Artzer, Charles W., and DiCicco. Re. 27,651.

Dienst, Carl S., and J. M. Attebery, to Swanson, Emery Carlton. Process for separating protein from aqueous solutions containing dissolved material of lower molecular weight using a thin bed of molecular sieve material. Re. 27,806, 10–30–73, Cl. 260—112.

Ditz-Crane: *See—*
Kough, John K. and B. B. Re. 27,574.

Donaldson Co.: *See—*
Lapple, Charles E. Re. 27,742.

Donlon, Roger M.: *See—*
Grether, Tobias, and Donlon. Re. 27,674.

Dow Chemical Co., The: *See—*
Grant, Charles H. Re. 27,619.

Draft Systems, Inc.: *See—*
Johnston, Mack S. Re. 27,626.
Johnston, Mack S. Re. 27,627.





Dresser Industries, Inc.: *See—*
Talbert, Milton L. Re. 27,597.
Youmans, Arthur H. Re. 27,579.

Drillick, Jacob H., to Data Card Corp. High speed automatic card embosser. Re. 27,809, 11–13–73, Cl. 101—18.

Drummond Instrument Co.: *See—*
Drummond, Michael E., and Robinson. Re. 27,645.

Drummond, Michael E., and J. E. Robinson, to Drummond Instrument Co. Re. 27,645, 5–29–73, Cl. 222—49.

Dualjet Corp.: *See—*
Simons, Edward W. Re. 27,566.

Dumore Co., The: *See—*
Steibel, James P. Re. 27,771.
Weissberger, Arnold, and Kibler. Re. 27,848.

Du Pont de Nemours, E. I., and Co.: *See—*
Breen, Alvin L., and Sussman. Re. 27,717.
Owens, John E., and Vieth. Re. 27,771.
Rosenblatt, Naftali W. T912,007.
Werner, Alfred J. Re. 27,818.

E. G. & G. International, Inc.: *See—*
Daniels, Charles K., and McCarthy. Re. 27,750.

East Tennessee Packing Co.: *See—*
Story, William E. Re. 27,816.

Eastman Kodak Co.: *See—*
McKee, Edward S. Re. 27,719.

Elde, Melvin O., to United Control Corp. Amplifier with floating input. Re. 27,602, 3–20–73, Cl. 33—24.

Eisenberg, Bernard C., to Solbern Corp. Spear packing apparatus. Re. 27,852, 12–25–73, Cl. 53—123.

Electro-Catheter Corp.: *See—*
Ackerman, Bernard. Re. 27,569.

Ellison, Joseph E.: *See—*
Mongerson, Paul A., and Ellison. Re. 27,655.

Emhart Corp.: *See—*
Dahms, Francis A. Re. 27,834.

Engelhardt, Albrecht: *See—*
Koppe, Herbert, Engelhardt, Ludwig, and Zeile. Re. 27,822.

Enos, Carl E., to Cummins Engine Co., Inc. High traction vehicle. Re. 27,642, 5–8–73, Cl. 115—1.

Erickson, Albin R., to Textron Inc. Ski mounting apparatus for snowmobiles. Re. 27,676, 6–19–73, Cl. 180—5.

Esso Research and Engineering Co.: *See—*
Gilbert, John B., and Kartzmark. Re. 27,845.
Kahn, Donald J., Robbins, and Furer. Re. 27,582.

Etter, William A., and W. L. Seaman, to Fisher Controls Co., Inc. Filler valve. Re. 27,564, 1–23–73, Cl. 137—512.3.

Evans, Carlton F., to International Paper Co. Dunnage bag. Re. 27,787, 10–16–73, Cl. 214—10.50.

Evans Products Co.: *See—*
Brown, Neuberne H., Jr., Butler, Carter, Ferik, and Ogle. Re. 27,615.

Eyelet Specialty Co.: *See—*
Landen, William J. Re. 27,673.

FMC Corp.: *See—*
Billett, Ronald J., and West. Re. 27,744.

Fain, Jacob M., and E. McDonnell, to William L. Alexander, William G. Mulligan, and Foster Dee Snell, trustees for the stockholders of Twenty-Nine West Fifteenth Street Corp. Novel water-repellent compostions. Re. 27,601, 3–20–73, Cl. 260—2 S.

Falcone, Luigi: *See—*
Brunner, Augusto J., Costa, and Falcone. Re. 27,614.

Farbewerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning: *See—*
Fernholz, Hans, Schmidt, and Wunder. Re. 27,663.
Ribka, Joachim, and Pretzer. Re. 27,575.
Ribka, Joachim. Re. 27,576.

Fast Load Control, Inc.: *See—*
Park, Robert H. Re. 27,842.

Fauchere, Jean, to Societe Richier. Telescopic jib with a telescopic inclinable end member for cranes. Re. 27,763, 9–18–73, Cl. 212—55.

Faust, John A., and M. Sahyun; said Faust assignor to said Sahyun, d.b.a. Sahyun Laboratories. β-Alkoxy-trifluoromethylphenalkylamines. Re. 27,551, 1–16–73, Cl. 260—570.6.

Ferguson, Joseph B.: *See—*
Rawson, Edward B., Schwarzkopf, Ferguson, and Ball. Re. 27,580.

Ferik, Michael: *See—*
Brown, Neuberne H., Jr., Butler, Carter, Ferik, and Ogle. Re. 27,615.

Fernholz, Hans, H. Schmidt, and F. Wunder, to Farbwerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Process for the manufacture of vinyl esters of carboxylic acids. Re. 27,663, 6–12–73, Cl. 260—497.

Fields, Gary C.: *See—*
Andrews, Raymond J., Fields, and Thompson. Re. 27,782.

Fink, Martin P.: *See—*
Allan, Adrian R., Jr. Re. 27,701.

Fisher Controls Co., Inc.: *See—*
Etter, William A., and Seaman. Re. 27,564.
Tiffany, Floyd L. Re. 27,829.

Fister, Aloysius J., to McGraw-Edison, Co. Protector for electric circuits. Re. 27,802, 10–30–73, Cl. 337—252.

Flachbarth, Charles T., R. W. Hadfield, and W. H. Harding. Single and dual service fittings. Re. 27–549, 1–16–73, Cl. 174—49.

Flanders Filters, Inc.: *See—*
Allan, Adrian R., Jr. Re. 27,701.

Flexa Industria Materie Plastiche S.p.A.: *See—*
Brunner, Augusto J., Costa, and Falcone. Re. 27,614.

Folger Coffee Co., The: *See—*
Niven, William W., Jr. Re. 27,841.

Formica Corp.: *See—*
Kelly, Peter B., and Grosheim. Re. 27,644.

Fritz, Gerhard: *See—*
Schnell, Hermann, Bottenbruch, Weirauch, Hechelhammer, Streib, and Fritz. Re. 27,682.

Frohwerk, Paul A., to Ceramic Cooling Tower Co. Modular floating water-cooling system. Re. 27,853, 12–25–73, Cl. 239—11.

Fujii, Takashi: *See—*
Ochiai, Chiaki, and Fujii. Re. 27,784.

Furer, Frieder S.: *See—*
Kahn, Donald J., Robbins, and Furer. Re. 27,582.

Gaddis, Preston G. Dry chemical feeder method and apparatus. Re. 27,681, 6–19–73, Cl. 259—18.

Garrett, William R., to Smith International, Inc. Reamer-stabilizer. Re. 27,781, 10–9–73, Cl. 175—339.

Gas Council, The: *See—*
Thompson, Brian H., and Majumdar. Re. 27,599.

General Electric Co.: *See—*
Cox, Eugene B. Re. 27,823.
Cox, Eugene B. Re. 27,824.

General Foods Corp.: *See—*
Rusoff, Irving I., Ohan, and Long. Re. 27,790.

General Mills, Inc.: *See—*
Peerman, Dwight E., Vertnik, and Rogier. Re. 27,748.

General Motors Corp.: *See—*
Cole, Edward N. Re. 27,553.

Gilbert, John B., and R. Kartzmark, to Esso Research and Engineering Co. Preparation of white oils with organo-aluminum activated iron group metal catalysts. Re. 27,845, 12–18–73, Cl. 208—89.

Gilbert, John F.: *See—*
Bramley, Anthony, and Gilbert. Re. 27,544.

Giletta, Dario: *See—*
Pacciarini, Antonio, and Giletta. Re. 27,675.

Glassman, Jacob A. Catamenial tampon. Re. 27,677, 6–19–73, Cl. 128—270.

Globe-Union Inc.: *See—*
Hansen, Eric G. Re. 27,836.

Gondeck, Frederick V., L. E. Hickox, T. E. Kennedy, A. Perez, and J. F. Thompson, to Clark Equipment Co. Foamed core laminated structure and method. Re. 27,593, 3–6–73, Cl. 161—44.

Goodrich, B. F., Co., The: *See—*
Ruppel, Donald B., Reinhart, and Stalker. Re. 27,612.

Goordman, Robert V., and R. C. Petersen, to Bell Telephone Laboratories, Inc. Difference amplifier with parallel isolated emitter configuration. Re. 27,730, 8–14–73, Cl. 330—15.

Grace, W. R., & Co.: *See—*
Barrett, Wayne T., Sanchez, and Vanik. Re. 27,697.

Graf, Edward D., and J. G. Kuhn. Abatement of active soil sildes. Re. 27,630, 5–1–73, Cl. 61—35.

Graham, James F. Surgical dressing. Re. 27,571, 2–6–73, Cl. 128—156.

Grant, Charles H., to The Dow Chemical Co. Ammonium nitrate-alkali metal nitrate explosive containing aluminum of particular size distribution. Re. 27,619, 4–17–73, Cl. 149—21.

Grant, Peter M. Powder coating process. T912,001, 7–10–73, Cl. 117—017.

Greer, Homer L.: *See—*
Soltz, Daniel J., and Greer. Re. 27,668.

Greer Hydraulics, Inc.: *See—*
Sedley, Bruce S. Re. 27,753.

Grether, Tobias, and R. M. Donlon, to Hi-Gear Harvester Co. Celery harvester. Re. 27,674, 6–19–73, Cl. 56—327.

Grosheim, Gene E.: *See—*
Kelly, Peter B., and Grosheim. Re. 27,644.

Grussen, Jean. Plastic bottle cap with integral handle. Re. 27,-648, 5–29–73, Cl. 215—41.

Gullickson, Myron L.: *See—*
Ashton, Robert, Gullickson, and Butler. Re. 27,554.

Gutlhuber, Johann.: *See—*
Muhlner, Karl, Jirka, and Gutlhuber. Re. 27,736.

Guy, William R., to Kelvinator, Inc. Range open door latching device. Re. 27,545, 1–9–73, Cl. 219—412.

Hadfield, Robert W.: *See—*
Flachbarth, Charles T., Hadfield, and Harding. Re. 27,-549.

Haffner, Donald G., to Jacobsen Mfg. Co. Hydrostatic transmission control for vehicles. Re. 27,813, 11–20–73. Cl. 74—474.

Hamilton, Andrew J., to Amchem Products, Inc. Compositions and methods for treating metal surfaces. Re. 27,662, 6–12–73, Cl. 252—79.4.

Hanfmann, Alexander M., to Western Electric Co., Inc. Methods of manufacturing thin film components. Re. 27,766, 10–2–73, Cl. 29—62.

Hanfmann, Alexander M., to Western Electric Co., Inc. Method of manufacturing thin film components. Re. 27,772, 10–2–73. Cl. 219—121.01.

Hansen, Eric G., to Globe-Union Inc. Multistation pushbutton switch assembly with master control means for alternative push-push or only one switch operable at a time modes of actuation. Re. 27,836, 12–11–73, Cl. 200—5.

Hansen, Richard C., and A. P. Yesul, to Xerox Corp. Signal storage device. Re. 27,720, 8–7–73, Cl. 355—13.





Hanson, Walter J., to Pitney-Bowes, Inc. Paper jogger. Re.





Illinois Tool Works, Inc.: *See—*

Hanson, Walter J., to Pitney-Bowes, Inc. Paper jogger. Re. 27,814, 11–20–73, Cl. 271—89.
Harding, William H.: *See*—
Flachbarth, Charles T., Hadfield, and Harding. Re. 27,549.
Harlin, Lester E., W. C. Moore, to Borg-Warner Corp. Oil separator for rotary compressor. Re. 27,691, 7–3–73. Cl. 418—83.
Hausermann, Elmer P. Apparatus for shaping electrodes. Re. 27,588, 2–27–73, Cl. 51—157.
Hausmann, Else and H. Device for holding and emptying tubes. Re. 27,689, 6–26–73, Cl. 222—100.
Hausmann, Heinrich: *See*—
Hausman, Else and H. Re. 27,689.
Hawes, Edward M. Soil penetration and shear measuring instrument. Re. 27,696, 7–17–73, Cl. 73—84.
Hawrylo, Frank Z.: *See*—
Kressel, Henry, and Hawrylo. Re. 27,694.
Hechelhammer, Wilhelm: *See*—
Schnell, Hermann, Bottenbruch, Weirauch, Hechelhammer, Streib, and Fritz. Re. 27,682.
Hellmann, Reinhold: *See*—
Schmidt, Donald L., and Hellmann. Re. 27,606.
Helms, Charles R., to Container Corp. of America. Carriers formed from sleeves and having gusset folded bottom closure panels. Re. 27,624, 4–17–73, Cl. 229—37.
Hercules Inc.: *See*—
Kim, Charles W., and Semluk. Re. 27,727.
Hermes, Julius, to Martin Processing Co., Inc. Method for the continuous texturizing or voluminizing of textile materials. Re. 27,773, 10–2–73, Cl. 28—72.1.
Hickernell, James L., to G. W. Murphy Industries, Inc. Friction bearing. Re. 27,752, 9–11–73, Cl. 308—8.200.
Hickox, Lester E.: *See*—
Gondeck, Frederick V., Hickox, Kennedy, Perez, and Thompson. Re. 27,593.
Hi-Gear Harvester Co.: *See*—
Grether, Tobias, and Donlon. Re. 27,674.
Hill, Daniel: *See*—
Chapman, Frederick F., and Hill. Re. 27,654.
Hindermann, Peter: *See*—
Schwander, Hans R., Zenhausern, and Hindermann. Re. 27,800.
Hjermstad, Erling T., L. C. Martin, and K. W. Kirby, to Penick & Ford, Ltd. Monofunctionally substituted hydrophobic starch and film-forming dispersions prepared therefrom. Re. 27,581, 2–6–73, Cl. 106—213.
Hocq, Robert R., to Societe Franco-Hispano-Americaine Francispam. Concealed hinges. Re. 27,546, 1–9–73, Cl. 16—164.
Hofer, Heinz K., and F. Rehmsmeier, to Stubbe Maschinenfabrik G.m.b.H., mesne. Device for stroke limitation on hydraulically displaced mold carrier units on injection molds. Re. 27,607, 4–3–73, Cl. 425—450.
Hoffmann, Arthur K.: *See*—
Maricle, Donald L., and Hoffmann. Re. 27,835.
Holmgren, Marvin E., to Imperial Eastman Corp. Brazed seal connector. Re. 27,709, 7–24–73, Cl. 285—286.
Honeywell Inc.: *See*—
Hurd, Edward T. E., III. Re. 27,596.
Soltz, Daniel J., and Greer. Re. 27,668.
Honeywell Information Systems Inc.: *See*—
Lipp, James P. Re. 27,812.
Haffner, Donald C. Re. 27,813.
Honma, Takamichi, Y. Tushitsuna and S. Aoki, to Nippon Electric Co., Ltd. Pulse position modulation communications system including means for suppressing zero-modulation signal components. Re. 27,738, 8–21–73, Cl. 332—9.
Hood, Stanley R., and R. E. Truitt, to Metals Engineering Co. Metallic strip milling machine. Re. 27,664, 6–12–73, Cl. 90—21.
Horie, Yukio, to Dainihon Bungu Kabushiki Kaisha. Ballpoint pen for water-soluble ink. Re. 27,636, 5–1–73, Cl. 401—217.
Horigome, Toshinori: *See*—
Matsuoka, Tohru, and Horigome. Re. 27,708.
Hosker, Gerald R., to American Gage and Machine Co. Digital readout device with light guides. Re. 27,641, 5–8–73, Cl. 340—378.
Howard, Durrell U.: *See*—
Carmichael, Thomas, and Howard. Re. 27,833.
Howerin, Charles R. and M. W. Humphreys, deceased by M. W. Humphreys; said Humphreys assignor to said Howerin. Cleaning machine. Re. 27,792, 10–30–73, Cl. 15—321.
Hughes Aircraft Co.: *See*—
Lian, Kenneth T. Re. 27,557.
Wendland, Paul H. Re. 27,559.
Humphreys, Marion W.: *See*—
Howerin, Charles R., and Humphreys. Re. 27,792.
Hunter Douglas International N.V.: *See*—
Ledoux, Pierre A. Re. 27,827.
Hurd, Edward T. E., III, to Honeywell Inc. Two-wire MV/V transmitter. Re. 27,596, 3–6–73, Cl. 340—210.
Huynh, Chanh: *See*—
Martel, Jacques, Huynh, Toromanoff, and Nomine. Re. 27,592.
Hyster Co.: *See*—
Kronholm, Donald D. Re. 27,840.
Ideal Security Hardware Corp.: *See*—
Waldo, Russell W. Re. 27,714.
Iida, Yuzo, to Nippon Koyaku, K. K. Manual diaphragm setting device for a camera having automatic exposure device. Re. 27,741, 8–28–73, Cl. 95—10.
Illinois Tool Works, Inc.: *See*—
Rockett, James D. Re. 27,705.
Imperial Eastman Corp.: *See*—
Holmgren, Marvin E. Re. 27,709.
Industries Pirelli S.p.A.: *See*—
Pacciarini, Antonio, and Giletta. Re. 27,675.
Insto-Gas Corp.: *See*—
Power, Gerard. Re. 27,594.
Instytut Premsyslu Miesnego: *See*—
Miler, Kazimierz, and Kozlowski. Re. 27,670.
International Business Machines Corp.: *See*—
Appel, Arthur, and Stein. T912,005.
Bederman, Seymour, and Lankford. Re. 27,600.
Bennett, Brian T., and McKellar. T912,008.
Bouricius, Willard G., and Schultz. T912,004.
Brannon, Timothy L., Mehl, and Zick. T912,006.
Stafford, Thomas S., Burnstine, Paul, and Rogaski, Re. 27,703.
International Paper Co.: *See*—
Evans, Carlton F. Re. 27,787.
Inventors and Investors Inc.: *See*—
LeHovec, Kurt. Re. 27,775.
Jackson, Byron, Inc.: *See*—
Johnson, Noal E. Re. 27,724.
Jankelson, Bernard. Method of producing a muscularly balanced closure of the human mandible. Re. 27,847, 12–18–73, Cl. 32—21.
Jennings, Thomas C., to The Lubrizol Corp. Crosslinking of unsaturated polyesters with N-3-oxohydrocarbon-substituted acrylamides. Re. 27,722. 8–7–73, Cl. 204—159.15.
Jernstrom, Karl W. Compactor. Re. 27,774, 10–2–73, Cl. 100—52.
Jirka, Karl: *See*—
Muhlner, Karl, Jirka, and Gutlhuber. Re. 27,736.
Johns-Manville Corp.: *See*—
Cain, Clifford W., Jr., and Brody. Re. 27,572.
Johnson Diversified, Inc.: *See*—
Johnson, Lloyd E., and Arnold. Re. 27,729.
Johnson, James R., to Minnesota Mining and Mfg. Co. Structural articles and method of making. Re. 27,747, 9–11–73, Cl. 165—166.
Johnson, Lloyd E., deceased; by W. T. Arnold, executor, to Johnson Diversified, Inc. Fishing reel drive. Re. 27,729, 8–14–73, Cl. 64—30.
Johnson, Noal E., to Jackson, Byron, Inc. Power drill pipe and drill collar spider. Re. 27,724, 8–7–73, Cl. 24—263.
Johnston, Mack S., to Draft Systems, Inc. Beer tapping device. Re. 27,626, 4–17–73, Cl. 222—400.7.
Johnston, Mack S., to Draft Systems, Inc. Beer tapping device. Re. 27,627, 4–17–73, Cl. 222—400.7.
Johnston, Richard P.: *See*—
Baumgardner, Arthur R., Johnston, and Martini. Re. 27,567.
Joy, Raymond D.: *See*—
Morrison, Elbert F., and Joy. Re. 27,764.
Kabushiki Kaisha Ricoh: *See*—
Suzuki, Shigeru, Sugita, Koizumi, and Kanno. Re. 27,700.
Kahn, Donald J., M. L. Robbins, and F. S. Furer, to Esso Research and Engineering Co. Metal-containing detergent-dispersants for lubricants. Re. 27,582, 2–6–73, Cl. 252—32.7.
Kanno, Tadaaki: *See*—
Suzuki, Shigeru, Sugita, Koizumi, and Kanno. Re. 27,700.
Kartzmark, Robert: *See*—
Gilbert, John B., and Kartzmark. Re. 27,845.
Katagiri, Yoshiharu: *See*—
Yoshida, Susumu, Ohgushi, Miyauka, and Katagiri. Re. 27,751.
Kauffman, Harry D., to Cincinnati Milacron Inc. Method and apparatus for detecting and controlling through pulse energy variations arcing conditions in an EDM process. Re. 27,707, 7–24–73, Cl. 219—69.
Kawabata, Frederick Y., to Tektronix, Inc. Transmission line coupled tunnel diode pulse generator. Re. 27,803, 10–30–73, Cl. 307—258.
Keeton, Eugene G. Seed planter. Re. 27,578, 2–6–73. Cl. 221—219.
Kelly, Peter B., and G. E. Grosheim, to Formica Corp. Decorative laminate backcoated with a polyvinyl acetate. Re. 27,644, 5–29–73, Cl. 161—162.
Kelsey-Hayes Co.: *See*—
Ayers, David T., Jr. Re. 27,667.
Kelvinator, Inc.: *See*—
Guy, William R. Re. 27,545.
Kennametal Inc.: *See*—
Kniff, Thomas J. Re. 27,686.
Kennedy, Thomas E.: *See*—
Gondeck, Frederick V., Hickox, Kennedy, Perez, and Thompson. Re. 27,593.
Kibler, Charles J.: *See*—
Weissberger, Arnold, and Kibler. Re. 27,848.
Kim, Charles W., and S. D. Samluk, to Hercules Inc. Method for making yarn by fibrillation of ribbons of plastic material. Re. 27,727, 8–14–73, Cl. 225—3.
Kinkaird, Robert J., to AMP Inc. Panel connector with flag-type terminals. Re. 27,540, 1–9–73, Cl. 339—176.
Kirby, Kenneth W.: *See*—
Hjermstad, Erling T., Martin, and Kirby. Re. 27,581.
Kitchel, Fred L., to U.S. Steel Corp. Annealing furnace seal. Re. 27,543, 1–9–73, Cl. 263—40.



Klock, John W., to Research Corp. Method and apparatus for treating waste-containing liquor. Re. 27,721, 8–7–73, Cl. 210—14.
Knapsack Aktiengesellschaft: *See*—
Sennewald, Kurt, Vogt, Kandler, Sommerfeld, and Sorbe. Re. 27,718.
Kniff, Thomas J., to Kennametal Inc. Pick type mining bit and support block therefor. Re. 27,686, 6–26–73, Cl. 299—86.
Kobayashi, Hideya. Lightweight prestressed structural concrete member and method for manufacturing the same. Re. 27,785, 10–16–73, Cl. 52—228.
Koenen, Wilhelm E.: *See*—
Bentholm, Svend A. R., and Koenen. Re. 27,679.
Koizumi, Yutaka: *See*—
Suzuki, Shigeru, Sugita, Koizumi, and Kanno. Re. 27,700.
Kopaska, Larry A. Coupling device. Re. 27,635, 5–1–73, Cl. 137—614.5.
Koppe, Herbert, A. Engelhardt, G. Ludwig, and K. Zelle, to Boehringer Ingelheim GmbH. 1-substituted phenoxy 2-hydroxy-3-isopropylamino-propanes. Re. 27,822, 11–27–73, Cl. 260—485.
Kough, Blair B.: *See*—
Kough, John K. and B. B. Re. 27,574.
Kough, John K. and B. B., to Ditz-Crane. Blowback seal for building panels. Re. 27,574, 2–6–73, Cl. 52—541.
Kozlowski, Zbigniew: *See*—
Miler, Kazimierz, and Kozlowski. Re. 27,670.
Kressel, Henry, and F. Z. Hawrylo, to RCA Corporation. Semiconductor laser producing light at two wavelengths simultaneously. Re. 27,694, 7–3–73. Cl. 331—94.500.
Kronholm, Donald D., to Hyster Co. Tandem roller. Re. 27,840, 12–11–73, Cl. 404—122.
Kucera, Joseph B.: assignor of a fractional part interest to Rudolf L. Lowell. Machine and method for drying. Re. 27,573, 2–6–73, Cl. 34—20.
Kuhn, Jason G.: *See*—
Graf, Edward D., and Kuhn. Re. 27,630.
Kunststoffwerk Gebruder Anzer GmbH & Co.: *See*—
Muhlner, Karl, Jirka, and Gutlhuber. Re. 27,736.
Kureha Kagaku Kogyo Kabushiki Kaisha: *See*—
Otani, Sugio. Re. 27,794.
Kurtz, Leonard D.: *See*—
Shave, William H., and Kurtz. Re. 27,735.
Kurtz, Leonard D. Method of making softened fabrics. Re. 27,749, 9–11–73, Cl. 87—1.
Laane, Rein R., to Bell Telephone Laboratories, Inc. Electric communication switching network. Re. 27,798, 10–30–73, Cl. 179—18.
Landen, William J., to Eyelet Specialty Co. Bottle safety closure. Re. 27,673, 6–19–73, Cl. 215—9.
Laney, Neill M. Vehicular towed camping trailer. Re. 27,605, 3–20–73, Cl. 296—23 R.
Lang, Ernest U., to National-Standard Co. Automatic tire bead making apparatus. Re. 27,547, 1–16–73, Cl. 156—422.
Langley, John A., to Outboard Marine Corp. Marine propulsion device. Re. 27,826, 12–4–73, Cl. 74—385.
Lankford, Larry G.: *See*—
Bederman, Seymour, and Lankford. Re. 27,600.
Lapple, Charles E., to Donaldson Co. Centrifugal classifier. Re. 27,742. 8–28–73, Cl. 209—144.
Leasure, William C., and J. D. Andrews, to Mira-Pak, Inc. Package. Re. 27,838, 12–11–73, Cl. 229—17.
Ledoux, Pierre A., to Hunter Douglas International N.V. Heated or cooled ceiling or wall structures. Re. 27,827, 12–4–73, Cl. 165—54.
LeHovec, Kurt, to Inventors and Investors Inc. Photoelectric induced p-n junction devices. Re. 27,775, 10–9–73, Cl. 250—211.
Leimert, John. Method and apparatus for sealing film with high frequency electrical energy using a tapered edge sealing jaw. Re. 27,759, 9–18–73, Cl. 156—273.
Levenhagen, Alvin W., to North American Rockwell Corp. Nesting and stacking tray. Re. 27,649, 5–29–73, Cl. 220—97.
Lian, Kenneth T., to Hughes Aircraft Co. Sequential switching circuit breaker for high power AC or DC power transmission circuits. Re. 27,557, 1–23–73. Cl. 317—11.
Limantour, Julio. Tapered and grooved bobbin. Re. 27,811, 11–20–73. Cl. 242—118.310.
Lindh, Thorsten L.: *See*—
Rausing, Hans A., and Lindh. Re. 27,610.
Lipp, James P., to Honeywell Information Systems Inc. High density storage and retrieval system. Re. 27,812, 11–20–73, Cl. 340—172.500.
Little, Carl H.: *See*—
Phelps, Malcolm T., and Little. Re. 27,558.
Logan, Campbell F. Inflatable float boom. Re. 27,640, 5–8–73, Cl. 61—1.
Logestronics, Inc.: *See*—
Craig, Dwin R. Re. 27,817.
Long, Calvin L.: *See*—
Rusoff, Irving I., Ohan, and Long. Re. 27,790.
Lorenz, Howard A., R. H. Nagy, and I. Schousboe. Building systems. Re. 22,783, 10–16–73, Cl. 52—236.
Loughren, Arthur V. Controlled ink-jet copy-reproducing apparatus. Re. 27,555, 1–16–73, Cl. 178—5.20 R.
Louzos, Demetrios V., and G. W. Mellors, to Union Carbide Corp. Cathode material for solid state batteries. Re. 27,684, 6–19–73, Cl. 136—121.
Lowell, Rudolf L.: *See*—
Kucera, Joseph B. Re. 27,573.
Lubatti, Eugenio, and S. Pappalardo, to Montecatini Edison S.p.A. Production of boron nitride. Re. 27,608, 4–3–73, Cl. 423—290.
Lubrizol Corp. The: *See*—
Jennings, Thomas C. Re. 27,722.
Mack-Wayne Plastics Co.: *See*—
McIntosh, James A. Re. 27,837.
MacManus, John. Method and apparatus for decorating pastry and the like. Re. 27,780, 10–9–73, Cl. 99—92.
Magnavox Co., The: *See*—
Nelson, Alfred M. Re. 27,685.
Maier, Richard J.: *See*—
Carmichael, Thomas F., and Maier. Re. 27,704.
Majumdar, Binay B.: *See*—
Thompson, Brian H., and Majumdar. Re. 27,599.
Marchant, Keith, and D. Sen, to Monsanto Chemicals Ltd. Extrusion of resins. T912,003, 7–10–73, Cl. 264—51.
Maricle, Donald L., and A. K. Hoffmann, to American Cynamid Co. Nonaqueous electro-chemical current producing cell having soluble cathode depolarizer. Re. 27,835, 12–11–73, Cl. 136—6.
Martel, Jacques, C. Huynh, E. Toromanoff, and G. Nomine, to Roussell, UCLAF. Process for the preparation of trans-chrysanthemumic acid. Re. 27,592, 3–6–73, Cl. 260—464.
Martin, Donald N., to Beckman Instruments, Inc. Automated incubation apparatus. Re. 27,756, 9–11–73, Cl. 23—253.
Martin, Larry C.: *See*—
Hjermstad, Erling T., Martin, and Kirby. Re. 27,581.
Martin Processing Co., Inc.: *See*—
Hermes, Julius. Re. 27,773.
Martini, William R.: *See*—
Baumgardner, Arthur R., Johnston, and Martini. Re. 27,567.
Massey-Ferguson Ltd.: *See*—
Ashton, Robert, Gullickson, and Butler. Re. 27,554.
Matsuoka, Tohru, and H. Horigome, to Nippon Electric Co. Broadband coupled cavity slow-wave structure. Re. 27,708, 7–24–73, Cl. 333—31.
Matt, Richard J.: *See*—
Potter, Howell L., Matt, and Restelli. Re. 27,778.
Mayauka, Senri: *See*—
Yoshida, Susumu, Ohgushi, Miyauka, and Katagiri. Re. 27,751.
Mayo, George L., by Clary Corp. Door finishing machine. Re. 27,760, 9–18–73, Cl. 144—3.
McCarthy, John P.: *See*—
Daniels, Charles K., and McCarthy. Re. 27,750.
McDonnell Douglas Corp.: *See*—
Baumgardner, Arthur R., Johnston, and Martini. Re. 27,567.
McDonnell, Edward: *See*—
Fain, Jacob M., and McDonnell. Re. 27,601.
McGraw-Edison, Co.: *See*—
Botefuhr, Harold R. Re. 27,565.
Fister, Aloysiur J. Re. 27, 802.
Stewart, Victor E., Jr. Re. 27,723.
McIntosh, James A., to Mack-Wayne Plastics Co. Plastic safety closure. Re. 27,837, 12–11–73, Cl. 215—9.
McIntosh, Richard F., to Clark Equipment Co. Triple stage upright for lift truck. Re. 27,731, 8–14–73, Cl. 187—9.
McIntyre, Maurice J., and D. G. Rennie, to Skagit Corp. Log yarding system. Re. 27,621, 4–17–73, Cl. 212—84.
McKee, Edward S., to Eastman Kodak Co. Reel for cartridge-loading motion picture projectors. Re. 27,719, 8–7–73, Cl. 242—71.8.
McKellar, Archie C.: *See*—
Bennett, Brian T., and McKellar. T912,008.
McNair, Irving M., Jr., to Bell Telephone Laboratories, Inc. Polarity sensitive voltage insertion circuit for long subscriber loops. Re. 27,680, 6–19–73, Cl. 179—16.
Medtronic, Inc.: *See*—
Bolduc, Lee R., and Schwoboda. Re. 27,661.
Mirowski, Mieczyslaw, Mower, and Staewen. Re. 27,652.
Mehl, Henry T.: *See*—
Brannon, Timothy L., Mehl, and Zick. T912,006.
Melges, Frederick J. Non-woven surgical shield or cover member. Re. 27,710, 7–24–73, Cl. 128—132.
Mellors, Geoffrey W.: *See*—
Louzos, Demetrios V., and Mellors. Re. 27,684.
Metals Engineering Co.: *See*—
Hood, Stanley R., and Truitt. Re. 27,664.
Michelson, Yigal. Power ladder. Re. 27,808, 11–13–73, Cl. 182—14.
Microdot Inc.: *See*—
Munse, Robert A. Re. 27,591.
Mignore, Albert E., deceased, by Addressograph-Multigraph Corp., assignee. Master making and duplicating machine. Re. 27,613, 4–3–73, Cl. 101—132.5.
Miklarz, Manfred, to Stubbe Maschinenfabrik GmbH. Control device for initiating the injecting process of injection molding machines. Re. 27,590, 3–6–73, Cl. 425—149.
Miler, Kazimierz, and Z. Kozlowski, to Instytut Premsyslu Miesnego. Method for producing a smoke-preparation. Re. 27,670, 6–12–73, Cl. 99—229.
Miller, John M.: *See*—
Weaver, Richard S., Miller, and Slavin. Re. 27,699.
Miller, Lewis S., to Weyerhaeuser Co. Process of curing polymerizable resins having terminal vinyl ester groups using high energy electrons. Re. 27,656, 6–5–73, Cl. 117—93.31.



Millican, Joel C. Suspension system for automobiles. Re.



Ohgushi, Akio: *See*—

Millican, Joel C. Suspension system for automobiles. Re. 27,623, 4–17–73, Cl. 280—124.

Minnesota Mining and Mfg. Co.: *See*—
Johnson James R. Re. 27,747.
Olsen, Frederick O. Re. 27,617.

Mira-Pak, Inc.: *See*—
Leasure, William C., and Andrews. Re. 27,838.

Mirowski, Mieczyslaw, M. M. Mower, and W. S. Staewen, to Medtronic, Inc. Electronic standby defibrillator. Re. 27,652, 5–29–73, Cl. 128—419.

Mirowski, Mieczyslaw. Standby defibrillator and method of operation. Re. 27,757, 9–11–73, Cl. 128—419.

Miscellaneous Mfg. Corp.: *See*—
Attaway, Julian J. Re. 27,761.

Mita, Yob, to Nippon Electric Co., Ltd. Light scanning device utilizing piezoelectric semiconductor material. Re. 27,737, 8–21–73, Cl. 250—211.

Mitchell, John E., Co.: *See*—
Olson, John W., Jr. Re. 27,844.

Mobil Oil Corp.: *See*—
Brooks, Warren B., Baker, and Jones. Re. 27,745.

Moen, Alfred M. Tub diverter spout. Re. 27,819, 11–27–73, Cl. 4—148.

Moen, Lenard E.: *See*—
Roesner, Lawrence C., and Moen. Re. 27,825.

Mongerson, Paul A., and J. E. Ellison, to Stanadyne, Inc. Bathtub combination plumbing fixture. Re. 27,655, 6–5–73, Cl. 4—191.

Monsanto Chemicals Ltd.: *See*—
Marchant, Keith, and Sen. T912,003.

Montecatini Edison S.p.A.: *See*—
Ballini, Giuliano, and Bujtar. Re. 27,843.
Lubatti, Eugenio, and Pappalardo. Re. 27,608.

Moore, Walter C.: *See*—
Harlin, Lester E., and Moore. Re. 27,691.

Morehouse, Edward L., to Union Carbide Corp. Siloxane-oxyalkylene copolymer foam stabilizers. Re. 27,541, 1–9–73, Cl. 260—448.2.

Morrison, Robert F., and R. D. Joy. System for converting continuous filament tow into staple. Re. 27,764, 10–2–73, Cl. 19.6.

Motorola, Inc.: *See*—
Buehrle, William B. Re. 27,810.
Schafft, Hugo W. Re. 27,693.
Treadway, Ronald L. Re. 27,804.
Walsh, Raymond I. Re. 27,777.

Mower, Morton M.: *See*—
Mirowski, Mieczyslaw, Mower, and Staewen. Re. 27,652.

Muhlner, Karl, K. Jirka, and J. Gutlhuber, to Kunststoffwerk Gebruder Anzer GmbH & Co. Method of shaping the end of a pip of thermoplastic material into a bell. Re. 27,736. 8–21–73, Cl. 29—423.

Mulligan, William G.: *See*—
Fain, Jacob M., and McDonnell. Re. 27,601.

Munse, Robert A., to Microdot Inc. Tool for assembling spring metal C-clips to panels. Re. 27,591, 3–6–73, Cl. 29—225.

Murphy, G. W., Industries, Inc.: *See*—
Hickernell, James L. Re. 27,752.

Myers, Joseph D. Process and apparatus for collection of metal containers. Re. 27,643, 5–8–73, Cl. 194—4.

Nagy, Robert H.: *See*—
Lorenz, Howard A., Nagy, and Schousboe. Re. 27,783.

National-Standard Co.: *See*—
Lang, Ernest U. Re. 27,547.

Nelson, Alfred M., to The Magnavox Co. Double transfer curie-point and magnetic bias tape copy system. Re. 27,685, 6–26–73, Cl. 179—100.2.

Newton, Albert E., and P. G. Rumball, to USM Corp. Fire explosive tools. Re. 27,628, 5–1–73, Cl. 227—8.

Niblock, William J., to Quelq Ltd. Analogue computer for linear programming. Re. 27,672, 6–12–73, Cl. 235—180.

Nippon Electric Co., Ltd.: *See*—
Honma, Takamichi, Tushitsuna, and Aoki. Re. 27,738.
Matsuoka, Tohru, and Horigome. Re. 27,708.
Mita, Yoh. Re. 27,737.

Nippon Koyaku, K. K.: *See*—
Iida, Yuzo. Re. 27,741.
Shimizu, Yoshiyuki. Re. 27,799.

Niven, William W., Jr., deceased, by Jack M. Campbell, administrator, to The Folger Coffee Co. Method of processing coffee. Re. 27,841, 12–18–73, Cl. 99—71.

Nomine, Gerard: *See*—
Martel, Jacques, Huynh, Toromanoff, and Nomine. Re. 27,592.

North American Rockwell Corp.: *See*—
Atkinson, James L. Re. 27,660.
Levenhagen, Alvin W. Re. 27,649.

Nortsrud, Iven R., and J. H. Threlkeld, to Britt Tech Corp. Cleaning apparatus with relief control valve. Re. 27,855, 12–25–73, Cl. 239—126.

Nylonge Corp.: *See*—
Politzer, Alfred, Alibeckoff, and Wang. Re. 27,820.

O. K. Partnership: *See*—
Parry, Robert D. Re. 27,762.

Ochiai, Chiaki, and T. Fujii, to Aisin Seiki Kabushiki Kaisha. Master cylinder for hydraulic braking system. Re. 27,784, 10–16–73, Cl. 60—54.60.

Ogle, Paul E.: *See*—
Brown, Neuberne H., Jr., Butler, Carter, Ferik, and Ogle. Re. 27,615.

Ohan, William J.: *See*—
Rusoff, Irving I., Ohan, and Long. Re. 27,790.

Ohgushi, Akio: *See*—
Yoshida, Susumu, Ohgushi, Miyauka, and Katagiri. Re. 27,751.

Olivetti, Ing. C., & C., S.p.A.: *See*—
Perucca, Vincenzo. Re. 27,542.

Olsen, Frederick O., to Minnesota Mining and Manufacturing Co. Louvered transparent sheeting made by skiving. Re. 27,617, 4–17–73, Cl. 161—6.

Olson, John W., Jr., to John E. Mitchell, Co. Compressor unit with self-contained drive means. Re. 27,844, 12–18–73, Cl. 417—269.

Orlomoski, Roger W., to Reed Rolled Thread Die Co. Self-locking screws. Re. 27,678, 6–19–73, Cl. 151—22.

Orrtronico Inc.: *See*—
Cousino, Ralph E. Re. 27,584.

Oskam, Aane A., to Technische Industrie A. C. Koot N.V. Electric adjusting means for azimuth and elevation adjustment. Re. 27,653, 5–29–73, Cl. 350—289.

Otani, Sugio, to Kureha Kagaku Kogyo Kabushiki Kaisha. Heat treatment of molten carbonaceous material prior to its conversion to carbon fibers and other shapes. Re. 27,794, 10–30–73, Cl. 264—29.

Outboard Marine Corp.: *See*—
Langley, John A. Re. 27,826.

Owens, John E., and W. R. Vieth, to E. I. du Pont de Nemours and Co. Process for quenching extruded polymeric film. Re. 27,771, 10–2–73, Cl. 264—22.

PPG Industries, Inc.: *See*—
Cypher, James H. Re. 27,634.

Pacciarini, Antonio, and D. Giletta, by Industries Pirelli S.p.A. Method of printing an embossed pattern along the peripheral band of a toroidal article. Re. 27,675, 6–19–73, Cl. 264—94.

Paliyenko, Paul, and H. W. Coates, to Celanese Corp. Treating vehicle for polyester filamentary material and method of improving the properties of such material. Re. 27,587, 2–27–73, Cl. 260—29.20.

Pappalardo, Salvatore: *See*—
Lubatti, Eugenio, and Pappalardo. Re. 27,608.

Park, Robert H., to Fast Load Control, Inc. Methods of improving the stability of interconnected power systems. Re. 27,842, 12–18–73, Cl. 307—52.

Parry, Margaret G.: *See*—
Parry, Robert D. Re. 27,762.

Parry, Robert D., deceased, by Parry, Margaret G., executrix, to O. K. Partnership. Article selection system. Re. 27,762, 9–18–73, Cl. 209—80.5.

Paul, Gerard T.: *See*—
Stafford, Thomas S., Burnstine, Paul, and Rogaski. Re. 27,703.

Pedersen, Carl. Apparatus for measuring the speed of an automobile. Re. 27,739, 8–21–73, Cl. 95—36.

Peerman, Dwight E., L. R. Vertnik, E. R. Rogier, to General Mills, Inc. Metallic structures. Re. 27,748, 9–11–73, Cl. 220—81.

Penick & Ford, Ltd.: *See*—
Hjermstad, Erling T., Martin, and Kirby. Re. 27,581.

Perez, Arthur: *See*—
Gondeck, Frederick V., Hickox, Kennedy, Perez, and Thompson. Re. 27,593.

Perucca, Vincenzo, to Ing. C. Olivetti & C., S.p.A. High speed serial printing device for teleprinters, accounting machines and data processing equipment. Re. 27,542, 1–9–73, Cl. 101—93.

Petersen, Ronald C.: *See*—
Goordman, Robert V., and Petersen. Re. 27,730.

Petranek, David J., to The Trane Co. Dual powered refrigeration system. Re. 27,702, 7–17–73, Cl. 62—236.

Phelon, R. E., Co., Inc.: *See*—
Piteo, Michael J. Re. 27,638.

Phelps, Malcolm T., and C. H. Little, to Weber-Knapp Co. Platform elevation control mechanism. Re. 27–558, 1–23–73, Cl. 312—272.

Piteo, Michael J., to R. E. Phelon Co., Inc. Alternator rectifier and voltage regulator. Re. 27,638, 5–8–73, Cl. 321—18.

Pitney-Bowes, Inc.: *See*—
Hanson, Walter J. Re. 27,814.

Plackett, Anthony G. Engine cooling and passenger compartment heating apparatus for motor vehicles. Re. 27,632, 5–1–73, Cl. 237—2.

Polaroid Corp.: *See*—
Chen, Richard J. Re. 27,795.

Politzer, Alfred, G. A. Alibeckoff, and P. C. Wang, to Nylonge Corp. Water absorbent web and its production. Re. 27,820, 11–27–73, Cl. 156—78.

Porter, H. K., Co., Inc.: *See*—
Weston, Donald E. Re. 27,625.

Porter, Wellington W. Pickling cucumber harvester, Re. 27,715, 7–31–73, Cl. 56—327.

Post, Donald P., to Structomatic, Inc. Roof truss forming machine. Re. 27,692, 7–3–73, Cl. 100—100.

Postolowski, John. Devices for dispensing tinsel and the like adaptable for decorating Christmas trees. Re. 27,585, 2–27–73, Cl. 83—225.

Potter, Howell L., R. J. Matt, and R. E. Restelli, to Textron, Inc. Spherical bearing and method of making the same. Re. 27,778, 10–9–73, Cl. 308—72.

Power, Gerard, to Insto-Gas Corp. Tip-over shut-off for gas heaters. Re. 27,594, 3–6–73, Cl. 126—8.

Precision Metalsmiths, Inc.: *See*—
Watts, Claude H., and Benthimer. Re. 27,586.





Precision Produce Specialties Inc., and 36¼ to Calavo Growers of Calif.: *See*—
Roesner, Lawrence C., and Moen. Re. 27,825.

Pretzer, Wolfgang: *See*—
Ribka, Joachim, and Pretzer. Re. 27,575.

Qeleq Ltd.: *See*—
Niblock, William J. Re. 27,672.

Quartz & Silice, S.A.: *See*—
Achener, Claude. Re. 27,560.

RCA Corporation: *See*—
Burrus, Thomas W. Re. 27,793.
Kressel, Henry, and Hawrylo. Re. 27,694.
Warren, Henry R. Re. 27,734.
Wen, Cheng P. Re. 27,755.
Werst, Joseph L. Re. 27,698.

Rausing, Hans A., and T. L. Lindh. Packaging material including at least three lamination layers of materials having different viscosities, and a package produced therefrom. Re. 27,610, 4–3–73, Cl. 161—166.

Rawlins, Charles B.: *See*—
Baker, Mark A., and Rawlins. Re. 27,805.

Rawlings, Richard F., and G. E. Austin; said Austin assignor to said Rawlings. Shell stringer apparatus. Re. 27,577, 2–6–73, Cl. 83—95.

Rawson, Edward B., D. B. Schwarzkopf, J. B. Ferguson, and J. H. Ball, to Searle Medidata Inc. Multiphasic medical screening system. Re. 27,580, 2–6–73, Cl. 340—172.5.

Reed Rolled Thread Die Co.: *See*—
Orlomoski, Roger W. Re. 27,678.

Rehmsmeier, Friedrich: *See*—
Hofer, Heinz K., and Rehmsmeier. Re. 27,607.

Reinhart, Norman E.: *See*—
Ruppel, Donald B., Reinhart, and Stalker. Re. 27,612.

Reliance Electric Co.: *See*—
Wolfe, Robert L., and Trebnik. Re. 27,659.

Rennie, David G.: *See*—
McIntyre, Maurice J., and Rennie. Re. 27,621.

Research Corp.: *See*—
Klock, John W. Re. 27,721.

Restelli, Ronald E.: *See*—
Potter, Howell L., Matt, and Restelli. Re. 27,778.

Ribka, Joachim, and W. Pretzer, to Farbewerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Water-insoluble benzimidazolone containing monoazo dyestuffs. Re. 27,575, 2–6–73, Cl. 260—157.

Ribka, Joachim, to Farbewerke Hoechst Aktiengesellschaft vormals Meister Lucius & Bruning. Water-insoluble benzimidazolone containing monoazo dyestuffs. Re. 27,576, 2–6–73, Cl. 260—157.

Ring, Wallace H.: *See*—
Sorenson, James L., and Ring. Re. 27,797.

Roach, William J. Pipetting system. Re. 27,637, 5–8–73, Cl. 73—425.6.

Robbins, Max L.: *See*—
Kahn, Donald J., Robbins and Furer. Re. 27,582.

Robeson, Harold J. Robbery protection system and device for temporarily disabling a robber and visibly marking his location. Re. 27,618, 4–17–73, Cl. 340—224.

Robinson, John E.: *See*—
Drummond, Michael E., and Robinson. Re. 27,645.

Rocket, James D., to Illinois Tool Works Inc. Cord type container carrier. Re. 27,705, 7–24–73, Cl. 206—65.

Rodman, John F., Jr.: *See*—
Roinestad, Gerald C., Rodman, and Burnett. Re. 27,690.

Roesner, Lawrence C., and L. E. Moen, to Precision Produce Specialties Inc., and 36¼ to Calavo Growers of Calif. Bottom sealing machine. Re. 27,825, 12–4–73, Cl. 93—55.

Rofe, Edward H. Flat path extractor. Re. 27,754, 9–11–73, Cl. 214—1.0.

Rogaski, John R.: *See*—
Stafford, Thomas S., Burnstine, Paul, and Rogaski. Re. 27,703.

Rogier, Edgar R.: *See*—
Peerman, Dwight E., Vertnik, and Rogier. Re. 27,748.

Roinestad, Gerald C., J. F. Rodman, and J. S. Burnett, to Ashworth Bros. Inc. Flat wire conveyor belt having slotted bar links. Re. 27,690, 7–3–73. Cl. 198—193.

Roosa, Vernon D., to Stanadyne, Inc. Fuel pump. Re. 27,563, 1–23–73, Cl. 417—462.

Rosenblatt, Naftali W., to E. I. du Pont de Nemours and Co. Flow dividers in membrane permeation separation apparatus. T912,007, 7–10–73, Cl. 210—23.

Roth, Wilfred. Detection apparatus. Re. 27,786, 10–16–73, Cl. 340—3.

Roussell, UCLAF: *See*—
Martel, Jacques, Huynh, Toromanoff, and Nomine. Re. 27,592.

Rozanski, Henry A. Swimming pool coping and deck construction. Re. 27,669, 6–12–73, Cl. 52—169.

Rubin, Richard J. Cart storage assembly. Re. 27,683, 6–19–73, Cl. 280—33.990.

Rumball, Paul G.: *See*—
Newton, Albert E., and Rumball. Re. 27,628.

Runnion, Ernest E.: *See*—
Chapman, Frederick F., and Hill. Re. 27,654.

Ruppel, Donald B., N. E. Reinhart, and L. F. Stalker, to The B. F. Goodrich Company. Jet spray tank cleaner. Re. 27,612, 4–3–73, Cl. 239—227.

Rusoff, Irving I., W. J. Ohan, and C. L. Long, to General Foods Corp. Protein food product and process. Re. 27,790, 10–16–73, Cl. 99—14.

Sahyun, Melville: *See*—
Faust, John A., and Sahyun. Re. 27,551.

Salomon, Jacob. Apparatus for arranging substantially laminar articles into spaced groups. Re. 27,765, 10–2–73, Cl. 198—180.

Salonen, Albert R. Applicator for dispensing a molten material. Re. 27,828, 12–4–73, Cl. 222—146.

Samluk, Stanley D.: *See*—
Kim, Charles W., and Samluk. Re. 27,727.

Sanchez, Molses G.: *See*—
Barrett, Wayne T., Sanchez, and Vanik. Re. 27,697.

Sanders Associates, Inc.: *See*—
Byers, James O. Re. 27,758.

Santilli, Ermanno. Annular saw with circular safety guard. Re. 27,716, 8–7–73. Cl. 30—389.

Sapin, Roy C. Key cutting machine. Re. 27,665, 6–12–73, Cl. 90—95.

Scaramucci, Domer, to Balon Corp. Ball valve for use between flanges. Re. 27,570, 2–6–73, Cl. 251—151.

Schafft, Hugo W., to Motorola, Inc. Variable piezoelectric delay line. Re. 27,693, 7–3–73, Cl. 333—30.

Schechter, Edward, to Stressteel Corp. Method of processing stressed steel members. Re. 27,821, 11–27–73, Cl. 148—12.

Schindler, Walter, and H. Blattner, to Ciba-Geigy Corp. 5H-Dibenz(b,f)azepine derivatives. Re. 27,622, 4–17–73, Cl. 260—239.

Schmidt, Donald L., and R. Hellmann. Aluminum plating process. Re. 27,606, 4–3–73, Cl. 117—37.

Schmidt, Hans-Joachim: *See*—
Fernholz, Hans, Schmidt, and Wunder. Re. 27,663.

Schneider, Stanley, and R. M. Tillman, to Burroughs Corp. Electromagnetic transducers. Re. 27,801, 10–30–73, Cl. 340—174.

Schnell, Hermann, L. Bottenbruch, K. Weirauch, W. Hechelhammer, H. Streib, and G. Fritz, to Bayer Aktiengesellschaft. Process for the production of thermoplastic polycarbonates. Re. 27,682, 6–19–73, Cl. 260—47.

Schoepflin, Charles F. Fluid level gauge assembly. Re. 27,767, 10–2–73, Cl. 73—318.

Schoerner, Roger J., to Southwire Co. Multifilament conductor. Re. 27,830, 12–4–73, Cl. 174—128.

Schoerner, Roger J., to Southwire Co. Solid insulated conductor. Re. 27,832, 12–4–73, Cl. 174—110.

Schoerner, Roger J., to Southwire Co. Insulated telephone cable. Re. 27,854, 12–25–73, Cl. 174—113.

Schousboe, Ingvar: *See*—
Lorenz, Howard A., Nagy, and Schousboe. Re. 27,783.

Schultz, Betty J.: *See*—
Bouricius, Willard G., and Schultz. T912,004.

Schuman, Mark. Oscillating free piston pump. Re. 27,740, 8–21–73, Cl. 417—207.

Schwab, Milton I.: *See*—
Spitz, Albert W., and Schwab. Re. 27,548.

Schwander, Hans R., A. Zenhausern, and P. Hindermann, to Ciba-Geigy AG. Sulfonated 1-alkylamino-4-tolylaminoanthraquinones. Re. 27,800, 10–30–73, Cl. 260—374.

Schwarzkopf, Daniel B.: *See*—
Rawson, Edward B., Schwarzkopf, Ferguson, and Ball. Re. 27,580.

Schwoboda, George F.: *See*—
Bolduc, Lee R., and Schwobŏda. Re. 27,661.

Seaman, Wendell L.: *See*—
Etter, William A., and Seaman. Re. 27,564.

Searle Medidata Inc.: *See*—
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Sedley, Bruce S., to Greer Hydraulics, Inc. Magnetically operated mechanism and magnetic card. Re. 27,753, 9–11–73, Cl. 70—276.

Sen, Durgacharan: *See*—
Marchant, Keith, and Sen. T912,003.

Sennewald, Kurt, W. Vogt, J. Kandler, R. Sommerfeld, and G. Sorbe, to Knapsack Aktiengesellschaft. Process for preparing unsaturated nitriles. Re. 27,718, 8–7–73, Cl. 260—465.3.

Shave, William H., and L. D. Kurtz, to Deknatel, Inc. Method for attaching suture needle. Re. 27,735, 8–14–73, Cl. 29—515.

Shell Oil Co.: *See*—
Bolger, Leonard F. Re. 27,831.

Sherwood Products Corp.: *See*—
Carmichael, Thomas and Howard. Re. 27,833.

Shimizu, Yoshiyuki, to Nippon Kogaku K.K. Retrofocus-type wide-angle camera lens. Re. 7,799, 10–30–73, Cl. 350—214.

Shionogi & Co. Ltd.: *See*—
Tanida, Hiroshi, and Tsuji. Re. 27,629.

Siegel, Lester A., to American Cyanamid Co. Coded ink recording and reading. Re. 27,770, 10–2–73, Cl. 235—61.11.

Simons, Edward W., to Dualjet Corp. Air conditioned display compartment and method. Re. 27,566, 1–23–73, Cl. 62—89.

Skagit Corp.: *See*—
McIntyre, Maurice J., and Rennie. Re. 27,621.

Slavin, Michael: *See*—
Weaver, Richard S., Miller, and Slavin. Re. 27,699.

Smith International, Inc.: *See*—
Garrett, William R. Re. 27,781.

Smith, Joseph E., to Wolverine-Pentronix, Inc. Powder compacting press. Re. 27,562, 1–23–73, Cl. 425—78.

Snell, Foster Dee: *See*—
Fain, Jacob M., and McDonnell. Re. 27,601.





Societe Franco-Hispano-Americaine Francispam: *See*—
Hocq, Robert R. Re. 27,546.

Talbert, Milton L., to Dresser Industries, Inc. Large-diameter earth boring bit. Re. 27,597, 3–13–73, Cl. 175—334.

Societe Franco-Hispano-Americaine Francispam: *See*—
Hocq, Robert R. Re. 27,546.
Societe Richier: *See*—
Fauchere, Jean: Re. 27,763.
Solbern Corp.: *See*—
Eisenberg, Bernard C. Re. 27,852.
Soltz, Daniel J., and H. L. Greer, to Honeywell Inc. pH detecting device using temperature-compensating field-effect transistor differential amplifier. Re. 27,668, 6–12–73, Cl. 330—30.
Song, John S. Easily openable sealed plastic closure and methods. Re. 27,611, 4–3–73, Cl. 220—27.
Sony Corp.: *See*—
Yoshida, Susumu, Ohgushi, Miyauka, and Katagiri. Re. 27,751.
Sorbe, Gunter: *See*—
Sennewald, Kurt, Vogt, Kandler, Sommerfeld, and Sorbe, Re. 27,718.
Sorenson, James L., and W. H. Ring, to Wallace H. Ring. Catheter placement unit. Re. 27,797, 10–30–73, Cl. 128—214.4.
Soteropulos, Gust, and T. M. Barnes, by Deere and Co. Bale thrower. Re. 27,657, 6–5–73, Cl. 214—42.
Soto, Angelo: *See*—
Diaz, Raul R. Re. 27,616.
Southwire Co.: *See*—
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Schoerner, Roger J. Re. 27,832.
Schoerner, Roger J. Re. 27,854.
Soyez Freres: *See*—
Soyez, Roger. Re. 27,807.
Soyez, Roger, to Soyez Freres. Machine for producing toothpicks. Re. 27,807, 11–13–73, Cl. 83—119.
Speese, Donald V., and C. B. Brown, to Ciba-Geigy Corp. Quenching the fluorescence of optical brightener compounds in paper by means of hydroxymethylamino nitrile. Re. 27,687, 6–26–73, Cl. 162—158.
Sperry Rand Corp.: *See*—
Becker, Kenneth F., Taylor, and Zoya. Re. 27,712.
Spitz, Albert W., and M. I. Schwab, to Trio Process Corp. Method of refining copper. Re. 27,548, 1–16–73, Cl. 75—73.
Staewen, William S.: *See*—
Mirowski, Mieczyslaw, Mower, and Staewen. Re. 27,652.
Stafford, Larry O., to Beloit Corp. Apparatus for casting multi-layer composite film. Re. 27,769, 10–2–73, Cl. 425—131.
Stafford, Thomas S., D. C. Burnstine, G. T. Paul, and J. R. Rogaski, to International Business Machines Corp. Configuration control in multiprocessors. Re. 27,703, 7–24–73, Cl. 340—172.5.
Stair, Eugene V. Mower cutting device. Re. 27,647, 5–29–73, Cl. 56—295.
Stalker, Lee F.: *See*—
Ruppel, Donald B., Reinhart, and Stalker. Re. 27,612.
Stanadyne, Inc.: *See*—
Mongerson, Paul A., and Ellison. Re. 27,655.
Roosa, Vernon D. Re. 27,563.
Stankavich, Anthony J., to Carrier Corp. Process of Producing an electrical resistor. Re. 27,603, 3–20–73, Cl. 117—227.
Stec, Frederick J., to Continental Can Co., Inc. Score shield and anti-implosion ring. Re. 27,796, 10–30–73, Cl. 220—54.
Steibel, James P., to The Dumore Co. Controllable motion and force converter. Re. 27,711, 7–31–73, Cl. 74—25.
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Stewart, Victor E., Jr., to McGraw-Edison Co. Radiation sensitive position encoder using coded discs. Re. 27,723, 8–7–73, Cl. 250—219.
Story, William E., to East Tennessee Packing Co. Method and apparatus for transferring articles. Re. 27,816, 11–27–73, Cl. 198—31.
Strathearn, Donald M., J. M. Thornbery, and D. F. Willcox, to Controls Company of America. Timer. Re. 27,609, 4–3–73, Cl. 307—141.
Streib, Hugo: *See*—
Schnell, Hermann, Bottenbruch, Weirauch, Hechelhammer, Streib, and Fritz. Re. 27,682.
Stressteel Corp.: *See*—
Schechter, Edward. Re. 27,821.
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Stubbe Maschinenfabrik G.m.b.H.: *See*—
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Miklarz, Manfred. Re. 27,590.
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Clauson, Arthur D. Re. 27,713.
Sussman, Martin V.: *See*—
Breen, Alvin L., and Sussman. Re. 27,717.
Suzuki, Shigeru, K. Sugita, Y. Koizumi, and T. Kanno, to Kabushiki Kaisha Ricoh. Electrophotographic duplicator. Re. 27,700, 7–17–73, Cl. 355—13.
Swanson, Emery C.: *See*—
Dienst, Carl S., and Attebery. Re. 27,806.
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Talbert, Milton L., to Dresser Industries, Inc. Large-diameter earth boring bit. Re. 27,597, 3–13–73, Cl. 175—334.
Tanczyn, Harry, to Armco Steel Corp. Stainless steel. Re. 27,671, 6–12–73, Cl. 75—126.
Tanida, Hiroshi, and T. Tsuji, to Shionogi & Co. Ltd. Triazoline derivatives. Re. 27,629, 5–1–73, Cl. 260—308.
Taylor, Le Roy D.: *See*—
Becker, Kenneth F., Taylor, and Zoya. Re. 27,712.
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Oskam, Aane A. Re. 27,653.
Tektronix, Inc.: *See*—
Kawabata, Frederick Y. Re. 27,803.
Textron, Inc.: *See*—
Erickson, Albin R. Re. 27,676.
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Winkler, Friedrich, and Thate. Re. 27,839.
Thomas, Owen H., T. A. Beck, and R. F. Wickman, to Atlantic Richfield Co. Moving bed process using sieve catalyst to make xylenes by toluene disproportionation and transalkylation with $C_9$–$C_{10}$ alkylbenzenes. Re. 27,639, 5–8–73, Cl. 260—672.
Thompson, Brian H., and B. B. Majamdar, to The Gas Council. Process for the production of a gas containing gaseous hydrocarbons. Re. 27,599, 3–13–73, Cl. 48—213.
Thompson, Harold K.: *See*—
Andrews, Raymond J., Fields, and Thompson. Re. 27,782.
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Tillman, Cassius L. Gate valve. Re. 27,789, 10–16–73, Cl. 251—327.
Tillman, Robert M.: *See*—
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Travis, Lawrence R., to AMP Inc. Flat cable process. Re. 27,658, 6–5–73, Cl. 29—624.
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Trebnik, Augustine: *See*—
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Dean, Duff L., and Balliet. Re. 27,589.
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Hood, Stanley R., and Truitt. Re. 27,664.
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Vertnik, Leonard R.: *See*—
Peerman, Dwight E., Vertnik, and Rogier. Re. 27,748.
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Sennewald, Kurt, Vogt, Kandler, Sommerfeld, and Sorbe. Re. 27,718.
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Walsh, Raymond I., to Motorola, Inc. Tuner mechanism. Re. 27,777, 10–9–73, Cl. 334—7.
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Warren, Henry R., to RCA Corp. Wide band recording and reproducing system. Re. 27,734, 8–14–73, Cl. 178—6.60.
Watts, Claude H., and F. D. Benthimer, to Precision Metalsmiths, Inc. Apparatus for forming ceramic shell molds. Re. 27,586, 2–27–73, Cl. 164—165.
Watts, Glen Armon. Two-way plow with synchronized guided tail wheel. Re. 27,850, 12–25–73, Cl. 172—212.
Weaver, Richard S., J. M. Miller, and M. Slavin, to The Bendix Corp. Control system for automobile air conditioners. Re. 27,699, 7–17–73, Cl. 165—23.
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Weitbrecht, Robert H. Re. 27,595.
Weitbrecht, Robert H., to R. H. Weitbrecht Co. Frequency-shift teletypewriter. Re. 27,595, 3–6–73, Cl. 178—66.
Wen, Cheng P., to RCA Corp. Surface strip transmission line and microwave devices using same. Re. 27,755, 9–11–73, Cl. 333—24.100.
Wendland, Paul H., to Hughes Aircraft Co. Image transducing system employing reverse biased junction diodes. Re. 27,559, 1–23–73, Cl. 315—10.
Wendt, David W. Motorbike. Re. 27,788, 10–16–73, Cl. 180—33.
Werner, Alfred J., to E. I. du Pont de Nemours and Co. Titanium dioxide pigment coated with silica and alumina. Re. 27,818, 11–27–73, Cl. 106—300.
Werst, Joseph L., to RCA Corp. Ganged ring magnets for coordinated control of a plurality of beams. Re. 27,698, 7–17–73, Cl. 335—212.
West, Terence H.: *See*—
Billett, Ronald J., and West. Re. 27,744.
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Hanfmann, Alexander M. Re. 27,772.
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Wright, William E. Re. 27,598.
Weston, Donald E., to H. K. Porter, Co., Inc. Isolating circuit breaker. Re. 27,625, 4–17–73, Cl. 200—48.
Weyerhaeuser Co.: *See*—
Miller, Lewis S. Re. 27,656.
White, Donald C.: *See*—
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Anderson, Eldon L., Jr., to General Electric Co. Floodlight. 226,534, 3–20–73, Cl. D48—20 K.
Anderson, Eldon L., Jr., to General Electric Co. Luminaire. 226,535, 3–20–73, Cl. D48—31.
Anderson, Eldon L., Jr., to General Electric Co. Luminaire. 228,667, 10–16–73, Cl. 48—31.
Anderson, Eldon L., Jr., to General Electric Co. Liminaire. 229,090, 11–6–73, Cl. D48—23.
Anderson, Elizabeth A.: *See*—
Anderson, Douglas W. 228,729.
Anderson, Emmett R.: *See*—
O'Neil, Emmett L., and Anderson. 226,578.
Anderson, George A., and E. H. McCauley, to Docutel Corp. Banking machine terminal. 226,088, 1–23–73, Cl. D26—5.
Anderson, John R., and W. P. Jacobson, to Anderson Bros. Mfg. Co. Packaging container for liquids or the like. 227,083, 6–5–73, Cl. D9—219.
Anderson, Melvin R.: *See*—
Breed, Charles P., and Anderson. 226,778.
Anderson, Melvin R., and D. E. Husby, to Westinghouse Electric Corp. Floodlight. 226,020, 1–16–73, Cl. D48—20.
Anderson, Reese L. Holder for dental floss. 228,767, 10–23–73, Cl. D24—1.
Anderson, Robert F. Storage rack for a set of machine tools. 226,298, 2–13–73, Cl. D6—125.
Anderson, Victor F. Jug. 229,540. 12–11–73, Cl. D9—40.
Anderson, Victor F. Jug. 229,541, 12–11–73, Cl. D9—40.
Anderson, Warren G., to American Standard Inc. Toilet tank. 226,432, 3–6–73, Cl. D23—66.
Anderson, Warren G., to American Standard Inc. Toilet tank cover. 226,714, 4–17–73, Cl. D23—66.
Anderson, Warren G., to American Standard Inc. Water closet bowl. 226,715, 4–17–73, Cl. D23—67.
Ando, Osamu, to New Nippon Electric Co., Ltd. Combined television receiver and battery case. 228,254, 8–28–73, Cl. D56—4.
Ando, Sutematsu, to Century Products, Inc. Inflatable chair. 227,423, 6–26–73, Cl. D6—12.
Ando, Sutematsu, to Century Products, Inc. Inflatable chair. 227,424, 6–26–73, Cl. D6—12.
Ando, Sutematsu, to Century Products, Inc. Inflatable chair. 227,425, 6–26–73, Cl. D6—12.
Andon, Jerar. Momentum transfer demonstration device. 226,918, 5–15–73, Cl. D25—1.
Andre, Joseph G. Game board. 228,771, 10–23–73, Cl. D34—5.
Andres, William A., L. F. Becker, and L. D. Quanrud, to Washington Scientific Industries, Inc. Portable rear projection viewer. 226,503, 3–13–73, Cl. D61—1.
Andrus, Edward R., Jr., D. E. Fahnstrom, and J. G. Hansen, to Elder Wilbert Corp. Casket. 229,050, 11–6–73, Cl. D19—1.
Andrus, Edward R., Jr., D. E. Fahnstrom, and J. G. Hansen, to Elder Wilbert Corp. Casket. 229,176, 11–13–73. Cl. D19—1.
Andrus, William C., B. J. Fries, and R. Hodges, to Steelcase Inc. Chair. 227,831, 7–24–73, Cl. D6—31.
Andrus, William C., to Steelcase, Inc. Table. 228,161, 8–21–73, Cl. D6—27.
Angelakos, Nicholas P., to Lancaster Colony Corp. Coaster. 226,963, 5–22–73, Cl. 44—10.
Angelo, Nicholas C. Reversible golf glove. 229,253, 11–20–73, Cl. D2—361.
Angibaud, Rene M., to Societe les Piles Wonder. Electric lamp casing. 226,218, 1–30–73, Cl. D48—24.
Anielak, Gary L. Fish aquarium. 229,569, 12–11–73, Cl. D30—9.
Antaya, Donald R. Biopsy tray. 288,156, 8–14–73, Cl. D83—1.
Anthonsen, Arthur G., B. Rubenstein, and S. C. Schechter. Lock operated stereo tape catridge display case. 228,049, 8–7–73, Cl. D6—130.
Anthony, David W., and R. C. Urie, to Stanley Home Products, Inc. Combination handle and hanger for a broom or brush. 226,252, 2–6–73, Cl. D4—4.
Anthony, David W., and R. C. Urie, to Stanley Home Products, Inc. Hairbrush. 226,253, 2–6–73, Cl. D4—31.
Anthony, Fred S., to Oregon Novelties, Inc. Indoor table top tether ball game standard. 225,873, 1–9–73, Cl. D34—5.
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Antoine, Harold, Jr. Pendant. 229,088. 11–6–73, Cl. D45—15.
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Morrow, William B. 229,695.
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Arato, Oscar T. Pedal exerciser. 227,278, 6–12–73. Cl. D34—5.
Arbon, Dennis C., to Walker Crosweller & Co. Ltd. Faucet. 227,760, 7–17–73, Cl. D23—23.
Arbon, Dennis C. to Walker Crosweller & Co. Ltd. Faucet. 227,761, 7–17–73, Cl. D23—23.
Arbon, Dennis C., to Walker Crosweller & Co. Ltd. Faucet. 227,762, 7–17–73, Cl. D23—23.
Ardolino, Anthony A., to Howard Research and Development Corp. Casing and controls for dual telephone communicator. 227,014, 5–29–73, Cl. D26—14.
Ardolino, Anthony A., to Howard Research and Development Corp. Casing and controls for telephone communicator. 227,015, 5–29–73, Cl. D26—14.
Arens, John B., to Westinghouse Electric Corp. Post top colonial luminaire. 226,820, 5–1–73, Cl. D48—31.





Arenson, Herbert. Container for dairy products or the like.


Automatic Radio Mfg. Co., Inc.: *See*—

Arenson, Herbert. Container for dairy products or the like. 226,351, 2–20–73, Cl. D9—220.

Argy, Thomas W., and M. A. Fanizza, to Zenith Radio Corp. Disposable container for an ultrasonic nebulizer. 227,311, 6–12–73, Cl. D83—1.

Armbruster, John T., and A. Kenzlan, to American Optical Corp. Microscope. 229,581, 12–11–73, Cl. D57—1.

Armstrong, Evan, Jr.: *See*—
Blumenaus, Jon M., and Armstrong. 228,581.

Armstrong, Ralph P. Restaurant. 226,842, 5–8–73, Cl. D13—1.

Armstrong, William R., to Sealed Air Corp. A packaging cushion or the like. 228,062, 8–7–73, Cl. D9—294.

Arnce, Ronald N., and J. Cimaroli, Jr., ½ to Alfredo Conales. Illuminated vehicle sign. 228,527, 10–2–73, Cl. D72—1.

Arnold, Charles E. Combined cigarette holder, match holder and ash tray or similar article. 228,314, 9–4–73, Cl. D85—2.

Arnsteiner, Anton. Ski. 226,671, 4–10–73, Cl. D34—14.

Aronson, Robert R, to Electric Energy Systems, Inc. Charging station for electrically propelled vehicles. 228,790, 10–23–73, Cl. D26—13.

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Arrow Development Co. Inc.: *See*—
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Artz, Richard M. Lens cluster unit for photoprinting. 228,577, 10–9–73, Cl. D61—1.

Asano, Kiyozi, to Shinsei Kogyo Co. Ltd. Toy seal. 228,512, 10–2–73, Cl. D34—15.

Asano, Seiji. Tropical fish toy. 227,914, 7–24–73, Cl. D34—2.

Asenbauer, Donald J. Combined mirror and bathroom accessories holder. 225,948, 1–16–73, Cl. D6—91.

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Newberry, Truman L., Jr., and Ashford. 227,754.

Ashley, Percy N., to Vulcan Metal Products, Inc. Metal wall stud. 229,400, 11–27–73, Cl. D13—1.

Ashton, Alan G. R., and E. J. Cordell, to English Numbering Machines Ltd. Printing machine. 229,512, 12–4–73, Cl. D64—11.

Ashton, Harold P.: *See*—
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Askew, Aubrey, to Dunlop Holdings Ltd. Sports shoe. 227,821, 7–24–73, Cl. D2—309.

Askew, Aubrey, to Dunlop Holdings Ltd. Sports shoe. 227,822, 7–24–73, Cl. D2—309.

Askew, Aubrey, to Dunlop Holdings Ltd. Sports shoe. 229,251, 11–20–73, Cl. D2—309.

Askew, Aubrey, to Dunlop Ltd. Shoe sole. 229,524, 12–11–73, D2—320.

Askin, Byron E., to V-M Corp. Vertical record player or similar article. 228,025, 7–31–73, Cl. D56—4.

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Grube, Clifford E. 226,635.

Asta-Werke Aktiengesellschaft, Chemische Fabrik of Brackwede: *See*—
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Aster, Harold, Ball whirling toy. 299,078, 11–6–73, Cl. D34—15.

Astle, Brian, to Optel Corp. Font of electroluminescent characters. 227,602, 7–3–73, Cl. D64—12.

Astle, Brian, to Optel Corp. Electro-optical. 228,257, 8–28–73, Cl. D64—4.

Astle, Brian, to Optel Corp. Font of electro-optical characters. 228,366, 9–11–73, Cl. D64—12.

Astle, Brian, to Optel Corp. Font of electro-optical characters. 228,367, 9–11–73, Cl. D64—12.

Auclair, Roland. Menorah tree. 228,241, 8–28–73, Cl. D29—1.

Auditore, Salvatore, to G. Helleman Brewing Co. Inc. Bottle. 227,077, 6–5–73, Cl. D9—28.

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Auslander, Norman L., to Lander Co., Inc. Bottle. 225,726, 1–2–73, Cl. D9—115.

Auslander, Norman L., to Lander Co., Inc. Bottle. 225,833, 1–9–73, Cl. D9—115.

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French, Alan, and Pryde. 227,484.
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French, Alan, and Pryde. 227,486.
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Scanlon, Thomas A. 227,479.

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Babbitt, John H., Jr., R. G. Boyer, A. E. Olt, Jr., P. E. Schuck, and S. L. Stark, to Caterpillar Tractor Co. Tractor cab. 229,687, 12–25–73, D14—27.

Babcock, Richard D., M. A. Gervis, E. T. Wozny and N. Giardina, to Magic Eye Associates, Inc. Double bar lock. 227,653, 7–10–73, Cl. D8—117.

Babcock, Richard D., M. A. Gervis, E. T. Wozny, and N. Giardina. Double bar lock. 228,226, 8–28–73, Cl. D8—117.

Bach, Walter H. Motion picture camera housing. 227,409, 6–19–73, Cl. D61—1.

Bachman, Ralph W., and D. R. Humphrey, to Bachman's Inc. Floral display cart. 225,839, 1–9–73, Cl. D14—3.

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Backstrom, Olof, to Oy Fiskars AB. Scissors. 227,338, 6–19–73, Cl. D8—57.

Baer, Henry B., to Imperial Knife Associated Co., Inc. Combination whetter and sheath. 227,733, 7–17–73, Cl. D8—91.

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Bagguley, Richard B., and C. T. Mascia, to Continental Can Co., Inc. Can or similar article. 227,349, 6–19–73, Cl. D9—216.

Bagguley, Richard B., and C. T. Mascia, to Continental Can Co., Inc., Can or similar article. 227,350, 6–19–73, Cl. D9—216.

Bagguley, Richard B., and C. T. Mascia, to Continental Can Company, Inc. Can or similar article. 227,553, 7–3–73, D9—216.

Bagguley, Richard B., and C. T. Mascia, to Continental Can Company, Inc. Can or similar article. 227,554, 7–3–73, D9—216.

Bagguley, Richard B., and C. T. Mascia, to Continental Can Company, Inc. Can or similar article. 227,555, 7–3–73, D9—216.

Bagguley, Richard B., and C. T. Mascia, to Continental Can Company, Inc. Can or similar article. 227,556, 7–3–73, D9—216.

Bagguley, Richard B., and C. T. Mascia, to Continental Can Company, Inc. Can or similar article. 227,557, 7–3–73, D9—216.

Bagguley, Richard B., and C. T. Mascia, to Continental Can Co., Inc. Can or similar article. 227,657, 7–10–73, Cl. D9—216.

Bagguley, Richard B., and C. T. Mascia, to Continental Can Co., Inc. Can or similar article. 227,658, 7–10–73, Cl. D9—216.

Bagguley, Richard B., and C. T. Mascia, to Continental Can Co., Inc. Can or similar article. 227,864, 7–24–73, Cl. D9—216.

Bagguley, Richard B., and C. T. Mascia, to Continental Can Co., Inc. Can or similar article. 228,490, 10–2–73, Cl. D9—216.

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Bailey, Hoyt. Reversible counter display control. 228,916, 10–30–73, Cl. D26—5.

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Bailey, Richard R. Telephone handset hook or similar article. 228,462, 9–25–73, Cl. D26—14.

Bajusz, Harold F. Pen and pencil combination. 226,466, 3–13–73, Cl. D74—17.

Bajusz, Harold F., to Accutec Inc. Pen. 227,037, 5–29–73, Cl. D74—17.

Bajusz, Harold F., to Accutec Inc. Combination of pen and housing for thermometer or the like. 227,038, 5–29–73, Cl. D74—17.

Bakasi, Alexander L. Balancing bird toy. 228,081, 8–7–73, Cl. D34—15.





Baker, George F. Golf club head. 229,431, 11–27–73, Cl. D34—5.

Baker, Jack F., and R. W. Fee, to AMF Inc. Timer. 226,631, 4–3–73, Cl. D42—7.

Baker, John M., to Cassette Magnetics Corp., d.b.a. American Cassette Corp. Cassette reel motion indicator. 226,811, 5–1–73, Cl. D26—14.

Baker, Kenneth R., and R. Plecia, to Sidewinder Marine, Inc. Boat. 227,708, 7–10–73, Cl. D71—1.

Baker, Kenneth R., R. Plescia, and G. C. Ferguson, to Saul Davidson. Boat upper shell. 229,103, 11–6–73, Cl. D71—1.

Baker, Kenneth R., R. E. Plescia, and G. C. Ferguson, to Saul Davidson. Boat upper shell. 229,104, 11–6–73, Cl. D71—1.

Baker, Raymond W. Toy construction piece or similar article. 227,023, 5–29–73, Cl. D34—15.

Bako, Lazlo, to Kidde, Walter, & Co., Inc. Catch for luggage or the like. 228,227, 8–28–73, Cl. D8—129.

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Ball, Douglas C., to Massey-Ferguson Industries Ltd. File cart. 225,840, 1–9–73, Cl. D14—3.

Ballets, Peter. Toy spinning top. 228,397, 9–18–73, Cl. D34—15.

Ballou, Walter G. Door knocker. 225,964, 1–16–73, Cl. D8—177.

Bally Mfg. Corp.: *See*—
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Barere, Barbara. Soap cake. 226,038, 1–16–73, Cl. D73—1.

Barg, Herbert. Panty girdle. 226,695, 4–17–73, Cl. D2—4.

Barket, Dennis J., to D. H., Baldwin Co. Organ console. 229,229, 11–13–73, Cl. D56—2.

Barkley, William. Scuba diver's board. 227,808. 7–17–73, Cl. D71—1.

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Barnard, William G., Jr., and W. G. Barnard, to Vita Mix Corp. Blender. 228,698, 10–16–73, Cl. D89—1.

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Barnes, Clifford D., and N. S. Burnett. Oil filter removal ratchet wrench. 228,869, 10–30–73, Cl. D8—25.

Barnes, Phillips H., to Packaging Techniques, Inc. Door lock. 226,472, 3–13–73, Cl. D8—109.

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Baron, Stankey N., to Columbia Broadcasting System, Inc. Character font. 227,603, 7–3–73, D64—12.

Barriti, John B., Jr. Fishing lure. 228,391, 9–18–73, D26—29.

Barrow, Harold A. Gun holster. 227,099, 6–5–73, Cl. D22—13.

Barrows, Robert E., to Chicago Pneumatic Tool Co. Pneumatic vibrator for detecting rattles. 228,672, 10–16–73, Cl. D55—1.

Bartasevich, William E., Jr., and J. E. Edgell, to Disston, Inc. Hedge trimmer. 226,420, 3–6–73, Cl. D8—8.

Barth, Gerald D., and R. E. Jennings, to Illinois Tool Works Inc. Methal penetrating staple. 227,976, 7–31–73, Cl. D8—266.

Barth, William, to Royal Crown Cola Co. Bottle. 225,974, 1–16–73, Cl. D9—100.

Bartman, Louis. Vehicle traction board. 226,621, 4–3–73, Cl. D41—1.

Bartron, Robert S., to Robert R. Shaefer. Golf club head. 229,622, 12–18–73, Cl. D34—5.

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Bateman, Robert F., to Plastics, Inc. Tumbler. 229,008, 11–6–73, Cl. D7—14.

Bates, Charles I. Baby's bottle holder. 228,529, 10–2–73, Cl. D83—8.

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Baugh, Benjamin C., R. R. Deines, and F. O. Gruver, Jr., to The Coleman Co. Inc. Heater. 226,195, 1–30–73. Cl. D23—124.

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Baxter Laboratories, Inc.: *See*—
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Beacon Products Corp.: *See*—
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Beauchamp, Ferris A. J. Detachable screened room for a travel trailer. 228,448. 9–25–73, Cl. D13—1.

Beaudin, Andre, to Fibrosport Inc. Safety face mask for hockey goal tender. 229,375, 11–27–73, Cl. D2—233.

Beck, Gerald J., and W. C. Bowles, to Minnesota Mining and Mfg. Co. Motion detector. 227,594, 7–3–73, D52—6.

Beck, Nevitt S. Water sled. 226,633, 4–3–73, Cl. D71—1.

Becker, Larry F.: *See*—
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Beckman, Glenn B., to Corning Glass Works. Filter drip adaptor for coffee maker. 226,531, 3–20–73, Cl. D44—26 B.

Beckman, Glenn B., to Corning Glass Works. Tray. 228,862, 10–30–73, Cl. D7—36.

Beckman, Glenn B., to Corning Glass Works. Casserole cover. 228,864, 10–30–73, Cl. D7—40.

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Bedient, Jack R. Tether ball projector and catcher toy. 225,877, 1–9–73, Cl. D34—15.

Bedient, Jack R. Water scooters. 227,508, 6–26–73, Cl. D71—1.

Bednarczuk, Daniel, and A. T. Milton. Knee guard. 229,643, 12–25–73, D2—27.

Bee, James W. M.: *See*—
Tyson, John F., and Bee. 226,273.

Beecher, William. Binocular. 228,676, 10–16–73, Cl. D57—1.

Beer, Allan T., to Darrell-Allan Corp. Underwater light. 228,084, 8–7–73, Cl. D48—24.

Beeren, Aloysius J. M., to U.S. Philips Corp. Magnifying lamp. 229,231, 11–13–73, Cl. D57—1.

Beerli, Robert, Jr. Clipboard attachment for a vehicle steering wheel. 226,040, 1–16–73, Cl. D74—2.

Behm John, to National Silver Co. Skillet-grill, or similar article. 227,028, 5–29–73, Cl. D44—1.

Beichler, Robert W.: *See*—
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Beitler, Myron, and G. Jaffae, to Litton Business Systems, Inc. Case for a calculator. 228,189, 8–21–73, Cl. D26—5.

Bell, Jack T. Demountable personnel cab for pickup trucks. 229,554, 12–11–73, Cl. D14—3.

Bell, Jess A., to Eyelet Specialty Co. Combined lipstick and lip gloss pot. 229,120, 11–6–73, Cl. D86—10.

Bell, Mace H., and R. H. Yagami, to General Foods Corp. Container for liquids. 227,345, 6–19–73, Cl. D9—175.

Bell, Mace H., and R. H. Yagami, to General Foods Corp. Foam generator. 228,763, 10–23–73, D23—17.

Bell, Ted A., to Dresser Industries, Inc. Gauge casing. 226,024, 1–16–73, Cl. D52—6.





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Bell Telephone Laboratories, Inc.: *See*—
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Bellamy, Janett N. Ring. 229,086, 11–6–73, Cl. D45—10.

Bellasalma, Gerald J., to Plastetics Inc. Frame front for merchandising machine. 226,132, 1–23–73, Cl. D52—3.

Bellini, Mario, to Olivetti, Ing. C., & Co., S.p.A. Desk-top calculator. 228,387, 9–18–73, Cl. D26—5.

Beltramo, Renaldo M.: *See*—
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Benefield, John D., and R. R. Kozinski. Pipe and tube bender. 229,281, 11–20–73, Cl. D8—32.

Benis, Isak. Finger manicuring grip. 226,736, 4–17–73, Cl. D86—10.

Bennett, Charles A. Protective garment for dogs. 228,926, 10–30–73, Cl. D30—37.

Bennett, Lester H. Foldable tray and container attachment for an invalid chair. 229,361, 11–20–73, Cl. D83—1.

Bennett Manufacturing Co., Inc.: *See*—
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Bennett, Robert A., to Waterbury Lock & Specialty Co. Casing for a tape measure. 228,149, 8–14–73, Cl. D42—1.

Benoit, Roland A., and R. H. Duprey, to Interroyal Corp. Bed. 229,260, 11–20–73, Cl. D6—79.

Benoit, Roland A., and R. H. Duprey, to Interroyal Corp. Bed. 229,380, 11–27–73, Cl. D6—79.

Benoit, Roland A., and R. H. Duprey, to Interroyal Corp. Bed. 229,381, 11–27–73, Cl. D6—79.

Benoit, Roland A., and R. H. Duprey, to Interroyal Corp. Bed. 229,459, 12–4–73, Cl. D6—79.

Benson, Raymond E., to Olin Corp. Camp stove. 226,872, 5–8–73, Cl. D81—10.

Benson, Raymond E. Camp stove. 227,850, 7–24–73, Cl. D7—110.

Bentley, Arthur G. Wheeled skate. 226,440, 3–6–73, Cl. D34—14.

Bentley, Fred R., to Leonard Refineries, Inc. Advertising novelty. 229,452, 11–27–73, Cl. D96—2.

Benty, John L., and D. Friedman, to Clairol Inc. Combined hair dryer and styling attachment therefor. 226,510, 3–13–73, Cl. D86—10.

Benty, John L., and D. Defano, to Clairol Inc. Case for electric skin hygiene brush. 226,588, 3–27–73, Cl. D87—10.

Benty, John L., and D. Defano, to Clairol Inc. Electric skin hygiene brush. 226,941, 5–22–73, Cl. D4—14.

Benty, John L., D. Depano, and R. I. Kallman, to Clairol Inc. Make-up mirror. 229,121, 11–6–73, Cl. D86—10.

Benzel, Howard A. Golf bag stand. 227,276, 6–12–73, Cl. D34—5.

Bereson, Arnold L., and M. F. Fuhrman, to Johnson & Johnson. Container for dental restoratives. 227,107, 6–5–73, Cl. D24—1.

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Berger, Richard M., to American Filtrona Corp. Filtered cigarette. 229,725, 12–25–73, Cl. D85—6.

Berger, Ute. Ashtray. 226,690, 4–10–73, Cl. D85—2 P.

Berger, Ute. Cup. 227,531, 7–3–73, D7—5.

Berger, Ute. Napkin ring. 227,536, 7–3–73, D7—72.

Berger, Ute. Combined condiment stand and shakers. 228,333, 9–11–73, Cl. D7—56.

Bergman, Jack, to Pennwood Numechron Co. Digital clock-lamp. 226,494, 3–13–73, Cl. D42—7.

Bergman Tool Mfg. Co., Inc.: *See*—
Freedman, Alan L., and Allen. 229,022.

Bergstrom, Theodore R. Fireplace grate. 228,728, 10–23–73, Cl. D7—207.

Bergstrom, Thomas G. Liquid dispenser. 229,248, 11–13–73, Cl. D94—3.

Berkel, David Leroy. Water bed frame. 228,269, 9–4–73, Cl. D6—84.

Berkline Corp. The: *See*—
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Long, Stapleton. 228,164.
Long, Stapleton. 228,165.
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Long, Stapleton. 228,988.

Berkoff, Daniel A., to Orion Industries, Inc. Battery charger. 228,071, 8–7–73, Cl. D26—15.

Berlin, Hyman L. Cutting blade handle. 227,546, 7–3–73, D8—107.

Bermender, Harold W., Jr., to Mite Corp. Combined keyboard and electronic data printer. 229,513, 12–4–73, Cl. D64—11.

Bermender, Harold W., Jr. Electronic data printer. 229,634, 12–18–73, Cl. D64—11.

Bernadotte, Sigvard, and T. Evrell. Knife. 227,071, 6–5–73, Cl. D8—99.

Berney, Norman A., and M. Karp. Cigarette holder. 226,691, 4–10–73, Cl. D85—8 B.

Bernhard, Heinrich W. Tethered bag for an exercising game or the like. 229,202, 11–3–73, Cl. D34—5.

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Berry, Maxwell. Bird feeder. 226,098, 1–23–73, Cl. D30—14.

Bertanzetti, Ralph C. Display rack for tape cartridges. 226,158, 1–30–73, Cl. D6—190.

Bertazzoli, Guido, to Industrie Pirelli, S.p.A. Tire. 225,914, 1–9–73, Cl. D90—20.

Besler, Joachim. Bottle. 228,123, 8–14–73, Cl. D9—127.

Besnard, Francis, to Societe des Accumulateurs Fixes et de Traction. Flash light. 229,219, 11–13–73, Cl. D48—24.

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Bettonica, Franco, to Perlier S.p.A. Compac eye-liner container. 228,419, 9–18–73, Cl. D86—10.

Beyer, Ronald A. Pleasure boat. 226,684, 4–10–73, Cl. D71—1.

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Amy, Jonathan W., Beynon, and Jones. 228,774.

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Bich, Marcel L. M. Antoine., to Bic Pen Corp., mesne. Lighter. 228,666, 10–16–73, Cl. D48—27.

Bickham, Francis L., to H. C. Price Co. Hook for pipe couplers or the like. 227,393, 6–19–73, Cl. D41—1.

Bidegain, Georges C., to Bidegain S.A. Baby shoe. 226,746, 4–24–73, Cl. D2—278.

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Bielicki, John J., and R. H. Davis, to American Can Co. Bottle. 226,169, 1–30–73, Cl. D9—116.

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Bierbusse, James H., to Uniroyal, Inc. Pneumatic tire tread and buttress. 228,634, 10–16–73, Cl. D12—143.

Bierwith, Stanton F., to Great Canadian Oil Sands, Ltd. Excavating tooth. 228,781, 10–23–73, Cl. D39—1.

Billiugslea, Elmer O., Jr. Boot jack. 229,584, 12–11–73, Cl. D86—10.

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Binzer Thomas J., C. H. Schmitt, and P. H. Wooding, to General Electric Co. Portable microwave oven or similar article. 225,780, 1–2–73, Cl. D81—4.

Binzer, Thomas J., C. H. Schmitt, P. H. Wooding, Y. Suganoya, and T. Miyake, to General Electric Co. Portable microwave oven or similar article. 228,607, 10–16–73, D7—128.

Biondi, Aldo L., M. A. Kaufman, W. A. Vierow, and M. Weisman, to International Playtex Corp. Hanger. 229,004, 11–6–73, Cl. D6—254.

Biondi, George, and R. Fanucchi. Ice bucket. 229,471, 12–4–73, Cl. D7—78.

Biondi, Robert J. Coaster. 227,640, 7–10–73, Cl. D7—45.

Bird, Stanford W., to Plastronics Corp. Packaging container. 227,226, 6–12–73, Cl. D9—182.

Bird, Stanford W., to Plastronics Corp. Packaging container. 227,979, 7–31–73, Cl. D9—231.

Bish, Robert M., and J. W. Davis. Protector for loaves of bread. 227,977, 7–31–73, Cl. D9—184.

Bish, Robert M., and J. W. Davis, Protector for loaves of bread. 228,882, 10–30–73, Cl. D9—184.

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Bizzaro, William, Jr. Mobile home. 226,263, 2–6–73, Cl. D14—3.

Black and Decker Mfg. Co., The: *See*—
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Black, James R., Jr., to People Products, Statuette. 226,012, 1–16–73, Cl. D29—24.





Blackall, Frederick S. Traversing hanger for personnel sling. 228,415, 9–18–73, Cl. D71—1.

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Blake, Edwin T. Candle chandelier mobile. 229,576, 12–11–73, Cl. D48—2.

Blankenship, Arthur C., to Uniroyal, Inc. Pneumatic tire tread and buttress combination. 226,790, 4–24–73, Cl. D90—20.

Blankenship, Arthur C., to Uniroyal Inc. Pneumatic tire tread and buttress combination. 228,102, 8–7–73, Cl. D90—20.

Blankenship, Arthur C., to Uniroyal, Inc. Pneumatic tire tread and buttress. 228,421, 9–18–73, Cl. D90—20.

Blankenship, Arthur C., to Uniroyal, Inc. Pneumatic tire tread and buttress. 228,423, 9–18–73, Cl. D90—20.

Blankenship, Arthur C., to Uniroyal, Inc. Pneumatic tire tread and buttress. 228,424, 9–18–73, Cl. D90—20.

Blazey, Lawrence, D. Silverstrom, and E. Rocker, to Century Products, Inc. High chair with removable seat. 228,587, 10–16–73, Cl. D6—8.

Blazey, Lawrence, D. Silverstrom, and E. Rocker, to Century Products, Inc. Infant's dressing table. 228,855, 10–30–73, Cl. D6—168.

Blazey, Lawrence, D. Silverstrom, and E. Rocker, to Century Products, Inc. Child's car seat. 229,646, 12–25–73, Cl. 6—9.

Bledsoe, Ward. Ceiling air deflector frame. 229,181, 11–13–73, Cl. D23—112.

Bledsoe, Ward. Ceiling air deflector frame. 229,182, 11–13–73, Cl. D23—112.

Bledsoe, Ward. Wall air deflector frame. 229,185, 11–13–73, Cl. D23—112.

Blendl, John, to Metal Cabinet Co. Fire extinguisher cabinet. 225,991, 1–16–73, Cl. D16—2.

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Blessing, Waldemar, to Blessing-Werke KG. Alarm clock. 226,672, 4–10–73, Cl. D42—7.

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Blount, Gerald F., to Peco, Inc. Tray. 228,606, 10–16–73. Cl. D7—37.

Bloxwich Lock and Stamping Co. Ltd., The: *See*—
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Blumennus, Jon M., and E. Armstrong, Jr., to World Carpets. Carpet design. 228,581, 10–9–73, Cl. D92—4.

Blumenfeld, Alfred M., to Micromedic Systems, Inc. Automatic pipetting and analysis unit. 228,346, 9–11–73, Cl. D16—2.

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Boak, James E. Legless lounge chair. 226,153, 1–30–73, Cl. D6—37.

Boano, Gianpaolo, to Fiat Societa per Azioni. Side light for motor cars. 229,507, 12–4–73, Cl. D48—32.

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Bobrowski, Louis G., to The Stanley Works. Sliding door chain guard. 226,515, 3–20–73, Cl. D8—131.

Bobrowski, Louis G., to The Stanley Works. Door chain lock. 226,944. 5–22–73. Cl. D8—131.

Bobrowski, Louis G., to The Stanley Works. Door chain lock. 229,163, 11–13–73, Cl. D8—131.

Bocade, Emil J., to Keeler Brass Co. Drawer pull. 226,751, 4–24–73, Cl. D8—167.

Bock, John W. Airplane, 226,136, 1–23–72, Cl. D71—1.

Bock & Schupp: *See*—
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Bodan, Howard. Lockable hinged collar to cover steering column ignition lock. 227,547, 7–3–73, D8—113.

Boehm, Rudolph A.: *See*—
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Boggs, William H., and G. R. Govers. Knobbed endodontic instrument. 225,997, 1–16–73, Cl. D24—1.

Bohan, Richard P. Combined television guide holder and program reminder. 225,810, 1–9–73, Cl. D6—184.

Bolleau, Jacques to Compagnie Generale des Etablissements Michelin raison sociale Michelin & Cie. Tire. 228,889, 10–30–73, Cl. D12—142.

Boise Cascade Corp.: *See*—
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Boldt, Melvin H., to G. W. Murphy Industries, Inc. Saber saw. 225,819, 1–9–73, Cl. D8—64.

Boldt, Melvin H., to National Presto Industries, Inc. Thermostatic electric connector plug. 228,461, 9–25–73, Cl. D26—13.

Boldt, Melvin H., and F. J. Greb, to Zenith Radio Corp. Portable radio cabinet. 228,953, 10–30–73, Cl. D56—4.

Boldt, Melvin H., and D. P. Chuboff, to Zenith Radio Corp. Television receiver cabinet. 229,443, 11–27–73, Cl. D56—4.

Bolduc, Normand. Support for bath. 228,347, 9–11–73, Cl. D23—70.

Bolling, Melvin. Holder for pencils, papers, and the like. 226,786, 4–24–73, Cl. D74—5.

Bolton, Charles A. Tape cutting device. 228,276, 9–4–73. Cl. D8—98.

Bolyn, Anthony E., and L. G. Colio, to Richardson-Merrell Inc. Syringe unit. 226,456, 3–6–73, Cl. D83—12.

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Scott, Thomas. 229,490.

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Boodakian, Barkere. Serrated ruler. 226,781, 4–24–73. Cl. D52—6.

Boone, Edgar. Reel for holding electric wire. 229,668, 12–25–73, D8—220.

Boone, James V. Blade set for dental instrument. 225,998, 1–16–73, Cl. D24—1.

Boone, James V. Dental mirror structure. 227,470, 6–26–73, Cl. D24—1.

Bordenave, Franklin D. J. Dual purpose gaff and fishhook dislodger. 229,051, 11–6–73, Cl. D22—22.

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Korol, Stanley F. 226,853.
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Boros, Yedidya. Lamp. 228,147, 8–14–73, Cl. D48—23.

Boroszewski, John A. Wall plaque. 226,085, 1–23–73, Cl. D29—23.

Borowiec, Edward J., to Kysor Industrial Corp. Vehicle air conditioner. 228,768, 10–23–73, Cl. D23—142.

Borsani, Giancarlo. Spring latch. 229,479, 12–4–73, Cl. D8—203.

Borste, Jordan W., & Penselfabrik, A/S: *See*—
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Boston Edison Co.: *See*—
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Donovan, Richard J., and Finney. 226,008.

Botefur, Mark B., S. J. Kelsey, and H. J. Valley, to Martin-Marietta Aluminum Inc. Faucet handle. 227,251, 6–12–73, Cl. D23—28.

Bott, Winston F. Storefront awning. 229,690, 12–25–73, Cl. D21—6.

Boucher, Guy, to Societe des Accumulateurs Fixes et de Traction. Flashlight. 229,089, 11–6–73, Cl. D48—24.

Bound, Lloyd R., to Texas Instruments, Inc. Sensor housing for an alarm system. 229,720, 12–25–73, Cl. D72—1.

Bourke, Robert E., to GAF Corp. Combined motion picture projector and carrying case or similar article. 228,094, 8–7–73, Cl. D61—1.

Bower Manufacturing Co., Inc., The. *See*—
Bower, Ralph H. 228,769.

Bower, Ralph H., to The Bower Manufacturing Co., Inc. Bird feeder. 228,769, 10–23–73, Cl. D30—15.

Bowkley, Harry T., and J. Diemond, to Coleco Industries, Inc. Pool with integral slide. 227,583, 7–3–73, D34—5.

Bowles, William C.: *See*—
Beck, Gerald J., and Bowles. 227,594.

Bowman, Cadet E., to Olin Corp. Hydrocarbon gas fuel torch. 227,337, 6–19–73, Cl. D8—30.

Bowman, George E.: *See*—
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Skyer, Robert A., Bowman, Zurek, Boehm, and Deschamps. 226,558.
Skyer, Robert A., and Bowman. 226,744.
Skyer, Robert A., and Bowman. 227,392.

Bowman, Hyman D. Vehicle floorboard cover or the like. 225,735, 1–2–73, Cl. D14—5.

Box, Theodor M. Pallet. 226,844, 5–8–73, Cl. D14—8.

Boyce, Elvin L., to Tape Lecator, Inc. Tape applicator. 227,810, 7–17–73, Cl. D74—1.

Boyce, Elvin L., to Tape-Licator, Inc. Belt attachable tape holder. 227,823, 7–24–73, Cl. D2—400.





Boyce, Frank J., to Stow Manufacturing Co. Portable wire reels. 229,669, 12–25–73, Cl. D8—222.

Boyd, Holmes E. Sewage septic tank. 226,192, 1–30–73, Cl. D23—19.

Breger, Carl-Arne, to Telefonaktiebolaget LM Ericsson. Telephone instrument. 226,199, 1–30–73, Cl. D26—14.

Boyce, Frank J., to Stow Manufacturing Co. Portable wire reels. 229,669, 12–25–73, Cl. D8—222.

Boyd, Holmes E. Sewage septic tank. 226,192, 1–30–73, Cl. D23—2.

Boyd, James D. Candle holder. 226,970, 5–22–73, Cl. D48—2.

Boyd, James W., and C. H. Bessett, to Packaging Corp. of America. Packaging tray for eggs or other fragile articles. 225,836, 1–9–73, Cl. D9—190.

Boyd, James W., to Packaging Corp. Packaging pad or the like. 226,755, 4–24–73, Cl. D9—294.

Boyd, James W., to Packaging Corp. Packaging pad or the like. 226,756, 4–24–73, Cl. D9—294.

Boyd, James W., to Packaging Corp. Packaging pad or the like. 226,757, 4–24–73, Cl. D9—294.

Boyd, James W., to Packaging Corp. Packaging pad or the like. 226,758, 4–24–73, Cl. D9—294.

Boyd, James W., to Packaging Corp. Packaging pad or the like. 226,759, 4–24–73, Cl. D9—294.

Boyer, Ronald G.: *See*—
Babbitt, John H., Jr., Boyer, Olt, Schuck, and Stark. 229,687.

Boyle, Robert E. Child's riding vehicle. 229,079, 11–6–73, Cl. D34—15.

Bozard, Arthur W. Chemical container for attachment to a dog's collar or similar article. 227,272, 6–12–73, Cl. D30—43.

Brack, Robert M. Trophy. 226,091, 1–23–73, Cl. D29—28.

Bradley, Donald W. Combined fluid dispenser and cabinet therefor. 226,994, 5–22–73, Cl. D94—3.

Bradley, Milton, Co.: *See*—
Pottern, Alvin R. 228,825.

Bradrick, Darlene V., and J. P. Lehne. Bottle. 225,719, 1–2–73, Cl. D9—35.

Brady, Richard V. Casket shipping cover. 227,758, 7–17–73, Cl. D19—1.

Brady, Ronald C. Pendant. 227,797, 7–21–70, Cl. D45—17.

Brainard, James L., and R. J. Palm. Spider for a wheel. 229,558, 12–11–73, Cl. D14—30.

Brainerd, Andrew W., K. H., and S. W. Shoe cleaning-polishing device. 226,142, 1–23–73, Cl. D86—11.

Brainerd, Andrew W., K. H., and S. W. Shoe cleaning-polishing device. 226,143, 1–23–73, Cl. D86—11.

Brainerd, Andrew W., K. H., and S. W. Shoe cleaning-polishing device. 226,144, 1–23–73, Cl. D86—11.

Brainerd, Andrew W., K. H. and S. W. Shoe cleaning-polishing device. 226,249, 1–30–73, Cl. D86—11.

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Brainerd, Andrew W., K. H. and S. W. 226,249.

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Brandow, Vivian M. Combined bottle opener and can piercer. 229,021, 11–6–73, Cl. D8—18.

Brandt, Harvey R., and N. Werner, to Gavin Electronics Division, Antennacraft Co. Television antenna. 229,071, 11–6–73, Cl. D26—14.

Brandt, Harvey B., and N. Werner, to Gavin Electronics Division, Antennacraft Co. Television antenna. 229,072, 11–6–73, Cl. D26—14.

Brandt, Harvey R., and N. Werner, to Gavin Electronics Division Antennacraft Co. Television antenna. 229,319, 11–20–73, Cl. D26—14.

Brandt, Harvey R., and N. Werner, to Gavin Electronics Division Antennacraft Co. Design for a television antenna. 229,498, 12–4–73, Cl. D26—14.

Brannon, Arthur J., to Kids Stuff Creations. Clothes hanger. 229,002, 11–6–73, Cl. D6—248.

Branson, George R., to Flexsteel Industries, Inc. Chair. 228,480. 10–2–73, Cl. D6—69.

Bratt, Lenore: *See*—
Bratt, Maurice P. and L. 226,668.

Bratt, Maurice P. and L. Doll. 226,668, 4–10–73, Cl. D34—4 R.

Bratt Robert W.: *See*—
Fellers, Walter E., Bratt, Huben, and Heinze. 229,353.

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Greubel, Jurgen. 225,934.
Greubel, Jurgen. 225,937.
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Lerner, Nathan B. 227,344.

Breed, Charles P., and M. R. Anderson, to Westinghouse Electric Corp. Luminaire. 226,778, 4–24–73, Cl. D48—31.

Breedlove, Craig N. Racing vehicle. 229,491, 12–4–73, Cl. D12—85.

Brefka, Paul E.: *See*—
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Breger, Carl-Arne, to Telefonaktiebolaget LM Ericsson. Telephone instrument. 226,199, 1–30–73, Cl. D26—14.

Breger, Carl-Arne, to Telefonaktiebaget LM Ericsson. Stand for a telephone instrument. 227,117, 6–5–73, Cl. D26—14.

Brickel, Robert W. Litter pan for cats. 228,558, 10–9–73, Cl. D30—99.

Brickel, Robert W. Combined tray and pet food bowls or similar article. 229,073, 11–6–73, Cl. D30—16.

Bridgeport Metal Goods Mfg. Co., The: *See*—
Moore, Arthur H. 228,519.

Bridges, John A., to Aladdin Industries, Inc. Disposable meal serving unit. 226,830, 5–1–73, Cl. D44—10.

Bridges, John A., to Aladdin Industries, Inc. Disposable meal serving unit. 229,601, 12–18–73, Cl. D7—38.

Bridges, Roy G. Toothbrush container. 226,992, 5–22–73, Cl. D87—1.

Bridges, Roy G. Container for pills or the like. 227,552, 7–3–73, D9—184.

Briggs, Eugene C., and L. E. Reichel, to Koehring Co. Compactor. 227,166, 6–5–73, Cl. D60—1.

Bright, Elvin M., to Incolay Studios, Inc. Drinking receptacle. 228,330, 9–11–73, Cl. D7—15.

Bright, Stephen K., to Xerox Corp. Sorter for a duplicating machine or the like. 227,933, 7–24–73, Cl. D64—11.

Brightco Electronics Corp.: *See*—
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Brightly, Charles F. Combined snowmobile suspension stand and safety guard. 228,246, 8–28–73, Cl. D41—1.

Brill, Edward F., to Beach-Buoy, Inc. Swimming float. 226,506, 3–13–73, Cl. D71—1.

Brindisi, Frederick J., to Qualitrol Corp. Pressure relief valve. 226,524, 3–20–73, Cl. D23—19.

Brindisi, Frederick J., to Qualitrol Corp. Pressure relief valve. 226,605, 4–3–73, Cl. D23–19.

Brindisi, Frederick J., to Qualitrol Corp. Pressure relief valve. 226,952, 5–22–73, Cl. D23—19.

Brindley, Robert E., to Union Carbide Corp. Portable hand lantern. 226,219, 1–30–73, Cl. D48—24.

Brinkerhoff, Milford H.: *See*—
Humphries, Frank E., and Brinkerhoff. 228,934.

Brinkman, Jerry A. Reel for string. 226,166, 1–30–73, Cl. D8—222.

Brinser, Stanley Byron, and J. R. Kunkle, to AMP Inc. Multi-contact electrical connector assembly. 227,990, 7–31–73, Cl. D26—1.

Brison, Robert L., to Whittaker Corp. Animal carrying case. 227,126, 6–5–73, Cl. D30—1.

Bristol-Myers Co.: *See*—
Jensen, Erik K. 229,447.
Keldmann, Erik. 226,587.
Modelevsky, Ian C., DeYoung, Nevins, and Stern. 227,459.
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Brizzolara, Joseph J., and W. S. Feiler. Baby cradle. 229,131, 11–13–73, Cl. D6—14.

Broadhead, Reginald M., to Drum Horse Distillers Ltd. Combined bottle and cap therefor. 226,703, 4–17–73, Cl. D9—72.

Broadhead, Reginald M., to Drum Horse Distillers Ltd. Combined bottle and cap therefor. 227,002, 5–29–73, Cl. D9—72.

Broadhead, Reginald M. Crown Distillers Ltd. Combined bottle and cap. 227,656, 7–10–73, Cl. D9—159.

Broadley, Eric H., to Lola Cars Ltd. Model racing car. 225,879, 1–9–73. Cl. D34—15.

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Stoakes, Donald S., and Brock. 228,386.

Brodeur, Raymond. Ash tray. 228,971, 10–30–73, Cl. D85—2.

Brodsky, Alexander: *See*—
Ball, Charles W., and Brodsky. 227,731.

Brodsky, David L., to Superior Plastic Products Co. Urine specimen kit. 227,180, 6–5–73, Cl. D83—1.

Brodsky, Louis, to E. R. Squibb & Sons, Inc. Container stopper or the like. 226,554, 3–27–73, Cl. D9—264.

Brom, Rebecca M. Type font. 228,683, 10–16–73, D64—12.

Brooke, Barton E., Jr. Table. 229,652, 12–25–73, Cl. D6—175.

Brooks, Edward A., Jr.: *See*—
Duckett, John W., Brooks, and Reynolds. 226,784.

Brooks, Wesley M., C. E. Forman, and R. T. Markey. Pendant or the like. 228,516, 10–2–73, Cl. D45—16.

Brophy, Eldon C. Buckle. 226,349, 2–20–73, Cl. D8—229.

Brothers, Alvin O. Holder for paint cans on ladders. 227,439, 6–26–73, Cl. D8—233.

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Browdy, Herman. Pants. 229,523, 12–11–73, Cl. D2—28.

Brower, Eldon V. Fish gaff. 228,457, 9–25–73, Cl. D22—22.





Brower, George C. Gold club head. 228,513, 10–2–73, Cl. D34—5.

Brower, George C. Golf club head. 228,563, 10–9–73, Cl. D34—5.

Brower, George C. Golf putter head. 228,927, 10–30–73, Cl. D34—5.

Bower, George C. Golf putter head. 228,928, 10–30–73, Cl. D34—5.

Brower, George C. Golf putter head. 229,434, 11–27–73, Cl. D34—5.

Brown, Culver S. Stair tread. 225,981, 1–16–73, Cl. D13—7.

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Brown, Dwight C. Bag closure or the like. 228,630, 10–16–73, D9—252.

Brown, Dwight C. Corrugated strip fastener. 229,484, 12–4–73, Cl. D9—252.

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Brown, George Z., and R. H. Ramsey, to Keithley Instruments, Inc. Electrical testing sensing instrument. 229,186, 11–13–73, Cl. D26—1.

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Brown, Richard E. to Twyco, Inc. Multiple contact electrical connector assembly. 228,783, 10–23–73. Cl. D26—1.

Brown, Robert E., and C. L. Vance. Grip-life adapter for door latches or the like. 227,435, 6–26–73, Cl. D8—161.

Brown, Warner K., and D. M. Lanci, to Clark Equipment Co. Control console for vehicle. 227,093, 6–5–73, Cl. D14—6.

Brown, William H. Jr. Garment rack or the like. 229,267, 11–20–73, Cl. D6—85.

Browne, Henry A. Smoking pipe. 229,362, 11–20–73, Cl. D85—8.

Broz, Jerry J. Track cleaning car. 225,760, 1–2–73, Cl. D34—15.

Brozen, Kenneth B. Wall mounted book and magazine shelf combination. 225,707, 1–2–73, Cl. D6—136.

Brubaker, Curtis M., H. B. Wykes, and R. T. Gerstenberger. Land vehicle body. 228,632, 10–16–73, D12—90.

Bruce Plastics, Inc.: *See*—
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Szabo, Bela G. 226,474.
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Wetmore, Harlow G. 226,881.

Buchtel, Dean H., 22½%, to Robert C. Dye, Frank L. Buchtel, Harold H. Kehoe, and 10% to Edwin W. Oldham. Bottle. 229,606, 12–18–73, Cl. D9—60.

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Buckman, Fred W. Adjustable switch adapter bracket. 227,342, 6–19–73, Cl. D8—233.

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Buglewicz, Neal J. Panel for an automatic telephone answering device. 227,377, 6–19–73, Cl. D26—14.

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Buhk, Randall P., Steelcase Inc. Chair. 227,057, 6–5–73, Cl. D6—30.

Bujan, Albert F., to Abbott Laboratories. Dispensing pin for medical administration equipment. 229,518, 12–4–73, Cl. D83—12.

Bull, Donald M., to D. A. C. Investment Corp. Combination deep fat fryer range, refrigerator and food storage unit. 228,261, 8–28–73, Cl. DS1—10.

Bullard, E. D., Co.: *See*—
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Burckhardt, Edward D. Dispenser for a collapsible tubular container. 228,166, 8–21–73, Cl. D6—87.

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Burkett, Wilford B., and A. J. Carsello, to McCulloch Corp. Storage battery case. 228,503, 10–2–73, Cl. D26—6.

Burkhardt, Albert E. Combined can closure and pouring spout. 226,945, 5–22–73, Cl. D9—275.

Burkhart, Merle K., F. S. Fell, and C. L. Case, to Hesston Corp. Combined mower conditioner and windrower. 228,010, 7–31–73, Cl. D40—1.

Burkholder, John W. Crankshaft calibrator degree wheel. 229,558, 11–20–73, Cl. D77—1.

Burland, Oliver J. Emergency warning light. 228,571, 10–9–73, Cl. D48—24.

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Burns, Robert T., A. K. Goetz, to Westinghouse Electric Corp. Area lighting luminaire. 228,361, 9–11–73, Cl. D48—31.

Burr, Robert P., and R. J. Keogh, to Photocircuits, divison of Kollmorgen Corp. Electric motor. 227,898, 7–24–73. Cl. D26—5.

Burridge, Robert E., to Litton Business Systems, Inc. Casing for hand manipulable transducer. 229,316, 11–20–73. Cl. D26—14.

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Burroughs, Robert C. Combined dial and hands for a timepiece. 226,123, 1–23–73, Cl. D42—1.

Burt, Charles M. Hanger for tools and the like. 227,522, 7–3–73, Cl. D6—85.

Burt, Harold R.: *See*—
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Butler, Paul H., B. E. Duggan, and J. S. Koonce, to Credex Corp. Data transceiver. 226,002, 1–16–73, Cl. D26—5.
Byerley, Darrell de Los, D. M. Banks, P. T. Kirwan, and W. I. Nelson. Electronic mosquito repeller. 228,652, 10–16–73, Cl. D22—19.
Byrne, David S., to Warner-Lambert Co. Jug or similar article. 227,654, 7–10–73, Cl. D9—39.
Byrne, David S., to Warner-Lambert Co. Combined bottle and cap therefor. 228,172, 8–21–73, Cl. D9—118.
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Bystedt, Dexter M., and T. R. Stanley, to Continental Can Co., Inc. Can or similar article. 226,177, 1–30–73, Cl. D9—216.
Bystedt, Dexter M., and T. R. Stanley, to Continental Can Co., Inc. Can or similar article. 226,178, 1–30–73, Cl. D9—216.
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Callaghan, John D., and R. Kaysen, to RCA Corp. Indoor antenna or similar article. 227,902, 7–24–73, Cl. D26—14.
Callahan, Emmett J. Combined-shower-sauna bathtub unit. 227,569, 7–3–73, Cl. D23—49.
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Cambrell, Vernon C. Fish locator. 227,885, 7–24–73, Cl. D22—99.
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Camp, Richard H. Storage bag for food or similar article. 227,044, 5–29–73, Cl. D87—1.
Campbell, Duncan H., to Wilson & Cousins Co., Ltd. Nozzle. 227,364, 6–19–73, Cl. D23—34.
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Carasso, Daniel, to Compagnie Gervais-Danone. Mold for comestibles or similar article. 226,530, 3–20–73, Cl. D44—1 L.
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Carey, Cecil D., to Humboldt Industries, Inc. Spiking machine. 229,325, 11–20–73, Cl. D35—2.
Cargill, Norman A., to Peripheral Dynamics, Inc. Line printer. 227,707, 7–10–73, Cl. D64—11.
Carlini, Anthony M. Lamp for helmets or the like. 226,677, 4–10–73, Cl. D48—24.
Carlisle Tire & Rubber, division of Carlisle Corp.: *See*—
Shughart, Mervin. 229,371.
Carlson, Arthur W., to E. H. Sheldon & Co. Laboratory table. 228,182, 8–21–73, Cl. D16—2.
Carney, Henry B. Packaging container. 229,300, 11–20–73, Cl. D9—224.
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Carreiro, Julian A., assignor of a fractional part interest to Angelo N. Giordano. Cue stick. 226,205, 1–30–73, Cl. D34—5.
Carreiro, Julian A., assignor of a fractional part interest to Angelo N. Giordano. Telescoping cue stick. 226,207, 1–30–73, Cl. D34—5.
Carreiro, Julian A.; assignor to Angelo N. Giordano, and Joseph R. Raio, fractional part interest to each. Bowling equipment bag. 226,458, 3–6–73, D87—5.
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Hoyle, Walter W. 226,914.
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Carroll, John W., to Digital Equipment Corp. Digital computer. 226,923, 5–15–72, Cl. D26—5.
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Carsello, Anthony J.: *See*—
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Carter, Howard B., to Rosedale Plastics (Containers) Ltd. Traffic marker. 227,173, 6–5–73, Cl. D72—1.
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Carter, Ronald D., to Stanley Works (Great Britain) Ltd. Plane. 229,477, 12–4–73, Cl. D8—101.
Carver, Richard N., to Louis Marx & Co. Vacuum ball holding and propelling device. 226,018, 1–16–73, Cl. D34—15.
Casad, Donald E. Beverage glass. 226,573, 3–27–73, Cl. D36—8.
Case, Cercil L.: *See*—
Burkhart, Merle K., Fell, and Case. 228,010.
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Casey, James P., and J. W. Fine, Jr., to Ethyle Development Corp. Bottle or similar article. 229,607, 12–18–73, Cl. D9—167.
Cassette Magnetics Corp.: *See*—
Baker, John M. 226,811.
Castelli, Charles, to Johnson & Johnson. Razor handle. 229,249, 11–13–73, Cl. D95—3.
Caterpillar Tractor Co.: *See*—
Babbitt, John H., Jr., Boyer, Olt, Schuck, and Stark. 229,687.
Grawey, Charles E., Koch, and Untz. 226,657.
Wetherill, Richard H., and Gregg. 226,518.
Catron, Robert. Hoop toy. 227,025, 5–29–73, Cl. D34—15.
Catto, Kenneth A., and H. R. Burt. Telephone answering device housing. 225,749, 1–2–73, Cl. D26—14.
Caunes, Andre. Ham product. 226,595, 4–3–73, Cl. D1—26.
Chapman, Norman L., to National Portion Control, Inc. Covered dish or similar article. 226,622, 4–3–73, Cl. D44—15.
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Cervallati, Francesco, to Kassnar Imports. Recoil pad for firearms. 227,248, 6–12–73, Cl. D22—9.





Cervantes, Joyce P. Doll. 228,559, 10–9–73, Cl. D34—2.
Chadburn, Walter J., to Aquasea, Inc. Water pick up for marine craft. 227,709, 7–10–73, Cl. D71—1.
Chadima, George E., Jr. Data entry unit. 228,137, 8–14–73, Cl. D26—5.
Chadima, George E., Jr. Combined data entry and distribution terminal. 229,564, 12–11–73, Cl. D26—5.
Chadima, George E., Jr. Combined data entry and distribution terminal. 229,615, 12–18–73, Cl. D26—5.
Chadwick, Daniel C. Wheel center unit. 225,989, 1–16–73, Cl. D14—30.
Chadwick, Donald T. Chair. 229,259, 11–20–73, Cl. D6—78.
Chadwick, Eric W., to TC Products. Lamp or the like. 229,506, 12–4–73, Cl. D48—20.
Chaffin, Lillian A. Protective garment for the arms. 226,744, 4–24–73, Cl. D2—27.
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Chambon, Rene, to Societe Francaise d'Equipement Menager. Hand-held hair-dryer. 227,615, 7–3–73, Cl. D86—10.
Chan, Anthony P. H., and H. J. Hall, to Syntex Corp. Electronic control console. 227,900, 7–24–73, Cl. D26—5.
Chan, Wai Y. to Stero Electric Ltd. Radio receiver. 228,576, 10–9–73, Cl. D56—4.
Chang, Ching-Yu. Chair. 228,593, 10–16–73, Cl. D6—55.
Chang, Henry M., to First Dynamics, Inc. Packaging container for liquids. 229,395, 11–27–73, Cl. D9—219.
Chapin, Richard M., to Dolly Madison Industries. Furniture panel or similar article. 225,957, 1–16–73, Cl. D6—193.
Chapin, Richard M., to Dolly Madison, Industries. Chair. 227,959, 7–31–73, Cl. D6—75.
Chapin, Richard M., to Dolly Madison Industries. Peal for furniture. 227,969, 7–31–73, Cl. D6—192.
Chapin, Richard M., to Dolly Madison Industries. Chair. 229,137, 11–13–73, Cl. D6—76.
Chapin, Richard M., to Dolly Madison Industries. Header for furniture. 229,264, 11–20–73, Cl. D6—192.
Chapman, Max D., to Steak and Ale Restaurants of America, Inc. Building. 227,449, 6–26–73, Cl. D13—1.
Chapman, Richard S. Safety restraint vest. 228,828, 10–30–73, Cl. D2—190.
Charles, Edwin D. Table. 226,599, 4–3–73, Cl. D6—20.
Charles, Edwin D. Table. 226,600, 4–3–73, Cl. D6—20.
Charles, Richard. Jewelry finding. 226,727, 4–17–73, Cl. D45—1.
Charlton, George G. Display rack for nuts and bolts or the like. 228,853, 10–30–73, Cl. D6—125.
Chase, David O., and M. V. Maloney, to Houdaille Industries, Inc. Sump pump. 227,168, 6–5–73, Cl. D65—1.
Chase, Raymond L. Ski. 227,688, 7–10–73, Cl. D34—14.
Chasen, Lee R., to Coats & Clark, Inc. Hinge. 225,823, 1–9–73, Cl. D8—189.
Chasen, Lee R., to Coats & Clark, Inc. Hinge. 225,824, 1–9–73, Cl. D8—189.
Chasen, Lee R., to Coats & Clark, Inc. Hinge. 225,825, 1–9–73, Cl. D8—189.
Chasen, Lee R., to Coats & Clark, Inc. Hinge. 225,826, 1–9–73, Cl. D8—191.
Chasen, Lee R., to Coats & Clark, Inc. Hinge. 225,827, 1–9–73, Cl. D8—191.
Chasen, Lee R., to Coats & Clark, Inc. Hinge. 225,828, 1–9–73, Cl. D8—191.
Chasen, Lee R., to Coats & Clark, Inc. Hanger for pictures, mirrors, plaques or the like. 225,967, 1–16–73, Cl. D8—257.
Chasen, Lee R., to Coats & Clark, Inc. Hinge. 226,602, 4–3–73, Cl. D8—191.
Chasen, Lee R., to Coats & Clark, Inc. Pull. 227,736, 7–17–73, Cl. D8—144.
Chasen, Lee R., to Coats & Clark, Inc. Pull. 227,737, 7–17–73, Cl. D8—147.
Chasen, Lee R., to Coats & Clark, Inc. Pull. 227,738, 7–17–73, Cl. D8—147.
Chasen, Lee R., to Coats & Clarks, Inc. Hinge. 227,740, 7–71–73, Cl. D8—189.
Chasen, Lee Richard, to Coats & Clark, Inc. Pull. 227,973, 7–31–73, Cl. D8—147.
Chasen, Lee R., to Coats & Clark, Inc. Pull. 228,486, 10–2–73, Cl. D8—139.
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Chodorow, Ingram S. Inter-dental flossing device. 227,869, 7–24–73, Cl. D24—1.
Chovanec, William, to Art Steel Co., Inc. Stretcher insert for the base of a file rack. 227,526, 7–3–73, Cl. D6—191.
Chow, Ken Tang. Electronic timepiece face. 229,436, 11–27–73, Cl. D42—1.
Christell, Charles L. Ring cooking utensil for hamburger patties. 227,533, 7–3–73, Cl. D7—43.
Christen, Andreas, to Knoll International Inc. Storage cabinet or similar article. 225,943, 1–16–73, Cl. D6—158.
Christen, Jack P., to Outers Laboratories, Inc. Bow string silencer. 226,429, 3–6–73, Cl. D22—5.
Christensen, Peder L. Holder for tubular insulation. 226,661, 4–10–73, Cl. D23—167.
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Clayton, LaVerne E., to Amerock Corp. Pull. 229,027, 11–6–73, Cl. D8—166.
Clayton, LaVerne E. Escutcheon plate for a pull. 229,294, 11–20–73, Cl. D8—179.
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Clayton, R. William: *See*—
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Clement, Richard H. Ribbed wheel center. 225,842, 1–9–73, Cl. D14—30.
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Cleminshaw, Douglas R, to Hall and McChesney Inc. Looseleaf binder. 228,826, 10–23–73, Cl. D97—2.
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Cobb, George R. Telephone sterilizer. 228,035, 7–31–73, Cl. D83—1.
Cobb, James C. A bottle. 226,704, 4–17–73, Cl. D9—158.
Cobb, Willard J., to Perry Electronics, Inc. Roller support mechanism or the like. 227,301, 6–12–73, Cl. D55—1.
Cockburn, Elizabeth A. M., to Tough Softy Tag Co. Ltd. Ear tag. 220,198, 11–13–73, Cl. D30—43.
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Cohen, Charles H., and V. F. Leonard, to Goldberg Plastics, Inc. Catheter. 226,290, 2–6–73, Cl. D83—12.
Cohen, Charles H., and V. F. Leonard, to Goldberg Plastics, Inc. Catheter retainer. 228,970, 10–30–73, Cl. D83—12.
Cohen, Judy A., to General Mills Fun Group, Inc. Puzzle board. 227,922, 7–24–73, Cl. D34—15.
Cohen, Judy A., to General Mills Fun Group, Inc. Puzzle board. 228,006, 7–31–73, Cl. D34—15.
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Cohen, Maurice. Display rack (A). 228,538, 10–9–73, Cl. D6—85.
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Coker, Cliff J., to Norma J. Coker. Exersiser. 226,439, 3–6–73, Cl. D34—5.
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De La Rosa, Richard, to ETL Corp. Tortilla serving dish. 228,114, 8–14–73, Cl. D7—17.
De Lauearede, Leonce M. H., to Prince, Le Petit. Manually manidulable educational game indicator. 228,242, 8–28–73, Cl. D34—5.
De Leo, Richard V., and F. W. Hagen, to Rosemount Inc. Aerodynamic pressure probe. 227,938, 7–24–73, Cl. D71—1.
Delgado, Adriano. Combined advertising and display booth. 226,653, 4–10–73, Cl. D13—1.
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Eckel, Alan F., to Sears, Roebuck and Co. Can opener. 227,972, 7–31–73, Cl. D8—36.
Eckel, Alan F., to Sears, Roebuck and Co. Combined can opener and knife sharpener. 229,602, 12–18–73, Cl. D8—35.
Eckel, Alan F., to Sears, Roebuck and Co. Can opener. 229,603, 12–18–73, Cl. D8—36.
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Edwards, Peter H., H. R. Geiger, and W. B. Ireland, to Multiron Properties, Inc. Multiple unit townhouse. 227,559, 7–3–73, Cl. D13—1.
Edwards, Walter J., to King of the Road Enterprises, Inc. Illuminable television support and room divider. 226,467, 3–13–73, Cl. D6—181.
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Ehrenreich, Hans G. Toy figure. 226,773, 4–24–73, Cl. D34—15.
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Ekdahl, Hans I., and S. E. O. Olofsson, to Handelsbolaget Under Frma Handels-Och Konsultfirman Ekdahl & Oloffsson. Loud speaker. 229,066, 11–6–73, Cl. D26—14.
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Fetty, Harold D., to The Goodyear Tire & Rubber Co. Tire. 229,487, 12–4–73, Cl. D12—151.
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Fiene, Gary. Carving guide. 228,866, 10–30–73, Cl. D7—105.
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Finke, Theodore R., to The Euclid Products Co., Inc. Collection box. 227,150, 6–5–73, Cl. D52—4.
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Fischer, Kenneth J. Mirror frame for trucks or the like. 225,988, 1–16–73, Cl. D14—6.
Fischer, Kenneth J. Rear view mirror. 227,561, 7–3–73, Cl. D14—6.
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Fishbein, Meyer. Case for battery powdered orthopedic surgical drill. 228,475, 9–25–73, Cl. D83—12.
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Fisher, Morris F., to Mohasco Industries, Inc. Chair. 225,800, 1–9–73, Cl. D6—71.
Fisher, Morris F. Chair. 227,958, 7–31–73, Cl. D6—69.
Fisher, Morris F., to Jackson Chair Co., Inc. Chair. 227,055, 6–5–73, Cl. D6—73.
Fisher, Morris F., to Jackson Chair Co., Inc. Chair. 227,056, 6–5–73, Cl. D6—73.
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Fisher, Morris F., to Jackson Chair Co., Inc. Sofa. 227,321, 6–19–73, Cl. D6—62.
Fisher, Morris F., to Jackson Chair Co., Inc. Chair. 227,323, 6–19–73, Cl. D6—68.
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Fisher, Morris F., to Jackson Chair Co., Inc. Chair. 229,595, 12–18–73, Cl. D6—71.
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Flemings, Missionary E. Combined bar and support for a television set. 228,482, 10–2–73, Cl. D6—144.
Fletcher, Helen H. Segmented flower guard. 228,007, 7–31–73, Cl. D35—3.
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Flickinger, Don J., to Hydroculture, Inc. Horticultural growing unit. 228,450, 9–25–73, Cl. D13—1.
Flickinger, Don J., to Hydroculture Inc. Horticultural growing unit. 228,451, 9–25–73, Cl. D13—1.
Flickinger, Don J., to Hydroculture Inc. Horticultural growing unit. 228,452, 9–25–73, Cl. D13—1.
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Florian, Gordon W., to General Signal Corp. Electric mixer housing. 226,958, 5–22–73, Cl. D44—1.
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Fontaine, Raymond C., to Textron Inc. Expansible link chain for a bracelet or similar article. 228,013, 7–31–73, Cl. D45—4.
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Forbes, John D., and J. J. Thompson, to Kellogg Co. Snack product or the like. 228,320, 9–11–73, Cl. D1—1.
Ford, Diana E., to The Metal Box Co. Ltd. Article of flatware. 227,539, 7–3–73, Cl. D7—138.
Ford, Diana E., to The British Box Co. Ltd. Plastic knife. 227,540, 7–3–73, Cl. D7—138.
Ford, Henry A., and R. H. David, to Lockheed Missiles & Space Co, Inc. Articulated truck with trailer. 229,403, 11–27–73, Cl. D14—3.
Ford, Henry A., D. R. Fleming, and J. F. King, to Lockheed Aircraft Corp. Articulated all terrain vehicle. 229,553, 12–11–73, Cl. D14—3.
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Forshee, Grace F. Hanging rack. 227,965, 7–31–73, Cl. D6—113.
Forsythe, Donald L., to The National Cash Register Co. Cash register or similar article. 227,928, 7–24–73, Cl. D52—4.
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Fortin, Joseph L. Basketball goal with support and ground engaging unit. 229,430, 11–27–73, Cl. D34—5.
Fortman, Lloyd D., J. G. Kasper, and J. N. Polivka, to Tennant Co. Surface maintenance machine. 227,695, 7–10–73, Cl. D49—9.
Fortriede, Charles J. Centerline gauge. 229,093, 11–6–73, Cl. D52—6.
Fortsy, William A., and J. R. Barnett, to Thermo King Corp. Truck body mounted refrigeration unit. 226,087, 1–23–73, Cl. D23—142.
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Foster, Michael N. Physician's spotlight. 228,085, 8–7–73, Cl. D48—20.
Foster, Robert D. Fishing lure. 226,082, 1–23–73, Cl. D22—28.
Foster, Talmadge E. Combined dental floss holder and applicator. 226,917, 5–15–73, Cl. D24—1.





Fox, Arthur J. Handbag. 226,993, 5–22–73, Cl. D87—3.
Fox, Earl, 50% to A. A. Pfaehler. Heavy equipment dolly. 227,881. 7–24–73. Cl. D143—3.
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France, George E. Hi-rise poultry building. 229,492, 12–4–73, Cl. D13—1.
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Francis, John P. Retractable window case structure and support therefor. 226,841, 5–8–73, Cl. D13—1.
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Francis, John P. Retractable window case structure and support therefor. 226,947, 5–22–73, Cl. D13—1.
Francis, John P. Retractable window case structure and support therefor. 226,948, 5–22–73. Cl. D13—1.
Francis, John P. Retractable window case structure and support therefor. 227,005, 5–29–73, Cl. D13—1.
Francis, John P. Retractable window case structure and support therefor. 227,088, 6–5–73, Cl. D13—1.
Francis, John P. Retractable window case structure. 227,353, 6–19–73, Cl. D13—1.
Francis, John P. Dog supported disposable waste bag for droppings. 229,321, 11–20–73, Cl. D30—99.
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Franzone, John. Indoor television antenna. 227,480, 6–26–73, Cl. D26—14.
Frascone, Donald. Swimming pool chlorinator. 228,655, 10–16–73, Cl. D23—3.
Frawley, Paul F., to John Inglis, Co. Ltd. Appliance handle. 229,291. 11–20–73. Cl. D8—166.
Frawley, Paul F., to John Inglis Co., Ltd. Appliance handle. 229,666, 12–25–73. Cl. D8—169.
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Freedman, Robert N., to Endura Appliance Corp. Housing for electric shears. 226,549, 3–27–73, Cl. D8—61.
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French, Alan, and A. E. Pryde, to Avid Corp. Portable sound manifold. 227,485, 6–26–73, Cl. D26—14.
French, Alan, and A. E. Pryde, to Avid Corp. Portable sound manifold. 227,486, 6–26–73, Cl. D26—14.
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Frey, Gerald J. Slide projector. 227,505, 6–26–73, Cl. D61—1.
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Fujii, Yasuo, A. Hashima, R. Sasaki, and T. Ohigashi, to Matsushita Electric Industrial Co., Ltd. Tuner for television receiver. 228,238, 8–28–73, Cl. D26—14.
Fujinami, Stuart Y. Fishing rod rack. 226,051, 1–23–73, Cl. D6—114.
Fujita, James T. Fishing spoon. 228,496, 10–2–73, Cl. D22—29.
Fujita, Ryuzo. Combined tape player and radio receiver therefor. 225,866, 1–9–73, Cl. D26—14.
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Gange, Frances L. Bracelet charm. 226,675, 4–10–73, Cl. D45—17.
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Ganger, Richard J., to Gruber Systems, Inc. Lavatory. 229,692. 12–25–73. Cl. D23—58.
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Garcia, Humberto A. Roaster. 229,656, 12–25–73, Cl. D7—64.
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Gatter, Adelaide L. An insect repellant container or similar article. 228,911, 10–30–73. Cl. D23—150.
Gaucher, Romeo O. Lawn swing. 227,630, 7–10–73, Cl. D6—52.
Gault, Clara H. Golf boot. 226,792, 5–1–73, Cl. D2—311.
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Gavette, Richard C., to Fortunoff Silver Sales, Inc. Spoon or similar article of flatware. 227,434, 6–26–73, Cl. D7—137.
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Gedell, Richard L. Combined can sealing plug and retainer ring therefor. 228,887, 10–30–73, Cl. D9—255.
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Geiger, Franklin O., to Farrington Business Machines Corp. Variable amount imprinter. 228,958, 10–30–73, Cl. D64—1.
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Geiser, William. Tobacco pipe or similar article. 227,713, 7–10–73, Cl. D85—8.
Gekas, Nicholas G., and B. H. Cree, to AMP Inc. Electrical connector. 228,659, 10–16–73, Cl. D26—1.
Genaro, Donald M., J. N. McGarvey, and F. A. Rosebrock, to Bell Telephone Laboratories, Inc. Multiple seating unit. 226,464, 3–13–73, Cl. D6—59.
Genaro, Donald M., and G. W. Reichard, Jr., to Bell Telephone Laboratories, Inc. Combination microphone and control stand for a loudspeaking telephone set. 226,487, 3–13–73, Cl. D26—14.
Genaro, Donald M., and G. E. Sylvester, to Bell Telephone Laboratories, Inc. Utility building. 227,354, 6–19–73, Cl. D13—1.
Genaro, Donald M., and C. W. Petty, to American Standard, Inc. Spout end. 227,363, 6–19–73. Cl. D23—32.
Genaro, Donald M., and C. W. Petty, to American Standard Inc. Combined kitchen faucet and handle. 227,465, 6–26–73, Cl. D23—23.
Genaro, Donald M., and C. W. Pelly, to American Standard Inc. Handle for a plumbing fitting. 227,466, 6–26–73, Cl. D23—29.
Genaro, Donald M., and C. W. Pelly, to American Standard Inc. Spout. 227,467, 6–26–73, Cl. D23—32.
Genaro, Donald M., and G. E. Sylvester, to Bell Telephone Laboratories, Inc. Building. 227,664, 7–10–73, Cl. D13—1.
Genaro, Donald M., A. A. Hagstrom, and G. Sylvester, to Teletype Corp. Data communications unit. 227,899, 7–24–73, Cl. D26—5.
Genaro, Donald M., and D. W. Tyler, to Bell Telephone Laboratories. Housing for telephone apparatus. 229,292, 9–4–73. Cl. D26—14.
Genaro, Donald M., to The Singer Co. Carrying case cover for a portable sewing machine. 229,365, 11–20–73, Cl. D87—1.
Genaro, Donald M., to The Singer Co. Sewing machine carrying case or similar article. 229,727, 12–25–73, Cl. D87—1.
Genaro, Joseph L., to Shur Brite Wax-O-Matic, Inc. Supporting frame for polishing apparatus. 228,572, 10–9–73, Cl. D49—12.
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Anderson, Eldon L., Jr. 226,326.
Anderson, Eldon L., Jr. 226,327.
Anderson, Eldon L., Jr. 226,534.
Anderson, Eldon L., Jr. 226,535.
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Anderson, Eldon L., Jr. 229,090.
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Binzer, Thomas J., Schmitt, and Wooding. 225,780.
Binzer, Thomas J., Schmitt, Wooding, Suganoya, and Cook, William J. 227,415.
Cook, William J. 227,571.
Cook, William J. 228,105.
Christie, Cornelius W. Jr., 228,363.
Daher, Theodore G. 226,529.
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Houlihan, John T. 229,439.
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Katoh, Akira. 226,866.
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Maliskas, John S. 226,385.
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Allen, Davis B. 227,063.
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General Mills Fun Group, Inc.: *See*—
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General Mills, Inc.: *See*—
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General Utility Equipment, Inc.: *See*—
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Generalis, Alexander L., and M. C. Roberto. Bicycle hanger. 229,166. 11–13–73. Cl. D8—235.
Genin, Robert I., to Questor Corp. Barn toy. 226,209, 1–30–73, Cl. D34—15.
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Gerdjikian, Dikran. Rotary wheel adjusting apparatus for dressing a grinding wheel. 228,650, 10–16–73, Cl. D37—1.
Gerdjikian, Dikran. Lever adjusting apparatus for dressing a grinding wheel. 228,651, 10–16–73, Cl. D37—1.
German, Ronald L. Motorcycle auxiliary tank. 229,612, 12–18–73. Cl. D12—155.
Gerstenberger, Robert T.: *See*—
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Gervis, Melvyn A.: *See*—
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Giandomenico, Nicholas, to Acme General Corp. Lock set end plate. 227,734. 7–17–73, Cl. D8—138.
Giandomenico, Nicholas, to Acme General Corp. Lock set end plate. 227,735, 7–17–73, Cl. D8—139.
Gianfagna, John L., to Sperry Rand Corp. Electromechanical article storage and retrieval unit. 227,000, 5–29–73, Cl. D6—189.
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Gibbs, Francis O., to Southern Mechanical Products Co. Rake. 225,958, 1–16–73, Cl. D8—13.
Gibbs, Kenneth E., to Bissell Inc. Hand held fluid dispenser and brush for cleaning upholstery or the like. 226,462, 3–13–73, Cl. D4—7.
Gibson, Ivan A. Boat. 227,605, 7–3–73, Cl. D71—1.
Gibson, Sidney, to Noresco Mfg. Co., Ltd. Loudspeaker module. 227,998, 7–31–73, Cl. D26—14.
Gielow, Robert L. Trouser hanger. 226,299, 2–13–73, Cl. D6—252.
Gifford, Paul E. Golf cart. 226,079. 1–23–73, Cl. D14—3.
Gilbert & Barker Mfg. Co.: *See*—
Day, Robert T., Jr., and Tompkins. 226,919.
Gilbert, Evalin S. Upholstered seat. 227,632. 7–10–73. Cl. D22—31.
Gilbert, Harold H. Fish cleaning tool. 228,286, 9–4–73, Cl. D22—31.
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**Gilbert, Stuart J., and K. T. 225,926.**
Gilbert Stuart J., and K. T., to Harter Corp. Chair or the like. 225,924, 1–16–73, Cl. D6—75.
Gilbert, Stuart J., and K. T., to Harter Corp. Seat. 225,926, 1–16–73, Cl. D6—2.
Gilbert, William A., to Clean City Squares, Inc. Advertising display refuse container. 8–28–73, Cl. D7—191.
Gilbrech, Donald A. Fork lift vehicle. 226,264. 2–6–73, Cl. D14—3.
Gilford, Ira B., and A. W. B. Nash, to Mattel, Inc. Toy truck. 226,121, 1–23–73, Cl. D34—15.
Gill, Don R., to Mohasco Industries, Inc. Chair. 225,929, 1–16–73, Cl. D6—68.
Gill, Don R., to Mohasco Industries, Inc. Chair. 227,207, 6–12–73, Cl. D6—71.
Gill, Don R., to Mohasco Industries, Inc. Chair. 227,322, 6–19–73, Cl. D6—68.
Gill, Don R., to Mohasco Industries, Inc. Combined chair and collapsible tray unit. 227,954, 7–31–73, Cl. D6—42.
Gill, Don R., to Mohacco Industries, Inc. Chair. 228,371, 9–18–73, Cl. D6—26.
Gill, Don R., to Mohasco Industries, Inc. Lounge chair. 228,591, 10–16–73, Cl. D6—39.
Gillespie, Harry R.: *See*—
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Gillespie, James F., to AMP Inc. Foldable electrical terminal having lances. 227,767. 7–17–73, Cl. D26—1.
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Klose, Odo. 227,829.
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Gilson, Channing W., to A-T-O Inc. Smoke detector. 226,508, 3–13–73, Cl. D72—1.
Ginaven, Marvin E., to The Bauer Bros. Co. Hopper type screen unit for classifying and separating liquids and solids. 226,398, 2–27–73, Cl. D55—1.
Ginaven, Marvin A., to The Bauer Bros. Co. Dewatering, separating and classifying apparatus. 229,055, 11–6–73, Cl. D23—4.
Ginsberg, S. Leonard. Lamp. 227,398, 6–19–73, Cl. D48—20.
Ginsburg, Arnold P. Table. 229,467, 12–4–73, Cl. D6—179.
Ginsburg, Arnold P. Table. 229,468, 12–4–73, Cl. D6—179.
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Carreiro, Julian A. 226,207.
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Giorgio, Della B., to International Designers Group, Inc. Calendar. 229,356. 11–20–73, Cl. D74—5.
Giovagnoli, Paul S.: *See*—
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Giovanni, Ralph S., to Buck Engineering Co., Inc. Student work bench. 227,328, 6–19–73, Cl. D6—157.
Glaberson, Martin, to Warner-Lambert Co. Tray for releasably engaging a razor and a blade cartridge dispenser. 226,478, 3–13–73, Cl. D9—186.
Glaberson, Martin, to Warner-Lambert Co. Dispenser for razor blade cartridges. 226,553, 3–27–73, Cl. D9—189.
Glaberson, Martin, to Warner-Lambert Co. Safety razor case. 226,754, 4–24–73, Cl. D9—186.
Glaberson, Martin, and R. J. Gould, to Warner-Lambert Co. Razor case or similar article. 227,232, 6–12–73, Cl. D9—186.
Glaberson, Martin, to Warner-Lambert Co. Combined razor, razor blade cartridge dispenser and holder therefor. 227,234, 6–12–73, Cl. D9—193.
Glaberson, Martin, to Warner-Lambert Co. Holder for a razor and a blade dispenser. 227,446, 6–26–73, Cl. D9—186.
Glaberson, Martin, to Warner-Lambert Co. Safety razor. 228,315. 9–1–73. Cl. D95—3.
Glaberson, Martin, to Warner-Lamber Co. Safety razor. 228,316, 9–4–73, Cl. D95—3.
Glaberson, Martin, to Warner-Lambert Co. Safety razor. 228,317, 9–4–73, Cl. D95—3.
Glaberson, Martin, and G. L. Schick, to Warner–Lambert Co. Safety razor. 228,318. 9–4–73. Cl. D95—3.
Glaberson, Martin, to Warner-Lambert Co. Case for a safety razor and blade dispenser. 228,629. 10–16–73, Cl. D9—186.
Glaberson, Martin, and R. J. Gould, to Warner-Lambert Co. Razor kit box or similar article. 228,745, 10–23–73, Cl. D9—186.
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Gladwin, Floyd R. Trash compactor cabinet. 227,155, 6–5–73, Cl. D55—1.
Glass, Edwin C., to Gregory Enterprises, Inc. Telephone security lock. 226,926, 5–15–73, Cl. D26—14.





Glazer, Alan. Dispensing closure or similar article. 228,447, 9–25–73, Cl. D9—279.



Gorishek, Paul J., to Gulf and Western Industries, Inc. Band retained stand-off mounting. 228,380, 9–18–73, Cl.

Glazer, Alan. Dispensing closure or similar article. 228,447, 9–25–73, Cl. D9—279.
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Seager, Richard H. 228,509.
Gleichert, Arthur A., 50% interest to Lela P. Gleichert. Combination toothbrush, closure cap and dentifrice container. 229,376, 11–27–73, Cl. D4—18.
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Gomez, Francine, to Societe Le Foyer. Ink marker. 228,690, 10–16–73, Cl. D74—17.
Gonzalez, Betty Jo. Toy dog. 229,572, 12–11–73, Cl. D34—2.
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Gordon, Kenneth A. H., and C. E. Chesnut, to The Reader's Digest Association, Inc. Educational game board. 227,686, 7–10–73, Cl. D34—5.
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Gorishek, Paul J., to Gulf and Western Industries, Inc. Band retained stand-off mounting. 228,380, 9–18–73, Cl. D8—234.
Gorman, John F. Liquid spray dispenser. 225,718, 1–2–73, Cl. D9—8.
Goto, Kenjiro, to Mansei Kogyo Kabushiki Kaisha. Cigarette lighter. 226,581, 3–27–73, Cl. D48—27.
Goto, Kenjiro, to Mansei Kogyo Kabushiki Kaisha. Cigarette lighter. 226,678, 4–10–73, Cl. D48—27.
Goto, Kenjiro, to Mansei Kogyo Kabushiki Kaisha. Cigarette lighter. 226,679, 4–10–73, Cl. D48—27.
Goto, Kenjiro, to Mansei Kogyo Kabushiki Kaisha. Cigarette lighter. 226,680, 4–10–73, Cl. D48—27.
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Goto, Kenjiro. Cigarette lighter. 227,924, 7–24–73, Cl. D48—27.
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Graham, Bette C., to Liquid Paper Corp. Jar. 227,003, 5–29–73, Cl. D9—141.
Graham, Harold, and V. L. Stanfield, assignor of a fractional part interest to Almeta C. Dean. Ornamental puzzle toy. 226,017, 1–16–73, Cl. D34—15.
Graham, Michael M. Combined ashtray and toilet paper holder. 227,212, 6–12–73, Cl. D6—91.
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Gramling, James T., to Gramling Tool & Die, Inc. Hydraulic punch. 228,682, 10–16–73, Cl. D63—1.
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Greenlee, Hugh T., to W. R. Grace, & Co. Processing machine for printing plate registration. 228,414, 9–18–73, Cl. D55—1.
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Greubel, Jurgen, to Braun Aktiengesellschaft. Stand for a hairdryer. 225,934, 1–16–73, Cl. D6—85.
Greubel, Jurgen, to Braun Aktiengesellschaft. Holder for a hairdryer. 225,937, 1–16–73, Cl. D6—130.
Greubel, Jurgen, to Braun A.G. Automatic juice maker. 226,345, 2–13–73, Cl. D89—1.
Grieder, Charles K. Toy seal. 228,931, 10–30–73, Cl. D34—15.
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Grief, Francis, to British & International Proprietaries Ltd. Telephone index. 226,288, 2–6–73, Cl. D74—1.
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Griffith, Thomas B., to American Racing Equipment. Wheel 227,665, 7–10–73, Cl. D14—30.
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Grimes, Gary S. Measuring spoon. 228,722, 10–23–73, Cl. D7—50.
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Grosse, Wolfgang C. F. Letter tray. 229,108, 11–6–73, Cl. D74—9.
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Grube, Alvin. Covered punch bowl or the like. 229,387, 11–27–73, Cl. D7—61.
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Guhl, Jay R.: assignor of a fractional part interest to Dean W. Park. Bale wire tying and cinching tool. 226,256, 2–6–73, Cl. D8—44.
Guhl, Jay R., ½ interest to Dean W. Park. Horizontal refuse baler. 229,441, 11–27–73, Cl. D55—1.
Guhl, Jay R., to ½ to W. Dean Park. Refuse baler. 229,508, 12–4–73, Cl. D55—1.
Guillon, Jacques. Sofa. 225,799, 1–9–73, Cl. D6—63.
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Gulotta, Gerald, to Block China Corp. Cup. 227,134, 6–5–73, Cl. D44—9.
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Gutowski, Antoni P., and C. C. Stoutenberg, to The Stanley Work. Center square. 229,224, 11–13–73, Cl. D52—6.
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Shuford, Grady W. 226,623.
Haaheim, Lars H., and T. Schiefloe. Combined push button telephone and intercommunication unit. 225,745, 1–2–73, Cl. D26—14.
Haaheim, Lars H., and T. Schiefloe. Combination system of a dial telephone and an intercommunication system. 225,747, 1–2–73, Cl. D26—14.
Habuda, James D. Golf game board. 226,104, 1–23–73, Cl. D34—5.
Hackman, Amos W., to Emerson Electric Co. Insulator for an electric heating element. 226,435, 3–6–73, Cl. D26—10.
Haem, Marcel P. D., and W. L. Jones, to Chicago Pneumatic Tool Co. Portable pneumatically powered hydraulic pump. 228,961, 10–30–73, Cl. D65—1.
Haft, Howard S., to Art Specialty Co. Phototherapy lamp. 226,021, 1–16–73, Cl. D48—20.
Hagemann, Robert C., J. A. McAvoy, J. L. Prokop, and R. F. Thompson, to Burroughs Corp. Telephone terminal. 227,265, 6–12–73, Cl. D26—14.
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Halberstadt, Lewis J., to Vistron Corp. Tooth stain-remover tip for toothbrushes and the like. 228,702, 10–23–73, Cl.
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Halberstadt, Lewis J., to Vistron Corp. Tooth stain-remover tip for toothbrushes and the like. 228,703, 10–23–73, Cl. D4—24.

Halberstadt, Lewis J., Vistron Corp. Tooth stain-remover for toothbrushes and the like. 228,704, 10–23–73, Cl. D4—24.

Halberstadt, Lewis J., to Vistron Corp. Tooth stain-remover tip for toothbrushes and the like. 228,981, 11–6–73, Cl. D4—24.

Hale, James W., to Anchor Hocking Corp. Tumbler or similar article. 225,762, 1–2–73, Cl. D36—8.

Hale, John F., and F. J. Miller. Twirling baton. 225,755, 1–2–73, Cl. D34—5.

Hale, John F. and F. J. Miller. Resilient ball for a twirling baton. 226,616, 4–3–73, Cl. D34—5.

Hall, Albert E., and B. A. Thompson. Rope fastener. 228,736, 10–23–73, Cl. D8—229.

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Hall, Merwin G. Height measuring scale. 228,670, 10–16–73, Cl. D52—6.

Hall, Richard B., to Sunbeam Corp. Electric scissors. 228,615, 10–16–73, Cl. D8—61.

Hall, Richard B., to Sunbeam Corp. Upper housing for an electric hand mixer. 225,765–6, 1–2–73, Cl. D44—1.

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Halpin, Christopher J. and C. E., and E. K. Frisch. Utensil scraper. 227,732, 7–17–73, Cl. D7—184.

Hamada, Masanori, to Matsushita Electric Industrial Co., Ltd. Amplifier. 228,505, 10–2–73, Cl. D26—14.

Hamisch, Paul H., Jr.: *See*—
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Hancovsky, John P., to Hi-Ho Products, Inc. Toy construction piece. 226,491, 3–13–73, Cl. D34—15.

Hancovsky, John P., to Hi-Ho Products, Inc. Toy construction piece. 226,492, 3–13–73, Cl. D34—15.

Hand, Claude E. Trailer waste outlet coupling with oppositely threaded female member. 227,763, 7–17–73, Cl. D23—43.

Hand, Claude E. Trailer waste outlet coupling with reversely threaded members. 229,496, 12–4–73, Cl. D23—43.

Hand, John E. Medal. 226,086, 1–23–73, Cl. D29—23.

Hand, John E. Medal. 227,018, 5–29–73, Cl. D29—23.

Hand, John E. Medal. 227,019, 5–29–73, Cl. D29—23.

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Hanig, Harvey, and D. P. Mastrovito, to Standard Oil Co. Insulated ice chest or similar article. 225,884, 1–9–73, Cl. D44—1.

Hanna, Richard M. Fishing lure. 226,191, 1–30–73, Cl. D22—27.

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Hannaman, Donald K., to Rigel Manufacturing Co. Lens ending machine. 228,935, 10–30–73, Cl. D37—1.

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Hannon, Charles N. 225,774.

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Hanson, Alden B., and C. A., to Hanson Industries Inc. Ski boot. 228,531, 10–9–73, Cl. D2—276.

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Harmon, Jack M., to Jac Raft, Inc. Portable boat. 228,312, 9–4–73, Cl. D71—1.

Harper, Marie R. Floating tray for soaps and lotions or the like. 226,693, 4–10–73, Cl. D86—10 A.

Harper, Robert T., Jr.: *See*—
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Harrell, Charles R. Frame front for spectacles. 228,804, 10–23–73, Cl. D57—1.

Harrell, Charles R. Spectacle frame front. 228,805, 10–23–73. Cl. D57—1.

Harrell, Charles R. Frame front for spectacles. 228,806, 10–23–73, Cl. D57—1.

Harrell, William H. Garbage can rack. 228,727, 10–23–73, Cl. D7—189.

Harris, Ewell J. Fish lure. 226,710, 4–17–73, Cl. D22—28.

Harris, Ewell J. Fish line stabilizer and sinker. 227,249, 6–12–73, Cl. D22—27.

Harris, Ewell J. Fish lure having a bead in its mouth. 227,250, 6–12–73, Cl. D22—29.

Harris, Ewell J. Fish lure. 228,184, 8–21–73, Cl. D22—27.

Harris, Ewell J. Fish lure. 228,551, 10–9–73, Cl. D22—27.

Harris, Ewell J. Fish lure. 228,853, 10–16–73, Cl. D22—29.

Harris, W. J. (Birmingham) Ltd.: *See*—
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Harris, William F., Jr. Base for outdoor lighting fixture. 225,769, 1–2–73, Cl. D48—31.

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Harrison, Larry, to Xerox Corp. Educational device for demonstrating momentum. 226,662, 4–10–73, Cl. D25—1.

Harrison, Theresa Deraline. Glove. 228,160, 8–21–73, Cl. D2—364.

Harrison & Pinder Ltd.: *See*—
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Koepke, Earl H. 226,749.

Hartill, William. Calked horse shoe. 225,869, 1–9–73, Cl. D30—35.

Hartman, Raymond. Boot jack. 227,188, 6–5–73, Cl. D86—10.

Hartmeister, Joel T. Combined nutcracker and bowl. 226,815, 5–1–73, Cl. D44—1.

Harty, Millard F., Jr.: *See*—
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Harty, Millard F., Jr., to Motor Wheel Corp. Air distribution unit for roof-mounted vehicle air conditioner. 226,381, 2–27–73, Cl. D23—142.

Hartz Mountain Pet Foods, Inc.: *See*—
Kissin, Claud W. 228,646.
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Hassman, Jeffrey, to Jacoby-Bender, Inc. Watch mounting link for watch bracelet. 228,248, 8–28–73, Cl. D45—4.

Hata, Kotaro, S. Morita, S. Kubota, K. Kagayama, and T. Yaso, to Matsushita Electric Industrial Co., Ltd. Velocipede. 227,128, 6–5–73, Cl. D34—15.





Hatfield, William C., and J. M. Reed, to Electronic Communications Services Inc. Telephone unit test set. 226,769, 4–24–73, Cl. D26—14.

Hatton, Sylvia A. Signaling garment. 229,721, 12–25–73, Cl. D72—1.

Hauenstein, Max C., to General Electric Co. Electric oven toaster or similar article. 226,404, 2–27–73, Cl. D81—10.

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Haueter, Robert E., to The Telex Corp. Housing for teaching machine. 228,135, 8–14–73, Cl. D25—1.

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Hawkins, Paul M., and J. H. Lee, to Minnesota Mining and Manufacturing Co. Alarm latch. 228,620, 10–16–73, Cl. D8—131.

Hawley, Harry R., to American Can Co. Cover for a food storage dish. 228,216, 8–28–73, Cl. D7—131.

Haworth, Chester M., Jr., and F. R. Larmer. Portable flexible body-massage device. 226,875, 5–8–73, Cl. D83—1.

Hayes, Thomas H., to Eli Lily and Co. Display Case. 227,877, 7–24–73, Cl. D8—233.

Haynes, Julian R., to Sunbeam Corp. Tool holder for vacuum cleaner or the like. 226,822, 5–1–73, Cl. D49—17.

Haynes, Julian R., to Sunbeam Corp. Coffeemaker. 227,143, 6–5–73, Cl. D44—26.

Haynes, Julian R., to Sunbeam Corp. Electric vacuum cleaner. 227,694, 7–10–73, Cl. D49—14.

Hazama, Shigetoshi, to Sharp Kabushiki Kaisha. Electronic calculating machine. 226,004, 1–16–73, Cl. D26—5.

Hazama, Shigetoshi, to Sharp Kabushiki Kaisha (Sharp Corp.). Electronic calculating machine. 226,525, 3–20–73, Cl. D26—5 C.

Hazama, Shigetoshi, to Sharp Kabushiki Kaisha. Electronic calculating machine. 228,290, 9–4–73, Cl. D26—5.

Hazard, Robert E., to Polytop Corp. Dispensing closure. 226,806, 5–1–73, Cl. D9—275.

Hazell, Norman C., J. N. McGarvey, R. E. Prescott, and R. R. Stokes, to Bell Telephone Laboratories, Inc. Telephone handset. 227,782, 7–17–73, Cl. D26—14.

Healy, Howard G., to Medigenics Inc. Artificial kidney tank 228,693, 10–16–73, Cl. D83—1.

Hebel, Walter, Kommanditgesellschaft: *See*—
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Hecht, Jay R. Fan. 225,853, 1–9–73, Cl. D23—165.

Heckel, Donald T., W. R. Hill, and R. H. Pfeiffer, to GTE Sylvania Inc. Night viewing device. 228,027, 7–31–73, Cl. D57—1.

Hecker, Zvi. Lamp. 227,693, 7–10–73, Cl. D48—20.

Hecker, Zvi. Chair. 228,429, 9–25–73, Cl. D6—47.

Hecker, Zvi. Table. 228,430, 9–25–73, Cl. D6—146.

Hedrick, John R., and G. D. Peverly, to The Columbus Dental Mfg. Co. Dental prophylaxis instrument. 227,369, 6–19–73, Cl. D24—1.

Heenan, Sidney A., to Amerace Esna Corp. Combined reflector and lens. 227,172, 6–5–73, Cl. D72—1.

Hehs, Allen B., to Bud Radio Inc. Flip-top instrument cabinet. 229,699, 12–25–73, Cl. D26—5.

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Heilman, G., Brewing Co. Inc.: *See*—
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Heinrich, Oelmann. Curtain fabric. 227,591, 7–3–73, Cl. D47—6.

Heinrichs, Roland P., to Uniwave, Inc. Lantern for indication machinery status. 228,416, 9–18–73, Cl. D72—1.

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Heinze, Don M.: *See*—
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Helgesson, Ulf R., to Seaco Computer-Display Inc. Microfilm viewer-copier or the like. 226,683, 4–10–73, Cl. D61—1 N.

Helgesson, Ulf, to Diatek, Inc. Electronic thermometer instrument case. 227,802, 7–17–73, Cl. D52—7.

Heller, Karen G. Box. 229,550, 12–11–73, Cl. D9—198.

Helverson, Donald E. Combined desk, seat and storage unit. 225,796, 1–9–73, Cl. D6—43.

Helwig, Frederick C., to Construction Specialties, Inc. Grille. 229,094, 11–6–73, Cl. D54—2.

Hendrickson, Ruth E. Appliance cover. 229,653, 12–25–73, Cl. D6—269.

Heniges, William B. Slalom toboggan. 226,937, 5–15–73, Cl. D34—15.

Henney, Alma A. Toy clown figure. 226,276, 2–6–73, Cl. D34—4.

Henning, Steven A., and P. G. Miller, to American Playground Device Co. Playground climbing bars. 226,318, 2–13–73, Cl. D34—5.

Henning, Steven A., and P. G. Miller, to American Playground Device Co. Playground apparatus. 227,792, 7–17–73, Cl. D34—5.

Henry, Charles T. Newspaper collection container. 229,473, 12–4–73, Cl. D7—191.

Henry, Donald L. Artificial log. 228,765, 10–23–73, Cl. D23—94.

Henson, Carl G. Bracket for centering a camper unit within a truck bed. 226,604, 4–3–73, Cl. D14—6.

Henthorn, Emerson: *See*—
Rust, Roy W., Weigel, Shearin, and Henthorn. 227,637.

Herman Miller, Inc.: *See*—
Iskander, Farid A. 228,986.
Propst, Robert L., and Kelley. 225,936.

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Klepa, Peter P., and Hermann. 226,566.

Hermanson, Merril, to Mr. Christmas Inc. Reflector for a lamp. 228,569, 10–9–73, Cl. D48—16.

Hermanson, Terry, to Mr. Christmas Inc. Adapter for mounting limbs on artificial trees. 226,173, 1–30–73, Cl. D8—255.

Hermanson, Terry, to Mr. Christmas, Inc. Combined bulb and husk-adaptor unit for decorative lights. 226,924, 5–15–73, Cl. D26—8.

Hernandez, Jose A., and G. H. McReynolds, Jr., to Esquire, Inc. Light fixture. 225,768, 1–2–73, Cl. D48—20.

Hero, Franz, and K. Odermatt, to Interlubke Gebr. Lubke KG. Desk. 229,465, 12–4–73, Cl. D6—168.

Herr, Lewis H.: *See*—
Kovacs, John S., and Herr. 228,192.

Hess, Stanley C., to Superior Industries. Gear shifter. 227,245, 6–12–73, Cl. D14—6.

Hesston Corp.: *See*—
McCanse, James E., and Gecan. 227,498.

Heublein, Inc.: *See*—
Burkhart, Merle K., Fell, and Case. 228,010.
McTear, James R. 229,151.
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Hewlett-Packard Co.: *See*—
Liljenwall, Edward T. 226,196.
Liljenwall, Edward T. 226,197.
Liljenwall, Edward T. 226,858.
Liljenwall, Edward T. 227,261.
Mathis, Barry R. 227,298.

Hey-Shirton, Arthur D. Lifting jack. 227,394, 6–19–73, Cl. D41—1.

Heyl, Donald C., and H. R. Gillespie. Child's car seat. 227,828, 7–24–73, Cl. D6—9.

Heymann, Richard C., IV. Telephone security device. 227,575, 7–3–73, Cl. D26—14.

Hi-Ho Products, Inc.: *See*—
Hancovsky, John P. 226,491.
Hancovsky, John P. 226,492.

Hi-Shear Corp.: *See*—
Wing, George S. 225,971.

Hi-Tech Industries, Inc.: *See*—
Feldman, Jerome M. 228,888.

Hickman, Jack. Freight car body. 226,537, 3–20–73, Cl. D66—1.

Hickman, Jack. Tank car body. 226,825, 5–1–73, Cl. D66—1.

Hickman, Jack. Bulk materials car body. 228,096, 8–7–73, Cl. D66—1.

Hicks, Alan A., to Kohner Bros., Inc. Puzzle. 228,772, 10–23–73. Cl. D34—15.

Highberger, Samuel M., to Massey-Ferguson Inc. Tractor. 227,243, 6–12–73, Cl. D14—3.

Hikawa, Koji, to Kabushiki Kaisha. Electronic calculator. 227,472, 6–26–73, Cl. D26—5.

Hikawa, Koji, to Kabushiki Kaisha Ricoh. Electrostatic copier. 228,151, 8–14–73, Cl. D61—1.

Hilbert, Oscar L. Perpetual calendar. 228,153, 8–14–73, Cl. D74—5.

Hildebrand, Mark L. Architectural unit. 229,677, 12–25–73, Cl. D13—1.

Hildebrand, Mark L. Architectural unit. 229,678, 12–25–73, Cl. D13—1.

Hildebrand, Mark L. Architectural unit. 229,679, 12–25–73, Cl. D13—1.

Hildebrand, Mark L. Architectural unit. 229,680, 12–25–73, Cl. D13—1.

Hildebrand, Mark L. Architectural unit. 229,681, 12–25–73, Cl. D13—1.

Hildebrand, Mark L. House. 229,682, 12–25–73, Cl. D13—1.

Hildebrand, Mark L. House. 229,683, 12–25–73, Cl. D13—1.

Hildebrand, Mark L. Architectural unit. 229,684, 12–25–73, Cl. D13—1.

Hildebrand, Mark L. Housing module. 229,685, 12–25–73, Cl. D13—1.

Hildebrand, Mark L. Architectural unit. 229,686, 12–25–73, Cl. D13—1.

Hilgendorff, Norman A.: *See*—
Hilgendorff, Wayne P., S. J., and N. A. 228,597.
Hilgendorff, Wayne P., S. J., and N. A. 228,844.
Hilgendorff, Wayne P., S. J., and N. A. 228,845.
Hilgendorff, Wayne P., S. J., and N. A. 228,597.

Hilgendorff, Wayne P., S. J., and N. A. Combined tooth brush holder and toothpaste dispenser. 228,597, 10–16–73, Cl. D6—91.

Hilgendorff, Wayne P., S. J. Hilgendorff, and N. A. Hilgendorff. Liquid dispenser. 228,844, 10–30–73. Cl. D6—95.

Hilgendorff, Wayne P., S. J. Hilgendorff, and N. A. Hilgendorff. Dispenser for liquid or the like. 228,845, 10–30–73, Cl. D6—95.

Hilgendorff, Wayne P., S. J. Hilgendorff, and N. A. Hilgendorff. Dispenser for liquid or the like. 228,846, 10–30–73, Cl. D6—95.

Hilgendorff, Wayne P., S. J. Hilgendorff, and N. A. Hilgendorff. Liquid soap dispenser. 228,847, 10–30–73. Cl. D6—95.





Hilgendorff, Wayne P., S. J. Hilgendorff, and N. A. Hilgendorff. Dispenser for liquid or the like. 228,848, 10–





Holes-Webway Co., The: *See*—
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Hill, Frederick M.: *See*—
Elliles, Alan D., Hill, and Murray.
Hill, Joseph A., to Lien Chemical Co. Room deodorant vaporizing casing. 226,433, 3–6–73, Cl. D23—148.
Hill, Robert L., to The Gillette Co. Dispensing container. 225,830, 1–9–73, Cl. D9—3.
Hill, Robert L., to The Gillette Co. Hair dryer. 228,697, 10–16–73, Cl. D86—10.
Hill-Rom Co., Inc.: *See*—
Schultz, John R., Sharer, and Heidacher.
Hill, William R.: *See*—
Heckel, Donald T., Hill, and Pfeiffer.
Hillis, Donald A. Holder for coasters. 226,215, 1–30–73, Cl. D44—10.
Himmel, Mitchell A. Blender top or similar article. 227,541, 7–3–73, Cl. D7—154.
Hines, Stephen P., to Eastman Kodak Co. Microfilm reader. 228,204, 8–21–73, Cl. D61—1.
Hines, Stephen P. Viewing screen housing for a microfilm reader. 228,206, 8–21–73, Cl. D61—1.
Hinkel, Walter W., to The Goodyear Tire & Rubber Co. Tire. 229,245, 11–13–73, Cl. D90—20.
Hinton, Margaret R. Bed. 228,991, 11–6–73, Cl. D6—83.
Hirano, Yukio: *See*—
Naito, Masatoshi, and Hirano.
Hirooka, Yoshio. Net for scooping fish. 228,495, 10–2–73, Cl. D22—22.
Hirsch, Burton: *See*—
Conroy, Robert, Fleming, Hirsch, Redel, and Steinhilber.
Hirsh Co., The: *See*—
Ferdinand, Irwin J., and Kulbersh.
Hirt, Andrew J., to Hanger Supply Co. Hanger clamp. 228,877, 10–30–73, Cl. D8—235.
Hirtz, Gertrude B. Ladies purse. 227,945, 7–24–73, Cl. D37—3.
Hitachi Cable, Ltd.: *See*—
Tsunokawa, Kiyoo, Yoshida, Konishi, Morita, and Nishikawa.
Hitachi, Ltd.: *See*—
Furukawa, Masaaki.
Koshido, Yasuhiro, and Kamiya.
Masuda, Michiko, and Furukawa.
Ohira, Yoshikuni, and Furukawa.
Hoagland, Peter S. Transparent drafting device having raised handle device. 226,226, 1–30–73, Cl. D52—6.
Hock, Donal D.: *See*—
Korte, Erwin N., and Hock.
Korte, Erwin N., and Hock.
Hodge, Lynn H. Periscope-type rear view mirror. 229,556, 12–11–73, Cl. D14—6.
Hodge, Lynn H. Periscope-type rear view mirror. 229,557, 12–11–73, Cl. D14—6.
Hodges, Frederick R. Drinking glass. 229,007, 11–6–73, Cl. D7—14.
Hodges, Ronald: *See*—
Andrus, William C., Fries, and Hodges.
Hodgson Houses, Inc.: *See*—
Coplon, Edward H.
Hoehne, George. Combined microfiche reader and projector. 228,207, 8–21–73, Cl. D61—1.
Hofacker, Otto W. Fishing lure. 229,308, 11–20–73, Cl. D22—27.
Hoffman, Hans, to Telesco Brophey Ltd. Carrying case for a flat folded umbrella. 228,101, 8–7–73, Cl. D87—1.
Hoffman, Harold Clarence, to The Gillette Co. Combined bottle and cap. 228,281, 9–4–73, Cl. D9—144.
Hoffman, Louis, to Hold-All Mfg. Co., Inc. Shoe rack. 225,802, 1–9–73, Cl. D6—116.
Hoffman, Ronald C. Corrosion proof terminal for aluminum wire conductor. 227,254, 6–12–73, Cl. D26—1.
Hoffmann, Ewald, to Bock & Schupp. Watch dial. 226,214, 1–30–73, Cl. D42—1.
Hofland, Robert M., and J. W. Stringer, to International Business Machines Corp. Magnetic tape transport. 228,917, 10–30–73, Cl. D26—5.
Hoftman, Donald, to Coleco Industries, Inc. Snow ve icle. 227,687, 7–10–73, Cl. D34—15.
Hogg, John M. In-wall fire extinguisher. 228,900, 10–30–73, Cl. D16—2.
Hoglund, Edward. Golf putter head. 228,929, 10–30–73, Cl. D34—5.
Hogue, Robert M., and D. N. Emmerich; said Emmerich assignor to said Hogue. Electronic photo flash unit. 226,331, 2–13–73, Cl. D61—1.
Hohulin, Samuel E., to National Union Electric Corp. Suction cleaner. 228,058, 8–7–73, Cl. D7—168.
Hoke, Gilbert J., to Dunlop Tire and Rubber Corp. Tire. 299,488, 12–4–73, Cl. D12—151.
Holc, Henry S., and H. E. Wilkinson, to American Can Co. Container end. 226,171, 1–30–73, Cl. D9—253.
Holce, Thomas J., to Kentrox Industries, Inc. Security alarm system control module. 227,036, 5–29–73, Cl. D72—1.
Hold-All Mfg. Co., Inc.: *See*—
Hoffman, Louis.
Holder, John H., to Gladys M. Bryant. Aligner base. 226,065, 1–23–73, Cl. D8—71.
Holes-Webway Co., The: *See*—
Stahel, Alwin John, II.
Stahel, Alwin J., II.
Holiday-Hut Manufacturing Co., Inc.: *See*—
Johnson, Levert R.
Holladay, Joseph A. Foot massager or similar article. 228,967, 10–30–73, Cl. D83—1.
Holler, Frank A.: *See*—
King, Radford G., and Holler.
Holleran, Thomas M., and F. T. Green. Hockey contest structure. 229,205, 11–13–73, Cl. D34—5.
Hollingsworth, Alfred D. Stool or similar article. 226,545, 3–27–73, Cl. D6—34.
Hollister, Harry, W. Combined cigarette snuffer and ashtray liner or similar article. 228,036, 7–31–73, Cl. D85—2.
Holm, Dennis J.: *See*—
Kurtenbach, Aelred J., and Holm.
Holman, Clarence C. Rocking horse plaything. 225,759, 1–2–73, Cl. D34—15.
Holmberg, Gote E. Y. Buckle for safety belts. 229,645, 12–25–73, Cl. D2—408.
Holme, Christian A., to Colgate-Palmolive Co. Combined jug and cap therefor. 228,741, 10–23–73, Cl. D9—43.
Holmes, Brian H., to Dunlop Ltd. Tire. 229,247, 11–13–73, Cl. D90—20.
Holmes, Frank, G. Read, and W. A. Moore, to Ajax Hardware Mfg. Corp. Drawer with integral handle. 228,167, 8–21–73, Cl. D6—191.
Holmes, Frank, G. Read, and W. A. Moore, to Ajax Hardware Mfg. Corp. Drawer. 229,143, 11–13–73, Cl. D6—191.
Holmes, Thomas, Corp., The: *See*—
Patron, Howard F.
Holophane Co., Inc.: *See*—
Lewin, Ian.
Wince, Vearl S., and Bobrick.
Holtz, Raymond S. Automobile stop indicator for garage use. 226,459, 3–6–73, Cl. D96—12.
Holtzman, Norman, to Hanson-Hawk, Inc. Light. 226,022. 1–16–73, Cl. D48—24.
Holtzman, Norman, to Hanson-Hawk, Inc. Multimeter casing. 226,271, 2–6–73, Cl. D26—1.
Holtzworth, Lawrence I., and Z. J. Varga. Anti-theft steering wheel locking apparatus. 228,875, 10–30–73, Cl. D8—113.
Homecraft Products, Inc.: *See*—
Patron, Howard E.
Honeywell Inc.: *See*—
Dahl, William R.
Quinn, Peter T.
Quinn, Peter T.
Quinn, Peter T.
Stucks, Edward P.
Wolfe, Norbert T.
Honeywell Information Systems, Inc.: *See*—
Kline, George H.
Hoog, Dixon R. Fish stringer or similar article. 228,760, 10–23–73, Cl. D22—24.
Hoover Ball and Bearing Co.: *See*—
Platte, Richard L.
Platte, Richard L.
Hoover Co., The: *See*—
Oxel, Berton R.
Hopkins, Frank, Jr. Auxiliary cab for a pickup truck. 229,489, 12–4–73, Cl. D12—156.
Hopper, Henry: *See*—
Dekorte, Peter, and Hopper.
Hoppesch, Joseph P.: *See*—
Shiber, Samuel, and Hoppesch.
Horgan, William J., Jr., to Blumcraft of Pittsburgh. Door. 225,734, 1–2–73, Cl. D13—1.
Horgan, William J., Jr. Door. 225,978, 1–16–73, Cl. D13—1.
Horgan, William J., Jr. Door. 225,979, 1–16–73, Cl. D13—1.
Horgan, William J., Jr. Door. 225,980, 1–16–73, Cl. D13—1.
Horgan, William J., Jr. Door. 226,261, 2–6–73, Cl. D13—1.
Horgan, William J., Jr., to Blumcraft of Pittsburgh. Panic door handle. 226,365, 2–27–73, Cl. D8—149.
Horgan, William J., Jr. Door. 226,556, 3–27–73, Cl. D13—1.
Horgan, William J., Jr., to Blumcraft of Pittsburgh. Door. 226,654, 4–10–73, Cl. D13—1.
Horgan, William J., to Blumcraft of Pittsburgh. Combined door handle and lock housing. 228,060, 8–7–73, Cl. D8—138.
Horgan, William J., Jr., to Blumcraft of Pittsburgh. Combined handle and lock housing. 228,115, 8–14–73, Cl. D8—138.
Horgan, William J., Jr., to Blumcraft of Pittsburgh. Combined panic device, handle, and lock housing set. 228,116, 8–14–73, Cl. D8—149.
Horgan, William J., Jr. Combined panic device, handle, and lock housing set. 228,734, 10–23–73, Cl. D8—138.
Horgan, William J., Jr., to Blumcraft of Pittsburgh. Door handle, lock housing and plate ensemble. 229,024, 11–6–73, Cl. D8—138.
Horgan, William J., Jr. Door. 229,551, 12–11–73, Cl. D13—1.
Horgan William J., Jr. Post. 229,552, 12–11–73, Cl. D13—7.
Hori, Heihachi. Eyeglasses case. 226,502, 3–13–73, Cl. D57—1.
Horiguchi, Mineo: *See*—
Noma, Seiya, Yamasaki, Yoshida, Orito, and Horiguchi.
Horn, Donald N., and R. S. Randmae, to Vicon Industries, Inc. Camera mount. 226,135. 1–23–73, Cl. D61—1.





Horne, Willard R., and R. P. Vuillemenot, to The Procter & Gamble Co. Jar or similar article. 225,832, 1–9–73, Cl. D9—100.
Hornschu, Joachim, and A. Jung, to Carl Zeiss-Stiftung. Binoculars. 229,445, 11–27–73, Cl. D57—1.
Horst, John V., to Wilkerson, Corp. Differential pressure gauge. 228,088, 8–7–73, Cl. D52—6.
Horvath, Henrietta M. X-ray drying rack. 228,816, 10–23–73, Cl. D83—1.
Hotchkiss Instruments, Inc.: *See*—
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Hotchkiss, John E., to Hotchkiss Instruments, Inc. Card holder. 227,408, 6–19–73, Cl. D61—1.
Houdaille Industries, Inc.: *See*—
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Houlihan, John T., to General Electric Co. Clock-Radio. 229,439, 11–27–73, Cl. D42—7.
House, Lawrence E., II, and T. Prisland, to Litton Medical Products, Inc. Dental unit. 227,368, 6–19–73, Cl. D24—1.
House Mates Inc.: *See*—
Press, Fred. 226,816.
Press, Fred. 227,538.
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Howard, Fred, and O'Neill. 229,648.
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Howard, Fred, and D. O'Neill, to Howard Displays, Inc. Display stand. 229,648, 12–25–73, Cl. D6—24.
Howard, James N. Scooter. 228,199, 8–21–73, Cl. D34—15.
Howard, Paul W., Jr. Disposer canister for pet droppings. 227,919, 7–24–73, Cl. D30—99.
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Ardolino, Anthony A. 227,015.
Howard, Robert, to Centronics Data Computer Corp. Casing for a computer terminal. 227,375, 6–19–73, Cl. D26—5.
Howard, Robert, to Centronics Data Computer Corp. Printer housing. 228,030, 7–31–73, Cl. D64—11.
Howard, William E., to Materials Handling Systems, Inc. Newspaper holding and bundling device. 228,052, 8–7–73, Cl. D6—184.
Howard, William E., to Asta-Werke Aktiengesellschaft, Chemische Fabrik of Brackwede. Bag holder. 229,018, 11–6–73. D7—193.
Howell, George A.: *See*—
Rankin, Vance O., Jr., and Howell.
Howison, James F. Dental floss applicator. 228,188, 8–21–73, Cl. D24—1.
Howlett, Henry R. Pair of stocks for small caliber semi-automatic pistols. 227,884, 7–24–73, Cl. D22—1.
Hoyle, Walter W., to Carrier Corp. Casing for refrigeration system condensing units or the like. 226,914, 5–15–73, Cl. D23—139.
Hron, Roland L.: *See*—
Glaros, Theodore J., Hron, and Pribyl.
Hrusch, Peter P. Decorative suspended ceiling. 228,493, 10–2–73, Cl. D18—2.
Huben, Michael G.: *See*—
Fellers, Walter E., Bratt, Huben, and Heinze.
Hubner, Gerhard: *See*—
Knox, John E., and Hubner.
Huffman, Donald: *See*—
Reiner, Norbert L., Huffman, and Diemond.
Huffman, Donald, to Coleco Industries, Inc. Tethered ball game board. 228,079, 8–7–73, Cl. D34—5.
Huffman, Peck T., to Electric Fishing Reel Systems, Inc. Electric fishing reel. 226,377, 2–27–73, Cl. D22—25.
Huggins, Ellie J., to Pretty Products, Inc. Bath mat. 227,529, 7–3–73, Cl. D6—210.
Huggins, Ellie J., to Pretty Products, Inc. Bath mat. 228,168, 8–21–73, Cl. D6—211.
Huggins, Hal A. Orthodontic cradleboard. 226,915, 5–15–73, Cl. D24—1.
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Klepa, Peter P., and Hermann. 226,566.
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Hughes, Richard, and T. M. Steinbach, to Teledyne Big Beam Division, Teledyne Mid-American Corp. Fluorescent emergency light. 227,692, 7–10–73, Cl. D48—20.
Hull, R. Dell. Closed face spinning reel. 226,850, 5–8–73, Cl. D22—25.
Hull, Richard B. Twin hull boat. 229,719, 12–25–73, Cl. D71—1.
Hull, Evan B., to Multiform, Inc. Boat fender. 227,809, 7–17–73, Cl. D71—1.
Hulthen, Henry. Combined flower and candle holder. 229,211, 11–13–73, Cl. D35—3.
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Pawsat, Carlton P., and Humlong. 226,151.
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Humphries, Edmund F., Jr. Modular bathroom. 228,066, 8–7–73, Cl. D23—49.
Humphries, Edmund F., Jr. Combined bathtub and shower unit. 228,067, 8–7–73, Cl. D23—49.
Humphries, Frank E., and M. H. Brinkerhoff. Pot for plants and the like. 228,934, 10–30–73, Cl. D35—3.
Hunt, Alvin W. Ash tray. 227,712, 7–10–73, Cl. D85—2.
Hunt, Charles J., to Vulcan Corp. Butchers' bone dust scraper. 229,397, 11–27–73, Cl. D11—1.
Hunt, Linburg. Stereo console cabinet. 228,803, 10–23–73, Cl. D56—4.
Hunt, Reginald F. W., to Harrison & Pinder Ltd. Display sign. 227,317, 6–12–73, Cl. D96—12.
Hunt, Ronald E., and W. M. Jenkins, to International Business Machines Corp. Magnetic disk cartridge jacket. 229,427, 11–27–73, Cl. D26—14.
Hunt-Wesson Foods, Inc.: *See*—
Knies, Robert H. 225,892.
Knies, Robert H. 228,626.
Hunter, Glen R. Dryer for brushes and combs. 228,262, 8–28–73, Cl. D86—10.
Hunter, Harland J. Base for a pen holder or the like. 228,154, 8–14–73, Cl. D74—5.
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Hurd, Francis D.: *See*—
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Hurd, Paula. Pillow. 226,469, 3–13–73, Cl. D6—203.
Hurko, Bohdan, to General Electric Co. Combined cooktop and ventilating hood with warming shelf or similar article. 226,339, 2–13–73, Cl. D81—25.
Husby, Donald E.: *See*—
Anderson, Melvin R., and Husby. 226,020.
Husby, Donald E., and C. W. Eberhart, to Westinghouse Electric Corp. Area lighting luminaire. 227,925, 7–24–73, Cl. D48—31.
Huser, James R., and P. N. Coutz. Machine tool feed indicator. 226,026, 1–16–73, Cl. D54—6.
Hutchcroft, Robert J.: *See*—
Massey, John V., and Hutchcroft. 227,076.
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Hutchinson, Stanley H., to David E. Vaughn. Chair. 227,427, 6–26–73, Cl. D6—37.
Hutchinson, Stanley H, to David E. Vaugh. Furniture pedestal. 228,272, 9–4–73, Cl. D6—196.
Hutchinson, William Y., and W. F. Kushmuk, to Continental Scale Corp. Weighing scale. 228,413, 9–18–73, Cl. D52—10.
Huthsing, Charles K., Jr., and N. E. Huthsing, executor of the estate of Charles K. Huthsing, Jr., deceased. Combined pump handle and locking unit for fire extinguishers. 227,883, 7–24–73, Cl. D16—2.
Huthsing, N. Evelyn: *See*—
Huthsing, Charles K., Jr., and Huthsing. 227,883.
Hutter, Wayne R., to Dow Chemical Co. Scraping and cleaning device. 227,033, 5–29–73, Cl. D49—23.
Hutzler, Lothar, to Hutzler Mfg. Co. Grater. 227,534, 7–3–73, Cl. D7—47.
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Netzel, Philip C. 227,475.
Iannini, Robert E., to Rid-O-Ray Inc. Lantern and insect killer and post therefor. 226,582, 3–27–73, Cl. D48—31.
Iannini, Robert E., to Rid-O-Ray Inc. Combined lantern and insect killer. 226,729, 4–17–73, Cl. D48—24.
Ibex Precision Products, Inc.: *See*—
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Ideal Recreational Products, Inc.: *See*—
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Lang, Milan, and Mendelow. 227,984.
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Koch, Walter L., and R. P. Franklin, to Rowe International Inc. Phonograph front panel. 227,677, 7–10–73, Cl. D26—14.
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Koepke, Earl H., to Harter Corp. Combined leg and armrest for a chair or the like. 226,749, 4–24–73, Cl. D6—194.
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Kondo, Ryozo. Air-pump for an aquarium or the like. 227,507, 6–26–73, Cl. D65—1.
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Koni, Yoshiji, to Matsushita Electric Industrial Co., Ltd. Magnetic tape cartridge for video-tape recorder. 228,789, 10–23–73, Cl. D26—14.
Konno, Kane Y. Shopping bag handle holder. 227,660, 7–10–73, Cl. D9—292.
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Korch, Henning, to Burris Industries, Inc. Chair or similar article. 228,326, 9–11–73, Cl. D6—66.
Korch, Henning, to Burris Industries, Inc. Seat or similar article. 228,594, 10–16–73, Cl. D6—71.
Korch, Henning, to Burris Industries, Inc. Seat or similar article. 228,595, 10–16–73, Cl. D6—71.
Korch, Henning, to Burris Industries, Inc. Seat or similar article. 228,596, 10–16–73, Cl. D6—71.
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Korol, Stanley F., to Borg-Warner Corp. Bathtub and shower enclosure combination. 226,852, 5–8–73, Cl. D23—49.
Korol, Stanley F., to Borg-Warner Corp. Shower enclosure. 226,853, 5–8–73, Cl. D23—69.
Korol, Stanley F., to Borg-Warner Corp. Shower enclosure. 226,854, 5–8–73, Cl. D23—69.
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Kotler, Max, to DeJur-Amsco Corp. Motion picture projector. 227,306, 6–12–73, Cl. D61—1.
Kotzar, Nick, to ILC Industries, Inc. Face shield. 227,819, 7–24–73, Cl. D2—233.
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Kramer, Gideon A., to American Desk Manufacturing Co. Multiple seating furniture support. 228,718, 10–23–73, Cl. D6—196.
Kramer, Gideon A., to American Desk Mfg. Co. Furniture pedestal. 229,265, 11–20–73, Cl. D6—196.
Kramer, Herbert, and T. Kao, to Siemens Aktiengesellschaft. Videotelephone transceiver. 225,868, 1–9–73, Cl. D26—14.
Krantz, John D., to Coastal Dynamics Corp. Dental cuspidor. 225,855, 1–9–73, Cl. D24—1.
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Kranz, Arnold H., to Curtis, Helene, Industries, Inc. Container for liquids. 229,548, 12–11–73, Cl. D9—169.
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Kretz, Edward J., to Owens-Illinois, Inc. Bottle. 228,342, 9–11–73, Cl. D9—100.
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Krone, Martin. Combined coin and memo holder. 226,039, 1–16–73, Cl. D74—1.
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Leader, Joe. Grass catcher. 227,690, 7–10–73, Cl. D40—1.
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Manderfield, Ellen B., to Oneida Ltd. Spoon or similar article. 226,977, 5–22–73, Cl. D54—12.
Manderfield, Ellen B., to Oneida Ltd. Spoon or similar article. 226,981, 5–22–73, Cl. D54—12.
Manderfield, Ellen B., to Oneida Ltd. Spoon similar article. 226,982, 5–22–73, Cl. D54—12.
Manderfield, Ellen B. Spoon or similar article. 227,154, 6–5–73, Cl. D54—12.
Manderfield, Ellen B., to Oneida Ltd. Spoon or similar article. 227,645, 7–10–73, Cl. D7—137.
Mango, Joseph R., and R. M. Goodman, to Sears, Roebuck and Co. Hose nozzle. 225,736, 1–2–73, Cl. D23—37.
Mango, Joseph, to AMF Inc. Snowmobile. 228,754, 10–23–73, Cl. D14—24.
Mango, Joseph R., and D. G. Wolfe to Minnesota Mining and Mfg. Co. Sound-slide projector. 228,955, 10–30–73, Cl. D61—1.
Mann, Samuel J., to Westinghouse Electric Corp. Can opener. 226,798, 5–1–73, Cl. D8—36.
Mann, Samuel J., to Westinghouse Electric Corp. Air cleaner. 227,669, 7–10–73, Cl. D23—149.
Mannina, Joseph P. Play board for a game. 228,142, 8–14–73, Cl. D34—5.
Manning, Oscar R. Mobile blood pressure apparatus. 228,895, 10–30–73, Cl. D14—3.
Mansei Kogyo Kabushiki Kaisha: *See*—
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Goto, Kenjiro. 226,678.
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Mantelet, Jean. Electric household rotary power unit. 227,314, 6–12–73, Cl. D89—1.
Mantelet, Jean, to Moulinex, Societe Anonyme. Salad dryer. 228,222, 8–28–73, Cl. D7—47.
Mantelet, Jean, to Moulinex, Societe Anonyme. Electric barbecue unit. 229,531, 12–11–73, Cl. D7—110.
Manual Arts Furniture Company: *See*—
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Manuel, Victor. Necklace. 226,579, 3–27–73. Cl. D45—16.
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Marchi, Vitalino, to Foster Grant Co. Pair of sport spectacles. 227,407, 6–19–73, Cl. D57—1.
Marcus, Dora. Doll. 226,101, 1–23–73, Cl. D34—4.
Marforio, Nerino, to S.p.A. Virginio Rimoldi & C. Sewing machine. 227,169, 6–5–73, Cl. D70—1.
Margolin, Mildred: *See*—
Margolin, William and M. 226,390.
Margolin, William and M. Exerciser. 226,390, 2–27–73, Cl. D34—15.
Marier, Gaston. Hood for snowmobile. 226,307, 2–13–73, Cl. D14—24.
Mark, Jack G., to Whitney Optical Co., Inc. Spectacle frame or similar article. 226,399, 2–27–73, Cl. D57—1.
Marks, Paul J., G. D. Cook, W. J. Schroll, and J. E. Van Noy, to Better Marketing Industries, Inc. Building. 227,560, 7–3–73, Cl. D13—1.
Marlin Toy Products, Inc.: *See*—
Thornell, Ernest L. 225,881.
Thornell, Ernest L. 225,882.
Marmon Group, Inc.: *See*—
Long, John B. 225,982.
Marois, Jules, to Aurele Marois Inc. Sleigh. 226,189, 1–30–73, Cl. D14—24.
Marota, Vincent G. Coffee brewer. 229,158, 11–13–73, Cl. D7—94.
Marrick Industries, Inc.: *See*—
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Mandell, Darla R. 228,521.
Marrie, Paul, to Etud S.A. Fruit juice extractor. 229,368, 11–20–73, Cl. D89—1.
Marsaika, Joseph P., and R. D. Fretwell. Acoustic coupler. 225,750, 1–2–73. Cl. D26—14.
Marsaika, Joseph P. Data coupler. 227,997, 7–31–73, Cl. D26—14.
Marsh, Robert E. Brine cabinet inner bottom. 226,312, 2–13–73, Cl. D23—3.
Marshall, Dave, and C. R. McGehee, to Western Data Products, Inc. Automatic ticket vender. 227,800, 7–17–73, Cl. D52—3.
Marshall, Edward M. Cooking grill. 228,484, 10–2–73, Cl. D7—110.
Marshall, Kenneth C., P. G. Sotiropoulos, and A. M. Piros, to Orthodontic Education and Research Foundation. Cabinet and service unit for dental clinics, dental offices and the like providing a plurality of cubicles. 229,463, 12–4–73, Cl. D6—162.
Marshall, Leslie. Luggage bag. 228,099, 8–7–73, Cl. D87—5.
Marshall, Leslie. Luggage bag. 228,100, 8–7–73, Cl. D87—5.
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Martell, James J., and J. A. Stevens, to The Goodyear Tire & Rubber Co. Tire. 229,399, 11–27–73, Cl. D12—145.
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Martin, C. F., & Co.: *See*—
Grauso, Robert M., and Morena. 226,983.
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Martin, Daniel J. Neckwear hangers or similar articles. 228,712, 10–23–73, Cl. D6—117.
Martin, Frank S., and T. Pietraszek, to Uniroyal, Inc. Golf ball. 228,394, 9–28–73, Cl. D34—5.
Martin, John R., to Soiltest, Inc. Portable nuclear density-moisture instrument. 227,400, 6–19–73, Cl. D52—1.
Martin, M. Bruce.: *See*—
Thompson, Thomas W., Martin, and Ludwick. 226,780.
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Martin, Paul A., to The Quaker Oats Co. Toy record player. 229,574, 12–11–73, Cl. D34—15.
Martin, Peter. Handle for a paint brush. 229,129, 11–13–73, D4—38.
Martin, Robert M. Exerciser. 227,022, 5–29–73, Cl. D34—5.
Martin, Robert T. Humidifier. 226,953, 5–22–73, Cl. D23—146.
Martin, Robert T. Humidifier. 226,608, 4–3–73, Cl. D23—146.
Martinelli, Arnold C. Planter or similar article. 229,081, 11–6–73, Cl. D35—3.
Martinelli, Arnold C. Planter. 229,082, 11–6–73, Cl. D34—3.
Martinez, Carlos. Anti-pollution water filter. 227,886, 7–24–73. Cl. D23—4.
Martini, Alfredo. Stackable chest of drawers. 229,464, 12–4–73, Cl. D6—165.
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Martz, Raymond L., to Minerallac Electric Co. Conduit clip. 228,377, 9–18–73, Cl. D8—235.
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Mascia, Carmen T., and R. B. Bagguley, to Continental Can Co. Can or similar article. 227,862, 7–24–73, Cl. D9—216.

Mascia, Carmen T., to Continental Can Co., Inc. Can or similar article. 227,863, 7–24–73, Cl. D9—216.

Mascia, Carmen T., to Continental Can Co., Inc. Can or similar article. 228,229, 8–28–73, Cl. D9—216.

Mascia, Carmen T., and R. B. Bagguley, to Continental Can Co., Inc. Can or similar article. 228,444, 9–25–73, Cl. D9—216.

Mascia, Carmen T., to Continental Can Co., Inc. Can or similar article. 228,489, 10–2–73, Cl. D9—216.

Mason, John R., to Dracon Industries. Jig block for hand-held shears. 225,716, 1–2–73, Cl. D8—71.

Mason, John R., to Dracon Industries. Magnetic supported template. 228,947, 10–30–73, Cl. D52—6.

Mason, Terry D. Cassette holder. 227,612, 7–3–73, Cl. D87—1.

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Masuyama, Nobumitsu, 50% each to Kanazawa Industries, and Kabushiki Kaisha Hirota. Cigarette lighter. 229,217, 11–13–73, Cl. D48—27.

Matas, Robert. Tie clip or similar article. 226,697, 4–17–73, Cl. D2—430.

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Mathews, Lyle H. Rack for utility, telephone and power cables or the like. 228,737, 10–23–73, Cl. D8—230.

Mathieson, Nathanael W. Child's dressing table or similar article. 229,457, 12–4–73, Cl. D6—14.

Mathis, Barry R., to Hewlett-Packard Co. Distance measuring instrument or the like. 227,298, 6–12–73, Cl. D52—6.

Mathis, Cleo D. Pre-fabricated therapy sauna bath unit. 226,873, 5–8–73, Cl. D83—1.

Matrangelo, Victor A. Pair of slacks or similar article. 226,295, 2–13–73, Cl. D2—28.

Matsuda, Hari, to International Video Corp. Videotape recorder. 227,483, 6–26–73, Cl. D26—14.

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Matthews, John L., Jr., to Airosol Co., Inc. Dispensing fitting for a refrigerant can. 227,558, 7–3–73, Cl. D9—253.

Matwey, Paul, to GAF Corp. Diazo copying machine, or similar article. 228,152, 8–14–73, Cl. D61—1.

Matzel, George J., and E. W. Schussel, to Stop-Motion Devices Corp. Yarn guard. 225,916, 1–9–73, Cl. D92—15.

Maughan, Datus H. Tool tray. 229,367, 11–20–73, Cl. D87—1.

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Mauro, Richard. Gun sight. 226,480, 3–13–73, Cl. D22—8.

Maw, Wayne E., to Phillips Petroleum Co. Closure or similar article. 228,743, 10–23–73, Cl. D9—254.

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Maxwell, James D. Fish lure. 228,392, 9–18–73, Cl. D22—29.

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McCarthy, Jack N. Electric light bulb. 228,918, 10–30–73, Cl. D26—8.

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McClure, Martin E., to Diversified Glass Products, Inc. Raft. 228,258, 8–28–73, Cl. D71—1.

McClure, Robert B. Color display screen. 226,777, 4–24–73, Cl. D48—16.

McCollum, Robert H. Fishing rod bracket. 225,706, 1–2–73, Cl. D6—125.

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McCracken, Roger L., to Bausch & Lomb Inc. Sunglass frame front. 227,304, 6–12–73, Cl. D57—1.

McCulloch, Alistair, to Graviner (Australia) Pty. Ltd. Fire extinguisher. 228,641, 10–16–73, Cl. D16—2.

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McDonald, Ronald J. Table or the like. 225,712, 1–2–73, Cl. D6—177.

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McIntyre, Hubert L. Fishing float. 226,505, 3–13–73, Cl. D71—1.

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Mechanic, Bernard I. Finger ring. 228,940, 10–30–73, Cl. D45—10.

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Wiedeman, Karl. 228,329.

Mello, Thomas M.: *See*—
Munn, David E., Mello, and Maddestra. 225,761.
Munn, David E., Mello, and Maddestra. 225,856.
Munn, David E., Mello, and Maddestra. 226,572.

Mellyn, Lawrence P., to General Electric Co. Escutcheon plate with push button for door bells. 226,422, 3–6–73, Cl. D8—182.

Mellyn, Lawrence P., to General Electric Co. Escutcheon plate with push button for door bells. 226,423, 3–6–73, Cl. D8—183.

Mellyn, Lawrence P., to General Electric Co. Escutcheon plate with push button for door bells. 226,516, 3–20–73, Cl. D8—181.

Mellyn, Lawrence P., to General Electric Co. Escutcheon plate with push button for door bells. 226,517, 3–20–73, Cl. D8—181.

Mellyn, Lawrence P., to General Electric Co. Escutcheon plate with push button for door bells. 226,550, 3–27–73, Cl. D8—181.

Melnick, Dennis M., to Pallet Development Inc. Pallet. 226,186, 1–30–73, Cl. D14—3.

Melnick, Dennis M., to Pallet Development Inc. Pallet. 226,187, 1–30–73, Cl. D14—3.

Melnick, Dennis M., and M. Kubick, to Pallet Development, Inc. Pallet. 226,265, 2–6–73, Cl. D14—3.

Melnick, Dennis M., and M. Kubick, to Pallet Development Inc. Pallet. 228,897, 10–30–73, Cl. D14—3.

Melnick, Dennis M., and M. Kubick, to Pallet Development Inc. Pallet. 229,042, 11–6–73, Cl. D14—3.

Melnick, Dennis M., and M. Kubick, to Pallet Development Inc. Pallet. 229,043, 11–6–73, Cl. D14—3.

Melstrand, Orlin J., and J. F. Newman, to Uniroyal, Inc. Pneumatic tire tread and buttress. 228,425, 9–18–73, Cl. D90—20.

Memorex Corp.: *See*—
Montgomery, Horace T., and Rafaat. 227,674.
Montgomery, Horace T., and Rafaat. 227,906.

Mencimer, Myrone. Display stand for wig blocks. 225,752, 1–2–72. Cl. D6—28.

Mendelow, Robert: *See*—
Lang, Milan, and Mendelow. 227,982.
Lang, Milan, and Mendelow. 227,984.

Mendenhall, George F., and R. Stawowy, to Montgomery Ward & Co., Inc. Faucet. 226,660, 4–10–73, Cl. D23—25.

Mendlin, Michael A., to Bunk Trunk Distributors. Combined bed and storage unit. 227,722, 7–17–73, Cl. D6—80.

Mendlin, Michael A., to Bunk Trunk Distributors. Combined bunk bed and storage unit. 227,723, 7–17–73, Cl. D6—80.

Mendlin, Michael A., to Bunk Trunk Distributors. Combined bed and storage unit. 227,724, 7–17–73, Cl. D6—80.

Mendlin, Michael A., to Bunk Trunk Distributors. Combined bunk bed and storage unit. 227,725, 7–17–73, Cl. D6—80.

Meng, John C., and G. J. Driessen, to L. D. Schreiber Cheese Co., Inc. Package with staggered product slices. 227,352, 6–19–73, Cl. D9—250.

Mengler, David L. Table ornament. 228,296, 9–4–73, Cl. D29—23.

Menke, Wilhelm. Phonograph or similar article. 227,502,

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Mercadante, Ottorino N., to Corning Glass Works. Plate or the like. 228,438, 9–25–73, Cl. D7—36.

Mercadante, Ottorino N., to Corning Glass Works. Plate or the like. 228,439, 9–25–73, Cl. D7—36.

Mercadante, Ottorino N., to Corning Glass Works. Plate or the like. 228,605, 10–16–73, Cl. D7—36.

Mergens, John T. and P. D. Wig dressing stand. 227,515, 6–26–73, Cl. D86—10.

Mergens, Paulita D.: *See*—
Mergens, John T. and P. D. 227,515.

Mestre, Frank. Door safety catch. 229,028, 11–6–73, Cl. D8—203.

Mestrovic, Robert T., and W. M. Walton, to Wahl Clipper Corp. Electric soldering iron. 228,440, 9–25–73, Cl. D8—30.

Meszaros, Albert. Flower pot. 228,402, 9–18–73, Cl. D85—3.

Metaframe Corp.: *See*—
Willinger, Allan H. 229,568.





Metal Box Co. Ltd., The: *See*—
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Metal Cabinet Co.: *See*—
Blendl, John. 225,991.

Milne, Peter A., to Richmond Marine Ltd. Boat. 229,238, 11–13–73, Cl. D71—1.

Milton, Arnold T.: *See*—





Modelevsky, Ian C., B. S. DeYoung, D. Nevins, and A. Stern, Moore, James S. Foldable wall shelving unit. 225,803, 1–9–73, Cl. D6—177.

Metal Box Co. Ltd., The: *See*—
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Metal Cabinet Co.: *See*—
Blendl, John. 225,991.
Meyer, Agnes M. Quilting thimble. 228,833, 10–30–73, Cl. D3—19.
Meyer, August B., to K-D Lamp Co. Housing for auxiliary vehicle lights. 226,130, 1–23–73, Cl. D48—32.
Meyer, Fred, of California: *See*—
Conroy, Robert, Fleming, Hirsch, Redel, and Steinhilber. 226,314.
Meyer, Gene R. Bouquet holder. 226,213, 1–30–73, Cl. D35—3.
Meyer, George E. Container for pizza or the like. 227,878, 7–24–73, Cl. D9—237.
Meyer, Keuneth N. Sponge. 229,160, 11–13–73, Cl. D7—178.
Meyer, Robert S. Game board. 227,281, 6–12–73, Cl. D34—5.
Meyers, Michael R., and M. Langieri, to Questor Corp. Animal figure toy. 226,208, 1–30–73, Cl. D34—15.
Mezzanotte, Mario, to Industrie Pirelli S.p.A. Tire. 226,542, 3–20–73, Cl. D90—20.
Miami Margarine Co., The: *See*—
Fritsche, Richard K., and Niemann. 225,792.
Michiees, Lawrence J. Study module. 228,214, 8–28–73. Cl. D6—157.
Michigan Hanger Co., Inc.: *See*—
Rumble, Raymond M. 226,799.
Rumble, Raymond M. 226,800.
Rumble, Raymond M. 226,801.
Micro Devices Corp.: *See*—
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Micromedic Systems, Inc.: *See*—
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Middlemark, Marvin P. Indoor television antenna with central revolving turret. 226,094, 1–23–73, Cl. D26—14.
Middlemark, Marvin P. Indoor television antenna with central revolving turret. 226,095, 1–23–73, Cl. D26—14.
Middleton, Robert E., G. L. Switser, to R & F Products, Inc. Contact lens case. 228,093, 8–7–73, Cl. D57—1.
Mider, Gerald E. Container for foodstuffs. 226,776, 4–24–73, Cl. D44—1.
Midland Glass Co., Inc.: *See*—
Cromb, Michael D. 226,370.
Mihm, John M. Tree grate. 229,080, 11–6–73, Cl. D35—1.
Mihm, Vernon L., W. E. White, and S. Watson. Crankcase emission fluid separator. 228,963, 10–30–73, Cl. D77—1.
Miki, Kiyotsune. Curtain runner. 229,295, 11–20–73, Cl. D8—248.
Miles Laboratories, Inc. *See*—
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Jones, William E. 226,408.
Libertone, Andrew J., and Tomaich. 229,175.
Miles, Ray P., to Capperloy Corp. Wheel chock. 229,330, 11–20–73, Cl. D41—1.
Milete, Kenneth A., to Design West Inc. Luggage case. 227,946, 7–24–73, Cl. D87—5.
Mileti, Orlando. Vertical collet fixture. 229,577, 12–11–73, Cl. D54—4.
Mileti, Orlando. Horizontal collet fixture. 229,578, 12–11–73, Cl. D54—4.
Miller, Albert E. Self-rewinding reel unit for rope. 226,165, 1–30–73, Cl. D8—220.
Miller, Albert E. Double cleat. 227,216, 6–12–73, Cl. D8—232.
Miller, Anthony S., Jr. Rack for displaying merchandise. 225,703, 1–2–73, Cl. D6—28.
Miller, Anthony S., Jr., to Col-O-Rac, Inc. Fixture for displaying merchandise. 228,984, 11–6–73, Cl. D6—28.
Miller, Bernard J., to The Gillette Co. Display stand. 226,748, 4–24–73, Cl. D6—168.
Miller, Dennis V., to Tacord Corp. Gas injecting armored vehicle. 228,232, 8–28–73, Cl. D14—3.
Miller, Dudley F., Jr. Tri-hull sailing boat. 229,105, 11–6–73, Cl. D71—1.
Miller, Frederick J.: *See*—
Hale, John F., and Miller. 225,755.
Hale, John F., and Miller. 226,616.
Miller, Glenn O., to Shield Mfg., Inc. Protective mouthpiece. 228,048, 8–7–73, Cl. D2—233.
Miller, Herman, Inc.: *See*—
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Miller, Jerry L. Electric bass guitar. 227,804, 7–17–73, Cl. D56—1.
Miller, Kenneth M., R. Watson, R. L. Klawson, and R. J. Russell, to General Foods Corp. Dispensing container. 229,034, 11–6–73, Cl. D9—2.
Miller, Lester, to Contico International, Inc. Waste receptacle. 228,411, 9–18–73, Cl. D49—35.
Miller, Mervyn H., to Steinberg's Ltd.-Steinberg Lte. Meat bench guard. 227,235, 6–12–73, Cl. D11—2.
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Henning, Steven A., and Miller. 227,792.
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Mills, Anthony M., to Dunlop Ltd. Tire. 226,641, 4–3–73, Cl. D90—20.
Mills, Kenneth W., to Vernon & Co. (Pulp Products) Ltd. Bed-pan carrier. 227,812, 7–17–73, D83—1.
Mills, Kenneth W., to Vernon & Co. (Pulp Products) Ltd. Bed-pan liner. 228,966, 10–30–73. Cl. D83—1.
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Martz, Raymond L. 228,376.
Martz, Raymond L. 228,377.
Martz, Raymond L. 228,623.
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Minneman, William J. Ammunition box. 227,517, 6–26–73, Cl. D87—1.
Minners and Co., Inc.: *See*—
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Minners, Robert W., to Minners and Co., Inc. Ash tray. 227,185, 6–5–73, Cl. D85—2.
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Mirow, Gregory, to Corning Glass Works. Casserole dish or the like. 226,723, 4–17–73, Cl. D44—15.
Mirow, Gregory, to Corning Glass Works. Casserole cover or the like. 226,724, 4–17–73, Cl. D44—15.
Mirow, Gregory, to Corning Glass Works. Bowl or the like. 226,725, 4–17–73, Cl. D44—15.
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Oka, Shunzo, and Miyashita. 228,070.
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Modelevsky, Ian C., B. S. DeYoung, D. Nevins, and A. Stern, to Bristol-Myers Co. Vitamin tablet or similar article. 227,459, 6–26–73, Cl. D16—3.
Modelevsky, Ian C., B. S. DeYoung, D. Nevins, and A. Stern, to Bristol-Myers Co. Vitamin tablet or similar article. 227,460, 6–26–73, Cl. D16—3.
Modelevsky, Ian C., B. S. DeYoung, D. Nevins, and A. Stern, to Bristol-Myers Co. Vitamin tablet or similar article. 227,461, 6–26–73, Cl. D16—3.
Modelevsky, Ian C., B. S. DeYoung, D. Nevins, and A. Stern, to Bristol-Myers Co. Vitamin tablet or similar article. 227,666, 7–10–73, Cl. D16—3.
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Costabile, Eugene J. 226,998.
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Moidovan, Michael T., Jr., to AVM Corp. Voting machine. 228,800, 10–23–73, Cl. D52—2.
Molle, Beulah. Body rest lounge for shampooing. 227,847, 7–24–73, Cl. D6—200.
Moller, Paul S. Combination muffler and spark arrestor for internal combustion engines. 226,184, 1–30–73, Cl. D14—6.
Mollerstedt, Allan, to Aktiebolaget Ifoverken. Bath tub. 229,180, 11–13–73, Cl. D23—55.
Molyneaux, Thomas A., to Emerson Electric Co. Data processing control unit. 226,920, 5–15–73, Cl. D26—5.
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Monte, Ernest, to Sunbeam Lighting Co. Ceiling mounted fluorescent fixture. 227,499, 6–26–73, Cl. D48—23.
Monte, Ernest, to Sunbeam Lighting Co. Ceiling mounted fluorescent light fixture. 227,593, 7–3–73, Cl. D48—23.
Montgomery, Horace T., and H. Rafaat, to Memorex Corp. Reel for magnetic tape. 227,674, 7–10–73, Cl. D26—14.
Montgomery, Horace T., and H. Rafaat, to Memorex Corp. Reel for tape or the like. 227,906, 7–24–73, Cl. D26—14.
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Moore, Clifford J., to Misterhouse Toys, Inc. Combined children's playhouse and toy box. 228,298, 9–4–73, Cl. D34—15.
Moore, Ivan H. Threaded connector. 226,702, 4–17–73. Cl. D8—236.
Moore, James S. Foldable wall shelving unit. 225,803, 1–9–73, Cl. D6—130.
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Moretini, Billy, to International Design Corp. Merchandise display device. 228,589, 10–16–73, Cl. D6—24.
Morgan, Edgar A., to Arrow Development Co., Inc. Amusement park boat. 229,354, 11–20–73, Cl. D71—1.
Morgan, Mary A. Parasol cover. 225,911, 1–9–73, Cl. D88—3.
Morgan, Robert G., to GTE Sylvania Inc. Indicator lamp. 226,925, 5–15–73, Cl. D26—8.
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Morris, Barry S., to The Bloxwich Lock and Stamping Co. Ltd. Keeper for a fastening mechanism for container doors. 228,170, 8–21–73, Cl. D8—137.
Morris, George M. Modular desk. 228,996, 11–6–73, Cl. D6—159.
Morris, J. E. Luther. Putter. 226,568, 3–27–73, Cl. D34—5.
Morris, Ralph, to Fingerhut Mfg. Co. Hand mixer. 226,019, 1–16–73, Cl. D44—1.
Morris, Robert J. Bicycle carrier for automobiles. 229,303, 11–20–73, Cl. D14—27.
Morris, Stephen W. Desk lamp. 229,627, 12–18–73, Cl. D48—20.
Morrison, Andrew I., and B. R. Hannah, to Knoll International, Inc. Seat. 225,923, 1–16–73, Cl. D6—66.
Morrison, Andrew I., and B. R. Hannah, to Knoll International Inc. Chair. 225,946, 1–16–73, Cl. D6—66.
Morrow, William B., to Aqua-Mist Inc. Air scoop cover for a humidifier unit. 229,693, 12–25–73, Cl. D23—146.
Morrow, William B., to Aqua-Mist Inc. Humidifier unit receptacle for attachment to heating system air conveying duct and the like. 229,695, 12–25–73, Cl. D23—146.
Morrow, Willie L. Foldable comb. 226,876, 5–8–73, Cl. D86—8.
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Moussette, Robert A. Holder for a beverage can. 229,156, 11–13–73, Cl. D7—70.
Mox, Dana W., to Research Products Corp. Casing for a humidifier. 226,382, 2–27–73, Cl. D23—147.
Mox, Dana W., to Hanson Scale Co. Scale. 227,501, 6–26–73, Cl. D52—10.
Mrugala, Ronald J., to The Cornelius Co. Dispensing faucet or similar article. 227,362, 6–19–73, Cl. D23—23.
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Mulholland, Robert P., P. H. Hamisch, Jr., and W. A. Jenkins, to Monarch Marking Systems, Inc. Combined label printer and applicator. 227,932, 7–24–73, Cl. D64—10.
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Munn, David E., T. M. Mello, and R. Maddestra, to Damon Corp. Vehicle toy. 226,572, 3–27–73, Cl. D34—15.
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Nagel, Robert I. Reflector. 227,608, 7–3–73, Cl. D72—1.
Nagel, Robert I. Reflector. 227,609, 7–3–73, Cl. D72—1.
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Plampton, Stanley N., and L. P. J. Spooner, to Bata Shoe Co., Inc. Design for a shoe sole. 229,456, 12–4–73, Cl. D2—321.
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Plassmann, Herbert A., to The Ohio Art Co. Toy spinning top. 226,619, 4–3–73, Cl. D34—15.
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Plummer, James E., to Owens-Illinois, Inc. Jar. 228,176, 8–21–73, Cl. D9—162.
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Podell, Marcia. Needlepoint canvas. 229,150, 11–13–73, Cl. D6—269.
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Powers, Marvin J. Picture frame. 226,064. 1–23–73, Cl. D6—242.
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Price, John, and C. B. Packard, to Kaman Aerospace Corp. Fire extinguishing device. 228,899, 10–30–73, Cl. D16—2.
Price, William J., R. W. Cooper, and R. A. Gates. Mast climbing device or similar article. 228,426, 9–25–73, Cl. D2—317.
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Rastocny, John, to Diro Industries Corp. Bracket for rotatable mounting on a post and for supporting a plurality of radial arms. 227,219, 6–12–73, Cl. D8—234.
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Reilly, Raymond E. Game board. 227,277, 6–12–73, Cl. D34—5.





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Reinecke, Jean O., G. C. D'Ercoli, and M. S. Joss, to Minnesota Mining and Mfg. Co. Tape dispenser. 226,334, 2–13–73, Cl. D74—1.
Reinecke, Jean O., and R. C. Speak, to United States Borax & Chemical Corp. Combined dispensing base and mounting bracket. 228,994, 11–6–73, Cl. D6—95.
Reineman, Richard G., to The Brunswick Corp. Console for a bowling scoring device. 225,875, 1–9–73, Cl. D34—5.
Reineman, Richard G., and G. E. Schaefer, to The Brunswick Corp. Love seat. 229,254, 11–20–73, Cl. D6—26.
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Resnick, Murray, to J. R. Handbags, Inc. Lady's handbag, or similar article. 228,819, 10–23–73, Cl. D87—3.
Retz, George F.: *See*—
Tompkins, Melvin W., and Retz. 226,302.
Rex Chainbelt Inc.: *See*—
Callies, Fritz A. 227,156.
Reynolds, Clarke: *See*—
Duckett, John W., Brooks, and Reynolds. 226,784.
Reynolds Metals Co.: *See*—
Wilson, Calvin L., and Fox. 228,976.
Rhoades, Nolan: *See*—
Kamlukin, Igor, Rhoades, Colloton, and Stevenson. 227,089.
Rhoads, Chester V. Short spine board. 226,341, 2–13–73, Cl. D83—1.
Ribetti, Robert R.: *See*—
McCaleb, Carl J., and Ribetti. 228,742.
Ricciardi, Ronald J. Bin dischargers. 228,950, 10–30–73, Cl. D55—1.
Ricciardi, Ronald J. Bin dischargers. 228,951, 10–30–73, Cl. D55—1.
Riccio, Frank J., and L. Napoli. Hand exerciser. 228,004, 7–31–73, Cl. D34—5.
Rice, Macon D. Lamp shade. 226,216, 1–30–73, Cl. D48—16.
Rich, Marvin L. Post and beam support. 226,421, 3–6–73, Cl. D8—235.
Rich, Marvin L. Concrete rafter support. 226,833, 5–8–73, D8—235.
Rich, Marvin L. Concrete roof support. 227,220, 6–12–73, Cl. D8—235.
Richardson, Glen E. Ornamental design for a boat. 229,102, 11–6–73, Cl. D71—1.
Richardson, James E. Hanger assembly for intravenous bottles or other devices. 228,978, 10–30–73, Cl. D8—246.
Richardson-Merrell Inc.: *See*—
Bolyn, Anthony E., and Colio. 226,456.
Richardson, Thomas L., B. Kersten, and C. T. Johnson, to Decision Data Computer Corp. Data recorder. 229,700, 12–25–73, Cl. D26—5.
Riche, Roger. Bottle or similar article. 227,748, 7–17–73, Cl. D9—135.
Richford America Corp.: *See*—
Kneapler, Stephen J. 225,834.
Richmond, Colin B. II, to Oneida Ltd. Spoon or similar article. 225,898, 1–9–73, Cl. D54—12.
**Richmond, Colin B., II, to Oneida Ltd. Spoon or similar article.** 226,976, 5–22–73, Cl. D54—12.
Richmond, Colin B., II, to Oneida Ltd. Spoon or similar article. 226,978, 5–22–73, Cl. D54—12.
Richmond, Colin B., II, to Oneida Ltd. Spoon or similar article. 226,979, 5–22–73, Cl. D54—12.
Richmond, Colin B., II, to Oneida Ltd. Spoon or similar article. 227,644, 7–10–73, Cl. D7—137.
Richmond Marine Ltd.: *See*—
Milne, Peter A. 229,238.
Richter, Victor J. Combined flag and holder therefor. 228,140, 8–14–73, Cl. D29—17.
Rid-O-Ray Inc.: *See*—
Iannini, Robert E. 226,582.
Iannini, Robert E. 226,729.
Ridlon, Robert K., to H. N. Bailey & Associates. Transom adapter for the jet-exhaust conduit from a water-jet powered boat. 227,035, 5–29–73, Cl. D71—1.
Riehl Electronics Corp.: *See*—
Lutenegger, Donald J. 229,085.
Riffle, William W., and P. S. Kivett. Candle. 227,710, 7–10–73, Cl. D73—1.
Rigel Mfg. Co.: *See*—
Hannaman, Donald K. 228,935.
Rigolino, Venerio J.: *See*—
Lawson, William L., and Rigolini. 228,479.
Riley, Walter. Multi-purpose desk accessory. 228,417, 9–18–73, Cl. D74—5.
Rinaldi, Joseph A.: *See*—
Fulton, James F., and Rinaldi. 225,848.
Ris, Gunter F., to Rosenthal Aktiengesellschaft. Chair. 227,053, 6–5–73, Cl. D6—26.
Risdon Mfg. Co., The: *See*—
Little, Edward A. 229,128.
Swenson, Roy S. 228,544.
Rite Autotronics Corp.: *See*—
Schwartz, Edwin L. 225,738.
Ritsi, Michael C. Infant nurser holder. 228,694, 10–16–73, Cl. D83—8.
Ritter, Charles P. Fish bait holder. 227,564, 7–3–73, Cl. D22—31.
Ritzenthaler, Richard L., to Cranda Corp. Bathtub plumbing unit. 228,498, 10–2–73, Cl. D23—20.
Ritzenthaler, Richard L., to Cranda Corp. Combined lavatory faucet and drain control. 228,500, 10–2–73, Cl. D23—58.
Ritzow, Gerald R., and R. C., to All-Glass Aquarium Co., Inc. Aquarium canopy. 227,913, 7–24–73, Cl. D30—12.
Ritzow, Roger C.: *See*—
Ritzow, Gerald R., and R. C. 227,913.
Rivman, Samuel J., to W. R. Grace, & Co. Shirt hanger. 229,148, 11–13–73, Cl. D6—247.
Rizzuto, Leandro P., and M. Schrager, to Continental Hair Products, Inc. Pressing comb. 226,148, 1–23–73, Cl. D86—8.
Robbins, B. J., S. L. Patterson, and R. W. Spencer. Boat. 227,939, 7–24–73, Cl. D71—1.
Robbins, Daniel H., to Itek Corp. Microfilm reader-printer or similar article. 226,332, 2–13–73, Cl. D61—1.
Robby, Kenneth A. Golf ball cleaner. 228,799, 10–23–73, Cl. D49—1.
Robert, Tony. Holder for a food bowl for pets or similar article. 226–096, 1–23–73, Cl. D30—13.
Robert, Tony. Holder for a food bowl for pets or similar article. 226,097, 1–23–73, Cl. D30—13.
Roberto, Michael C.: *See*—
Generalis, Alexander L., and Roberto. 229,166.
Roberts, Charles W., and D. B. Granger, to The Goodyear Tire & Rubber Co. Tire. 229,244, 11–13–73, Cl. D90—20.
Roberts, Edwin F., to Ives Laboratories, Inc. Easy Break Tablet. 229,049, 11–6–73, Cl. D16—3.
Roberts, Kenfyn A., to British Domestic Appliances Ltd. Electric mixer. 226,124, 1–23–73, Cl. D44—1.
Robertson, Jesse C. Signboard panel. 229,641, 12–18–73, Cl. D96—12.
Robertson, Thomas K., to Premium Publications Ltd. Games board for a game. 228,076, 8–7–73, Cl. D34—5.
Robinson, Barbara H. Telephone covers. 226,612, 4–3–73, Cl. D26—14.
Robinson, Edward G. Boot. 228,832, 10–30–73, Cl. D2—275.
Robinson, Fuller, to Standard Desk Co. Utility tray. 226,125, 1–23–73, Cl. D44—10.
Robinson, Fuller, to Standard Desk Co. Furniture leg. 227,330, 6–19–73, Cl. D6—194.
Robinson, Fuller, to Standard Desk Co. Chair. 227,634, 7–10–73, Cl. D6—69.
Robnett, Clifton E. Upholstery staple extractor pliers. 226,257, 2–6–73, Cl. D8—52.
Robson, Arthur, to Morse Electro Products Corp. Stereo system housing. 229,616, 12–18–73, Cl. D26—14.
Roby, Michael A., to Rubbermaid Commercial Products, Inc. Fatigue relief floor mat. 228,860, 10–30–73, Cl. D6—209.
Rochford, Paul E., and F. Neuwirth, to General Electric Co. Wall plate. 229,667, 12–25–73, Cl. D8—182.
Rocker, Elmer: *See*—
Blazey, Lawrence, Silverstrom, and Rocker. 228,587.
Blazey, Lawrence, Silverstrom, and Rocker. 229,646.
Rockwell Mfg. Co.: *See*—
Jones, Lloyd K., and Downey. 226,561.
Jones, Lloyd K., and Downey. 228,907.
Roddy, Kenneth A.: *See*—
Deberardino, Norma J., and Roddy. 226,118.
Rodgers, James L. Lawn sprinkler. 229,179, 11–13–73, Cl. D23—7.
Roe, Edward G. Golf tee and tethered weight. 226,927, 5–15–73, Cl. D34—5.
Roegner, George P., to U.S. Industries, Inc. Portable television receiver or similar article. 226,329, 2–13–73, Cl. D56—4.
Rogers, Edward A., to Wilkinson Sword Ltd. Grass cutting shears. 226,514, 3–20–73, Cl. D8—5.
Rogers, Orley D. Blocking sled. 229,432, 11–27–73, Cl. D34—5.





Rogove, Harry, and R., to Remember When Sweet Shoppe, Inc. Cart. 228,631, 10–16–73, Cl. D12—22.
Rubbermaid Industrial Products Corp.: *See*—
White, Thomas H. 228,821.





Sakuma, Masayuki, and S. Yahata, to Kabushiki Kaisha Ricoh. Electrostatic copier. 228,956, 10–30–73, Cl. D61—1.
Scanlon, Thomas A., to Avid Corp. Sound tube head set.

Rogove, Harry, and R., to Remember When Sweet Shoppe, Inc. Cart. 228,631, 10–16–73, Cl. D12—22.

Rogove, Roslyn: *See*—
Rogove, Harry, and R. 228,631.

Rohrbach, Bernd, Electric razor. 225,788–90, 1–2–73, Cl. D95—3.

Rohrback, Harold W.: *See*—
Jordan, Milton E., and Rohrback. 226,437.

Roiko, Arve W. Tube dispenser. 227,836, 7–24–73, Cl. D6—87.

Rollins, Clark B., Jr. Display rack. 229,383, 11–27–73, Cl. D6—186.

Rollins, Richard W., to Nash Bros. Co. Trailer hitch plate. 226,808, 5–1–73, Cl. D14—6.

Rolscreen Co.: *See*—
Dunsmoor, Forrest L. 228,491.

Romancky, George A. Picture frame. 228,113, 8–14–73, Cl. D6—244.

Romano, Michael, 50% to Anthony Tobia. Portable stereo cassette player. 227,908, 7–24–73, Cl. D26—14.

Romera, Eli. Golf club head. 229,204, 11–13–73, Cl. D34—5.

Roncretti, Kenneth: *See*—
Smart, William O, Roncretti, and Zauss. 227,756.

Ronson Corp.: *See*—
Cabell, Doulgas N. 228,485.

Ronvik, John P., and I. E. Berger, to Sears, Roebuck and Co. Child carrier for bicycle. 229,370, 11–20–73, Cl. D90—16.

Roper, Ralph E., to Wallace Expanding Machines, Inc. Support tray. 229,486, 12–4–73, Cl. D12—53.

Rose, David, to The Glemby Co., Inc. Appointment sign for beauty salon. 229,373, 11–20–73, Cl. D96—12.

Rosebrock, Frederick A.: *See*—
Genaro, Donald M., McGarvey, and Rosebrock. 226,464.

Rosedale Plastics (Containers) Ltd.: *See*—
Carter, Howard B. 227,173.

Rosemount Inc.: *See*—
De Leo, Richard V., and Hagen. 227,938.

Rosen, Paul E. Air freshener container. 226,855, 5–8–73, Cl. D23—150.

Rosen, Perry H., R. E. Seymour, and W. J. Sirois, to Automata Corp. Upper housing for a test scoring machine. 227,109, 6–5–73, Cl. D25—1.

Rosen, Perry H., R. E. Seymour, and W. J. Sirois, to Automata Corp. Housing for an electronic test scoring machine. 227,111, 6–5–73, Cl. D25—1.

Rosenberg, David J., to Pall Corp. Liquid-gas separator. 229,305. 11–20–73, Cl. D16—1.

Rosenberg, Marvin D., to Convenience Locker Corp. Horizontally divided locker. 225,922, 1–16–73, Cl. D36—168.

Rosenberg, Marvin D., to Convenience Locker Corp. Hamper. 225,969, 1–16–73, Cl. D49—8.2.

Rosenblatt, Joel H. to National Gettysburg Battlefield Tower, Inc. Tower. 227,448, 6–26–73, Cl. D13—1.

Rosenburg, Albert. Mould unit primarily for use in encapsulating scientific specimens. 226,846, 5–8–73, Cl. D16—1.

Rosenthal Aktiengesellschaft: *See*—
Ris, Gunter F. 227,053.

Ross, George E., of ½ to Francis R. Drake. Fishing plug. 226,709. 4–17–73, Cl. D22—27.

Rossi, Anthony V. Interchangeable chess piece. 226,202, 1–30–73, Cl. D34—5.

Rosson, Ronald B. Pencil sharpener. 226,403, 2–27–73, Cl. D74—21.

Roth American, Inc.: *See*—
Tomalinas, William R., Jr. 226,112.

Roth, Frank B., to Jackes-Evans Mfg. Co. Nameplate. 227,417, 6–19–73, Cl. D96—12.

Rothbardt, Bernard L., to Baskin-Robbins Inc. Ice cream display cabinet. 229,528, 12–11–73, Cl. D6—168.

Rotheiser, Jordan I., to Selfix, Inc. Hook. 226,258, 2–6–73, Cl. D8—246.

Roufs, Leverne E.: *See*—
Kasper, Arthur A., and Roufs. 228,549.
Kasper, Arthur A., and Roufs. 228,550.

Rowe International Inc.: *See*—
Koch, Walter L., and Franklin. 227,677.

Rowenta–Werke GmbH: *See*—
Strzelczyk, Gotz F. 225,891.
Stutzer, Franz A. 229,664.

Rowlands, Martyn O., to I M I Developments, Inc. Tap outlet member. 225,994, 1–16–73, Cl. D23—34.

Rowlands, Martyn O., to IMI Opella Ltd. Flow control lever for a faucet with shower attachment. 228,764. 10–23–73, Cl. D23—27.

Roy, Roland G., R. F. Reifers, K. D. Bixler, and R. E. Ralphs, to Diamond International Corp. Molded packaging tray for meat or the like. 227,004, 5–29–73, Cl. D9—219.

Royal Crown Cola Co.: *See*—
Barth, William. 225,974.

Royal Industries, Inc.: *See*—
MacCoon, Richard P. 228,323.

Rozman, Barry M. Cook book rack. 228,998, 11–6–73, Cl. D6—184.

Rozmarynowski, Joseph F., and G. W. Stoll. Can toy vehicle. 228,244, 8–28–73, Cl. D34—15.

Rubbermaid Commercial Products, Inc.: *See*—
Roby, Michael A. 228,860.

Rubbermaid Inc.: *See*—
Fry, James C. 229,123.
Mallonn, Paul C. 228,867.

Rubbermaid Industrial Products Corp.: *See*—
White, Thomas H. 228,821.

Rubbermaid Sales Corp.: *See*—
Wooters, Dwight N. 229,012.

Rubenstein, Benjamin: *See*—
Anthonsen, Arthur G., Rubenstein, and Schechter. 228,049.

Rubinstein, Helena,, Inc.: *See*—
Jeruchim, Simon. 229,297.

Rudin, Melvin, to Datel Corp. Data input-output terminal. 226,003, 1–16–73, Cl. D26—5.

Ruhan, Paul F. Mold for chopped meat product, 229,010, 11–6–73, Cl. D7—43.

Ruhan, Paul F. Mold for chopped meat product. 229,011, 11–6–73, Cl. D7—43.

Rumble, Raymond M., to Michigan Hanger Co., Inc. Beam clamp body. 226,799, 5–1–73, Cl. D8—235.

Rumble, Raymond M., to Michigan Hanger Co., Inc. Beam clamp body. 226,800, 5–1–73, Cl. D8—235.

Rumble, Raymond M., to Michigan Hanger Co. Beam clamp body. 226,801, 5–1–73, Cl. D8—235.

Runckel, John L., to Skyline Northwest Corp. Toothbrush handle. 227,825, 7–24–73, Cl. D4—25.

Ruoslahti, Maija, to Joel Mitikka. Armchair. 229,135, 11–13–73, Cl. D6—70.

Ruple, Kenneth W. Weather vane. 228,018, 7–31–73, Cl. D52—6.

Rusk, Gerald R., and R. E. Koch, to The Freeman Supply Co. Pattern plates. 226,228, 1–30–73, Cl. D54—8.

Rusk, Gerald R., and R. E. Koch, to The Freeman Supply Co. Pattern plates. 226,229, 1–30–73, Cl. D54—8.

Ruskin, Asa P. Can resealer or the like. 226,306, 2–13–73, Cl. D9—282.

Ruskin, William, to Hartz Mountain Pet Foods, Inc. Combined pet foor bar display tray and feeder or similar article. 226,838, 5–8–73, Cl. D9—244.

Russell, Raymond J.: *See*—
Miller, Kenneth M., Watson, Klawson, and Russell. 229,034.

Russo, Andelfo J. Display stand. 229,261, 11–20–73, Cl. D6—148.

Rust, Roy W., L. J. Weigel, H. S. Shearin, and E. Henthorn, to Manual Arts Furniture Co. Base for organ bench. 227,637, 7–10–73, Cl. D6—196.

Rustemeyer, Andy M. Air cleaner stack assembly and mount for tractors. 229,555, 12–11–73, Cl. D14—6.

Rutman, Benjamin H., to Malrov-United Hat & Cap Co., Inc. Cap. 228,830, 10–30–73, Cl. D2—249.

Ryan, James J. Jewelry finding. 229,505, 12–4–73, Cl. D45—1.

Ryan, James M.: *See*—
Conner, James M., and Ryan. 228,680.

Rydeen, Robert L.: *See*—
Fernandez, Mario F., and Rydeen. 226,574.
Fernandez, Mario F., and Rydeen. 226,575.
Fernandez, Mario F., and Rydeen. 226,620.
Fernandez, Mario F., and Rydeen. 227,287.

SCM Corp.: *See*—
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Paone, Anthony N. 228,446.

SCOA Industries, Inc.: *See*—
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S.p.A. Virginio Rimoldi & C.: *See*—
Marforio, Nerino. 227,169.

Saab-Scania AB: *See*—
Envall, Bjorn E. A., and Jonsson. 228,639.

Safft, Stuart J.: *See*—
King, William R., and Safft. 225,782.

Sage Products Inc.: *See*—
Sherin, Michael H. 227,413.

Sahloff, Willard H., to Handy-Andy Specialty Co., Inc. Base for bathroom fixture or the like. 228,481, 10–2–73, Cl. D6—86.

Sahloff, Willard H., to Handy-Andy Specialty Co., Inc. Base for bathroom fixture or the like. 228,839, 10–30–73, Cl. D6—86.

Sahloff, Willard H., to Handy-Andy Specialty Co., Inc. Base for bathroom fixture and the like. 228,841, 10–30–73, Cl. D6—86.

Saidel, William R., to Electronic Industries Inc. Loudspeaker display fixture. 229,526, 12–11–73, Cl. D6—20.

St. Amand, Robert: *See*—
Carroll, John W., Jenkins, and St. Amand. 227,772.

Saint, David, to Graco Metal Products, Inc. Swing. 228,268, 9–4–73, Cl. D6—10.

Saint, David, to Graco Metal Products, Inc. Frame for swings. 228,433, 9–25–73, Cl. D6—191.

Saito, Hiroshi, K. Kimura, and I. Nakajima, to Matsushita Electric Industrial Co., Ltd. Television receiver. 228,524, 10–2–73, Cl. D56—4.

Saito, Yasuhiro, to Kabushiki Kaisha Ricoh. Electronic calculator. 228,502, 10–2–73, Cl. D26—5.

Sakamoto, Nobuyuki: *See*—
Nakazaki, Eiji, Yumoto, and Sakamoto. 229,372.

Sakata, James T. Restaurant dining chair. 227,631, 7–10–73, Cl. D6—58.

Sakuma, Masayuki, to Kabushiki Kaisha Ricoh. Teaching machine. 226,270, 2–6–73, Cl. D25—1.

Sakuma, Masayuki, to Kabushiki Kaisha Ricoh. Tape recorder. 227,379, 6–19–73, Cl. D26—14.

Sakuma, Masayuki, to Kabushiki Kaisha Ricoh. Tape recorder. 228,662, 10–16–73, Cl. D26—14.





Sakuma, Masayuki, and S. Yahata, to Kabushiki Kaisha Ricoh. Electrostatic copier. 228,956, 10–30–73, Cl. D61—1.

Sakurai, Sadayoshi. Rotary table-type milling machine. 228,089, 8–7–73, Cl. D54—14.

Salisky, Sallyann Z., to International Playtex Corp. Girdle. 229,453, 12–4–73, Cl. D2—24.

Salisky, Sallyann Z., to International Playtex Corp. Panty girdle. 229,454, 12–4–73, Cl. D2—24.

Salmans, Robert R. Religious medal. 226,092, 1–23–73, Cl. D29—11.

Salsgiver, John P., to United Technical Corp. Laboratory instrument case. 229,515, 12–4–73, Cl. D88—1.

Salvador, Henry J.: *See*—
Conner, James M., and Salvador. 228,029.

Salven, Edward. Artistic mirror. 228,436, 9–25–73, Cl. D6—242.

Salt, Gordon, to The Hampton Works (Stampings) Ltd. Tent pole connector. 227,075, 6–5–73, Cl. D8—236.

Saltz, Ira, to Oxford Pendaflex Corp. Index card holder. 226,687. 4–10–73, Cl. D74—2 A.

Samson Communications Corp.: *See*—
Werner, Louis F. 228,978.

Samsonite Corp.: *See*—
Adickes, Cecil F. 228,401.
Workman, David E., and Sullivan. 229,255.
Workman, David E., and Sullivan. 229,257.

Samyo Electric Co., Ltd.: *See*—
Kumagai, Kazuo, Ueda, and Takahashi. 227,991.

San Antonio, Louis. Ceramic stilt for kilns (used in kilns for making ceramic ware). 226,913, 5–15–73, Cl. D23—82.

Sanborn, Philip A., Jr.: *See*—
Orlich, Harold L., and Sanborn. 226,425.

Sanders, Ronald D. Golf putter head. 226,319, 2–13–73, Cl. D34—5.

Sanderson, Clifford W. Combination swing set and play house. 227,383, 6–19–73, Cl. D34—5.

Sanderson, Floren J. Fish lure. 228,553, 10–9–73, Cl. D22—29.

Sandler, William B. Loudspeaker. 226,386, 2–27–73, Cl. D26—14.

Sandler, William B. Loudspeaker. 229,191, 11–13–73, Cl. D26—14.

Sandoz-Wander, Inc.: *See*—
King, William R., and Safft. 225,782.
King, William R. 226,140.
King, William R. 226,734.
King, William R. 228,692.

Sandy, Hal D., to R/Design Consultants, Inc. Display rack. 227,068, 6–5–73, Cl. D6—190.

Sanford, Harry W., Auto Mag Corp. Hand gun. 228,757. 10–23–73, Cl. D22—1.

Sanford, Willard D. Pool table attachment for protecting cue balls. 226,275, 2–6–73, Cl. D34—3.

Sanyo Electric Co., Ltd.: *See*—
Ikeya, Shinji, and Natsume. 227,159.
Ikeya, Shinji, and Shimizo. 228,255.
Tominaga, Naoki. 226,009.
Tominaga, Naoki. 228,469.

Sanzari, Elmer F. Storage container. 228,883. 10–30–73, Cl. D9—199.

Sarandos, George A. Dispenser for toilet tanks or the like. 226,269, 2–6–73, Cl. D23—3.

Sarnoff, Caron. Pain relief appliance. 228,964, 10–30–73, Cl. D83—1.

Sasaki, Kazunari, to Kabushiki Kaisha Suwa Seikosha. Digital watch. 229,213, 11–13–73, Cl. D42—8 R

Sasse, Howard A. Golf club head. 227,794, 7–17–73, Cl. D34—5.

Sather, Leroy I. Jet powered remotely piloted vehicle. 229,494. 12–4–73, Cl. D22—11.

Sato, Kuzuhisa, to Sony Corp. Speaker box. 227,116, 6–5–73, Cl. D26—14.

Sato, Stephens N., to Ivac Corp. Fluid delivery apparatus. 226,145, 1–23–73, Cl. D83—1.

Sato, Stephens N., to Ivac Corp. Battery charger. 227,123, 6–5–73, Cl. D26—15.

Sato, Stephens N., to Ivac Corp. Electronic thermometer. 227,500, 6–26–73, Cl. D52—7.

Satoh, Yasuta. Toy shovel loader. 226,115, 1–23–73, Cl. D34—15.

Sauey, Lawrence K.: *See*—
Doman, Donald W., and Sauey. 225,885.

Sauey, Lawrence K., K. M. Douglas, and G. A. Rau, to Flambeau Plastics Corp. Insulated tumbler or the like. 229,006. 11–6–73, Cl. D7—6.

Saunders, William T., to National Steel Corp. End closure for a container. 226,071, 1–23–73, Cl. D9—255.

Saunders, William T., to National Steel Corp. Tab opener for a container. 226,072, 1–23–73, Cl. D9—256.

Savage, Charles C. Necktie. 225,794, 1–9–73, Cl. D2—351.

Sawyers Furniture Co.: *See*—
Watson, Hubert H., and Watson. 228,835.

Scalingi, Albert V., and A. R. Williams, Jr., to Raleigh Industries Ltd. Combined bicycle fitter and exerciser. 229,077, 11–6–73, Cl. D34—5.

Scan-Tron Corp.: *See*—
Ortega, Charles J., and Orr. 228,658.

Scandia Packaging Machinery Co.: *See*—
Alexander, James. 227,081.

Scanlon, Thomas A., to Avid Corp. Sound tube head set. 227,267, 6–12–73, Cl. D26—14.

Scanlon, Thomas A., to Avid Corp. Sound tube head set. 227,479, 6–26–73, Cl. D26—14.

Scarne, John. Game table. 227,967, 7–31–73, Cl. D6—177.

Scdoris, Perry W. Combination tool. 225,961, 1–16–73, Cl. D8—81.

Schachel, Michael. Combined clothes rack and storage shelf unit. 225,954, 1–16–73, Cl. D6—189.

Schachet, Eli, and D. H. Nelson, to Sherwood Medical Industries Inc. Dental aspirator control. 228,180, 8–14–73, Cl. D24—1.

Schaefer, George E.: *See*—
Reineman, Richard G., and Schaefer. 229,254.

Schaefer, George E., to The Brunswick Corp. Pedestal for a bowler identification panel for a bowling scoring device. 225,874, 1–9–73, Cl. D34—5.

Schaefer, George E., to Brunswick Corp. Bowler identification panel. 226,099, 1–23–73, Cl. D34—5.

Schaefer, Hans F., Jr., and D. W. France, to USM Corp. Control pendant. 227,996, 7–31–73, Cl. D26—13.

Schaefer, Hermann R., to Sperry Rand Corp. Electric shaver. 226,050, 1–16–73, Cl. D95—3.

Schaefer, Hermann R., to Sperry Rand Corp. Shaver. 226,590, 3–27–73, Cl. D95—3.

Schaefer, Hermann R. Air heater. 227,367, 6–19–73, Cl. D23—122.

Schaffer, Ezra. Combined refrigeration unit and air duct for dwellings. 227,986, 7–31–73, Cl. D23—139.

Schafhauser, Herman J. Key holder. 227,192, 6–5–73, Cl. D87—8.

Schaller, Eleanor R. Hat. 226,791, 5–1–73, Cl. D2—251.

Scharfenberger, James A., and J. R. Snyder, to Ransburg Electro-Coating Corp. Sheath for a spray coating apparatus. 229,057, 11–6–73, Cl. D23—36.

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Scherffius, William J. Dental floss dispenser and applicator. 227,766, 7–17–73, Cl. D24—1.

Schertz, Jeffrey, to Schertz Umbrellas Inc. Umbrella. 228,975, 10–30–73, Cl. D88—3.

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Schilling, Karl, to U.S. Blind Stitch Machine Corp. Blind stitch sewing machine. 228,687. 10–16–73, Cl. D70—1.

Schindler, Anthony, to American Optical Corp. Design for a spectacle frame front. 227,597, 7–3–73, Cl. D57—1.

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Schlanger, Samuel. Combined twist and pry bottle opener. 228,224, 8–28–73. Cl. D8—18.

Schley, Kenneth E. Combined drinking mug and stand therefor. 228,328, 9–11–73, Cl. D7—1.

Schlosser, John R. Game board. 227,279, 6–12–73, Cl. D34—5.

Schmedes, Robert, and J. M. Nelson, to Bernzomatic Corp. Propane blow torch. 228,731, 10–23–73, Cl. D8—30.

Schmidt, Gerald W., and A. Sims, to California R&D Center. Combined toy tractor and plow. 229,707, 12–25–73, Cl. D34—15.

Schmidt, Lewis W., to Blackwelder Mfg. Co. Portable refuse container with unitary packer. 226,224, 1–30–73, Cl. D49—32.

Schmidt, Peter M., to National Service Industries, Inc. Electrical receptacle. 227,893, 7–24–73, Cl. D26—1.

Schmidt, Walter J., Jr.: *See*—
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Schmitt, Fred A., to Litton Business Systems, Inc. Combined body rest and foot support unit. 228,095, 8–7–73, Cl. D6—64.

Schmitt, Jack B., to Sunbeam Corp. Top panel for electric humidifier. 229,694. 12–25–73, Cl. D23—146.

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Schneider, Marshall C., to Charles D. Barnes Co. Combined display cube and stand therefor. 226,797, 5–1–73, Cl. D6—235.

Schneider, Marshall C. Combined display cube unit and support stand therefor. 227,848, 7–24–73, Cl. D6—235.

Schneider, Marshall C., to Charles D. Barnes Co. Display cube with pedestal stand. 229,458, 12–4–73, Cl. D6—20.

Schneider, Wilfred, Multi-directional speaker. 227,120, 6–5–73, Cl. D26—14.

Schneider, Wilfred. Unidirectional speaker. 228,389, 9–18–73, Cl. D26—14.

Scholes, Eldred S. Pastry filler head. 225,889, 1–9–73, Cl. D44—29.





Schonbrun, David M. Cooking grill. 229,276, 11–20–73, Cl. D7—107.

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Schroeder, Peter E. Curtain fabric. 229,214, 11–13–73, Cl. D47—6 E.
Schroeder, Peter E. Curtain fabric. 229,215, 11–13–73, Cl. D47—6 E.
Schroeder, Peter E. Curtain fabric. 229,216, 11–13–73, Cl. D47—6 E.
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Schroeder, Peter. Curtain fabric. 229,337, 11–20–73, Cl. D47—6.
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Schumacher, Johann, to The Singer Co. Work feeding presser foot attachment for a sewing machine or similar article. 229,237, 11–13–73, Cl. D70—2 B
Schumann, Robert W. Combined mold and packing tray for confectionery. 227,860, 7–24–73, Cl. D9—187.
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Schwartz, Howard L., to United Inns Mfg. Corp. Motel building. 228,440, 9–25–73, Cl. D13—1.
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Schwartz, John M., to Den-Tal Ez Mfg. Co. Modular console for a dental operatory. 226,483, 3–13–73, Cl. D24—1.
Schwartz, Martin W. Dental floss holder. 226,768, 4–24–73, Cl. D24—1.
Schwartz, Randall H. Decorative lamp. 228,146, 8–14–73, Cl. D48—20.
Schwartz, Sidney. Flashlight. 228,201, 8–21–73, Cl. D48—24.
Schwartzstein, Frederick, to Blackstone Industries, Inc. Combined thermal pin and meat thermometer. 228,949, 10–30–73, Cl. D52—7.
Schwartztrauber, George H. Water fowl decoy. 229,177, 11–13–73. Cl. D22—21.
Schwarz, Charlotte L., to Wallace Silversmith, Inc. Pendant or the like. 226,577, 3–27–73, Cl. D45—17.
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Schweizer, Peter L., to Owens-Illinois, Inc. Bottle. 229,542, 12–11–73, Cl. D9—59.
Sciascia, Anthony, to USM Corp. Hand-held extruder. 229,280, 11–20–73, Cl. D8—30.
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Scott, Arthur L., to C/P Corp. Cross-arm for electric transmission pole. 226,006, 1–16–73, Cl. D26—12.
Scott, Charles G. Credit card imprinter machine or the like. 228,959. 10–30–73. Cl. D64—11.
Scott, Charles H. Computer terminal acoustic cover. 229,315, 11–20–73, Cl. D26—5.
Scott, Clyde D. Beverage dispenser. 228,210, 8–21–73, Cl. D94—3.
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Sedgwick, William E., to Cameron Industries. Farrowing hut. 227,269, 6–12–73, Cl. D30—1.
Seibert, William, to The Frostie Co. Building structure. 227,236, 6–12–73, Cl. D13—1.
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Steinke, Fred J., to Reliance Electric Co. Shaft bushing. 227,397, 6–19–73, Cl. D46—1.

Steinman, Lynn. Jewelry clasp, or similar article. 229,335, 11–20–73, Cl. D45—4.

Steketee-Van Huis: *See*—
Petersen, Steven H. 229,485.

Stellar Industries, Inc.: *See*—
Lian, John R., and Pennila. 229,433.

Steltzer, Ernest R.: *See*—
Knapp, George A., Nitsch, Stube, and Steltzer. 229,714.

Stensager, Norman H. Resuscitating device. 226,828, 5–1–73, Cl. D83—1.

Stepanek, Frank E., to American Home Products Corp. Valve for cooking utensil lid. 228,057, 8–7–73, Cl. D7—129.

Stephan, Donald C.: *See*—
Cone, George W., and Stephan. 226,921.

Stephens, Frank H., Jr., to Scripto, Inc. Casing for a cigarette lighter. 229,091, 11–6–73, Cl. D48—27.

Stephens, James H., and R. D. Grunert. Golf tool. 225,756, 1–2–73, Cl. D34—5.

Stephenson, Betty G. Cake stand. 227,627, 7–10–73, Cl. D6—20.

Stephenson, Roger D., to Physics Apparatus Research, Inc. Teaching aid for measuring the acceleration of a falling body. 226,954, 5–22–73, Cl. D25—1.

Stephenson, Roger D., to Physics Apparatus Research, Inc. Pendelum demonstration device. 227,573, 7–3–73, Cl. D25—1.

Stepp, Sylvan G. Asphalt mill. 228,092, 8–7–73, Cl. D55—1.

Leaver, Gardner. 227,832.

Sterges, Alfred D., to Purex Corp., Ltd. Bottle. 228,378, 9–18–73, Cl. D9—42.

Sterges, Alfred D., to Purex Corp., Ltd. Bottle. 228,382, 9–18–73, Cl. D9—60.

Sterilizer Control Royalties: *See*—
Davis, Ward B. 226,428.

Stern, Anthony: *See*—
Modelevsky, Ian C., DeYoung, and Nevins. 227,666.
Modelevsky, Ian C., DeYoung, Nevins, and Stern. 227,459.
Modelevsky, Ian C., DeYoung, Nevins, and Stern. 227,460.
Modelevsky, Ian C., DeYoung, Nevins, and Stern. 227,461.

Stern, Gunter H., to Continental Textile Corp. of America. Woven mesh fabric. 229,449, 11–27–73, Cl. D92—1.

Stern, Milton. Chair. 226,511, 3–20–73, Cl. D6—68.

Stern, Morley A.: *See*—
Modelevsky, Ian C., De Young, Nevins, and Stern. 228,128.
Modelevsky, Ian C., De Young, Nevins, and Stern. 228,129.

Sternco Industries, Inc.: *See*—
Lovitz, David D. 228,073.
Lovitz, David D. 228,656.

Sternes Industries, Inc.: *See*—
Lovitz, David D. 228,197.

Stero Electric Ltd.: *See*—
Chan, Wai Y. 228,576.

Steven Mfg. Co.: *See*—
Taylor, Beverly W. 228,356.

Stevens, Edward: *See*—
Felsen, Martin, and Stevens. 226,676.

Stevens, Frank W., and S. D. Han, to Becton, Dickinson and Co. Pediatric urinary drainage bag or similar article. 227,184, 6–5–73, Cl. D83—1.

Stevens, James A.: *See*—
Martell, James J., and Stevens. 229,399.

Stevenson, Robert L. Toilet stool air deodorizer. 229,696, 12–25–73, Cl. D23—150.

Stevenson, Robert S. Shampoo dispenser. 228,710, 10–23–73, Cl. D6—95.

Stevenson, William L.: *See*—
Kamlukin, Igor, Rhoades, Colloton, and Stevenson. 227,089.

Steward Plastics Ltd.: *See*—
Dugan-Chapman, Charles. 229,708.

Stewart, James R.: *See*—
Stumpf, Gene L., and Stewart. 228,294.

Stewart, Stephen R. Article carrier for vehicle interior. 225,987, 1–16–73, Cl. D14—6.

Stewart, William R., and L. P. Griggs, to AMF Inc. Archery bow handle. 227,097, 6–5–73, Cl. D22—5.

Stile-Craft Mfgs., Inc.: *See*—
Parry, Chester C. 228,487.

Stillinger, Larry L. Combined trash container and support therefor. 225,772, 1–2–73, Cl. D49—34.

Stitzer, Charles A. Dart football game board. 229,207, 11–13–73. Cl. D34—5 FG.

Stoakes, Donald S., and D. D. Brock, to Thexton Mfg. Co. Oil tester. 228,386, 9–18–73, Cl. D26—1.

Stobar, Leonard, to Kusan, Inc. Toy coaster wagon. 227,285, 6–12–73, Cl. D34—15.

Stockli, Alfred. Salad tosser or similar article. 229,271, 11–20–73, Cl. D7—99.

Stocton, Paul M., to Vicra Sterile, Inc. Winged catheter insertion device. 228,691, 10–16–73, Cl. D83—12.

Stohrer, Charles E., Jr., to Harper-Wyman Co. Gas burner. 228,766, 10–23–73, Cl. D23—129.

Stokes, Rembert R.: *See*—
Hazell, Norman C., McGarvey, Prescott, and Stokes. 227,782.

Stolarz, Edward M., to Presto Lock Co., Inc. Draw catch for luggage or the like. 227,854, 7–24–73, Cl. D8—129.

Stoll, Gladys W.: *See*—
Rozmarynowski, Joseph F. and Stoll. 228,244.

Stop-Motion Devices Corp.: *See*—
Matzel, George J., and Schussel. 225,916.

Storandt, Duane L. Charcoal fire starter and grill. 229,013, 11–6–73, Cl. D7—107.

Storey, Thos., (Engineers) Ltd.: *See*—
Johnson, John R. 227,086.





Storm Plastics Inc.: *See*—
Storm, William D. 226,658.

Storm, William D., to Storm Plastics Inc. Fishing lure. 226,658, 4–10–73, Cl. D22—28.

Stoutenberg, Carl C.: *See*—
Gutowski, Antoni P., and Stoutenberg. 229,224.

Stow Manufacturing Co.: *See*—
Boyce, Frank J. 229,669.

Stoy, Raymond P., and A. G. Randozzo, to American Home Products Corp. A deodorant container or the like. 226,766, 4–24–73, Cl. D23—150.

Strand, Gordon A., to Owens-Illinois, Inc. Bottle. 225,724, 1–2–73, Cl. D9—39.

Strand, Gordon A., to Owens-Illinois, Inc. Jug. 227,221, 6–12–73, Cl. D9—40.

Strand, Gordon A., to Owens-Illinois, Inc. Jug. 227,444, 6–26–73, Cl. D9—40.

Strand, Gordon A., to Owens-Illinois, Inc. Jug. 227,445, 6–26–73, Cl. D9—42.

Strand, Gordon A., and R. L. Drow, said Strand assignor to Owens-Illinois, Inc., said Drow assignor to Graf's Bercroges, Inc. Bottle. 227,655, 7–10–73, Cl. D9—102.

Strand, Gordon A., and R. L. Drow, said Strand, assor. to Owens-Illinois, Inc., and Drow, assor. to Graf's Beverages, Inc. Bottle. 228,880, 10–30–73, Cl. D9—102.

Strauss, Walter L. Toy locomotive. 227,026, 5–29–73, Cl. D34—15.

Stringer, Jack W.: *See*—
Hofland, Robert M., and Stringer. 228,917.

Strohmeier, R. J., Co.: *See*—
Strohmeier, Robert J. 226,077.

Strohmeier, Robert J., to R. J. Strohmeier Co. Trailer hook-up mirror. 226,077, 1–23–73, Cl. D14—6.

Stromberg DatagraphiX, Inc.: *See*—
Stanley, Donald, and Artaud. 226,401.

Strzelczyk, Gotz F., to Rowenta-Werke GmbH. Table lighter. 225,891, 1–9–73, Cl. D48—27.

Stubbmann, Albert, to General Foods Corp. Spring actuated toy. 227,588, 7–3–73, Cl. D34—15.

Stubbmann, Albert, to Kohner Bros., Inc. Mobile toy for infants. 229,623, 12–18–73, Cl. D34—15.

Stubbmann, Albert, to General Foods Corp. Maze puzzle. 228,005, 7–31–73, Cl. D34—15.

Stube, Fred F.: *See*—
Knapp, George A., Nitsch, Stube, and Steltzer. 229,714.

Stucka, Edward P., to Honeywell Inc. Thermostat housing or the like. 228,251, 8–28–73, Cl. D52—7.

Stultz, Richard A.: *See*—
Luckenbill, Lawrence F., and Stultz. 229,407–17.

Stumpf, Gene L., and J. R. Stewart, to GTE Automatic Electional Corp. Molded packaging tray for meat or the like. 228,282, 9–4–73, Cl. D9—219.

Stumpf, Gene L., and J. R. Stewart, to GTE Automatic Electric Laboratories Inc. Subscriber carrier channel unit cover or similar article. 228,294, 9–4–73, Cl. D26—14.

Stumpf, Gene L., and D. G. Tweed, to GTE Automatic Electric Laboratories, Inc. Design for main distribution frame-mounted central office subscriber carrier channel unit shelf or similar article. 228,555, 10–9–73. Cl. D26—14.

Stumpf, Robert J., W. J. Mattes, and H. G. Minshell, to Kimberly-Clark Corp. High-loft nonwoven material. 226,048, 1–16–73, Cl. D92—1.

Sturdivant, Jack E. Cotton roll holder. 229,562, 12–11–73, Cl. D24—1.

Sturner, Frederick: *See*—
Danielson, Thomas R., Fleming, and Sturner. 226,182.

Stut, Petrus J., to U.S. Philips Corp. Fan heater. 225,849, 1–9–73, Cl. D23—73.

Stut, Petrus J., to United States Philips Corp. Fan heater. 226,379, 2–27–73, Cl. D23—73.

Stut, Petrus J., to U.S. Philips Corp. Wall clock. 226,939, 5–15–73, Cl. D42—7.

Stut, Petrus J., to U.S. Philips Corp. Alarm clock. 228,791, 10–23–73, Cl. D42—7.

Stutzer, Franz A., to Rowenta-Werke G.m.b.H. Portable steamer. 229,664, 12–25–73, Cl. D7—164.

Styson, Inc.: *See*—
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Press, Fred. 229,270.

Suburban Plastics, Inc.: *See*—
Sleith, Robert W. 229,619.
Sleith, Robert W. 229,620.
Sleith, Robert W. 229,621.

Suganoya, Yoshio: *See*—
Bluzer, Thomas J., Schmitt, Wooding, Suganoya, and Miyake. 228,607.

Suganoya, Yoshio, and T. Miyake, to Sharp Kabushiki Kaisha. Electronic cooking range. 228,313, 9–4–73, Cl. D81—4.

Suganoya, Yoshio, and T. Miyake, to Sharp Kabushiki Kaisha. Electronic cooking range. 228,724, 10–23–73, Cl. D7—128.

Sugihara, Osamu: *See*—
Teruachi, Makoto, Nakamura, Sugihara, Sumino, Ueda, and Suzuki. 229,618.
Ueda, Kazuhiro, Nakamura, Sugihara, Sumino, Terauchi, and Suzuki. 229,248.

Suhard, Paul F., to Union de Brasseries. Bottle. 229,482, 12–4–73, Cl. D9—147.

Sulisky, Glen R. Combined handle battery and motor housing for an electric safety razor or similar article. 228,477, 9–25–73, Cl. D95—3.

Sullivan, James F., to Kulka Electric Corp. Fluorescent lamp head. 227,474, 6–26–73, Cl. D26—8.

Sullivan, James F., to Kulka Electric Corp. Lampholder set for fluorescent lamps. 228,191, 8–21–73, Cl. D26—1.

Sullivan, James H., to Union Special Machine Co. Sewing machine. 227,170, 6–5–73, Cl. D70—1.

Sullivan, James P.: *See*—
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Workman, David E., and Sullivan. 229,257.

Sullivan, Leroy J., assignor to R. Egan, J. Wayne, R. L. Gaddis, M. L. Gaddis, and L. J. Sullivan, fractional part interest to each. Ammunition magazine. 226,560, 3–27–73, Cl. D22—7.

Sumida, Kunio A., to Leonard U. Shapiro. Cutting tool. 226,055, 1–23–73, Cl. D8—61.

Sumida, Kunio A., to Leonard U. Shapiro. Center shear blade. 227,544, 7–3–73, Cl. D8—98.

Sumida, Kunio A., to Leonard U. Shapiro. Side shear blade. 227,545, 7–3–73, Cl. D8—98.

Sumino, Tadashi: *See*—
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Sunair Electronics, Inc.: *See*—
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Hart, Richard S. 227,670.
Haynes, Julian R. 226,822.
Haynes, Julian R. 227,694.
Lauderback, Stephen K. 227,616.
Lauderback, Stephen K. 229,534.
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Schmitt, Jack B. 229,694.
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Sunbeam Lighting Co.: *See*—
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Sundberg, Carl W., M. Ferar, and C. J. Barecki, to American Seating Co. Chair. 227,956, 7–31–73, Cl. D6—66.

Sundberg, Carl W., M. Ferar, and C. J. Barecki, to American Seating Co. Desk. 228,431, 9–25–73, Cl. D6—158.

Sundstrom, Carl A., deceased, by C. A. Sundstrom, administrator. Artist's light. 226,626, 4–3–73, Cl. D48—20.

Sundstrom, Carl A., deceased, by C. C. Sundstrom, administrator. Gas log lighter. 226,819, 5–1–73, Cl. D48—27.

Sundstrom, Carl C.: *See*—
Sundstrom, Carl A. 226,819.

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Suntak Co. Ltd.: *See*—
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Superior Industries: *See*—
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Superior Plastic Products Co.: *See*—
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Surrey Steel Components Ltd.: *See*—
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Suska, Charles R., and P. Thomson, to The Stanley Works. Alarm unit. 228,812, 10–23–73, Cl. D72—1.

Suska, Charles R., to The Stanley Works. Wall pillar standard. 229,174, 11–13–73, Cl. D13—6.

Suska, Charles R., and P. Thompson, to The Stanley Works. Door alarm bolt. 229,284, 11–20–73, Cl. D8—131.

Sussman, Morris, to Shore Plastics, Inc. Compact. 228,157, 8–14–73, Cl. D86—10.

Susuki, Masataka, to Daiichi Seiyaku Co., Ltd. Sanitary napkin holder. 229,112, 11–6–73, Cl. 83—1.

Suter, Alfred, Co., Inc.: *See*—
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Sutherland, David T., to Cenco Medical/Health Supply Corp. Freeze drying module. 229,404, 11–27–73, Cl. D16—2.

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Sutphen, Thomas C. 226,559.

Sutphen, Thomas C., to Sutphen Fire Equipment Co. Platform and support yoke for an aerial tower. 226,559, 3–27–73, Cl. D14—6.

Suuronen, Matti J. Bath stove. 225,850. 1–9–73, Cl. D23—84.

Suzuki, Kiyoshi: *See*—
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Ueda, Kazuhiro, Nakamura, Sugihara, Sumino, Terauchi, and Suzuki. 229,348.

Svehla, Paul W., and S. R. McQuisten. An auxiliary motorcycle seat. 226,589, 3–27–73, Cl. D90—16.

Svensson, Sven H., to Skandi-Form AB. Armchair. 229,258, 11–20–73, Cl. D6—73.

Swaine, Adeney, Brigg & Sons Ltd.: *See*—
Adeney, Robert E. J. 228,770.

Sway, Boris. Dispensing container. 228,121, 8–14–73, Cl. D9—2.





Swayze, Samuel F., to Eastman Kodak Co. Still camera or the like. 228,681, 10–16–73, Cl. D61—1.

Swayze, Samuel F., to Eastman Kodak Co. Still camera. 228,682, 10–16–73, Cl. D61—1.

Tacke, William H., and F. Fontana, to Steelcase, Inc. Caster. 229,609, 12–18–73, Cl. D8—226.

Swayze, Samuel F., to Eastman Kodak Co. Still camera or the like. 228,681, 10–16–73, Cl. D61—1.
Swayze, Samuel F., to Eastman Kodak Co. Still camera. 228,808, 10–23–73, Cl. D61—1.
Sweeney, Paul B.: *See*—
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McElvy, Howell T., and MacDaniel. 226,172.
Swenn, Joseph W., to Textron Inc. Pull tab for a-slide fastener. 227,947, 7–31–73, Cl. D2—415.
Swenson, Carl A. Toy vehicle chassis. 226,212, 1–30–73, Cl. D34—15.
Swenson, Paul F., Jr.: *See*—
Swenson, Paul F., Sr., P. F., Jr., and Dennis. 226,634.
Swenson, Paul F., Sr., P. F., Jr., and D. D. Dennis, to Great Lakes Sports Mfg. Co. Catamaran hull. 226,634, 4–3–73, Cl. D71—1.
Swenson, Roy S., to The Risdor Mfg. Co. Lipstick container. 228,544, 10–9–73, Cl. D86—10.
Swensson, Malte. Vehicle trailer. 228,749, 10–23–73, Cl. D14—3.
Swett, James B.: *See*—
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Swett, James B., to Dart Industries, Inc. Tray or the like. 226,495, 3–13–73, Cl. D44—1.
Swett, James B., and J. V. Croyle, to Dart Industries Inc. Container closure or the like. 226,576, 3–27–73, Cl. D44—1.
Swett, James B., and R. F. Bateman, to Dart Industries Inc. Pitcher or the like. 227,142, 6–5–73, Cl. D44—21.
Swett, James B., to Dart Industries Inc. Tray closure or the like. 228,221, 8–28–73, Cl. D7—40.
Swett, James B., and J. V. Croyle. Container closure or the like. 228,374, 9–18–73, Cl. D7—1.
Swett, James B., to Dart Industries Inc. Storage container for lettuce or the like. 228,542, 10–9–73, Cl. D7—76.
Swett, James B., and J. V. Croyle, to Dart Industries, Inc. Container closure or the like. 228,602, 10–16–73, Cl. D7—131.
Swett, James B., and J. V. Croyle, to Dart Industries, Inc. (VII) Container closure or the like. 228,603, 10–16–73, Cl. D7—131.
Swilley Calvin A. Boat. 229,635, 12–18–73, Cl. D71—1.
Swimmer, James A, to Air King Corp. Molded fan. 229,059, 11–6–73, Cl. D23—165.
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Szabo, Bela G., to Bruce Plastics, Inc. Corner protector for binding straps surrounding bundles of sheets and the like. 225,829, 1–9–73, Cl. D8—263.
Szabo, Bela G., to Bruce Plastics, Inc. Luggage handle. 226,474, 3–13–73, Cl. D8—154.
Szabo, Bela G., to Bruce Plastics, Inc. Luggage handle. 226,475, 3–13–73, Cl. D8—154.
Szymanski, Michael J., to Syracuse China Corp. Dinner plate or similar article. 227,030, 5–29–73, Cl. D44—15.
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Tabone, Michael T. Lawn edging strip. 229,209, 11–13–73, Cl. D35—1.
Tabone, Michael T. Lawn edging strip. 229,210, 11–13–73, Cl. D35—1 R.
Tabor, Marcel Jean, to G.M.T., S.A. Boat. 228,031, 7–31–73, Cl. D71—1.
Tachi, Ichiro, to Kabushiki Kaisha Asakusa Gangu. Toy automobile. 227,921, 7–24–73, Cl. D34—15.
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Tada, Mitsuru. Removable side guard for automobile. 228,752, 10–23–73, Cl. D14—6.
Tada, Tetsuya. Sprayer. 226,712, 4–17–73, Cl. D23—17.
Tadlock, Max. Combined defensive weapon and flashlight. 226,908, 5–15–73, Cl. D22—1.
Tagnon, Luc A. M., to Societe des Lunetiers, Spectacles. 226,282, 2–6–73, Cl. D57—1.
Taguchi, Katuso, to Denki Onkyo Co., Ltd. Tape recorder. 228,195, 8–21–73, Cl. D26—14.
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Taiani, Patrick M., to Nova Scotia Research Foundation. Cable assembly for a wave sensor. 228,782, 10–23–73, Cl. D26—1.
Tailer, Peter L. Casing for a writing instrument. 226,338, 2–13–73, Cl. D74—17.
Takagi, Tsurukichi. Chain piece. 227,747, 7–17–73, Cl. D8—261.
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Takanashi, Takao, to Sony Corp. Video tape player or similar article. 227,578, 7–3–73, Cl. D26—14.
Takanashi, Takao, to Sony Corp. Video tape recorder or similar article. 227,579, 7–3–73, Cl. D26—14.
Takanashi, Takao, and M. Kobayashi, to Sony Corp. Video tape magazine. 227,675, 7–10–73, Cl. D26—14.
Takanashi, Takao, and M. Kobayashi, to Sony Corp. Video tape magazine. 227,678, 7–10–73, Cl. D26—14.
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Takeoka, Ryoichi, and S. Nakamoto, to Matsushita Electric Industrial Co., Ltd. Speaker housing. 227,904, 7–24–73, Cl. D26—14.
Takeoka, Ryoichi, and S. Nakamoto, to Mitsushita Electric Co., Ltd. Amplifier. 227,905, 7–24–73, Cl. D26—14.
Takeoka, Ryoichi, and S. Nakamoto, to Matsushita Electric Industrial Co., Ltd. Radio receiver. 227,929, 7–24–73, Cl. D56—4.
Talge, Henry J., and H. D. Goldsmith, to The Songrand Corp. Combined tub and whirlpool circulator. 226,243, 1–30–73, Cl. D83—1.
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Tarics, Alexander G. Stadium roof. 226,181, 1–30–73, Cl. D13—1.
Tarsitano, Robert, Jr. Outdoor barbecue-oven combination. 228,609, 10–16–73, Cl. D7—107.
Tat, Choy C., to Grace Artificial Jewelry Mfg. Co., Ltd. Roller skate. 226,812, 5–1–73, Cl. D34—14.
Tate, Michael D.: *See*—
McQuarrie, Harvey K., and Tate. 225,899.
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Taylor, Jimmy L. Spinner toy. 225,878, 1–9–73, Cl. D34—15.
Taylor, Sherman E. Motorcycle lamp. 227,799, 7–17–73, Cl. D48—32.
Taylor, Terrance N., to Motorola, Inc. Audio transducer housing or similar article. 227,786, 7–17–73, Cl. D26—14.
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Tegner, Raymond U. H., to Amerock Corp. Garment hook. 225,966, 1–16–73, Cl. D8—254.
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Tegner, Raymond U. H., to Amerock Corp. Combined toothbrush and tumbler holder 228,271, 9–4–73, Cl. D6—92.
Tegner, Raymond U. H., to Amerock Corp. Pull. 228,278, 9–4–73, Cl. D8—172.
Tegner, Raymond U. H., to Amerock Corp. Escutcheon plate. 228,279, 9–4–73, Cl. D8—170.
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Tegner, Raymond U. H., to Amerock Corp. Towel ring. 228,850, 10–30–73, Cl. D6—99.
Tegner, Raymond U.H., to Amerock Corp. Towel bar. 228,851, 10–30–73, Cl. D6—99.
Tegner, Raymond U. H., to Amerock Corp. Knob. 229,285, 11–20–73, Cl. D8—139.
Tegner, Raymond U. H., to Amerock Corp. Ball pull. 229,289, 11–20–73, Cl. D8—159.
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Tegner, Raymond U. H., to Amerock Corp. Pull. 229,292, 11–20–73, Cl. D8—166.
Tegner, Raymond U. H., to Amerock Corp. Door knocker. 229,293, 11–20–73, Cl. D8—177.
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Thomas, Richard K., to Sunbeam Corp. Clock. 228,565, 10–9–73, Cl. D42—7.
Thomas, Richard K., to Sunbeam Corp. Clock casing. 226,394, 2–27–73, Cl. D42—7.
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Thorp, Ralph E., to Globe Valve Corp. Faucet handle. 227,567, 7–3–73, Cl. D23—28.
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Thorud, Richard A., to Toro Mfg. Corp. Discharge deflector for mowers and the like. 227,389, 6–19–73, Cl. D40—1.
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Thorud, Richard A., to Toro Mfg. Corp. Oil gage or the like. 227,401, 6–19–73, Cl. D52—6.
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Watanabe, Riki, to Kabushiki Kaisha Koparu. Digital calendar clock. 228,515, 10–2–73, Cl. D42—7.
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Weber, Heinz, to Quality Oil Corp. Bottle cap. 226,555, 3–27–73, Cl. D9—278.
Weber, Heinz, to Telesco Brophey Ltd. Umbrella crown. 226,639, 4–3–73, Cl. D88—3.
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Weeber, Marion, to American Home Products Corp. Spoon or similar article. 226,231, 1–30–73, Cl. D54—12.
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Weiss, Franklin W. Packaging cup or the like. 229,169, 11–13–73, Cl. D9—220.
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Weiss, Harold D. Bathtub. 227,100, 6–5–73, Cl. D23—55.
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Weiss, Reinhold M., to The Gillette Co. Toaster. 226,242, 1–30–73, Cl. D81—10.
Weissman, Bernard. Drilling machine for dental models. 229,060, 11–6–73, Cl. D24—1.
Weissmann, Peter, to Consul Gesellschaft mit beschrankter. Pocket Lighter. 226,580, 3–27–73, Cl. D48—27.
Welborn, George. Skimmer-cover for swimming pools. 229,310, 11–20–73, Cl. D23—4.
Welbourn, Dale K. Sliding beads game board. 227,585, 7–3–73, Cl. D34—5.
Welch, Medard W. Combined stimulating and cleaning device. 226,289, 2–6–73, Cl. D83—1.
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Wolfson, Neil I. Lamp. 229,628, 12–18–73, Cl. D48—20.
Wolfson, William. Boat hull. 228,032, 7–31–73, Cl. D71—1.
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Yip, Wan K., to Chung AH Mfg. Co. Ltd. Burglar alarm. 227,410, 6–19–73, Cl. D72—1.
Yonai, Sadayoshi, to Imaizumi Co., Ltd. Lock or tag. 228,478, 9–25–73, Cl. D96—8.
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Yoneyama, Minoru, to Kabuhsiki Kaisha Yoneyama Racket. Game racket design. 227,791, 7–17–73, Cl. D34—5.
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Young, Mark A. Vase. 228,354, 9–11–73, Cl. D29—28.
Young, Robert C., Jr., to Volume Shoe Corp. Display rack for mechandise. 227,067, 6–5–73, Cl. D6—186.
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Yusa, Tochikazu. Magnetic compass. 227,403, 6–19–73, Cl. D52—6.
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Zacharias, Anthony. Pillow. 229,266, 11–20–73, Cl. D6—201.
Zahlman, Charles C., to A.E.I. Corp. Hot water dispenser. 225,917, 1–9–73, Cl. D94—3.
Zakaski, Roman S., to Monty Enterprises, Inc. Portable washing stand. 226,562, 3–27–73, Cl. D23—48.
Zampetti, Patrick, and R. Duechler, to Construction Specialties, Inc. Grille. 228,671, 10–16–73, Cl. D54—2.
Zaphiratos, Spiros. Mounted game piece for a football game board. 229,324. 11–20–73, Cl. D34—5.
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Zelenko, Harry. Animal figure punch-out board. 228,075, 8–7–73, Cl. D34—2.
Zemke, Ronald O., to Minnesota Mining and Mfg. Co. Pad holding device. 228,339, 9–11–73, Cl. D7—41.
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Zundel, Arthur P., to National Can Corp. Can or the like. 226,705, 4–17–73, Cl. D9—218.
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# 1973
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Anderson, Frederic W., to Reedley Nursery, Inc. Nectarine tree. 3,328, 5–8–73, Cl. 41.
Anderson, Frederic W., to Arthur Bright. Nectarine tree. 3,329, 5–8–73, Cl. 41.
Anderson, Frederic W., to Stark Bro's Nurseries and Orchards Co. Nectarine tree. 3,330, 5–8–73, Cl. 41.
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Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 3,314, 3–6–73, Cl. 20.
Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 3,315, 3–6–73, Cl. 22.
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Armstrong, David L., to Armstrong Nurseries, Inc. Rose plant. 3,340, 5–22–73, Cl. 19.
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Cobia, Barnell L. Milkweed plant. 3,307, 2–20–73, Cl. 88.
Cobia, Barnell L. Milkwood plant. 3,310, 2–27–73, Cl. 88.
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Culbert, John R. Chrysanthemum plant. 3,379, 7–31–73. Cl. 74.
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De Beer, Antonius P. J. Conifer plant. 3,361, 6–19–73, Cl. 50.
De Ruiter, Gijsbert, to Carlton Rose Nurseries. Rose plant. 3,377, 7–24–73, Cl. 24.
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Duffett, William E., to Framptons Nurseries Ltd. Chrysanthemum plant. 3,369, 6–26–73, Cl. 78.
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Ecke, Paul, Jr., to Paul R. Ecke. Poinsettia plant. 3,393, 8–21–73, Cl. 86.
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Jessel, Walter H., Jr., and W. E. Duffett, to Yoder Brothers, Inc. Chrysanthemum plant. 3,333, 5–15–73, Cl. 80.
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Kerrigan, Howard. Azalea plant. 3,363, 6–19–73, Cl. 56.
Kerrigan, Howard. Azalea plant. 3,364, 6–19–73, Cl. 56.
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Sauret, Clarence H., assignor of a fractional part interest to Richard K. Sauret. Almond tree. 3,294, 1–16–73, Cl. 30.
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Bowman, Cadet E.; and Frank Hayward, Sycamore, Ill. Disclaimer filed June 28, 1973, by the assignee, Olin Corporation. No. 3,736,093; v. 917; p. 5.
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Brock, James Donald, Chattanooga, Tenn. Disclaimer filed June 23, 1972, by the assignee, CMI Corporation. No. 3,693,945; v. 911; p. 762.
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Burtis, Stokes Fenimore, Swarthmore, Pa. Disclaimer filed Jan. 11, 1973, by the assignee, RCA Corporation. No. 3,704,-207; v. 916; p. 5.

Candor, Robert R.; and James T. Candor, Dayton, Ohio. Disclaimer filed Apr. 26, 1972, by the inventors. No. 3,699,663; v. 914; p. 394.

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Carson, Frank J., Toledo; and Gerald White, Rossford, Ohio. Dedication filed Mar. 5, 1973, by the assignee, Libbey-Owens-Ford Company. No. 2,814,164; v. 911; p. 1133.

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Chambers, Gordon H., Philadelphia, Pa. Dedication filed Sept. 4, 1973, by the inventor. No. 3,607,005; v. 917; p. 4.

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Christo, Nicholas, Boonton, N.J. Disclaimer filed July 26, 1973, by the assignee, Continental Commerce Corporation. No. 3,630,170; v. 917; p. 5.

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Clapper, Genung L., Vestal, N.Y. Disclaimer filed Oct. 30, 1972, by the assignee, International Business Machines Corporation. No. 3,368,039; v. 906; p. 93.

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Clark, John Colin, Gerrards Cross; Brian Richard Cowley, Greenford; Gordon Ian Gregory, Chalfont St. Peter, England; James Kennedy, Montrose, Angus, Scotland; and Alan Gibson Long, Greenford, England. Disclaimer filed Sept. 13, 1972, by the assignee, Glaxo Laboratories Limited. No. 3,647,788; v. 906; p. 778.

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Coombs, Robert V., Chatham; and Eugene E. Galantay, Morristown, N.J. Disclaimer filed Dec. 4, 1972, by the assignee, Sandoz-Wander, Inc. No. 3,717,663; v. 914; p. 778.

Corbett, Herbert O., Canandiagua, N.Y. Dedication filed May 19, 1972, by the assignee, National Distillers and Chemical Corporation. No. 3,167,814; v. 906; p. 94.

Cordero, Humberto R., Endicott, N.Y. Disclaimer filed Jan. 22, 1973, by the assignee, International Business Machines Corporation. No. 3,432,810; v. 911; p. 762.

Cowden, Lewis M., Indianapolis; and Joseph R. Clark, Brownsburg, Ind. Dedication filed May 25, 1972, by the assignee, Union Carbide Corporation. No. 3,084,064; v. 906; p. 93.

Datve, Keshav V., Goregaon-Bombay, India; and Branimir Milicevic, Riehen; and Hermann Werdenberg, Basel, Switzerland. Disclaimer filed Feb. 3, 1972, by the inventors, the assignee, Ciba-Geigy AG, assenting. No. 3,666,397; v. 911; p. 762.

Degginger, Edward R., Convent Station, N.J. Disclaimer filed May 24, 1973, by the assignee, Allied Chemical Corporation. No. 3,719,515; v. 911; p. 762.

Derbyshire, Charles E.; Robert D. Mess; and Armin F. Mittermaier, Fort Wayne, Ind. Dedication filed Sept. 22, 1971, by the assignee, General Electric Company. No. 3,467,929; v. 912; p. 2.

De Vore, Guy C., Cheswick, Pa. Dedication filed July 25, 1973, by the assignee, PPG Industries, Inc. No. 2,910,813; v. 916; p. 1207.

Dingwall, Andrew G. F., Somerville, N.J. Disclaimer filed Oct. 24, 1972, by the assignee, RCA Corporation. No. 3,644,802; v. 906; p. 778.

Di Piazza, Gerald C., Lake Hiawatha, N.J. Disclaimer filed June 5, 1972, by the assignee, Bell Telephone Laboratories Incorporated. No. 3,345,589; v. 906; p. 93.

DiToro, Michael J., Massapequa, N.Y. Disclaimer filed May 18, 1973, by the assignee, General Signal Corporation. No. 3,206,688; v. 915; p. 1565.

Donald, Philip Joseph, Woodbury, N.Y. Disclaimer filed May 12, 1972, by the assignee, RCA Corporation. No. 3,591,274; v. 906; p. 93.

Douglass, Richard W., Needham, Mass. Disclaimer filed May 2, 1973, by the assignee, Norton Company. No. 3,729,794; v. 917; p. 5.

Downes, Daniel T., Wilkinsburg; and Edward Faustin, Brackenridge, Pa. Dedication filed July 25, 1973, by the assignee, PPG Industries, Inc. No. 2,831,791; v. 917; p. 4.

Drexler, Roger A.; Conrad Altmann, Rochester, N.Y. Disclaimer filed Jan. 23, 1973, by the assignee, Eastman Kodak Company. No. 3,543,720; v. 910; p. 995.

Drummond, William D., Burlington, Ontario, Canada. Dedication filed Jan. 24, 1973, by the assignee, International Harvester Company. No. 3,363,407; v. 910; p. 4.

Dryden, Gale E., Indianapolis, Ind. Disclaimer filed Mar. 30, 1973, by the inventor. No. 3,738,360; v. 915; p. 1167.

Duncan, Richard A., Lafayette, La. Disclaimer filed Apr. 11, 1973, by the assignee, The Thomson Machinery Company, Inc. No. 3,419,896; v. 912; p. 2.

Eakins, Merle M., Ford City, Pa. Dedication filed July 25, 1973, by the assignee, PPG Industries, Inc. No. 2,746,729; v. 917; p. 1194.

Eberle, Marcel K., Madison, N.J. Disclaimer filed July 17, 1972, by the assignee, Sandoz-Wander, Inc. No. 3,681,388; v. 914; p. 778.

Ebstein, John W., Roslyn Heights, N.Y. Disclaimer filed Apr. 24, 1972, by the assignee, Gabriel Industries, Inc. No. 3,603,588; v. 906; p. 93.

Edge, Charles F., Los Angeles, Calif. Disclaimer and dedication filed Aug. 17, 1973, by the assignee, Hughes Aircraft Company. No. 3,633,173; v. 917; p. 4.

Eisner, Steve, Schenectady, N.Y. Disclaimer filed May 26, 1872, by the assignee, Norton Company. No. 3,706,650; v. 914; p. 394.

Ellinger, Rudolph H., New Canaan, Conn.; and Mark G. Schwartz, Yonkers, N.Y. Disclaimer filed Nov. 3, 1971, by the assignee, Stauffer Chemical Company. No. 3,620,757; v. 914; p. 777.

Elsea, Arthur R.; Frank J. Barone; and William R. Warke, Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 3,293,-028; v. 915; p. 1565.

English, John B., Tokyo, Japan. Dedication filed July 18, 1973, by the assignee, Reynolds Metals Company. No. Re. 26,216; v. 916; p. 405.

Everroad, Herbert L., Denver, Colo. Disclaimer filed July 24, 1972, by the inventor. No. 3,688,780; v. 914; p. 394.

Ezell, James Burnett, Richmond, Va. Disclaimer filed May 31, 1972, by the assignee, E. I. du Pont de Nemours and Company. No. 3,511,793; v. 906; p. 93.

Faust, Charles L., and John E. Clifford, Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 3,130,138; v. 915; p. 1565.

Fekete, Lajos F., Valinda; and Edward Shanbrom, Santa Ana, Calif. Disclaimer filed Jan. 7, 1972, by the assignee, Baxter Laboratories, Inc. No. 3,682,881; v. 911; p. 1132.

Finlay, Alexander, Jr., Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 2,796,475; v. 916; p. 1206.

Finlay, Alexander, Jr., Columbus; William Hecox, Groveport; and Robert L. Thompson, Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 2,773,951; v. 916; p. 4.

Fischer, Victor H., Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 3,195,533; v. 915; p. 1168.

Franck, Kurt; and Robert G. McPhail, Newark, Ohio. Disclaimer filed Sept. 28, 1973, by the assignee, Holophane Company, Inc. No. 3,350,556; v. 916; p. 3.

Franck, Kurt; and Robert G. McPhail, Newark, Ohio. Disclaimer and dedication filed Sept. 18, 1973, by the assignee, Holophane Company, Inc. No. Des. 178,121; v. 916; p. 4.

Fujita, Ryuzo, Tokyo, Japan. Disclaimer filed Aug. 2, 1972, by the inventor. No. Des. 225,866; v. 915; p. 1167.

Funkhouser, Garland B., Waynesboro, Va. Disclaimer filed Apr. 24, 1972, by the assignee, Reynolds Metals Company. No. 3,347,365; v. 906; p. 93.

Galantay, Eugene E., Morristown, N.J. Disclaimer filed Apr. 15, 1971, by the assignee, Sandoz-Wander, Inc. No. 3,632,-858; v. 914; p. 777.





Gayner, Herbert, Monroeville; and David A. Smith, Penn Hills, Pa. Disclaimer filed June 11, 1973, by the assignee, Aluminum Company of America. No. 3,762,598; v. 916; p. 4.

Genser, Milton; and Worth P. Allred, Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 2,816,023; v. 916; p. 1206.

Genser, Milton; and Worth P. Allred, Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 2,950,220; v. 916; p. 1207.

Giger, Adolph J., Murray Hill, N.J. Dedication filed June 5, 1972, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,196,359; v. 906; p. 94.

Giger, Adolph J., Murray Hill; and Arthur F. Perks, Warren Township, Somerset County, N.J. Dedication filed June 5, 1972, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,248,659; v. 906; p. 94.

Gillies, Wallace; George K. Yamasaki; and J. C. Burger, Horseheads, N.Y. Disclaimer filed Sept. 12, 1972, by the assignee, Westinghouse Electric Corporation. No. 3,476,-970; v. 906; p. 778.

Goffe, William L. Webster, N.Y. Disclaimer filed Aug. 22, 1972, by the assignee, Xerox Corporation. No. 3,723,113; v. 911; p. 367.

Gooch, Jan W., Russellville, Ark. Disclaimer filed Apr. 25, 1972, by the inventor. No. 3,733,269; v. 914; p. 394.

Goodson, William Eugene, Freehold, N.J. Disclaimer filed May 7, 1973, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,719,903; v. 917; p. 5.

Goodwillie, David H., deceased, late of Toledo, Ohio, by Commerce National Bank of Toledo, executor, and Wilbur F. Brown, Toledo, Ohio. Dedication filed Mar. 5, 1973, by the assignee, Libbey-Owens-Ford Company. No. 2,824,411; v. 911; p. 1133.

Gorton, Henry Clay, Hillards; and Wilbur L. Mefferd; and Robert K. Willardson, Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 3,013,193; v. 916; p. 1207.

Grant, Peter M., Kingsport, Tenn.; Brazelton Fulkerson; and John W. Mench, Rochester, N.Y. Disclaimer filed Mar. 13, 1972, by the assignee, Eastman Kodak Company. No. 3,697,-640; v. 914; p. 778.

Grants, Paul R., Roselle Park, N.J. Disclaimer filed Oct. 24, 1972, by the inventor. No. 3,318,062; v. 910; p. 5.

Gregorius, Joseph S., Tarentum, Pa. Dedication filed July 25, 1973, by the assignee, PPG Industries, Inc. No. 2,730,338; v. 917; p. 4.

Griese, Elmer W., Jr., Chicago, Ill. Disclaimer filed Oct. 9, 1973, by the assignee, National Can Corporation. No. Des. 224,093; v. 917; p. 1195.

Grouard, Pierre; and Maurice Courtiere, Versailles, France. Dedication filed Nov. 27, 1972, by the assignee, Societe Siderurgique de Granulation, assenting. No. 2,755,148; v. 907; p. 607.

Guttmann, Stephen, Allschwil; and Rene Huhuenin, Reinach, Basel-Land, Switzerland. Disclaimer filed May 22, 1972, by the assignee, Sandoz, Ltd. (also known as Sandoz A.G.). No. 3,681,355; v. 914; p. 394.

Haas, Werner E. L.; James E. Adams, Webster; James H. Becker, Penfield; and Joseph J. Wysocki, Webster, N.Y. Disclaimer filed Nov. 20, 1972, by the assignee, Xerox Corporation. No. 3,655,971; v. 914; p. 4.

Haden, Walter L., Jr., Metuchen; and Frank J. Dzierzanowski, Somerset, N.J. Disclaimer filed June 4, 1971, by the assignee, Engelhard Minerals & Chemicals Corporation. No. 3,647,718; v. 908; p. 264.

Hainsfurther, Robert M., Brackenridge, Pa. Dedication filed July 25, 1973, by the assignee, PPG Industries, Inc. No. 2,795,083; v. 917; p. 4.

Halfhill, Martin O., and Harold C. Stephens, San Jose, Calif. Disclaimer filed Jan. 11, 1973, by the assignee, International Business Machines Corporation. No. 3,356,934; v. 910; p. 5.

Hallman, Robert W., Utica; and Gary W. Kurtz, Southfield, Mich. Disclaimer filed Jan. 24, 1972, by the assignee, Teeg Research, Inc. No. 3,650,743; v. 911; p. 762.

Hallman, Robert W., Utica; and Gary W. Kurtz, Southfield, Mich. Disclaimer filed Jan. 24, 1972, by the assignee, Teeg Research, Inc. No. 3,663,224; v. 911; p. 366.

Hallman, Robert W., Utica; and Gary W. Kurtz, Southfield, Mich. Disclaimer filed Oct. 24, 1972, by the assignee, Teeg Research, Inc. No. 3,707,372; v. 914; p. 778.

Hanks, George F., Avon, Conn. Disclaimer filed Mar. 28, 1973, by the assignee, Emhart Corporation. No. 3,596,889; v. 911; p. 366.

Hansen, Leo J., Claredon Hills, Ill. Disclaimer filed Sept. 7, 1971, by the assignee, Armour and Company. No. 3,636,-757; v. 914; p. 777.

Hara, Shigeyoshi; Masao Senoo; Tsunemasa Yoshida; and Moriya Uchida, Tokyo, Japan. Disclaimer filed Aug. 30, 1971, by the assignee, Teijin Limited. No. 3,647,762; v. 910; p. 406.

Haraszti, Tegze, Heilbronn, Germany. Disclaimer filed Oct. 31, 1972, by the assignee, Licentia, Patent-Verwaltungs-G.m.b.H. No. 3,684,903; v. 906; p. 1511.

Harris, Jeremy M., Worthington, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 3,491,603; v. 915; p. 1565.

Harris, Jeremy M., Worthington, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 3,625,075; v. 916; p. 1207.

Hausweiler, Arnold, Cologne-Flittard, Ingeborg Hammann, Cologne, and Wolfgang Behrenz, Cologne-Stammheim, Germany. Disclaimer filed June 29, 1973, by the assignee, Farbenfabriken Bayer AG. No. 3,470,236; v. 914; p. 4.

Hayes, John C., Palatine, Ill. Disclaimer filed July 9, 1971, by the assignee, Universal Oil Products Company. No. 3,645,888; v. 908; p. 264.

Heitzman, James O., Fullerton, Calif. Disclaimer and dedication filed July 17, 1972, by the assignee, Hughes Aircraft Company. No. 3,668,315; v. 906; p. 1511.

Helms, Clifford J., Calabasas Park, Calif. Disclaimer filed Mar. 12, 1971, by the assignee, Data Products Corporation. No. 3,619,673; v. 915; p. 1566.

Hill, Lester M., Beloit, Wis.; Joseph D. Parker, Roscoe; and Richard E. Hergert, Rockton, Ill. Disclaimer filed Apr. 30, 1973, by the assignee, Beloit Corporation. No. 3,607,625; v. 912; p. 2.

Hirsch, Stanley; and Irving Schneider, Westbury, N.Y. Dedication filed Mar. 26, 1973, by the assignee, Structural Industries, Inc. No. 3,698,114; v. 912; p. 2.

Holden, Herbert K., Bon Air, Va. Disclaimer filed July 6, 1972, by the assignee, American Filtrona Corporation. No. 3,715,869; v. 916; p. 4.

Hollies, Norman R. S., Bethesda; and Steven R. Chafitz, Rockville, Md. Disclaimer filed June 22, 1972, by the assignee, Cotton Incorporated. No. 3,709,657; v. 910; p. 1458.

Holtzapple, Clyde Norman, Duncannon, Pa. Dedication filed Jan. 9, 1973, by the assignee, AMP Incorporated. No. 3,594,-703; v. 910; p. 995.

Horn, Fordyce H., deceased, late of Schenectady, by Helen W. Horn, executrix, Schenectady, N.Y.; and Joseph W. Porter; and Joseph L. Talento, Media, Pa. Disclaimer filed May 4, 1971, by the assignee, General Electric Company. No. 3,663,775; v. 911; p. 366.

Hornig, Lothar, Frankfurt am Main; Hans Fernholz, Fischbach, Taunus; Hans-Joachim Schmidt, Frankfurt am Main; Friedrich Wunder, Florsheim (Main); and Therese Quadflieg, Kelkheim, Taunus, Germany. Disclaimer filed Sept. 21, 1973, by the assignee, Farbwerke Hoechst Aktiengesellschaft, vormals Meister Lucius & Brunig. No. 3,658,888; v. 915; p. 1167.

Horton, Robert A. Cleveland; Richard L. Ashbrook, Chesterland, Ohio; and Roy C. Feagin, Mountain Lakes, N.J. Disclaim filed Oct. 24, 1972, by the assignee, Howmet Corporation. No. 3,157,926; v. 908; p. 264.

Horton, Robert A., Dover, N.J.; Richard L. Ashbrook, La Porte, Ind.; and Roy C. Feagin, Mountain Lakes, N.J. Disclaimer filed Oct. 24, 1972, by the assignee, Howmet Corporation. No. 3,019,497; v. 908; p. 264.

Hostetler, Eldon, Middlebury, Ind. Disclaimer filed Oct. 9, 1973, by the assignee, Chore-Time Equipment, Inc. No. 3,388,690; v. 917; p. 1195.

Houlihan, William J., Mountain Lakes, N.J. Disclaimer filed Aug. 12, 1971, by the assignee, Sandoz-Wander, Inc. No. 3,663,536; v. 910; p. 995.

Hoyet, Eugene, Tarentum, Pa. Dedication filed July 25, 1973, by the assignee, PPG Industries, Inc. No. 2,736,996; v. 916; p. 1206.

Hronik, Richard H., Falls Church; Blanchard D. Smith, Alexandria; and James Wallen, Jr., Annandale, Va. Dedication filed Mar. 8, 1973, by the assignee, Melpar, Inc. No. 3,500,-186; v. 915; p. 1168.

Huffman, Clarence W., Glenview, Ill. Dedication filed Feb. 5, 1973, by the assignee, Monsanto Company. No. 3,382,280; v. 913; p. 388.

Hundere, Alf, San Antonio, Tex. Disclaimer filed Dec. 14, 1972, by the assignee, Alcor, Aviation, Inc. No. 3,154,060; v. 910; p. 5.

Hungate, Ernest C.; Harold A. Ogletree; and Grason T. Nickel, Greensboro, N.C. Disclaimer filed Apr. 2, 1973, by the assignee, Air Conditioning Corporation. No. 3,733,778; v. 913; p. 1044.

Hunziker, Fritz, Bern; Jean Schmutz, Muri, near Bern; Franz Martin Kunzle, Bern, Switzerland. Disclaimer filed July 24, 1972, by the assignee, Sandoz-Wander, Inc. No. 3,717,637; v. 914; p. 778.

Ischinger, Franz, Katharinenberg; Georg Behrmann, Katzwang; and Karl Linzenkirchner, Ingolstadt, Germany. Dedication filed Nov. 29, 1972, by the assignee, Zwierad Union A.G. No. 3,283,800; v. 907; p. 607.

Ischinger, Franz, Katharinenberg; Georg Behrmann, Katzwang; and Karl Linzenkirchner, Ingolstadt, Germany. Dedication filed Nov. 29, 1972, by the assignee, Zwierad Union A.G. No. 3,283,800; v. 910; p. 404.

Jacobson, Nathaniel J., Brookline, Mass. Disclaimer filed May 31, 1973, by the inventor. No. 3,722,109; v. 912; p. 398.

Jaffe, Joseph, Berkeley; and James R. Kittrell, Palos Verdes Estates, Calif. Disclaimer filed February 7, 1972, by the assignee, Chevron Research Company. No. 3,669,873; v. 911; p. 366.

James, Frazier N., Sr., Alexandria, Va. Disclaimer filed Nov. 1, 1971, by the assignee, Allied Automation, Inc. No. 3,635,-321; v. 908; p. 264.

Jamison, Joel D., Wilmington, Del. Disclaimer filed Aug. 11, 1971, by the assignee, Hercules Incorporated. No. 3,654,-307; v. 910; p. 1458.

Jendrisak, Joseph E., Northville, Mich. Dedication filed Mar. 5, 1973, by the assignee, Libbey-Owens-Ford Company. No. 2,737,758; v. 911; p. 1132.

Jendrisak, Joseph E., Rossford, Ohio. Dedication filed Mar. 5, 1973, by the assignee, Libbey-Owens-Ford Company. No. 2,744,359; v. 911; p. 1132.







Lowenfeld, Rudolf, Buschsblag; and Kurt Kaschlun, Offenbach, Germany. Disclaimer filed Aug. 25, 1972, by the assignee, Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. No. 3,687,-660; v. 911; p. 366.

Jendrisak, Joseph E., Rossford, Ohio. Dedication filed Mar. 5, 1973, by the assignee, Libbey-Owens-Ford Company. No. 2,758,422; v. 911; p. 1132.
Jendrisak, Joseph E., Rossford; and Frank J. Carson, Toledo, Ohio. Dedication filed Mar. 5, 1973, by the assignee, Libbey-Owens-Ford Company. No. 2,766,555; v. 911; p. 1132.
Jendrisak, Joseph E., Rossford, Ohio. Dedication filed Mar. 5, 1973, by the assignee, Libbey-Owens-Ford Company. No. 2,774,189; v. 911; p. 1132.
Jendrisak, Joseph E., Northville, Mich. Dedication filed Mar. 5, 1973, by the assignee, Libbey-Owens-Ford Company. No. 2,798,338; v. 911; p. 1133.
Jendrisak, Joseph E., Northville, Mich. Dedication filed Mar. 5, 1973, by the assignee, Libbey-Owens-Ford Company. No. 2,859,561; v. 913; p. 1044.
Jenkins, Philip W.; Donald W. Heseltine; and John D. Mee, Rochester, N.Y. Disclaimer filed Aug. 4, 1972, by the assignee, Eastman Kodak Company. No. 3,699,025; v. 911; p. 367.
Jenn, Louis J., Indianapolis, Ind. Disclaimer filed Oct. 22, 1970, by the inventor. No. Des. 220,256; v. 910; p. 406.
Jessel, Walter H., Jr., Doylestown; and William E. Duffett, Akron, Ohio. Disclaimer filed Aug. 23, 1973, by the assignee, Yoder Brothers, Inc. No. Plant Pat. 3,256; v. 917; p. 406.
Johnson, Theodore R., Jr., Weston, Mass. Disclaimer filed Feb. 2, 1973, by the assignee. Mirlin Corporation. No. 3,681,087; v. 911; p. 1132.
Johnson, Thomas Albert, Newark, Del. Disclaimer filed July 12, 1972, by the assignee, E. I. du Pont de Nemours and Company. No. 3,719,642; v. 915; p. 769.
Johnston, Mordica O., Glendale, Calif. Disclaimer and dedication filed Mar. 28, 1973, by the assignee, First City National Bank of Houston. No. 2,748,872; v. 913; p. 1044.
Johnston, Mordica O., Glendale, Calif. Disclaimer and dedication filed Mar. 28, 1973, by the assignee, First City National Bank of Houston. No. 2,751,011; v. 913; p. 1044.
Johnston, Mordica O., Glendale, Calif. Disclaimer and dedication filed Mar. 28, 1973, by the assignee, First City National Bank of Houston. No. 2,751,020; v. 913; p. 1044.
Johnston, Mordica O., Glendale, Calif. Disclaimer and dedication filed Mar. 28, 1973, by the assignee, First City National Bank of Houston. No. 2,760,580; v. 913; p. 1044.
Johnston, Howard, Walnut Creek, Calif. Disclaimer filed Oct. 20, 1972, by the assignee, The Dow Chemical Company. No. 3,364,223; v. 906; p. 1511.
Juby, Peter Frederick, De Witt; Richard Anthony Partyka, Liverpool; and Thomas William Hudyma, De Witt, N.Y. Disclaimer filed Apr. 2, 1973, by the assignee, Bristol-Myers Company. No. 3,565,904; v. 913; p. 388.
Kakuta, Kazuhiko, Tokyo, Japan. Disclaimer filed Nov. 20, 1972, by the assignee, Iwatsu Electric Company, Ltd. No. 3,717,847; v. 914; p. 778.
Kallos, George J., Saginaw, Mich. Disclaimer filed June 4, 1973, by the assignee, The Dow Chemical Company. No. 3,494,969; v. 917; p. 1195.
Kamborian, Jacob., West Newton; Wladyslaw Typrowicz, Belmont; and Gordon S. Anderson, Framingham, Mass. Disclaimer filed Mar. 23, 1973, by the assignee, Jacob S. Kamborian. No. 3,668,728; v. 912; p. 3.
Kennedy, Walter B., Glens Falls; and Donald B. Wheeler, Hudson Falls, N.Y. Dedication filed Dec. 20, 1973, by the assignee, Union Camp Corporation. No. 3,483,070; v. 907; p. 607.
Kent, Raymond W., Jr., and Kenneth R. Hock, Midland, Mich. Disclaimer filed May 24, 1972, by the assignee, The Dow Chemical Company. No. 3,453,356; v. 908; p. 2.
Kilgore, Marion D., Houston; and Robert C. Pumpelly, Dallas, Tex. Disclaimer filed July 23, 1973, by the assignee, Dresser Industries, Inc. No. 3,548,936; v. 917; p. 4.
King, Henry L.; Eugene L. Ringwald, Cary, N.C.; and James C. Randall, Jr., Bartlesville, Okla. Disclaimer filed June 1, 1971, by the assignee, Monsanto Company. No. 3,671,495; v. 910; p. 1458.
Kirk, James C., Lake Charles, La.; and Edsel L. Miller, Houston, Tex. Disclaimer filed Jan. 26, 1973, by the assignee, Continental Oil Company. No. 2,928,867; v. 914; p. 4.
Kirk, James C.; and Warren W. Wood, Ponca City, Okla. Disclaimer filed Jan. 26, 1973, by the assignee, Continental Oil Company. No. 2,836,619; v. 910; p. 1458.
Klass, Donald L., Barrington; and Carl D. Landahl, Chicago, Ill. Disclaimer filed Jan. 12, 1973 by the assignee, Institute of Gas Technology. No. 3,669,637; v. 908; p. 264.
Kleigman, Jonathan M.; and Robert K. Barnes, Charleston, W. Va. Disclaimer filed June 18, 1973, by the assignee, Union Carbide Corporation. No. 3,652,672; v. 916; p. 3.
Kmecak, Ronald A., and Stephen M. Kovach, Ashland, Ky. Disclaimer filed Dec. 20, 1971, by the assignee, Ashland Oil, Inc. No. 3,699,181; v. 908; p. 264.
Kok, Jurgen, Bedford, Mass. Disclaimer filed Dec. 7, 1973, by the assignee, DASA Corporation, consenting. No. 3,527,892; v. 908; p. 2.
Koleske, Joseph Victor; and Earl Richard Walter, Charleston, W. Va. Disclaimer filed Nov. 20, 1972, by the assignee, Union Carbide Corporation. No. 3,734,979; v. 914; p. 778.
Kondo, Iwao, Tokyo, Japan. Disclaimer filed Oct. 30, 1972, by the inventor. No. 3,729,610; v. 913; p. 1044.
Korchak, William J., Arlington, Tex. Disclaimer filed June 26, 1972, by the assignee, General Motors Corporation. No. 3,363,762; v. 907; p. 607.
Kramer, Gordon, Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 3,527,946; v. 917; p. 407.
Krieger, Herbert B., Port Jefferson Station; and Kenneth A. Wilson, Locust Valley, N.Y. Disclaimer filed Mar. 26, 1973, by the assignee, Clark Equipment Company. No. 3,482,644; v. 912; p. 2.
Krohn, Ivar T.; Geoffrey A. Page; and Gedeminas J. Reinis, Rochester, N.Y. Disclaimer and dedication filed Apr. 26, 1972, by the assignee, Xerox Corporation. No. 3,676,116; v. 914; p. 4.
Kunkle, Gerald E., New Kensington, Pa. Disclaimer filed Apr. 13, 1973, by the assignee, PPG Industries, Inc. No. 3,658,505; v. 912; p. 3.
Kuntz, Harry A., Toledo, Ohio. Dedication filed Mar. 5, 1973, by the assignee, Libbey-Owens-Ford Company. No. 2,746,153; v. 911; p. 1132.
Laframboise, Guy R.; and Merle P. Prater, Vestal, N.Y. Dedication filed Aug. 4, 1972, by the assignee, International Business Machines Corporation. No. 3,007,620; v. 906; p. 777.
La Gue, David H., Kansas City, Mo. Disclaimer filed Oct. 6, 1972, by the assignee, The Glen O'Brien Movable Partition Co., Inc. No. 3,583,116; v. 916; p. 3.
Lanctot, Robert S., Longmeadow, Mass. Disclaimer filed May 21, 1973, by the assignee, Chandler Evans, Inc. No. 3,614,269; v. 915; p. 1565.
Lander, Stanley C., Aurora, Ill. Disclaimer filed Apr. 28, 1972, by the assignee, White Consolidated Industries, Inc. No. 3,438,147; v. 906; p. 93.
La Plante, James F.; and Delmar E. Carney, Toledo, Ohio. Dedication filed Mar. 5, 1973, by the assignee, Libbey-Owens-Ford Company. No. 2,804,981; v. 911; p. 1133.
Lavin, Edward, Longmeadow; and Albert H. Markhart, Wilbraham, Mass. Disclaimer filed June 13, 1973, by the assignee, Monsanto Company. No. 3,260,691; v. 916; p. 3.
Lawrence, Philip L., Riverside, Conn. Disclaimer filed June 16, 1971, by the assignee, Mobil Oil Corporation. No. 3,598,982; v. 916; p. 3.
Layton, Jack D., Salem, Oreg. Dedication filed Dec. 14, 1972, by the inventor and the assignee, Layton Manufacturing Co. No. 3,237,539; v. 910; p. 4.
Lechner, Bernard Joseph, Princeton, N.J. Disclaimer filed Sept. 1, 1972, by the assignee, RCA Corporation. No. 3,603,962; v. 906; p. 778.
Lee, Harry Charles, West Lafayette, Ind. Disclaimer filed June 8, 1972, by the assignee, RCA Corporation. No. 3,639,787; v. 916; p. 3.
Leibowitz, Alec, London, England. Dedication filed Sept. 7, 1973, by the assignee, Spectrum Diamonds (Proprietary) Limited. No. 3,466,812; v. 917; p. 1194.
Leibowitz, Alec, London, England. Dedication filed Sept. 7, 1973, by the assignee, Spectrum Diamonds (Proprietary) Limited. No. 3,520,088; v. 917; p. 406.
Leibowitz, Alec, London, England. Dedication filed Sept. 7, 1973, by the assignee, Spectrum Diamonds (Proprietary) Limited. No. 3,534,510; v. 917; p. 407.
Leibowitz, Alec, London, England. Dedication filed Sept. 7, 1973, by the assignee, Spectrum Diamonds (Proprietary) Limited. No. 3,543,450; v. 917; p. 1194.
Leibowitz, Alec, Marylebone, London, England. Dedication filed Sept. 7, 1973, by the assignee, Spectrum Diamonds (Proprietary) Limited. No. 3,466,813; v. 917; p. 1194.
Levit, Edward C., Grand Rapids; and Adrian R. Olree, Caledonia, Mich. Disclaimer filed Oct. 25, 1972, by the assignee, Steelcase, Inc. No. 3,482,708; v. 906; p. 778.
Lewis, Wallace J.; and Glenn E. Faulkner, Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 3,023,133; v. 916; p. 1207.
Licari, Vincent, St. Joseph, Mich. Dedication filed Oct. 27, 1972, by the assignee, Clark Equipment Company. No. 3,575,448; v. 908; p. 264.
Liechti, Peter, Binningen; Erwin Maeder, Aesch, Basel-Land; Leonardo Guglielmetti, Birsfelden; and Adolf Emil Siegrist, Basel, Switzerland. Disclaimer filed Dec. 20, 1971, by the assignee, Ciba-Geigy A.G. No. 3,682,900; v. 914; p. 394.
Lien, Erling L., Los Altos, Calif. Disclaimer filed June 1, 1973, by the assignee, Varian Associates. No. 3,594,606; v. 916; p. 3.
Little, Arthur J., Springfield, Ill. Disclaimer filed Apr. 2, 1973, by the assignee, Stewart-Warner Corporation. No. 3,416,507; v. 912; p. 2.
Livingston, William L., Sharon, Mass. Disclaimer filed Apr. 3, 1972, by the assignee, Factory Mutual Research Corporation. No. 3,666,015; v. 906; p. 778.
Livingston, William L., Sharon, Mass. Disclaimer filed Apr. 10, 1972, by the assignee, Factory Mutual Research Corporation. No. 3,684,025; v. 906; p. 779.
Livingston, William L., Sharon, Mass. Disclaimer filed Apr. 25, 1972, by the assignee, Factory Mutual Research Corporation. No. 3,655,136, v. 914; p. 777.
Livingston, William L., Sharon, Mass. Disclaimer filed Aug. 23, 1972, by the assignee, Factory Mutual Research Corporation. No. 3,702,159; v. 911; p. 367.
Livingston, William L., Sharon, Mass. Disclaimer filed Dec. 21, 1972, by the assignee, Factory Mutual Research Corporation. No. 3,722,596; v. 914; p. 778.
Lopato, Stanley L., Ladue; and William R. Keithler, Kirkwood, Mo. Dedication filed Oct. 16, 1972, by the assignee, Carboline Company. No. 3,056,684; v. 906; p. 1511.



Lowenfeld, Rudolf, Buschschlag; and Uwe Kosubek, Offenbach, Main, Germany. Disclaimer filed June 12, 1972, by the assignee, Farbwerke Hoescht Aktiengesellschaft vormals Meister Lucius & Bruning. No. 3,708,257; v. 911; p. 367.
Lytle, Thomas James, West Orange, N.J. Disclaimer filed June 6, 1973, by the assignee, Union Carbide Corporation. No. 3,647,570; v. 916; p. 3.
Lytle, Thomas James, West Orange, N.J. Disclaimer filed June 6, 1973, by the assignee, Union Carbide Corporation. No. 3,752,460; v. 915; p. 1167.
McConnaughey, Paul W., Pittsbugh, Pa. Disclaimer filed Aug. 23, 1972, by the assignee, Mine Safety Appliances Company. No. 3,544,273; v. 906; p. 778.
McConnell, James L., St. Joseph, Mich. Disclaimer filed Feb. 21, 1973, by the assignee, Whirlpool Corporation. No. Re. 26,957; v. 916; p. 405.
McConnell, James L., St. Joseph, Mich. Disclaimer filed Sept. 4, 1973, by the assignee, Whirlpool Corporation. No. Re. 26,957; v. 915; p. 1167.
McCormick, Robert J.; and Charles E. Fitzgerald, Findlay, Ohio. Disclaimer filed Sept. 12, 1972, by the inventors. No. 3,722,731; v. 915; p. 1167.
McCown, William E., Maumee; and James W. McAuley, Perrysburg, Ohio. Dedication filed Mar. 5, 1973, by the assignee, Libbey-Owens-Ford Company. No. 2,784,119; v. 911; p. 1132.
Ma, Stephen P. F., Santa Monica; and Richard E. Sklar, Los Angeles, Calif. Disclaimer filed Aug. 17, 1972, by the assignee, Hughes Aircraft Company. No. 3,593,036; v. 906; p. 778.
Makino, Katsuo; and Iwa Sawato, Minami-Ashigara Machi, Japan. Disclaimer filed May 12, 1972, by the assignee, Fuji Photo Film Co., Ltd. No. 3,704,123; v. 910; p. 995.
Makovic, Frank J., Jr.; and Arthur W. Goralske, Toledo, Ohio. Dedication filed Mar. 5, 1973, by the assignee, Libbey-Owens-Ford Company. No. 2,893,905; v. 911; p. 1133.
Marcatili, Enrique A. J., Fair Haven; and Douglas H. Ring, Red Bank, N.J. Disclaimer filed Mar. 28, 1973, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,050,699; v. 912; p. 2.
March, Elliott R., Endicott; Albert A. Magdall; and Francis R. Rausch, Vestal, N.Y. Disclaimer filed Feb. 12, 1973, by the assignee, International Business Machines Corporation. No. 3,377,619; v. 912; p. 2.
Matson, Lyle K.; Francis J. Reid; and James F. Miller, Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 3,270,310; v. 915; p. 1565.
Mattox, John R.; and Thomas W. Mattox, Charlotte, N.C. Disclaimer filed Aug. 25, 1971, by the inventors. No. 3,640,652; v. 910; p. 995.
Matvey, Joseph J., Pittsburgh, Pa. Disclaimer filed June 12, 1973, by the inventor. No. 3,758,999; v. 916; p. 4.
Maykuth, Daniel J.; and Horace R. Ogden, Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 3,551,992; v. 917; p. 1195.
Mertz, Lawrence N., Cambridge; and Niels O. Young, South Lincoln, Mass. Disclaimer filed June 13, 1973, by the assignee, Block Engineering, Inc. No. 3,263,079; v. 915; p. 1565.
Messerschmidt, Harold J., Stockholm; Karl Heyman, Montclair; and Bernadou W. Johnsen II, Paterson, N.J. Disclaimer filed July 10, 1973, by the assignee, Mona Industries, Inc. No. 3,728,180; v. 916; p. 4.
Messerschmidt, Harold J., Stockholm; Karl Heyman, Montclair; and Bernadou W. Johnsen II, Paterson, N.J. Disclaimer filed July 10, 1973, by the assignee, Mona Industries, Inc. No. 3,730,899; v. 916; p. 4.
Meyrick, Harold A., Nashville; and Walter E. Ellsworth, Indianapolis, Ind. Dedication filed Dec. 8, 1972, by the assignee, SCM Corporation. No. 2,772,496; v. 916; p. 405.
Mienstaedt, Robert, Spartanburg, S.C. Disclaimer filed June 4, 1973, by the assignee, Deering Milliken, Inc. No. 3,674,993; v. 912; p. 792.
Moore, William Ross; and Ralph Rolland Langner, Lake Jackson, Tex. Dedication filed May 17, 1972, by the assignee, The Dow Chemical Company. No. 3,657,200; v. 906; p. 94.
Moriyasu, Hiro, Portland, Oreg. Disclaimer filed Apr. 16, 1973, by the assignee, Tektronix, Inc. No. 3,639,785; v. 912; p. 2.
Moss, Theron V., Shaker Heights, Ohio; and Ollie Ray Caylor, McDonald, Tenn. Disclaimer filed May 12, 1971, by the assignee, Theron V. Moss. No. 3,636,603; v. 914; p. 777.
Müller, Paul Adolf, Herrliberg, Switzerland. Dedication filed Dec. 22, 1971, by the assignee. Celfil Company Establishment. No. 3,646,855; v. 907; p. 607.
Nathanson, Heiz, New York, N.Y. Disclaimer filed Aug. 3, 1973, by the inventor. No. Des. 217,954; v. 917; p. 1195.
Neher, Maynard B., Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 2,917,921; v. 916; p. 1207.
Niklaus, Ulrich, Munchenstein; and Daniel Porret, Binningen, Switzerland. Disclaimer filed Apr. 11, 1973, by the assignee, Ciba-Geigy AG. No. 3,496,122; v. 917; p. 1195.
Noguchi, Shunsaku; and Shoji Kishimoto, Osaka, Japan. Disclaimer filed July 25, 1973, by the assignee, Takeda Chemical Industries, Ltd. No. 3,704,241; v. 913; p. 1044.
Norman, Vello, Chapel Hill; and Thomas B. Williams; Andrew G. Kallianos; and James D. Mold, Durham, N.C. Disclaimer filed May 12, 1972, by the inventors, the assignee, Liggett & Myers Incorporated, consenting. No. 3,703,901; v. 912; p. 3.
Oppenheimer, Seymour, Chicago; and Albin F. Turbak, Danville, Ill. Disclaimer filed Dec. 7, 1971, by the inventors and the assignee, Tee-Pak, Inc., consenting. No. 3,640,734; v. 910; p. 1458.
Oppenheimer, Seymour, Chicago; and Albin F. Turbak, Danville, Ill. Disclaimer filed Mar. 23, 1973, by the assignee, Tee-Pak, Inc. No. 3,640,735; v. 910; p. 995.
Orth, Peter, Lippstadt, Germany. Disclaimer filed Sept. 20, 1972, by the assignee, Heberlein Patent Corporation. No. 3,665,306; v. 914; p. 777.
Owen, William, Pittsburgh, Pa. Dedication filed July 25, 1973, by the assignee, PPG Industries, Inc. No. 2,838,898; v. 916; p. 1206.
Paysinger, Joseph R., Ahwaz, Iran; Eugene F. Sims; and Jerome W. Nelson, Houston, Tex. Disclaimer filed Mar. 19, 1973, by the assignee, CRC-Crose International, Inc. No. 3,733,939; v. 914; p. 4.
Peth, Robert, Chicago, Ill. Disclaimer filed Dec. 29, 1972, by the assignee, Motorola, Inc. No. 2,918,571; v. 910; p. 4.
Pickett, John E. P., Durham, N.C. Disclaimer filed Jan. 24, 1972, by the assignee, Triangle Biomedical Equipment, Inc. No. 3,697,299; v. 911; p. 366.
Pitti, Joseph J. Wantagh; and George A. Tassone, Brooklyn, N.Y. Disclaimer filed Nov. 3, 1972, by the assignee, Atreo Manufacturing Co., Inc. No. 3,732,581; v. 914; p. 778.
Powell, William H., Livingston; and Lawrence J. Friedman, Fort Lee, N.Y. Disclaimer filed Aug. 24, 1973, by the assignee, Congoleum Industries, Inc. No. 3,359,352; v. 917; p. 406.
Powers, Robert Pope, Akron, Ohio. Disclaimer filed Mar. 2, 1973, by the assignee, The Firestone Tire & Rubber Company. No. 3,486,547; v. 911; p. 366.
Price, Warren H., Sheboygan, Wis. Disclaimer filed Aug. 29, 1973, by the assignee, Gilson Bros. Co. No. 3,604,527; v. 917; p. 5.
Rackman, Michael I., Brooklyn, N.Y. Disclaimer filed Sept. 26, 1972, by the inventor. No. 3,716,658; v. 914; p. 394.
Randolph, Clarence L., Ashland, Ohio. Disclaimer filed July 30, 1973, by the assignee, Eagle Rubber Co., Inc. No. 3,478,132; v. 914; p. 394.
Raynaud, Guy M.; Claude P. Fauran; Michel J. Turin, Paris; Bernard M. Pourrias, Meudon La Foret; and Gerard J. Huguet, Malesherbes, France. Disclaimer filed Nov. 8, 1971, by the assignee, Delalande S.A. No. 3,696,100; v. 914; p. 778.
Reeds, John W., Jr., Thousand Oaks, Calif. Disclaimer filed Sept. 12, 1973, by the assignee, Minnesota Mining and Manufacturing Company. No. 3,685,899; v. 917; p. 406.
Reinhart, Franz Karl, Summit, N.J. Disclaimer filed Aug. 10, 1973, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,748,597; v. 917; p. 5.
Rhelingold, Lawrence M., Baldwin; and Milton Berlin, Forest Hills, N.Y. Disclaimer filed Feb. 7, 1973, by the assignee, The Alumet Corporation. No. 3,654,023; v. 912; p. 3.
Riehl, Fred, Greensburg, Pa. Dedication filed June 13, 1972, by the assignee, Robertshaw Controls Company. No. 3,308,871; v. 906; p. 777.
Rigdon, Orville W., Groves; Robert S. Edwards; and Edward H. Holst, Nederland, Tex. Disclaimer filed May 30, 1972, by the assignee, Texaco, Inc. No. 3,717,561; v. 911; p. 367.
Ritter, George F., Toledo, Ohio. Dedication filed Mar. 5, 1973, by the assignee, Libbey-Owens-Ford Company. No. 2,747,342; v. 911; p. 1132.
Robbins, Bruce D., Arnold, Pa. Dedication filed July 25, 1973, by the assignee, PPG Industries, Inc. No. 2,782,569; v. 917; p. 4.
Rogers, Alan B., Palos Park; Donald V. Schwall, Glen Ellyn; and Russell W. Posegate, La Grange Park, Ill. Disclaimer filed Sept. 11, 1972, by the assignee, Armour and Company. No. 3,507,207; v. 906; p. 778.
Rogers, William A., Lake Jackson, Tex.; and James E. Woehst, Savannah, Ga. Disclaimer filed Dec. 22, 1972, by the assignee, The Dow Chemical Company. No. 3,320,317; v. 910; p. 5.
Ronci, Fernando M., Providence, R.I. Disclaimer filed Aug. 30, 1972, by the inventor. No. 3,050,877; v. 906; p. 778.
Rosenlund, Iver T., Kennett Square, Pa. Dedication filed June 28, 1973, by the assignee, E. I. du Pont de Nemours and Company. No. 3,633,368; v. 916; p. 4.
Rossi, Silvano, Milan, Italy. Disclaimer filed Sept. 8, 1972, by the assignee, Roussel UCLAF. No. 3,736,316; v. 915; p. 1566.
Rouse, John Wilson, Ramsey, N.J. Disclaimer filed Aug. 1, 1973, by the assignee, American Can Company. No. 3,401,824; v. 914; p. 394.
Rowse, Robert A., Shrewsbury; and Roy S. Nelson, Sterling, Mass. Disclaimer filed June 1, 1972, by the assignee, Norton Company. No. 3,615,302; v. 907; p. 607.
Royle, Joseph Kenneth, Bakewell; John Grant, Risley; and Jack Alexander Golder, Lower Walton, England. Disclaimer filed Oct. 31, 1972, by the assignee, United Kingdom Atomic Energy Authority. No. 3,664,360; v. 906; p. 1511.
Russo, Robert Ritter, Indianapolis, Ind. Disclaimer filed Jan. 11, 1973, by the assignee, RCA Corporation. No. 3,704,208; v. 916; p. 4.



Safranek, William H., Jr., Worthington; and John G. Beach;
Spiegel, Francis X., Cedar Grove, N.J.; and Victor Monia,



Weber, Karl-Heinz, Gau-Algesheim; Karl-Zeile; and Peter Willardson, Robert Kir

Safranek, William H., Jr., Worthington; and John G. Beach; and Charles L. Faust, Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 3,111,404; v. 915; p. 1565.

Santana, George R., Saratoga, Calif. Dedication filed July 5, 1973, by the assignee, International Business Machines Corporation. No. 3,382,492; v. 916; p. 405.

Sarazan, John C., Mansfield; John M. Pierini, South Attleboro; and Reidar G. Larsen, North Attleboro, Mass. Disclaimer filed July 13, 1973, by the assignee, Texas Instruments Incorporated. No. 3,517,376; v. 917; p. 406.

Schmidt, Kurt, Cleveland, Ohio. Dedication filed Mar. 12, 1973, by the assignee, General Electric Company. No. 2,971,-110; v. 912; p. 2.

Schwartz, Marcus, Forest Hills, N.Y. Disclaimer filed June 25, 1973, by the assignee, S. & S. Industries, Inc. No. 3,599,-643; v. 915; p. 1565.

Sclar, Charles B., Columbus; and Paul J. Freud, Worthington, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 3,548,190; v. 917; p. 1195.

Sehm, Eugene J., Akron, Ohio. Disclaimer filed June 21, 1971, by the assignee, The B. F. Goodrich Company. No. 3,644,-576; v. 915; p. 769.

Seidel, Harold, Warren Township, Somerset County, N.J. Disclaimer filed July 14, 1972, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,500,259; v. 906; p. 778.

Selby, Meyer S., Revere; and Edward R. Baush, Bedford, Mass. Disclaimer and dedication filed Jan. 20, 1972, by the assignee, W. R. Grace & Co. No. 2,891,870; v. 916; p. 4.

Serventi, Serafine, Creighton, Pa.; and Jack Schweppe, Shelbyville, Ind. Dedication filed July 25, 1973, by the assignee, PPG Industries, Inc. No. 2,934,225; v. 916; p. 1207.

Shanahan, William J., New York; Vincent R. Zopf, Floral Park; and Albert M. Loshin, Brooklyn, N.Y. Disclaimer filed July 11, 1973, by the assignee, Skiatron Electronics & Television Corporation. No. 3,078,337; v. 917; p. 406.

Shane, James H., Acton; Robert J. Russell, Framingham; and Raymond A. Bochman, North Reading, Mass. Disclaimer filed Oct. 12, 1972, by the assignee, Union Carbide Corporation. No. 3,404,061; v. 906; p. 1511.

Sharp, Donald E., Maumee, Ohio. Dedication filed Mar. 5, 1973, by the assignee, Libbey-Owens-Ford Company. No. 2,800,175; v. 911; p. 1133.

Shoh, Andrew, Ridgefield, Conn. Disclaimer filed May 21, 1973, by the assignee, Branson Instruments Incorporated. No. 3,614,484; v. 913; p. 1044.

Sibakin, Jeroslaw George, Ancaster, Ontario; and Gordon Alan Reoder, and Paul Henry Heathcote Hookings, Burlington, Ontario, Canada. Disclaimer filed Feb. 22, 1973, by the assignee, The Steel Company of Canada, Limited, and Metallgesellschaft A.G. No. 3,690,867; v. 912; p. 3.

Simmons, Ralph W., Ford City, Pa. Dedication filed July 25, 1973, by the assignee, PPG Industries, Inc. No. 2,750,161; v. 917; p. 1194.

Simons, Charles C., Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 3,220,103; v. 915; p. 1565.

Sizer, Phillip S., Dallas, Tex. Disclaimer filed Oct. 12, 1973, by the assignee, Otis Engineering Corporation. No. 3,610,-336; v. 916; p. 406.

Smith, Harry A., Jr., Tarentum, Pa. Dedication filed July 25, 1973, by the assignee, PPG Industries, Inc. No. 2,763,928; v. 917; p. 4.

Smith, Michael John Stapley, Boars Hill; John Henry Wilson, Stockport; Bryan Reginald Parr, Sale, England. Disclaimer filed Aug. 9, 1973, by the assignee, United Kingdom Atomic Energy Authority. No. 3,712,075; v. 914; p. 394.

Smith, William G.; and Brook J. Dennison, Tarentum, Pa. Dedication filed July 25, 1973, by the assignee, PPG Industries, Inc. No. 2,849,345; v. 917; p. 4.

Smith, William G., Tarentum, Pa. Dedication filed July 25, 1973, by the assignee, PPG Industries, Inc. No. 2,748,441; v. 917; p. 1194.

Snee, Charles Thomas, Willoughby, Ohio. Disclaimer filed July 24, 1973, by the assignee, The Lubrizol Corporation. No. 3,676,224; v. 913; p. 388.

Solheim, Karsten, Phoenix, Ariz. Disclaimer filed May 7, 1973, by the inventor. No. 3,655,188; v. 915; p. 1167.

Sones, William K., Baltimore, Md. Disclaimer filed Mar. 19, 1973, by the assignee, the United States of America, as represented by the Secretary of the Air Force. No. 3,371,-343; v. 909; p. 792.

Sowman, Harold G., Maplewood; and James R. Johnson, White Bear Lake, Minn. Dedication filed May 8, 1973, by the assignee, The United States of America. No. Re. 26,294; v. 916; p. 1206.

Sowman, Harold G., Maplewood; and James R. Johnson, White Bear Lake, Minn. Dedication filed May 8, 1973, by the assignee, the United States of America. No. Re. 27,264; v. 916; p. 1206.

Sowman, Harold G., Maplewood; and James R. Johnson, White Bear Lake, Minn. Dedication filed May 8, 1973, by the assignee, the United States of America. No. 3,129,188; v. 916; p. 1207.

Sowman, Harold G., Maplewood; and James R. Johnson, White Bear Lake, Minn. Dedication filed May 8, 1973, by the assignee, the United States of America. No. 3,163,609; v. 916; p. 1207.

Spangle, Lloyd B., Tulsa, Okla. Disclaimer filed Aug. 17, 1973, by the assignee, The Dow Chemical Company. No. 3,563,313; v. 917; p. 1195.

Spiegel, Francis X., Cedar Grove, N.J.; and Victor Monia, Palo Alto, Calif. Disclaimer filed Sept. 4, 1973, by the assignee, Standard Packaging Corporation. No. 3,454,210; v. 917; p. 406.

Stapfer, Christian H., Newton, Pa. Disclaimer filed Oct. 16, 1972, by the assignee, Cincinnati Milacron Chemicals, Inc. No. 3,555,828; v. 909; p. 1187.

Stedman, Robert John, Melrose Park, Pa. Disclaimer filed June 15, 1973, by the assignee, Smith Kline & French Laboratories. No. 3,124,576; v. 915; p. 1565.

Stephenson, John C., Los Angeles, Calif. Disclaimer filed Feb. 7, 1972, by the inventor. No. Des. 224,953; v. 912; p. 397.

Stewart, Mary J. Riddlewood; Media and John A. Price, Swarthmore, Pa. Disclaimer filed Oct. 4, 1972, by the assignee, FMC Corporation. No. 3,438,944; v. 912; p. 398.

Stiles, Alvin B.; and Paul Clifford Yates, Wilmington, Del. Disclaimer filed Mar. 26, 1973, by the assignee, E. I. du Pont de Nemours and Company. No. 3,460,523; v. 914; p. 4.

Stillwell, Albert L., Green Brook, N.J. Dedication filed June 5, 1972, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,156,834; v. 906; p. 93.

Stolle, Ralph J., Lebanon; and Elton G. Kaminski, Sidney, Ohio; and Frederick J. Close, Pittsburgh, Pa. Disclaimer filed Nov. 12, 1971, by the assignee, The Stolle Corporation. No. 3,339,789; v. 914; p. 4.

Stonner, Frederik W., Chatham, N.Y. Disclaimer filed Aug. 5, 1971, by the assignee, Sterling Drug, Inc. No. 3,657,435; v. 908; p. 264.

Stratton, Philip G., Northville, Mich. Disclaimer filed May 30, 1973, by the assignee, Ramsey Corporation. No. 3,481,611; v. 915; p. 1565.

Streicher, Michael A., Webster Farms, Del. Disclaimer filed Nov. 24, 1972, by the assignee, E. I. du Pont de Nemours and Company. No. 3,481,882; v. 908; p. 264.

Stuart, Robert B., Penn Yan, N.Y. Dedication filed Mar. 30, 1973, by the assignee, Penn Yan Boats, Incorporated. No. 3,515,087; v. 912; p. 2.

Summers, Thomas W., Jeffersontown, Ky. Disclaimer filed Apr. 27, 1973, by the assignee, Brown & Williamson Tobacco Corporation. No. 3,695,274; v. 916; p. 3.

Sumner, Maurice N., Houston, Tex. Disclaimer filed May 1, 1972, by the inventor. No. 3,716,993; v. 910; p. 1458.

Szpur, Roman, Dayton, Ohio. Disclaimer filed Nov. 13, 1972, by the assignee, NDM Corporation. No. 3,713,435; v. 914; p. 778.

Tanaka, Hiroshi; Katsumi Nagamatsu; Gichi Marushima; and Shinkichi Takahashi, Tokyo, Japan. Disclaimer filed Feb. 18, 1972, by the assignee, Canon Kabushiki Kaisha. No. 3,666,363; v. 911; p. 762.

Tanimoto, Akira, Yamatokoriyama-shi, Japan. Disclaimer filed Apr. 3, 1973, by the assignee, Sharp Kabushiki Kaisha. No. 3,571,655; v. 911; p. 366.

Tantraporn, Wirojana; and Se Puan Yu, Schenectady; and Paul J. Shaver, Scotia, N.Y. Disclaimer filed Dec. 29, 1972, by the assignee, General Electric Company. No. 3,600,705; v. 908; p. 264.

Tibbetts, Wilbur E., San Jose, Calif. Disclaimer filed Aug. 30, 1972, by the assignee, International Business Machines Corporation. No. 3,155,949; v. 906; p. 778.

Torresen, Robert, Muskegon, Mich. Disclaimer filed Jan. 15, 1973, by the assignee, Brunswick Corporation. No. 3,341,-982; v. 910; p. 5.

Trahan, William R., Houston, Tex. Disclaimer filed June 25, 1973, by the assignee, Texfan, Inc. No. 3,559,560; v. 916; p. 3.

Troxler, Franz, Bottmingen, Switzerland. Disclaimer filed Oct. 16, 1972, by the assignee, Sandoz, Ltd. No. 3,705,907; v. 915; p. 769.

Turturro, Michael A., Santa Monica, Calif. Disclaimer filed Sept. 15, 1972, by the inventor. No. Des. 224,105; v. 906; p. 778.

Udovic, Daniel John, Holmdel, N.J. Disclaimer filed July 16, 1973, by the assignee, Bell Telephone Laboratories, Incorporated. No. 3,723,763; v. 916; p. 4.

Urgesi, Federico, Vercilli, Italy; and Horst Rothert, Berlin, Germany. Disclaimer filed Mar. 20, 1972, by the assignees, Chatillon Societa Anonima Italiana per la Fibere Tessili Artificiali S.p.A. and Karl Fischer Apparate- u. Rohrlietungsbau. No. 3,635,901; v. 911; p. 366.

Van Deven, Dale A., Ann Arbor, Mich. Disclaimer filed June 28, 1973, by the assignee, Federal-Mogul Corporation. No. 3,633,927; v. 913; p. 1044.

Vargiu, Silvio; and Mario Pitzalis, Milan; and Pierluigi Abruzzi, Bergamo, Italy. Disclaimer filed July 18, 1972, by the assignee, Societa Italiana Resine S.p.A. No. 3,705,-117; v. 915; p. 769.

Voelcker, Rudolph W., Greensboro, N.C. Dedication filed June 3, 1972, by the assignee, Western Electric Company, Incorporated. No. 3,201,721; v. 906; p. 94.

Wallen, James, Jr., Annandale; and Richard H. Hronik, Falls Church, Va. Dedication filed Mar. 8, 1973, by the assignee, Melpar, Inc. No. 3,517,307; v. 915; p. 1168.

Walters, Emmett L., Toledo, Ohio. Dedication filed Mar. 5, 1973, by the assignee, Libbey-Owens-Ford Company. No. 2,746,209; v. 911; p. 1132.

Ware, Gordon K., Chicago, Ill. Disclaimer filed Nov. 24, 1972, by the assignee, Ware Fuse Corporation. No. 3,622,029; v. 908; p. 264.



Weber, Karl-Heinz, Gau-Algesheim; Karl-Zelle; and Peter Danneberg, Ingelheim (Rhine); Rolf Giesemann, Bingen; and Karl Heinz Hauptmann, deceased, late of Ingelheim (Rhine), Germany, by Maria Hauptmann, heir, Bonn (Rhine), Germany. Disclaimer filed Sept. 13, 1972, by the assignee, Boehringer Ingelheim G.m.b.H. No. 3,711,470; v. 914; p. 778.

Weber, Karl-Heinz, Gau-Algesheim; Karl-Zelle; and Peter Danneberg, Ingelheim (Rhine); Rolf Giesemann, Bingen; and Karl Heinz Hauptmann, deceased, late of Ingelheim (Rhine), Germany, by Maria Hauptmann, heir, Bonn (Rhine), Germany. Disclaimer filed Sept. 13, 1972, by the assignee, Boehringer Ingelheim G.m.b.H. No. 3,711,509; v. 914; p. 394.

Weber, Klaus; and Fritz Urbahn, Remscheid, Germany. Disclaimer filed Aug. 28, 1972, by the assignee, Barmag Barmer Maschinenfabrik Aktiengesellschaft. No. 3,664,111; v. 906; p. 778.

Weener, Earl; and John Herman Vander Ploeg, Holland, Mich. Disclaimer filed Aug. 11, 1972, by the assignee, Chemetron Corporation. No. 3,357,983; v. 906; p. 778.

Weisbecker, Joseph A., Cherry Hill, N.J. Disclaimer filed May 4, 1972, by the assignee, RCA Corporation. No. 3,601,812; v. 906; p. 93.

Wells, Gordon S., Binghamton, N.Y. Disclaimer filed Feb. 12, 1973, by the assignee, Stow Manufarturing Co. No. 3,386,-353; v. 912; p. 2.

Welz, Wilbur C., Houston, Tex. Disclaimer filed Oct. 11, 1973, by the assignee, Schlumberger Technology Corporation. No. 3,452,269; v. 917; p. 1195.

Westbrook, Aubrey Joseph, Kilwinning; and Ian David MacKnight Thomson, Irvine, Scotland. Disclaimer filed Feb. 28, 1972, by the assignee, Plastic Rotational Moulding Limited. No. 3,689,191; v. 916; p. 3.

Wettstein, Albert, Relhen; and Georg Anner; Peter Wieland; and Karl Heusler, Basel, Switzerland. Disclaimer filed July 11, 1973, by the assignee, Ciba Corporation. No. 3,301,879; v. 916; p. 405.

Wheatley, Carl F., Jr., Somerset, N.J. Disclaimer filed Mar. 27, 1972, by the assignee, RCA Corporation. No. 3,449,622; v. 916; p. 3.

Whitaker, Ralph, Philadelphia, Pa.; Ralph Whitaker, Jr., Raleigh; and Frank E. Whiting, Garner, N.C. Disclaimer filed May 5, 1972, by the assignee, Fred Whitaker Company. No. 3,012,303; v. 906; p. 93.

White, Gerald, Rossford; and Frank J. Carson, Toledo, Ohio. Dedication filed Mar. 5, 1973, by the assignee, Libbey-Owens-Ford Company. No. 2,957,277; v. 911; p. 1133.

Whiteley, Thomas E., Rochester, N.Y. Disclaimer filed July 20, 1973, by the assignee, Eastman Kodak Company. No. 3,516,830; v. 917; p. 406.

Widmaier, Dieter, Fellbach, Germany. Disclaimer filed June 5, 1972, by the assignee, Robert Bosch G.m.b.H. No. 3,690,-097; v. 911; p. 366.

Willardson, Robert; and Albert C. Beer, Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 2,889,492; v. 916; p. 1206.

Willardson, Robert K., Arcadia, Calif.; and Albert C. Beer, Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 3,246,-225; v. 915; p. 1565.

Willardson, Robert K.; Harvey L. Goering; and Theodore C. Harmon, Columbus, Ohio. Dedication filed May 7, 1973, by the assignee, The Battelle Development Corporation. No. 2,778,802; v. 916; p. 4.

Williams, Oren F., South Charleston, W. Va.; Oscar H. Johnson, Westport, Conn.; and Jack R. Graham, St. Albans, W. Va. Dedication filed Dec. 11, 1972, by the assignee, Food Machinery and Chemical Corporation. No. 2,796,376; v. 910; p. 995.

Williams, Philips J., Bridgeport, Conn. Disclaimer filed Feb. 8, 1973, by the assignee, Stewart-Warner Corporation. No. 3,598,354; v. 911; p. 366.

Willson, James R., Greensburg, Pa. Dedication filed June 13, 1972, by the assignee, Robertshaw Controls Company. No. 3,255,965; v. 906; p. 777.

Winter, Karl-Heinz, Dornigheim; and Ottwin Krach, Wolfgang Bei Hanau/Main, Germany. Disclaimer filed June 10, 1971, by the assignee, Deutsche Gold- und Silber-Scheideanstalt vormals Roesselr. No. 3,620,518; v. 914; p. 777.

Wirth, Kenneth H., Baton Rouge, La. Disclaimer filed Aug. 12, 1971, by the inventor and the assignee, Copolymer Rubber and Chemical Corporation. No. 3,646,169; v. 910; p. 995.

Wolf, Erich, Wiesbaden, Germany. Dedication filed Nov. 29, 1972, by the assignee, Zweirad-Union A.G. No. 3,301,237; v. 908; p. 264.

Wollensak, John C.; and Bernard R. Meitsner, Royal Oak, Mich. Disclaimer filed Sept. 14, 1973, by the assignee, Ethyl Corporation. No. 3,553,270; v. 917; p. 1195.

Woodruff, Oscar C., Shreveport, La. Dedication filed Aug. 3, 1972, by the assignee, Jamajo Industries, Incorporated. No. 3,511,208; v. 907; p. 607.

Wright, John H., Elnora, N.Y. Dedication filed Jan. 26, 1973, by the assignee, General Electric Company, consenting. No. 3,669,884; v. 906; p. 777.

Wright, John H., Elnora, N.Y. Dedication filed Jan. 26, 1972, by the assignee, General Electric Company. No. 3,673,089; v. 911; p. 1133.

Yao, Cheng, Weston, Mass. Disclaimer filed Sept. 28, 1972, by the assignee, Factory Mutual Research Corporation. No. 3,708,015; v. 914; p. 778.

Yeh, Shu-Hsiung, Iowa City, Iowa. Disclaimer filed Feb. 18, 1972, by the assignee, Xerox Corporation. No. 3,681,064; v. 911; p. 762.

Young, Raymond H., Jr., Macon, Ga. Disclaimer filed Sept. 8, 1972, by the assignee, Monsanto Company. No. 3,729,-312; v. 914; p. 778.

Zaffaroni, Alejandro, Atherton, Calif. Disclaimer filed May 5, 1972, by the assignee, Alza Corporation. No. 3,699,963; v. 911; p. 762.

Zenker, Karol R., Needham, Mass. Disclaimer filed Aug. 7, 1972, by the assignee, Factory Mutual Research Corporation. No. 3,705,691; v. 911; p. 367.

Zuckerman, Benjamin, New York, N.Y. Dedication filed June 6, 1973, by the assignee, Mister Hanger, Inc. No. 3,249,270; v. 916; p. 405.

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## 1973

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